

10
2022

noVus[®]

PRODUCT CATALOG

DEVICES FOR REMOTE BODY
TEMPERATURE MEASUREMENT

VIDEO SURVEILLANCE SYSTEM IP/AHD

VIDEO INTERCOMS



AAT SYSTEMY BEZPIECZEŃSTWA sp. z o.o.

431 Pulawska St, 02-801 Warsaw, Poland, phone +48 22 546 05 46, fax +48 22 546 05 01

www.aat.pl

**PROFESSIONAL SYSTEM
FOR REMOTE BODY TEMPERATURE
MEASUREMENT (COVID-19)**

IP SYSTEMS

IP CAMERAS 4000 SERIES
IP RECORDERS 4000 SERIES
IP CAMERAS 6000 SERIES
IP CAMERAS SPEED DOME 6000 SERIES
IP RECORDERS 6000 SERIES
IP CAMERAS 8000 SERIES
IP CAMERAS SPEED DOME 8000 SERIES
IP CAMERAS THERMOVISION
RECORDERS 8000 SERIES
IP RECORDERS PC BASED
SOFTWARE FOR MONITORING VIDEO IP NMS
NETWORK SWITCHES
NETWORK ACCESSORIES

SYSTEMY MULTISTANDARD AHD, CVI, TVI, 960H

MULTISTANDARD CAMERAS
MULTISTANDARD CAMERAS SPEED DOME
MULTISTANDARD SIGNAL TRANSMISSION
HYBRID RECORDERS (MULTISTANDARD AND IP)
IR LED ILLUMINATORS

IP VIDEO INTERCOMS



AAT SYSTEMY BEZPIECZEŃSTWA sp. z o.o.

431 Pulawska St, 02-801 Warsaw, Poland, phone +48 22 546 05 46, fax +48 22 546 05 01

www.aat.pl



NVIP-2H-8912M/TS SET

**PROFESSIONAL SYSTEM
FOR REMOTE BODY
TEMPERATURE MEASUREMENT
(COVID-19)**

Professional system for remote body temperature measurement with mask detection function

NVIP-2H-8912M/TS SET



8000

VSS
PROJECT

KEY FEATURES

VCA
ANALYSIS

THERMO
VISION

The set consist of :

- 1 x IP camera with body temperature measuring feature [NVIP-2H-8912M/TS](#)
- 1 x Black body calibration unit [NV-BBU](#)
- 1 x N Control 8000 software
- 1 x ceiling mount NVB-BRTS1 (for the camera)
- 1 x ceiling mount NVB-BRTS2 (for the calibration unit)

Important features:

- up to 16 people simultaneous measurement within less than 1
- detection of people not wearing masks
- measuring accuracy up to +/- 0,3 ° C
- reducing number of false alarms thanks to VCA - camera measure temperature only in area when face is detected
- measured temperature value is assigned to specific person, captured image and temperature value are both stored in a database in order to carry out further analysis

Camera specification is available here: [NVIP-2H-8912M/TS](#)

Black body calibration unit specification is available here: [NV-BBU](#)

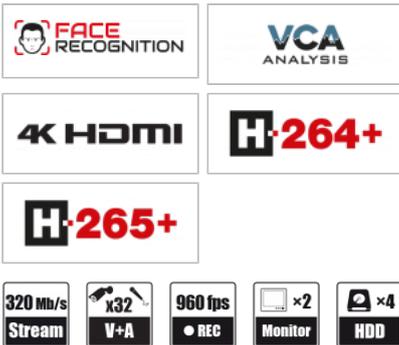
IP Recorder

NVR-8332P16-H4/F

8000 VSS PROJECT



KEY FEATURES



- 16 x Ethernet PoE - RJ-45 interface, 10/100 Mbit/s
- Video and audio channels: 32
- Supported protocols: ONVIF, RTSP
- Recording speed up to 960 fps at 4000 x 3000
- Supports resolution up to 4000 x 3000
- Recorded stream size: 320 Mb/s in total from all cameras
- Internal HDDs mount: 4
- Monitor outputs: 2 (HDMI (4K UltraHD), VGA)
- RACK mount
- Support for NVIP-2H-8912M / TS cameras for body temperature measuring

DIMENSIONS



VIDEO

Maximum Supported Camera Resolution	4000 x 3000
Compression	H.264, H.264+, H.265, H.265+
Monitor Output	main (split screen, full screen): 1 x VGA, 1 x HDMI (4K UltraHD) (up to 2 monitors simultaneously)
Dualstreaming Support	yes
Fisheye Support	yes, 5000/8000 IP series cameras

AUDIO

Audio Input/Output	- / 1 x line-out (RCA)
--------------------	------------------------

RECORDING

Recording Speed	640 fps (32 x 20 fps for 4000 x 3000)
Stream Size	320 Mb/s in total from all cameras
Recording Mode	time-lapse, triggered by: manual, alarm input, motion detection, intelligent image analysis functions

DISPLAY

Display Speed	960 fps (32 x 30 fps)
---------------	-----------------------

PLAYBACK

Playback Speed	960 fps (32 x 30 fps)
Recorded Data Search	by date/time, events, related to face recognition

BACKUP

Backup Methods	USB port (HDD or Flash memory), network
Backup File Format	MP4

STORAGE

Internal Storage	available mount: 4 x HDD 3.5" 12 TB SATA
Total Internal Capacity	48 TB
RAID Mode	RAID5, RAID6, RAID10

ALARM

Internal Alarm Input/Output	2/1 relay type
Motion Detection	supports camera's motion detection
System Reaction to Alarm Events	buzzer, e-mail, alarm output activation, screen message, recording activation

INTELLIGENT IMAGE ANALYSIS

IP Recorder

NVR-8332P16-H4/F

Supported Functions Exception, Tripwire, Zone entrance, Abandoned Object, Object Disappearance, Double Line Cross, Face Recognition, Body Temperature Alarm (support for up to two NVIP-2H-8912M/TS cameras for body temperature measuring)

NETWORK

Network Interface	1 x Ethernet - RJ-45 interface, 10/100/1000 Mbit/s • 16 x Ethernet PoE - RJ-45 interface, 10/100 Mbit/s
Network Protocols Support	HTTP, TCP/IP, IPv4, HTTPS, DHCP, DNS, DDNS, NTP, RTSP, UPnP, SNMP, PPPoE, SMTP
ONVIF Protocol Support	Profile S
PC/MAC Software	Internet Explorer, N Control 8000/InView Pro 4
Number of Simultaneous Connections	up to 8 clients
Bandwidth	320 Mb/s in total to all client workstations

PTZ

PTZ Functions pan/tilt/zoom, preset commands, patterns, tours

AUXILIARY INTERFACES

USB Ports 2 x USB 2.0 1 x USB 3.0

OPERATING SYSTEM

Operating System	Linux
OSD	languages: Polish, English, Russian, others
Control	PC mouse (in-set included), network
System Diagnostic	automatic control of: HDDs, camera connection loss
Security	password protection, IP filtering

INSTALLATION PARAMETERS

Dimensions (mm)	440 (W) x 70 (H) x 368 (D)
Weight	4.2 kg (without HDD)
Power Supply	100 ~ 240 VAC
Power Consumption	15 W + 160 W PoE
Operating Temperature	-10°C ~ 50°C
RACK Mount 19"	1.5U

Intelligent image analysis, dualstream mode, PTZ control, motion detection and alarm inputs / outputs functions depends on the functionality of the camera and the capabilities of the communication protocol. The recorder is dedicated to work with Novus 5000 and 8000 series IP cameras and achieves the best functionality with them. Detailed data on camera compatibility with recorders and compatible hard drives can be found in the compatibility tables available in the DOWNLOADABLE FILES tab. Display and playback speeds are achieved using dual stream.

Wall mount bracket, internal/external

NVB-WBRTS**8000** VSS
PROJECT

Type	wall mount bracket, outdoor, indoor
Application	dual IP camera (thermal/optical) with body temperature measuring feature NVIP-2H-8912M/TS
Material	aluminum alloy
Color	white
Load Capacity	3 kg
Dimensions (mm)	95 (W) x 117 (H) x 234 (L)
Weight	0.45 kg

Professional terminal for remote body temperature measurement with face recognition and mask detection function

KDH-KZ6000FR-IP



KEY FEATURES



DIMENSIONS



Key features:

- Detection of people with elevated temperatures
- Non-contact body temperature measurement using infrared
- Content analysis based on Deep Learning
- Configuration of the door unlocking mode
- Human-sounding voice prompts
- Web-server
- Detection of people not wearing masks
- Measuring accuracy up to +/- 0,3°
- Alarm Outputs
- Data storage on SD card
- 8-inch LCD touch screen
- Two-way audio

MORE TECHNICAL INFORMATION IN THE DOWNLOADABLE FILES TAB

How it works:

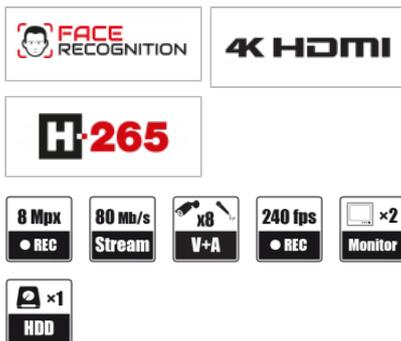
<https://www.youtube.com/watch?v=N0Rlbyu0Sj4>

Face recognition terminal with recording

KDH-ST6000P8-H1/F



KEY FEATURES



- 8 x Ethernet PoE - RJ-45 interface, 10/100 Mbit/s
- Recording speed up to 240 fps at 3840 x 2160
- Intelligent image analysis
- Face recognition terminal features: room occupancy control, people and vehicle counting statistics and charts (in conjunction with 6500 IP camera series), human temperature measurement (in conjunction with KDH-KZ6000FR-IP), face mask wearing control (in conjunction with KDH-KZ6000FR-IP), access control based on face recognition feature (in conjunction with KDH-KZ6000FR-IP), time attendance based on face recognition feature (in conjunction with KDH-KZ6000FR-IP)

DIMENSIONS



VIDEO

IP Cameras	up to 8 channels at 3840 x 2160 resolution (video + audio)
Maximum Supported Camera Resolution	3840 x 2160
Compression	H.264, H.264+, H.265
Monitor Output	main (split screen, full screen): 1 x VGA, 1 x HDMI (4K UltraHD) (up to 2 monitors simultaneously)
Dualstreaming Support	yes

AUDIO

Audio Input/Output	1 x line-in (RCA) / 1 x HDMI, 1 x line-out (RCA)
--------------------	--

RECORDING

Stream Size	80 Mb/s in total from all cameras
Recording Mode	time-lapse, triggered by: manual, motion detection, perimeter intrusion detection, face recognition, intelligent image analysis functions
Prealarm/Postalarm	up to 5 s/up to 600 s

DISPLAY

Display Speed	240 fps (8 x 30 fps)
---------------	----------------------

PLAYBACK

Playback Speed	240 fps (8 x 30 fps)
Recorded Data Search	by date/time, events

BACKUP

Backup Methods	USB port (HDD or Flash memory), network
Backup File Format	AVI, RPAS (player included)

STORAGE

Internal Storage	available mount: 1 x HDD 3.5" 10 TB SATA
Total Internal Capacity	10 TB

ALARM

Camera Alarm Input/Output	supports camera's alarm input/output
Motion Detection	supports camera's motion detection
System Reaction to Alarm Events	buzzer, recording activation, PTZ, e-mail with attachment

INTELLIGENT IMAGE ANALYSIS

Supported Functions	People Counting
---------------------	-----------------

NETWORK

Face recognition terminal with recording KDH-ST6000P8-H1/F

Network Interface	1 x Ethernet - RJ-45 interface, 10/100/1000 Mbit/s • 8 x Ethernet PoE - RJ-45 interface, 10/100 Mbit/s
Network Protocols Support	HTTP, TCP/IP, IPv4, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, UPnP, SNMP, SMTP
ONVIF Protocol Support	Profile S (ONVIF 2.2 or higher)
PC/MAC Software	NMS, Internet Explorer, N Control 6000/N Control 6000
Mobile applications	SuperLive Plus (iPhone, Android)
Number of Simultaneous Connections	up to 2 clients, up to 5 main streams or 12 substreams or 8 playback streams in total
Bandwidth	80 Mb/s in total to all client workstations

PTZ

PTZ Functions	pan/tilt/zoom, preset commands
---------------	--------------------------------

AUXILIARY INTERFACES

USB Ports	2 x USB 2.0
-----------	-------------

OPERATING SYSTEM

Operating System	Linux
Operation Mode	triplex
OSD	languages: Polish, English, others
Control	IR remote controller, PC mouse (in-set included), network
System Diagnostic	automatic control of: HDDs, network, camera connection loss
Security	password protection, IP filtering, MAC filtering

INSTALLATION PARAMETERS

Dimensions (mm)	300 (W) x 52 (H) x 248 (D)
Weight	1.16 kg (without HDD)
Power Supply	100 ~ 240 VAC
Power Consumption	20 W (with 1 HDD) + 100 W PoE
Operating Temperature	-10°C ~ 50°C

*In order to take full advantage of the recorder capabilities, it is recommended to use NOVUS IP 6000 series cameras. The availability of individual functions depends on the model of cameras used as well as the software version of the recorder and cameras. Detailed data can be found in the compatibility table available in the DOWNLOADS tab
The list of compatible drives is available in the DOWNLOADS tab.*

KDH-KZ6000FR-IP body temperature terminal bracket

KDA-DB6000



Type	indoor, desk bracket
Application	terminal for body temperature measurement KDH-KZ6000FR-IP
Color	black
Load Capacity	2 kg
Dimensions (mm)	100 (W) x 86 (H) x 160 (L)
Weight	0.5 kg

KDH-KZ6000FR-IP body temperature terminal bracket

KDA-GB6000



Type	indoor
Application	terminal for body temperature measurement KDH-KZ6000FR-IP
Color	black, silver
Load Capacity	2 kg
Dimensions (mm)	55 \varnothing x 317 (height)
Weight	0.6 kg

KDH-KZ6000FR-IP body temperature terminal bracket

KDA-SB6000



Type	indoor, detached
Application	terminal for body temperature measurement KDH-KZ6000FR-IP
Color	black
Load Capacity	2 kg
Dimensions (mm)	600 - 1500 (adjustable length), base 300 x 300
Weight	6.5 kg



IP SYSTEMS IP VIDEO SURVEILLANCE

01

IP CAMERAS 4000 SERIES



Vandal Proof IP Camera NVIP-2VE-4231

4000 VSS IP



KEY FEATURES



- Resolution: 2 MPX
- Lens: fixed focal, $f=3.6$ mm/F2.2
- built-in microphone
- D/N function - IR cut filter
- microSD card support
- Min. Illumination: 0.1 lx (0 lx, IR on)
- IR LED, range up to 30 m
- "Two way power" - when connected to a PoE switch, it allows to power the low power receiver from the camera's power socket

DIMENSIONS



IMAGE

Image Sensor	2 MPX CMOS sensor 1/2.7" SmartSens
Number of Effective Pixels	1920 (H) x 1080 (V)
Min. Illumination	0.1 lx/F1.2 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/5 s ~ 1/20000 s
Digital Slow Shutter (DSS)	up to 1/5 s
Wide Dynamic Range (WDR)	yes
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	fixed focal, $f=3.6$ mm/F2.2
-----------	------------------------------

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Delay	1 ~ 36 s
Visible Light Sensor	yes

NETWORK

Stream Resolution	1920 x 1080 (Full HD), 640 x 480 (VGA)
Frame Rate	30 fps for 1920 x 1080 (Full HD) • 20 fps for 640 x 480 (VGA)
Multistreaming Mode	2 streams
Video/Audio Compression	H.264, H.265/G.711
Number of Simultaneous Connections	max. 10
Bandwidth	40 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, RTP, UPnP, SMTP
ONVIF Protocol Support	Profile S/G
Camera Configuration	from Internet Explorer browser • languages: Polish, English, Russian, and others
Compatible Software	NMS

OTHER FUNCTIONS

Privacy Zones	4 video mask type: single color
Motion Detection	yes

Vandal Proof IP Camera NVIP-2VE-4231

Image Processing	180° image rotation, vertical flip, horizontal flip
Prealarm/Postalarm	up to 5 s/up to 30 s
System Reaction to Alarm Events	e-mail with attachment, saving file on FTP server, saving file on SD card, saving in the cloud storage
Restoring default settings	via web browser, using reset button

IR LED

LED Number	2
Range	30 m
Smart IR	yes (hardware support)

INTERFACES

Audio Input/Output	built-in microphone
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 256GB

INSTALLATION PARAMETERS

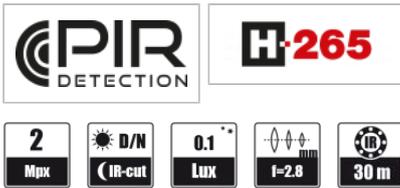
Dimensions (mm)	100 (Φ) x 90 (H)
Weight	0.43 kg
Degree of Protection	IP 66 (details in the user's manual)
Enclosure	vandalproof aluminium, white
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	1.5 W • 4 W (IR on)
Operating Temperature	-30°C ~ 55°C
Humidity	max. 95%, relative (non-condensing)

Vandal Proof IP Camera with PIR detector NVIP-2VE-4231/PIR

4000 VSS IP



KEY FEATURES



- Resolution: 2 MPX
- Lens: fixed focal, $f=2.8$ mm/F2.2
- built-in microphone
- D/N function - IR cut filter
- reduction of false alarms - PIR detector
- microSD card support
- Min. Illumination: 0.1 lx (0 lx, IR on)
- IR LED, range up to 30 m
- "Two way power" - when connected to a PoE switch, it allows to power the low power receiver from the camera's power socket

DIMENSIONS



IMAGE

Image Sensor	2 MPX CMOS sensor 1/2.7" SmartSens
Number of Effective Pixels	1920 (H) x 1080 (V)
Min. Illumination	0.1 lx/F1.2 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/5 s ~ 1/20000 s
Digital Slow Shutter (DSS)	up to 1/5 s
Wide Dynamic Range (WDR)	yes
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	fixed focal, $f=2.8$ mm/F2.2
-----------	------------------------------

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Delay	1 ~ 36 s
Visible Light Sensor	yes

NETWORK

Stream Resolution	1920 x 1080 (Full HD), 640 x 480 (VGA)
Frame Rate	30 fps for 1920 x 1080 (Full HD) • 20 fps for 640 x 480 (VGA)
Multistreaming Mode	2 streams
Video/Audio Compression	H.264, H.265/G.711
Number of Simultaneous Connections	max. 10
Bandwidth	40 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, RTP, UPnP, SMTP
ONVIF Protocol Support	Profile S/G
Camera Configuration	from Internet Explorer browser • languages: Polish, English, Russian, and others
Compatible Software	NMS

OTHER FUNCTIONS

Privacy Zones	4 video mask type: single color
Motion Detection	yes

Vandal Proof IP Camera with PIR detector NVIP-2VE-4231/PIR

PIR detector	range up to 7 m
Image Processing	180° image rotation, vertical flip, horizontal flip
Prealarm/Postalarm	up to 5 s/up to 30 s
System Reaction to Alarm Events	e-mail with attachment, saving file on FTP server, saving file on SD card, saving in the cloud storage
Restoring default settings	via web browser, using reset button

IR LED

LED Number	2
Range	30 m
Smart IR	yes (hardware support)

INTERFACES

Audio Input/Output	built-in microphone
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 256GB

INSTALLATION PARAMETERS

Dimensions (mm)	100 (Φ) x 90 (H)
Weight	0.43 kg
Degree of Protection	IP 66 (details in the user's manual)
Enclosure	vandalproof aluminium, white
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	1.5 W • 4 W (IR on)
Operating Temperature	-30°C ~ 55°C
Humidity	max. 95%, relative (non-condensing)

Vandal Proof IP Camera Starlight PRO DUO NVIP-2VE-4231/WL

4000 VSS IP



KEY FEATURES



- Resolution: 2 MPX
- Lens: fixed focal, $f=3.6$ mm/F1.0
- built-in microphone
- D/N function - IR cut filter
- microSD card support
- Min. Illumination: 0.0005 lx (0 lx, IR on)
- IR LED, range up to 30 m
- white LED illuminator, range up to 25 m
- "Two way power" - when connected to a PoE switch, it allows to power the low power receiver from the camera's power socket

DIMENSIONS



IMAGE

Image Sensor	2 MPX CMOS sensor 1/2.7" SmartSens
Number of Effective Pixels	1920 (H) x 1080 (V)
Min. Illumination	0.0005 lx/F1.0 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/5 s ~ 1/20000 s
Digital Slow Shutter (DSS)	up to 1/5 s
Wide Dynamic Range (WDR)	yes
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	fixed focal, $f=3.6$ mm/F1.0
-----------	------------------------------

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Delay	1 ~ 36 s
Switching Schedule	yes
Visible Light Sensor	yes

NETWORK

Stream Resolution	1920 x 1080 (Full HD), 640 x 480 (VGA)
Frame Rate	30 fps for 1920 x 1080 (Full HD) • 20 fps for 640 x 480 (VGA)
Multistreaming Mode	2 streams
Video/Audio Compression	H.264, H.265/G.711
Number of Simultaneous Connections	max. 10
Bandwidth	40 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, RTP, UPnP, SNMP, SMTP
ONVIF Protocol Support	Profile S/G
Camera Configuration	from Internet Explorer browser • languages: Polish, English, Russian, and others
Compatible Software	NMS
Mobile applications	RxCamView (iPhone, Android)

Vandal Proof IP Camera Starlight PRO DUO

NVIP-2VE-4231/WL

OTHER FUNCTIONS

Privacy Zones	4 video mask type: single color
Motion Detection	yes
Image Processing	180° image rotation, vertical flip, horizontal flip
Prealarm/Postalarm	up to 5 s/up to 30 s
System Reaction to Alarm Events	e-mail with attachment, saving file on FTP server, saving file on SD card, saving in the cloud storage
Determent	LED warning light, white, flashing/continuous mode,
Restoring default settings	via web browser, using reset button

IR LED

LED Number	2
Range	30 m
Smart IR	yes (hardware support)

WHITE LIGHT ILLUMINATOR

LED Number	2, warm white color
Range	25 m
Smart Light	yes (hardware support)

INTERFACES

Audio Input/Output	built-in microphone
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 256GB

INSTALLATION PARAMETERS

Dimensions (mm)	100 (Φ) x 90 (H)
Weight	0.42 kg
Degree of Protection	IP 66 (details in the user's manual)
Enclosure	vandalproof aluminium, white
Power Supply	12 VDC, PoE (IEEE 802.3af, Class 3)
Surge protection	TVS 4000 V
Power Consumption	1.2 W • 3.5 W (IR illuminator on) • 3.3 W (white light illuminator on) • 5.6 W (IR and white light illuminators on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)

Bullet IP Camera NVIP-2H-4231

4000 VSS IP



KEY FEATURES



- Resolution: 2 MPX
- Lens: fixed focal, $f=3.6$ mm/F2.2
- built-in microphone
- D/N function - IR cut filter
- microSD card support
- Min. Illumination: 0.1 lx (0 lx, IR on)
- IR LED, range up to 30 m
- "Two way power" - when connected to a PoE switch, it allows to power the low power receiver from the camera's power socket

DIMENSIONS



IMAGE

Image Sensor	2 MPX CMOS sensor 1/2.7" SmartSens
Number of Effective Pixels	1920 (H) x 1080 (V)
Min. Illumination	0.1 lx/F1.2 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/5 s ~ 1/20000 s
Digital Slow Shutter (DSS)	up to 1/5 s
Wide Dynamic Range (WDR)	yes
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	fixed focal, $f=3.6$ mm/F2.2
-----------	------------------------------

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Delay	1 ~ 36 s
Visible Light Sensor	yes

NETWORK

Stream Resolution	1920 x 1080 (Full HD), 640 x 480 (VGA)
Frame Rate	30 fps for 1920 x 1080 (Full HD) • 20 fps for 640 x 480 (VGA)
Multistreaming Mode	2 streams
Video/Audio Compression	H.264, H.265/G.711
Number of Simultaneous Connections	max. 10
Bandwidth	40 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, RTP, UPnP, SMTP
ONVIF Protocol Support	Profile S/G
Camera Configuration	from Internet Explorer browser • languages: Polish, English, Russian, and others
Compatible Software	NMS

OTHER FUNCTIONS

Privacy Zones	4 video mask type: single color
Motion Detection	yes

Bullet IP Camera NVIP-2H-4231

Image Processing	180° image rotation, vertical flip, horizontal flip
Prealarm/Postalarm	up to 5 s/up to 30 s
System Reaction to Alarm Events	e-mail with attachment, saving file on FTP server, saving file on SD card, saving in the cloud storage
Restoring default settings	via web browser, using reset button

IR LED

LED Number	2
Range	30 m
Smart IR	yes (hardware support)

INTERFACES

Audio Input/Output	built-in microphone
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 256GB

INSTALLATION PARAMETERS

Dimensions (mm)	with bracket: 71 (Φ) x 150 (L)
Weight	0.4 kg
Degree of Protection	IP 66 (details in the user's manual)
Enclosure	aluminium, white, fully cable managed wall mount bracket in-set included , IK10 impact rating
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	1.5 W • 4 W (IR on)
Operating Temperature	-30°C ~ 55°C
Humidity	max. 95%, relative (non-condensing)

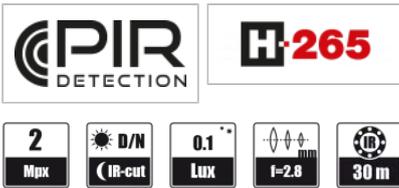
Bullet IP Camera with PIR detector

NVIP-2H-4231/PIR

4000 VSS IP



KEY FEATURES



- Resolution: 2 MPX
- Lens: fixed focal, $f=2.8$ mm/F2.2
- built-in microphone
- D/N function - IR cut filter
- reduction of false alarms - PIR detector
- microSD card support
- Min. Illumination: 0.1 lx (0 lx, IR on)
- IR LED, range up to 30 m
- "Two way power" - when connected to a PoE switch, it allows to power the low power receiver from the camera's power socket

DIMENSIONS



IMAGE

Image Sensor	2 MPX CMOS sensor 1/2.7" SmartSens
Number of Effective Pixels	1920 (H) x 1080 (V)
Min. Illumination	0.1 lx/F1.2 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/5 s ~ 1/20000 s
Digital Slow Shutter (DSS)	up to 1/5 s
Wide Dynamic Range (WDR)	yes
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	fixed focal, $f=2.8$ mm/F2.2
-----------	------------------------------

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Delay	1 ~ 36 s
Visible Light Sensor	yes

NETWORK

Stream Resolution	1920 x 1080 (Full HD), 640 x 480 (VGA)
Frame Rate	30 fps for 1920 x 1080 (Full HD) • 20 fps for 640 x 480 (VGA)
Multistreaming Mode	2 streams
Video/Audio Compression	H.264, H.265/G.711
Number of Simultaneous Connections	max. 10
Bandwidth	40 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, RTP, UPnP, SMTP
ONVIF Protocol Support	Profile S/G
Camera Configuration	from Internet Explorer browser • languages: Polish, English, Russian, and others
Compatible Software	NMS

OTHER FUNCTIONS

Privacy Zones	4 video mask type: single color
Motion Detection	yes

Bullet IP Camera with PIR detector NVIP-2H-4231/PIR

PIR detector	range up to 7 m
Image Processing	180° image rotation, vertical flip, horizontal flip
Prealarm/Postalarm	up to 5 s/up to 30 s
System Reaction to Alarm Events	e-mail with attachment, saving file on FTP server, saving file on SD card, saving in the cloud storage
Restoring default settings	via web browser, using reset button

IR LED

LED Number	2
Range	30 m
Smart IR	yes (hardware support)

INTERFACES

Audio Input/Output	built-in microphone
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 256GB

INSTALLATION PARAMETERS

Dimensions (mm)	with bracket: 71 (Φ) x 150 (L)
Weight	0.4 kg
Degree of Protection	IP 66 (details in the user's manual)
Enclosure	aluminium, white, fully cable managed wall mount bracket in-set included , IK10 impact rating
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	1.5 W • 4 W (IR on)
Operating Temperature	-30°C ~ 55°C
Humidity	max. 95%, relative (non-condensing)

Bullet IP Camera Starlight PRO DUO NVIP-2H-4231/WL

4000 VSS IP



KEY FEATURES



- Resolution: 2 MPX
- Lens: fixed focal, $f=3.6$ mm/F1.0
- built-in microphone
- D/N function - IR cut filter
- microSD card support
- Min. Illumination: 0.0005 lx (0 lx, IR on)
- IR LED, range up to 30 m
- white LED illuminator, range up to 25 m
- "Two way power" - when connected to a PoE switch, it allows to power the low power receiver from the camera's power socket

DIMENSIONS



IMAGE

Image Sensor	2 MPX CMOS sensor 1/2.7" SmartSens
Number of Effective Pixels	1920 (H) x 1080 (V)
Min. Illumination	0.0005 lx/F1.0 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/5 s ~ 1/20000 s
Digital Slow Shutter (DSS)	up to 1/5 s
Wide Dynamic Range (WDR)	yes
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	fixed focal, $f=3.6$ mm/F1.0
-----------	------------------------------

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Delay	1 ~ 36 s
Switching Schedule	yes
Visible Light Sensor	yes

NETWORK

Stream Resolution	1920 x 1080 (Full HD), 640 x 480 (VGA)
Frame Rate	30 fps for 1920 x 1080 (Full HD) • 20 fps for 640 x 480 (VGA)
Multistreaming Mode	2 streams
Video/Audio Compression	H.264, H.265/G.711
Number of Simultaneous Connections	max. 10
Bandwidth	40 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, RTP, UPnP, SNMP, SMTP
ONVIF Protocol Support	Profile S/G
Camera Configuration	from Internet Explorer browser • languages: Polish, English, Russian, and others
Compatible Software	NMS
Mobile applications	RxCamView (iPhone, Android)

OTHER FUNCTIONS

Privacy Zones	4 video mask type: single color
Motion Detection	yes
Image Processing	180° image rotation, vertical flip, horizontal flip
Prealarm/Postalarm	up to 5 s/up to 30 s
System Reaction to Alarm Events	e-mail with attachment, saving file on FTP server, saving file on SD card, saving in the cloud storage
Determent	LED warning light, white, flashing/continuous mode,
Restoring default settings	via web browser, using reset button

IR LED

LED Number	2
Range	30 m
Smart IR	yes (hardware support)

WHITE LIGHT ILLUMINATOR

LED Number	2, warm white color
Range	25 m
Smart Light	yes (hardware support)

INTERFACES

Audio Input/Output	built-in microphone
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 256GB

INSTALLATION PARAMETERS

Dimensions (mm)	with bracket: 74 (Φ) x 151 (L)
Weight	0.38 kg
Degree of Protection	IP 66 (details in the user's manual)
Enclosure	aluminium, white, fully cable managed wall mount bracket in-set included
Power Supply	12 VDC, PoE (IEEE 802.3af, Class 3)
Surge protection	TVS 4000 V
Power Consumption	1.2 W • 3.5 W (IR illuminator on) • 3.3 W (white light illuminator on) • 5.6 W (IR and white light illuminators on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)

Vandal Proof IP Camera NVIP-5VE-4231

4000 VSS IP



KEY FEATURES



- Resolution: 5 MPX
- Lens: fixed focal, $f=2.8$ mm/F1.6
- support for Chrome, Firefox, Opera, Safari browsers
- D/N function - IR cut filter
- microSD card support
- Min. Illumination: 0.05 lx (0 lx, IR on)
- IR LED, range up to 30 m
- "Two way power" - when connected to a PoE switch, it allows to power the low power receiver from the camera's power socket

DIMENSIONS



IMAGE

Image Sensor	5 MPX CMOS sensor 1/2.7" SmartSens
Number of Effective Pixels	2592 (H) x 1944 (V)
Min. Illumination	0.05 lx/F1.2 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/5 s ~ 1/20000 s
Digital Slow Shutter (DSS)	up to 1/5 s
Wide Dynamic Range (WDR)	yes
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	fixed focal, $f=2.8$ mm/F1.6
-----------	------------------------------

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Delay	1 ~ 36 s
Visible Light Sensor	yes

NETWORK

Stream Resolution	2592 x 1944, 2592 x 1520, 2304 x 1296, 1920 x 1080 (Full HD), 1280 x 960, 1280 x 720 (HD), 640 x 480 (VGA), 320 x 240 (QVGA)
Frame Rate	20 fps for 2592 x 1944 • 25 fps for 2592 x 1520 • 30 fps for 2304 x 1296 and lower resolutions
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.265/G.711
Number of Simultaneous Connections	max. 7
Bandwidth	20 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, RTP, UPnP, SNMP, SMTP, P2P, HTML5
ONVIF Protocol Support	Profile S/G
Camera Configuration	from Internet Explorer, Firefox, Chrome, Opera, Safari browser • languages: Polish, English, Russian, and others
Compatible Software	NMS
Mobile applications	RxCamView (iPhone, Android)

OTHER FUNCTIONS

Vandal Proof IP Camera NVIP-5VE-4231

Privacy Zones	4 video mask type: single color
Motion Detection	yes
Audio Detection	yes
Image Processing	180° image rotation, vertical flip, horizontal flip
Prealarm/Postalarm	up to 5 s/up to 30 s
System Reaction to Alarm Events	e-mail with attachment, saving file on FTP server, saving file on SD card, saving in the cloud storage
Restoring default settings	via web browser, using reset button

IR LED

LED Number	2
Range	30 m
Smart IR	yes (hardware support)

INTERFACES

Audio Input/Output	built-in microphone
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 256GB

INSTALLATION PARAMETERS

Dimensions (mm)	100 (Φ) x 90 (H)
Weight	0.43 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	vandalproof aluminium, white
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	1.5 W • 4 W (IR on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)

Vandal Proof IP Camera NVIP-5VE-4232

4000 VSS IP



KEY FEATURES



- Resolution: 5 MPX
- Lens: varifocal, $f=2.7 \sim 13.5$ mm/F1.8
- support for Chrome, Firefox, Opera, Safari browsers
- D/N function - IR cut filter
- microSD card support
- two-way audio
- Min. Illumination: 0.05 lx (0 lx, IR on)
- IR LED, range up to 45 m
- "Two way power" - when connected to a PoE switch, it allows to power the low power receiver from the camera's power socket

DIMENSIONS



IMAGE

Image Sensor	5 MPX CMOS sensor 1/2.7" SmartSens
Number of Effective Pixels	2592 (H) x 1944 (V)
Min. Illumination	0.05 lx/F1.2 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/5 s ~ 1/20000 s
Digital Slow Shutter (DSS)	up to 1/5 s
Wide Dynamic Range (WDR)	yes
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	varifocal, $f=2.7 \sim 13.5$ mm/F1.8
-----------	--------------------------------------

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Delay	1 ~ 36 s
Visible Light Sensor	yes

NETWORK

Stream Resolution	2592 x 1944, 2592 x 1520, 2304 x 1296, 1920 x 1080 (Full HD), 1280 x 960, 1280 x 720 (HD), 640 x 480 (VGA), 320 x 240 (QVGA)
Frame Rate	20 fps for 2592 x 1944 • 25 fps for 2592 x 1520 • 30 fps for 2304 x 1296 and lower resolutions
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.265/G.711
Number of Simultaneous Connections	max. 7
Bandwidth	20 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, RTP, UPnP, SNMP, SMTP, HTML5
ONVIF Protocol Support	Profile S/G
Camera Configuration	from Internet Explorer, Firefox, Chrome, Opera, Safari browser • languages: Polish, English, Russian, and others
Compatible Software	NMS
Mobile applications	RxCamView (iPhone, Android)

OTHER FUNCTIONS

Vandal Proof IP Camera NVIP-5VE-4232

Privacy Zones	4 video mask type: single color
Motion Detection	yes
Audio Detection	yes
Image Processing	180° image rotation, vertical flip, horizontal flip
Prealarm/Postalarm	up to 5 s/up to 30 s
System Reaction to Alarm Events	e-mail with attachment, saving file on FTP server, saving file on SD card, saving in the cloud storage
Restoring default settings	via web browser, using reset button

IR LED

LED Number	4
Range	45 m
Smart IR	yes (hardware support)

INTERFACES

Audio Input/Output	1 x RCA/1 x RCA
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 256GB

INSTALLATION PARAMETERS

Dimensions (mm)	135 (Φ) x 128 (H)
Weight	0.86 kg
Degree of Protection	IP 66 (details in the user's manual)
Enclosure	vandalproof aluminium, white
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	2 W • 5 W (IR on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)

Vandal Proof IP Camera with Motor-zoom Lens

NVIP-5VE-4232M



KEY FEATURES



- Resolution: 5 MPX
- Lens: motorized, auto-focus function, $f=2.7 \sim 13.5$ mm/F1.8
- support for Chrome, Firefox, Opera, Safari browsers
- D/N function - IR cut filter
- microSD card support
- two-way audio
- Min. Illumination: 0.05 lx (0 lx, IR on)
- IR LED, range up to 45 m
- "Two way power" - when connected to a PoE switch, it allows to power the low power receiver from the camera's power socket

DIMENSIONS



IMAGE

Image Sensor	5 MPX CMOS sensor 1/2.7" SmartSens
Number of Effective Pixels	2592 (H) x 1944 (V)
Min. Illumination	0.05 lx/F1.2 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/5 s ~ 1/20000 s
Digital Slow Shutter (DSS)	up to 1/5 s
Wide Dynamic Range (WDR)	yes
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	motorized, $f=2.7 \sim 13.5$ mm/F1.8
Auto-focus	zoom trigger, manual trigger

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Delay	1 ~ 36 s
Visible Light Sensor	yes

NETWORK

Stream Resolution	2592 x 1944, 2592 x 1520, 2304 x 1296, 1920 x 1080 (Full HD), 1280 x 960, 1280 x 720 (HD), 640 x 480 (VGA), 320 x 240 (QVGA)
Frame Rate	20 fps for 2592 x 1944 • 25 fps for 2592 x 1520 • 30 fps for 2304 x 1296 and lower resolutions
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.265/G.711
Number of Simultaneous Connections	max. 7
Bandwidth	20 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, RTP, UPnP, SNMP, SMTP, P2P, HTML5
ONVIF Protocol Support	Profile S/G
Camera Configuration	from Internet Explorer, Firefox, Chrome, Opera, Safari browser • languages: Polish, English, Russian, and others
Compatible Software	NMS
Mobile applications	RxCamView (iPhone, Android)

OTHER FUNCTIONS

Privacy Zones	4 video mask type: single color
Motion Detection	yes
Audio Detection	yes
Image Processing	180° image rotation, vertical flip, horizontal flip
Prealarm/Postalarm	up to 5 s/up to 30 s
System Reaction to Alarm Events	e-mail with attachment, saving file on FTP server, saving file on SD card, saving in the cloud storage
Restoring default settings	via web browser, using reset button

IR LED

LED Number	4
Range	45 m
Smart IR	yes (hardware support)

INTERFACES

Audio Input/Output	1 x RCA/1 x RCA
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 256GB

INSTALLATION PARAMETERS

Dimensions (mm)	135 (Φ) x 128 (H)
Weight	0.86 kg
Degree of Protection	IP 66 (details in the user's manual)
Enclosure	vandalproof aluminium, white
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	2 W • 5 W (IR illuminator on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)

Bullet IP Camera

NVIP-5H-4231

4000 VSS IP



KEY FEATURES



- Resolution: 5 MPX
- Lens: fixed focal, $f=2.8$ mm/F1.6
- support for Chrome, Firefox, Opera, Safari browsers
- D/N function - IR cut filter
- microSD card support
- Min. Illumination: 0.05 lx (0 lx, IR on)
- IR LED, range up to 30 m
- "Two way power" - when connected to a PoE switch, it allows to power the low power receiver from the camera's power socket

DIMENSIONS



IMAGE

Image Sensor	5 MPX CMOS sensor 1/2.7" SmartSens
Number of Effective Pixels	2592 (H) x 1944 (V)
Min. Illumination	0.05 lx/F1.2 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/5 s ~ 1/20000 s
Digital Slow Shutter (DSS)	up to 1/5 s
Wide Dynamic Range (WDR)	yes
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	fixed focal, $f=2.8$ mm/F1.6
-----------	------------------------------

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Delay	1 ~ 36 s
Visible Light Sensor	yes

NETWORK

Stream Resolution	2592 x 1944, 2592 x 1520, 2304 x 1296, 1920 x 1080 (Full HD), 1280 x 960, 1280 x 720 (HD), 640 x 480 (VGA), 320 x 240 (QVGA)
Frame Rate	20 fps for 2592 x 1944 • 25 fps for 2592 x 1520 • 30 fps for 2304 x 1296 and lower resolutions
Multistreaming Mode	2 streams
Video/Audio Compression	H.264, H.265/G.711
Number of Simultaneous Connections	max. 7
Bandwidth	20 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, RTP, UPnP, SMTP, P2P, HTML5
ONVIF Protocol Support	Profile S/G
Camera Configuration	from Internet Explorer, Firefox, Chrome, Opera, Safari browser • languages: Polish, English, Russian, and others
Compatible Software	NMS
Mobile applications	RxCamView (iPhone, Android)

OTHER FUNCTIONS

Bullet IP Camera NVIP-5H-4231

Privacy Zones	4 video mask type: single color
Motion Detection	yes
Audio Detection	yes
Image Processing	180° image rotation, vertical flip, horizontal flip
Prealarm/Postalarm	up to 5 s/up to 30 s
System Reaction to Alarm Events	e-mail with attachment, saving file on FTP server, saving file on SD card, saving in the cloud storage
Restoring default settings	via web browser, using reset button

IR LED

LED Number	2
Range	30 m
Smart IR	yes (hardware support)

INTERFACES

Audio Input/Output	built-in microphone
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 256GB

INSTALLATION PARAMETERS

Dimensions (mm)	with bracket: 71 (Φ) x 150 (L)
Weight	0.4 kg
Degree of Protection	IP 66 (details in the user's manual)
Enclosure	aluminium, white, fully cable managed wall mount bracket in-set included
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	1.5 W • 4 W (IR on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)

Bullet IP Camera with Motor-zoom Lens NVIP-5H-4232

4000 VSS IP



KEY FEATURES



- Resolution: 5 MPX
- Lens: varifocal, $f=2.7 \sim 13.5$ mm/F1.8
- support for Chrome, Firefox, Opera, Safari browsers
- D/N function - IR cut filter
- microSD card support
- two-way audio
- Min. Illumination: 0.05 lx (0 lx, IR on)
- IR LED, range up to 45 m
- "Two way power" - when connected to a PoE switch, it allows to power the low power receiver from the camera's power socket

DIMENSIONS



IMAGE

Image Sensor	5 MPX CMOS sensor 1/2.7" SmartSens
Number of Effective Pixels	2592 (H) x 1944 (V)
Min. Illumination	0.05 lx/F1.2 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/5 s ~ 1/20000 s
Digital Slow Shutter (DSS)	up to 1/5 s
Wide Dynamic Range (WDR)	yes
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	varifocal, $f=2.7 \sim 13.5$ mm/F1.8
-----------	--------------------------------------

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Delay	1 ~ 36 s
Visible Light Sensor	yes

NETWORK

Stream Resolution	2592 x 1944, 2592 x 1520, 2304 x 1296, 1920 x 1080 (Full HD), 1280 x 960, 1280 x 720 (HD), 640 x 480 (VGA), 320 x 240 (QVGA)
Frame Rate	20 fps for 2592 x 1944 • 25 fps for 2592 x 1520 • 30 fps for 2304 x 1296 and lower resolutions
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.265/G.711
Number of Simultaneous Connections	max. 7
Bandwidth	20 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, RTP, UPnP, SMTP, P2P, HTML5
ONVIF Protocol Support	Profile S/G
Camera Configuration	from Internet Explorer, Firefox, Chrome, Opera, Safari browser • languages: Polish, English, Russian, and others
Compatible Software	NMS
Mobile applications	RxCamView (iPhone, Android)

OTHER FUNCTIONS

Privacy Zones	4 video mask type: single color
---------------	---------------------------------

Bullet IP Camera with Motor-zoom Lens NVIP-5H-4232

Motion Detection	yes
Audio Detection	yes
Image Processing	180° image rotation, vertical flip, horizontal flip
Prealarm/Postalarm	up to 5 s/up to 30 s
System Reaction to Alarm Events	e-mail with attachment, saving file on FTP server, saving file on SD card, saving in the cloud storage
Restoring default settings	via web browser, using reset button

IR LED

LED Number	4
Range	45 m
Smart IR	yes (hardware support)

INTERFACES

Audio Input/Output	1 x RCA/1 x RCA
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 256GB

INSTALLATION PARAMETERS

Dimensions (mm)	with bracket: 87 (W) x 83 (H) x 242 (L)
Weight	0.82 kg
Degree of Protection	IP 66 (details in the user's manual)
Enclosure	aluminium, white, fully cable managed wall mount bracket in-set included
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	2 W • 5 W (IR illuminator on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)

Bullet IP Camera with Motor-zoom Lens NVIP-5H-4232M

4000 VSS IP



KEY FEATURES



- Resolution: 5 MPX
- Lens: motorized, auto-focus function, $f=2.7 \sim 13.5$ mm/F1.8
- support for Chrome, Firefox, Opera, Safari browsers
- D/N function - IR cut filter
- microSD card support
- two-way audio
- Min. Illumination: 0.05 lx (0 lx, IR on)
- IR LED, range up to 45 m
- "Two way power" - when connected to a PoE switch, it allows to power the low power receiver from the camera's power socket

DIMENSIONS



IMAGE

Image Sensor	5 MPX CMOS sensor 1/2.7" SmartSens
Number of Effective Pixels	2592 (H) x 1944 (V)
Min. Illumination	0.05 lx/F1.2 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/5 s ~ 1/20000 s
Digital Slow Shutter (DSS)	up to 1/5 s
Wide Dynamic Range (WDR)	yes
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	motorized, $f=2.7 \sim 13.5$ mm/F1.8
Auto-focus	zoom trigger, manual trigger

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Delay	1 ~ 36 s
Visible Light Sensor	yes

NETWORK

Stream Resolution	2592 x 1944, 2592 x 1520, 2304 x 1296, 1920 x 1080 (Full HD), 1280 x 960, 1280 x 720 (HD), 640 x 480 (VGA), 320 x 240 (QVGA)
Frame Rate	20 fps for 2592 x 1944 • 25 fps for 2592 x 1520 • 30 fps for 2304 x 1296 and lower resolutions
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.265/G.711
Number of Simultaneous Connections	max. 7
Bandwidth	20 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, RTP, UPnP, SMTP, P2P, HTML5
ONVIF Protocol Support	Profile S/G
Camera Configuration	from Internet Explorer, Firefox, Chrome, Opera, Safari browser • languages: Polish, English, Russian, and others
Compatible Software	NMS
Mobile applications	RxCamView (iPhone, Android)

OTHER FUNCTIONS

Bullet IP Camera with Motor-zoom Lens NVIP-5H-4232M

Privacy Zones	4 video mask type: single color
Motion Detection	yes
Audio Detection	yes
Image Processing	180° image rotation, vertical flip, horizontal flip
Prealarm/Postalarm	up to 5 s/up to 30 s
System Reaction to Alarm Events	e-mail with attachment, saving file on FTP server, saving file on SD card, saving in the cloud storage
Restoring default settings	via web browser, using reset button

IR LED

LED Number	4
Range	45 m
Smart IR	yes (hardware support)

INTERFACES

Audio Input/Output	1 x RCA/1 x RCA
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 256GB

INSTALLATION PARAMETERS

Dimensions (mm)	with bracket: 87 (W) x 83 (H) x 242 (L)
Weight	0.82 kg
Degree of Protection	IP 66 (details in the user's manual)
Enclosure	aluminium, white, fully cable managed wall mount bracket in-set included
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	2 W • 5 W (IR on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)

Vandal Proof IP Camera NVIP-5VE-4501

4000 VSS IP



KEY FEATURES



- Resolution: 5 MPX
- Lens: fixed focal, $f=2.8$ mm/F1.6
- support for Chrome, Firefox, Opera, Safari browsers
- D/N function - IR cut filter
- Video content analysis based on Deep Learning
- microSD card support
- WDR with double scan sensor
- Min. Illumination: 0.03 lx (0 lx, IR on)
- IR LED, range up to 30 m
- "Two way power" - when connected to a PoE switch, it allows to power the low power receiver from the camera's power socket

DIMENSIONS



IMAGE

Image Sensor	5 MPX CMOS sensor 1/2.7" SmartSens
Number of Effective Pixels	2880 (H) x 1620 (V)
Min. Illumination	0.03 lx/F1.2 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/5 s ~ 1/20000 s
Digital Slow Shutter (DSS)	up to 1/5 s
Wide Dynamic Range (WDR)	yes (double scan sensor), 120dB
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	fixed focal, $f=2.8$ mm/F1.6
-----------	------------------------------

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Delay	1 ~ 36 s
Visible Light Sensor	yes

NETWORK

Stream Resolution	2880 x 1620, 2560 x 1440 (QHD), 2304 x 1296, 1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 320 x 240 (QVGA)
Frame Rate	30 fps for each resolution
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.264+, H.265, H.265+/G.711
Number of Simultaneous Connections	max. 10
Bandwidth	60 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, RTP, UPnP, SNMP, SMTP, P2P, HTML5
ONVIF Protocol Support	Profile S/G
Camera Configuration	from Internet Explorer, Firefox, Chrome, Opera, Safari browser • languages: Polish, English, Russian, and others
Compatible Software	NMS
Mobile applications	RxCamView (iPhone, Android)

Vandal Proof IP Camera NVIP-5VE-4501

OTHER FUNCTIONS

Privacy Zones	4 video mask type: single color
Motion Detection	yes
Audio Detection	yes
Video Content Analysis (VCA)	abandoned object, object disappearance, line cross, zone entrance, zone exit, multi loiter, cross counting, heat map, queue length detection, objects distinguishing
Image Processing	180° image rotation, vertical flip, horizontal flip
Prealarm/Postalarm	up to 5 s/up to 30 s
System Reaction to Alarm Events	e-mail with attachment, saving file on FTP server, saving file on SD card, saving in the cloud storage
Restoring default settings	via web browser, using reset button

IR LED

LED Number	2
Range	30 m
Smart IR	yes (hardware support)

INTERFACES

Audio Input/Output	built-in microphone
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 256GB

INSTALLATION PARAMETERS

Dimensions (mm)	100 (Φ) x 90 (H)
Weight	0.43 kg
Degree of Protection	IP 66 (details in the user's manual)
Enclosure	vandalproof aluminium, white
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	2 W • 4 W (IR illuminator on)
Operating Temperature	-30°C ~ 55°C
Humidity	max. 95%, relative (non-condensing)

Vandal Proof IP Camera with Motor-zoom Lens

NVIP-5VE-4502M

4000 VSS IP



KEY FEATURES



- Resolution: 5 MPX
- Lens: motorized, auto-focus function, f=2.8 ~ 12 mm/F1.8
- support for Chrome, Firefox, Opera, Safari browsers
- D/N function - IR cut filter
- Video content analysis based on Deep Learning
- microSD card support
- WDR with double scan sensor
- two-way audio
- Min. Illumination: 0.03 lx (0 lx, IR on)
- IR LED, range up to 45 m
- "Two way power" - when connected to a PoE switch, it allows to power the low power receiver from the camera's power socket

DIMENSIONS



IMAGE

Image Sensor	5 MPX CMOS sensor 1/2.7" SmartSens
Number of Effective Pixels	2880 (H) x 1620 (V)
Min. Illumination	0.03 lx/F1.2 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/5 s ~ 1/20000 s
Digital Slow Shutter (DSS)	up to 1/5 s
Wide Dynamic Range (WDR)	yes (double scan sensor), 120dB
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	motorized, f=2.8 ~ 12 mm/F1.8
Auto-focus	zoom trigger, manual trigger

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Delay	1 ~ 36 s
Visible Light Sensor	yes

NETWORK

Stream Resolution	2880 x 1620, 2560 x 1440 (QHD), 2304 x 1296, 2048 x 1536 (QXGA), 1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 320 x 240 (QVGA)
Frame Rate	30 fps for each resolution
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.264+, H.265, H.265+/G.711
Number of Simultaneous Connections	max. 10
Bandwidth	60 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, RTP, UPnP, SNMP, SMTP, P2P, HTML5
ONVIF Protocol Support	Profile S/G
Camera Configuration	from Internet Explorer, Firefox, Chrome, Opera, Safari browser • languages: Polish, English, Russian, and others
Compatible Software	NMS

Vandal Proof IP Camera with Motor-zoom Lens NVIP-5VE-4502M

Mobile applications RxCamView (iPhone, Android)

OTHER FUNCTIONS

Privacy Zones	4 video mask type: single color
Motion Detection	yes
Audio Detection	yes
Video Content Analysis (VCA)	abandoned object, object disappearance, line cross, zone entrance, zone exit, multi loiter, cross counting, heat map, queue length detection, objects distinguishing
Image Processing	180° image rotation, vertical flip, horizontal flip
Prealarm/Postalarm	up to 5 s/up to 30 s
System Reaction to Alarm Events	e-mail with attachment, saving file on FTP server, saving file on SD card, saving in the cloud storage
Restoring default settings	via web browser, using reset button

IR LED

LED Number	4
Range	45 m
Smart IR	yes (hardware support)

INTERFACES

Audio Input/Output	1 x RCA/1 x RCA
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 256GB

INSTALLATION PARAMETERS

Dimensions (mm)	135 (Φ) x 128 (H)
Weight	0.9 kg
Degree of Protection	IP 66 (details in the user's manual)
Enclosure	vandalproof aluminium, white
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	3 W • 6 W (IR illuminator on)
Operating Temperature	-30°C ~ 55°C
Humidity	max. 95%, relative (non-condensing)

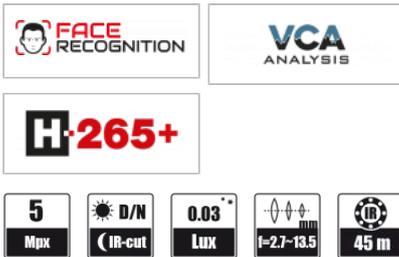
Vandal Proof IP Camera with Motor-zoom Lens

NVIP-5VE-4502M/F



4000 VSS IP

KEY FEATURES



- Resolution: 5 MPX
- Lens: motorized, auto-focus function, $f=2.7 \sim 13.5$ mm/F1.8
- support for Chrome, Firefox, Opera, Safari browsers
- D/N function - IR cut filter
- Video content analysis based on Deep Learning
- microSD card support
- WDR with double scan sensor
- two-way audio
- Min. Illumination: 0.03 lx (0 lx, IR on)
- IR LED, range up to 45 m
- "Two way power" - when connected to a PoE switch, it allows to power the low power receiver from the camera's power socket

DIMENSIONS



IMAGE

Image Sensor	5 MPX CMOS sensor 1/2.7" OmniVision
Number of Effective Pixels	2592 (H) x 1944 (V)
Min. Illumination	0.03 lx/F1.2 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/5 s ~ 1/20000 s
Digital Slow Shutter (DSS)	up to 1/5 s
Wide Dynamic Range (WDR)	yes (double scan sensor), 120dB
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	motorized, $f=2.7 \sim 13.5$ mm/F1.8
Auto-focus	zoom trigger, manual trigger

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Delay	1 ~ 36 s
Visible Light Sensor	yes

NETWORK

Stream Resolution	2592 x 1944, 2592 x 1520, 2304 x 1296, 2048 x 1536 (QXGA), 1920 x 1080 (Full HD), 1280 x 960, 1280 x 720 (HD), 640 x 480 (VGA), 320 x 240 (QVGA)
Frame Rate	30 fps for each resolution
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.264+, H.265, H.265+/G.711
Number of Simultaneous Connections	max. 10
Bandwidth	60 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, RTP, UPnP, SNMP, SMTP, P2P, HTML5
ONVIF Protocol Support	Profile S/G
Camera Configuration	from Internet Explorer, Firefox, Chrome, Opera, Safari browser • languages: Polish, English, Russian, and others
Compatible Software	NMS

Vandal Proof IP Camera with Motor-zoom Lens

NVIP-5VE-4502M/F

Mobile applications RxCamView (iPhone, Android)

OTHER FUNCTIONS

Privacy Zones	4 video mask type: single color
Motion Detection	yes
Audio Detection	yes
Video Content Analysis (VCA)	abandoned object, object disappearance, line cross, zone entrance, zone exit, multi loiter, cross counting, heat map, queue length detection, objects distinguishing, face recognition, comparing faces
Image Processing	180° image rotation, vertical flip, horizontal flip
Prealarm/Postalarm	up to 5 s/up to 30 s
System Reaction to Alarm Events	e-mail with attachment, saving file on FTP server, saving file on SD card, alarm output activation, saving in the cloud storage
Restoring default settings	via web browser, using reset button

IR LED

LED Number	4
Range	45 m
Smart IR	yes (hardware support)

INTERFACES

Audio Input/Output	1 x RCA/1 x RCA
Alarm Input/Output	1 (NO/NC)/1 relay type
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 256GB

INSTALLATION PARAMETERS

Dimensions (mm)	135 (Φ) x 128 (H)
Weight	0.9 kg
Degree of Protection	IP 66 (details in the user's manual)
Enclosure	vandalproof aluminium, white
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	3 W • 6 W (IR on)
Operating Temperature	-30°C ~ 55°C
Humidity	max. 95%, relative (non-condensing)

A memory card is required for the face recognition function to work.

Bullet IP Camera NVIP-5H-4501

4000 VSS IP



KEY FEATURES



- Resolution: 5 MPX
- Lens: fixed focal, f=2.8 mm/F1.6
- support for Chrome, Firefox, Opera, Safari browsers
- D/N function - IR cut filter
- Video content analysis based on Deep Learning
- microSD card support
- WDR with double scan sensor
- Min. Illumination: 0.03 lx (0 lx, IR on)
- IR LED, range up to 30 m
- "Two way power" - when connected to a PoE switch, it allows to power the low power receiver from the camera's power socket

DIMENSIONS



IMAGE

Image Sensor	5 MPX CMOS sensor 1/2.7" SmartSens
Number of Effective Pixels	2880 (H) x 1620 (V)
Min. Illumination	0.03 lx/F1.2 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/5 s ~ 1/20000 s
Digital Slow Shutter (DSS)	up to 1/5 s
Wide Dynamic Range (WDR)	yes (double scan sensor), 120dB
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	fixed focal, f=2.8 mm/F1.6
-----------	----------------------------

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Delay	1 ~ 36 s
Visible Light Sensor	yes

NETWORK

Stream Resolution	2880 x 1620, 2560 x 1440 (QHD), 2304 x 1296, 1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 320 x 240 (QVGA)
Frame Rate	30 fps for each resolution
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.264+, H.265, H.265+/G.711
Number of Simultaneous Connections	max. 10
Bandwidth	60 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, RTP, UPnP, SMTP, P2P, HTML5
ONVIF Protocol Support	Profile S/G
Camera Configuration	from Internet Explorer, Firefox, Chrome, Opera, Safari browser • languages: Polish, English, Russian, and others
Compatible Software	NMS
Mobile applications	RxCamView (iPhone, Android)

OTHER FUNCTIONS

Privacy Zones	4 video mask type: single color
Motion Detection	yes
Audio Detection	yes
Video Content Analysis (VCA)	abandoned object, object disappearance, line cross, zone entrance, zone exit, multi loiter, cross counting, heat map, queue length detection, objects distinguishing
Image Processing	180° image rotation, vertical flip, horizontal flip
Prealarm/Postalarm	up to 5 s/up to 30 s
System Reaction to Alarm Events	e-mail with attachment, saving file on FTP server, saving file on SD card, saving in the cloud storage
Restoring default settings	via web browser, using reset button

IR LED

LED Number	2
Range	30 m
Smart IR	yes (hardware support)

INTERFACES

Audio Input/Output	built-in microphone
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 256GB

INSTALLATION PARAMETERS

Dimensions (mm)	with bracket: 71 (Φ) x 150 (L)
Weight	0.4 kg
Degree of Protection	IP 66 (details in the user's manual)
Enclosure	aluminium, white, fully cable managed wall mount bracket in-set included
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	2 W • 4 W (IR illuminator on)
Operating Temperature	-30°C ~ 55°C
Humidity	max. 95%, relative (non-condensing)

Bullet IP Camera with Motor-zoom Lens NVIP-5H-4502M

4000 VSS IP



KEY FEATURES



- Resolution: 5 MPX
- Lens: motorized, auto-focus function, f=2.8 ~ 12 mm/F1.8
- support for Chrome, Firefox, Opera, Safari browsers
- D/N function - IR cut filter
- Video content analysis based on Deep Learning
- microSD card support
- WDR with double scan sensor
- two-way audio
- Min. Illumination: 0.03 lx (0 lx, IR on)
- IR LED, range up to 45 m
- "Two way power" - when connected to a PoE switch, it allows to power the low power receiver from the camera's power socket

DIMENSIONS



IMAGE

Image Sensor	5 MPX CMOS sensor 1/2.7" SmartSens
Number of Effective Pixels	2880 (H) x 1620 (V)
Min. Illumination	0.03 lx/F1.2 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/5 s ~ 1/20000 s
Digital Slow Shutter (DSS)	up to 1/5 s
Wide Dynamic Range (WDR)	yes (double scan sensor), 120dB
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	motorized, f=2.8 ~ 12 mm/F1.8
Auto-focus	zoom trigger, manual trigger

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Delay	1 ~ 36 s
Visible Light Sensor	yes

NETWORK

Stream Resolution	2880 x 1620, 2560 x 1440 (QHD), 2304 x 1296, 1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 320 x 240 (QVGA)
Frame Rate	30 fps for each resolution
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.264+, H.265, H.265+/G.711
Number of Simultaneous Connections	max. 10
Bandwidth	60 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, RTP, UPnP, SNMP, SMTP, P2P, HTML5
ONVIF Protocol Support	Profile S/G
Camera Configuration	from Internet Explorer, Firefox, Chrome, Opera, Safari browser • languages: Polish, English, Russian, and others
Compatible Software	NMS
Mobile applications	RxCamView (iPhone, Android)

Bullet IP Camera with Motor-zoom Lens NVIP-5H-4502M

OTHER FUNCTIONS

Privacy Zones	4 video mask type: single color
Motion Detection	yes
Audio Detection	yes
Video Content Analysis (VCA)	abandoned object, object disappearance, line cross, zone entrance, zone exit, multi loiter, cross counting, heat map, queue length detection, objects distinguishing
Image Processing	180° image rotation, vertical flip, horizontal flip
Prealarm/Postalarm	up to 5 s/up to 30 s
System Reaction to Alarm Events	e-mail with attachment, saving file on FTP server, saving file on SD card, saving in the cloud storage
Restoring default settings	via web browser, using reset button

IR LED

LED Number	4
Range	45 m
Smart IR	yes (hardware support)

INTERFACES

Audio Input/Output	1 x RCA/1 x RCA
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 256GB

INSTALLATION PARAMETERS

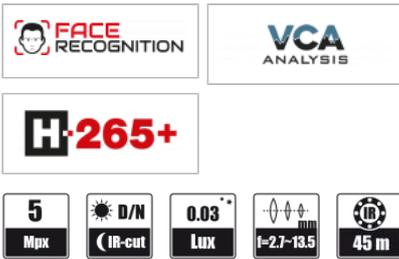
Dimensions (mm)	with bracket: 87 (W) x 83 (H) x 242 (L)
Weight	0.82 kg
Degree of Protection	IP 66 (details in the user's manual)
Enclosure	aluminium, white, fully cable managed wall mount bracket in-set included
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	3 W • 6 W (IR illuminator on)
Operating Temperature	-30°C ~ 55°C
Humidity	max. 95%, relative (non-condensing)

Bullet IP Camera with Motor-zoom Lens NVIP-5H-4502M/F

4000 VSS IP



KEY FEATURES



- Resolution: 5 MPX
- Lens: motorized, auto-focus function, $f=2.7 \sim 13.5$ mm/F1.8
- support for Chrome, Firefox, Opera, Safari browsers
- D/N function - IR cut filter
- Video content analysis based on Deep Learning
- microSD card support
- WDR with double scan sensor
- two-way audio
- Min. Illumination: 0.03 lx (0 lx, IR on)
- IR LED, range up to 45 m
- "Two way power" - when connected to a PoE switch, it allows to power the low power receiver from the camera's power socket

DIMENSIONS



IMAGE

Image Sensor	5 MPX CMOS sensor 1/2.7" OmniVision
Number of Effective Pixels	2592 (H) x 1944 (V)
Min. Illumination	0.03 lx/F1.2 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/5 s ~ 1/20000 s
Digital Slow Shutter (DSS)	up to 1/5 s
Wide Dynamic Range (WDR)	yes (double scan sensor), 120dB
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	motorized, $f=2.7 \sim 13.5$ mm/F1.8
Auto-focus	zoom trigger, manual trigger

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Delay	1 ~ 36 s
Visible Light Sensor	yes

NETWORK

Stream Resolution	2592 x 1944, 2592 x 1520, 2304 x 1296, 2048 x 1536 (QXGA), 1920 x 1080 (Full HD), 1280 x 960, 1280 x 720 (HD), 640 x 480 (VGA), 320 x 240 (QVGA)
Frame Rate	30 fps for each resolution
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.264+, H.265, H.265+/G.711
Number of Simultaneous Connections	max. 10
Bandwidth	60 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, RTP, UPnP, SNMP, SMTP, P2P, HTML5
ONVIF Protocol Support	Profile S/G
Camera Configuration	from Internet Explorer, Firefox, Chrome, Opera, Safari browser • languages: Polish, English, Russian, and others
Compatible Software	NMS
Mobile applications	RxCamView (iPhone, Android)

Bullet IP Camera with Motor-zoom Lens NVIP-5H-4502M/F

OTHER FUNCTIONS

Privacy Zones	4 video mask type: single color
Motion Detection	yes
Audio Detection	yes
Video Content Analysis (VCA)	abandoned object, object disappearance, line cross, zone entrance, zone exit, multi loiter, cross counting, heat map, queue length detection, objects distinguishing, face recognition, comparing faces
Image Processing	180° image rotation, vertical flip, horizontal flip
Prealarm/Postalarm	up to 5 s/up to 30 s
System Reaction to Alarm Events	e-mail with attachment, saving file on FTP server, saving file on SD card, alarm output activation, saving in the cloud storage
Restoring default settings	via web browser, using reset button

IR LED

LED Number	4
Range	45 m
Smart IR	yes (hardware support)

INTERFACES

Audio Input/Output	1 x RCA/1 x RCA
Alarm Input/Output	1 (NO/NC)/1 relay type
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 256GB

INSTALLATION PARAMETERS

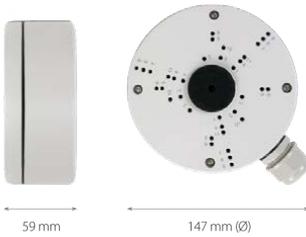
Dimensions (mm)	with bracket: 87 (W) x 83 (H) x 242 (L)
Weight	0.82 kg
Degree of Protection	IP 66 (details in the user's manual)
Enclosure	aluminium, white, fully cable managed wall mount bracket in-set included
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	2 W • 5 W (IR on)
Operating Temperature	-30°C ~ 55°C
Humidity	max. 95%, relative (non-condensing)

A memory card is required for the face recognition function to work.

Wall/ceiling mount bracket indoor/outdoor NVB-4000JB



DIMENSIONS

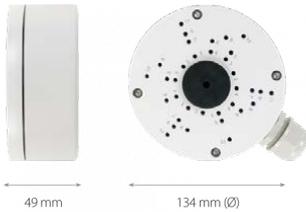


Type	wall/ceiling mount adapter with cable gland, indoor/outdoor
Application	4000 series IP cameras and also 3000 series AHD cameras (detailed compatibility list available as a file to download in section "Downloadable Files")
Material	aluminium
Color	white
Load Capacity	3 kg
Dimensions (mm)	147 ϕ x 59 (height)
Weight	0.45 kg

Wall/ceiling mount bracket indoor/outdoor NVB-4005JB



DIMENSIONS



Type	wall/ceiling mount adapter with cable gland, indoor/outdoor
Application	selected 4000 and 6000 IP series models of camera (detailed list of compatible cameras and other products can be found on the website in the file in the "Downloads" tab)
Material	aluminium
Color	white
Load Capacity	3 kg
Dimensions (mm)	134 φ x 59 (height)
Weight	0.42 kg

Wall/ceiling mount bracket indoor/outdoor NVB-4010JB



DIMENSIONS



Type	wall/ceiling mount adapter with cable gland, indoor/outdoor
Application	Selected 2000, 3000, 4000 and 6000 series models of camera (detailed list of compatible cameras and other products can be found on the website in the file in the "Downloads" tab)
Material	aluminium
Color	white
Load Capacity	3 kg
Dimensions (mm)	100 ϕ x 60 (height)
Weight	0.34 kg

wall/ceiling mount bracket, indoor/outdoor

NVB-4015JB



DIMENSIONS



Type	wall/ceiling mount adapter with cable gland, indoor/outdoor
Application	2000 and 4000 series IP cameras and also 3000 series AHD cameras (detailed compatibility list available as a file to download in section "Downloadable Files")
Material	glass fiber reinforced polyamide
Color	white
Degree of Protection	IP 66
Dimensions (mm)	140 (W) x 149 (H) x 67 (D)
Weight	0.5 kg

Wall mount bracket, indoor/outdoor

NVB-4000WB



DIMENSIONS



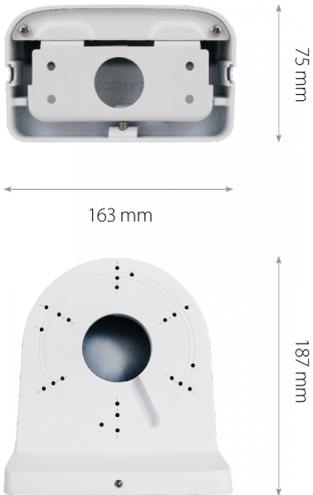
Type	wall mount cable-managed bracket, indoor/outdoor
Application	a detailed list of compatible cameras and other products can be found in the file available in the "Downloadable Files" section
Material	aluminium
Color	white
Load Capacity	2 kg
Dimensions (mm)	132 (W) x 75 (H) x 155 (D)
Weight	0.52 kg

Wall mount bracket, indoor/outdoor

NVB-4010WB



DIMENSIONS



Type	wall mount cable-managed bracket, indoor/outdoor
Application	a detailed list of compatible cameras and other products can be found in the file available in the "Downloadable Files" section
Material	aluminium
Color	white
Load Capacity	2 kg
Dimensions (mm)	163 (W) x 75 (H) x 187 (D)
Weight	0.83 kg

Wall mount bracket, indoor/outdoor

NVB-4020WB



DIMENSIONS



Type	wall mount cable-managed bracket, indoor/outdoor
Application	for mounting the NVS-4020JBD adapter on the wall (accessory kit: NVB-4020WB and NVB-4020C)
Material	aluminium
Color	white
Load Capacity	10 kg
Dimensions (mm)	95 (W) x 180 (H) x 310 (L)
Weight	1.1 kg

Wall mount bracket, indoor/outdoor
NVB-4020C

**DIMENSIONS**

Type	adapter-plate, indoor/outdoor
Application	for mounting the NVS-4020JBD adapter on the wall (accessory kit: NVB-4020WB and NVB-4020C)
Material	glass fiber reinforced polyamide
Color	white
Load Capacity	10 kg
Dimensions (mm)	160 (W) x 55 (H) x 315 (L)
Weight	0.47 kg

Wall/ceiling adapter with built-in PoE switch NVS-4020JBD



KEY FEATURES

- 2 x 100Mb/s PoE
- 1 x 100Mb/s UPLINK

DIMENSIONS



GENERAL

Managed	no
Device Type	PoE Switch

NETWORK

Ports	PoE Ports: 2 x 10Mb/s / 100Mb/s • UPLINK ports: 1 x 10Mb/s / 100Mb/s
PoE standards	IEEE802.3 af, IEEE802.3 at
Surge protection	Maximum voltage: 4kV
Switching capacity	1 Gb/s

FUNCTIONS

Surge protection	yes
------------------	-----

INSTALLATION PARAMETERS

Case	Glass fiber reinforced polyamide, color white
Dimensions (mm)	310 (W) x 70 (H) x 156 (L)
Weight	1.2 g
Degree of Protection	IP 66 (details in the user's manual)
Input Voltage	PoE+
Power Consumption	30 W (maximum)
PoE Budget	25 W for ports 1 to 2, up to 15 W for one port
Operating Temperature	-30°C ~ 60°C
Humidity	max. 90%, relative (non-condensing)

02

IP RECORDERS 4000 SERIES

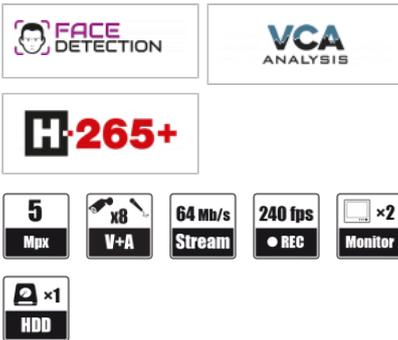


IP Recorder NVR-4108-H1

4000 VSS IP



KEY FEATURES



- Video and audio channels: 8
- Supported protocols: ONVIF
- Recording speed up to 240 fps at 2592 x 1944
- Recorded stream size: 64 Mb/s in total from all cameras
- Internal HDDs mount: 1
- Monitor outputs: 2 (HDMI, VGA)
- Intelligent image analysis

DIMENSIONS



VIDEO

IP Cameras	up to 8 channels at 2592 x 1944 resolution (video + audio)
Maximum Supported Camera Resolution	2592 x 1944
Compression	H.264, H.264+, H.265, H.265+
Monitor Output	main (split screen, full screen, sequence): 1 x HDMI, 1 x VGA (up to 2 monitors simultaneously)
Dualstreaming Support	yes

AUDIO

Audio Input/Output - / 1 x HDMI, 1 x line-out (RCA)

RECORDING

Recording Speed	240 fps (8 x 30 fps for 2592 x 1944)
Stream Size	64 Mb/s in total from all cameras
Recording Mode	time-lapse, triggered by: manual, alarm input, motion detection, intelligent image analysis functions, PIR alarm
Prealarm/Postalarm	up to 3 s/up to 600 s

DISPLAY

Display Speed 240 fps (8 x 30 fps)

PLAYBACK

Playback Speed	240 fps (8 x 30 fps)
Recorded Data Search	by date/time, events, image analysis events, motion in a defined area, tags

BACKUP

Backup Methods	USB port (HDD or Flash memory), network
Backup File Format	JPG, BMP, PNG, MP4, AVI, RF

STORAGE

Internal Storage	available mount: 1 x HDD 3.5" 8 TB SATA
Total Internal Capacity	8 TB

ALARM

Camera Alarm Input/Output	supports camera's alarm input/output
System Reaction to Alarm Events	buzzer, e-mail, alarm output activation, screen message, recording activation, PTZ, Full Screen, FTP picture upload, FTP video upload, picture to Cloud, video to Cloud

INTELLIGENT IMAGE ANALYSIS

Supported Functions	Exception, Tripwire, Zone entrance, Abandoned Object, Object Disappearance, Face Detection, Pedestrian Detection, Cross Counting, Sound detection
---------------------	---

NETWORK

Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Network Protocols Support	HTTP, TCP/IP, IPv4, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, UPnP, SNMP, SMTP, P2P
PC/MAC Software	NMS, Internet Explorer, NHDR-5000 Viewer/NHDR-5000 Viewer
Mobile applications	RxCamView (iPhone, Android)
Number of Simultaneous Connections	up to 40 clients
Bandwidth	48 Mb/s in total to all client workstations

PTZ

PTZ Functions	pan/tilt/zoom, preset commands, patterns
---------------	--

AUXILIARY INTERFACES

USB Ports	2 x USB 2.0
-----------	-------------

OPERATING SYSTEM

Operating System	Linux
OSD	languages: Polish, English, others
Control	PC mouse and IR remote controller (in-set included), network
System Diagnostic	automatic control of: HDDs, network, camera connection loss
Security	password protection, IP filtering

INSTALLATION PARAMETERS

Dimensions (mm)	300 (W) x 53 (H) x 227 (D)
Weight	1.1 kg (without HDD)
Power Supply	12 VDC (100 ~ 240 VAC/12 VDC PSU in-set included)
Power Consumption	20 W (with 1 HDD)
Operating Temperature	-10°C ~ 55°C

Intelligent image analysis, dualstream mode, PTZ control, motion detection and alarm inputs / outputs functions depends on the functionality of the camera and the capabilities of the communication protocol. The recorder is dedicated to work with Novus 2000 and 4000 series IP cameras and achieves the best functionality with them. Detailed data on camera compatibility with recorders and compatible hard drives can be found in the compatibility tables available in the DOWNLOADABLE FILES tab. Display and playback speeds are achieved using dual stream.

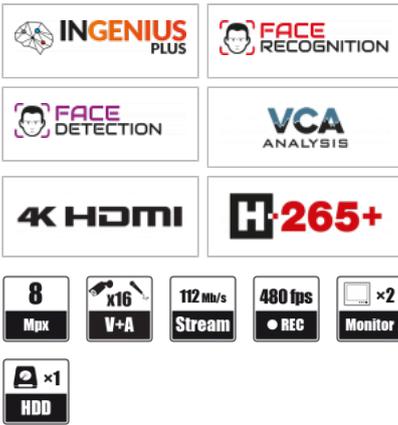
IP Recorder

NVR-4116-H1/F-II

4000 VSS IP



KEY FEATURES



- Video and audio channels: 16
- Supported protocols: ONVIF
- Recording speed up to 480 fps at 3840 x 2160
- Recorded stream size: 112 Mb/s in total from all cameras
- Internal HDDs mount: 1
- Monitor outputs: 2 (HDMI (4K UltraHD), VGA)
- Face recognition

DIMENSIONS



VIDEO

IP Cameras	up to 16 channels at 3840 x 2160 resolution (video + audio)
Maximum Supported Camera Resolution	3840 x 2160 • 3000 x 3000 for fisheye cameras
Compression	H.264, H.264+, H.265, H.265+
Monitor Output	main (split screen, full screen, sequence): 1 x VGA, 1 x HDMI (4K UltraHD) (up to 2 monitors simultaneously)
Dualstreaming Support	yes
Fisheye Support	using Internet Explorer, RXCamView, NHDR-5000Viewer, N Control 4000

AUDIO

Audio Input/Output - / 1 x HDMI, 1 x line-out (RCA)

RECORDING

Recording Speed	480 fps (16 x 30 fps for 3840 x 2160 and lower)
Stream Size	112 Mb/s in total from all cameras
Recording Mode	time-lapse, triggered by: manual, alarm input, motion detection, face recognition, intelligent image analysis functions, PIR alarm
Prealarm/Postalarm	up to 3 s/up to 600 s

DISPLAY

Display Speed 480 fps (16 x 30 fps)

PLAYBACK

Playback Speed	480 fps (16 x 30 fps)
Recorded Data Search	by date/time, events, image analysis events, motion in a defined area, related to face recognition, tags

BACKUP

Backup Methods	USB port (HDD or Flash memory), network
Backup File Format	JPG, BMP, PNG, MP4, AVI, RF

STORAGE

Internal Storage	available mount: 1 x HDD 3.5" 8 TB SATA
Total Internal Capacity	8 TB
External storage	network HDD (NFS or SMB/CIFS)
Total External Capacity	64 TB

ALARM

Camera Alarm Input/Output supports IP camera's alarm input/output

IP Recorder

NVR-4116-H1/F-II

System Reaction to Alarm Events buzzer, e-mail, alarm output activation, screen message, recording activation, PTZ, Full Screen, FTP picture upload, FTP video upload, picture to Cloud, video to Cloud, voice prompt

INTELLIGENT IMAGE ANALYSIS

Supported Functions Exception, Tripwire, Zone entrance, Abandoned Object, Object Disappearance, Crowd detection, Face Detection, Face Recognition (in cooperation with selected 4000 series cameras), Pedestrian Detection, Cross Counting, Sound detection, Perimeter Intrusion Detection by pedestrian or vehicle, Line Cross Detection by pedestrian or vehicle, Objects Distinguishing, Queue Length Detection, Heat Map, Cross Counting by pedestrian or vehicle

NETWORK

Network Interface	1 x Ethernet - RJ-45 interface, 10/100/1000 Mbit/s
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, UPnP, SNMP, PPPoE, SMTP, P2P, HTML5
PC/MAC Software	NMS, Internet Explorer, NHDR-5000 Viewer, Firefox, Chrome, Opera, Edge, N Control 4000/Safari, NHDR-5000 Viewer
Mobile applications	RxCamView (iPhone, Android)
Number of Simultaneous Connections	up to 32 users, each user up to 5 devices
Bandwidth	96 Mb/s in total to all client workstations

PTZ

PTZ Functions pan/tilt/zoom, preset commands, patterns

AUXILIARY INTERFACES

USB Ports 2 x USB 2.0

OPERATING SYSTEM

Operating System	Linux
OSD	languages: Polish, English, others
Control	PC mouse and IR remote controller (in-set included), network
System Diagnostic	automatic control of: HDDs, network, camera connection loss
Security	password protection, IP filtering

INSTALLATION PARAMETERS

Dimensions (mm)	300 (W) x 53 (H) x 227 (D)
Weight	1.1 kg (without HDD)
Power Supply	12 VDC (100 ~ 240 VAC/12 VDC PSU in-set included)
Power Consumption	20 W (with 1 HDD)
Operating Temperature	-10°C ~ 45°C

In order to take full advantage of the recorder capabilities it is recommended to use NOVUS IP 4000 series cameras.

The availability of individual functions (including face recognition) depends on the model of cameras used as well as the software version of the recorder and cameras.

In order to create face recognition system please deploy 4000 series cameras with "F" in the model name only.

Detailed data on camera compatibility with recorders and compatible hard drives can be found in the compatibility tables available in the DOWNLOADABLE FILES tab.

Display and playback speeds are achieved using dual stream.

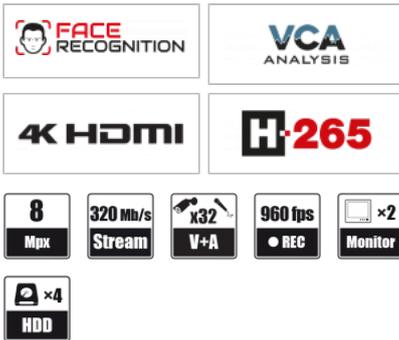
IP Recorder

NVR-4532-H4/F

4000 VSS IP

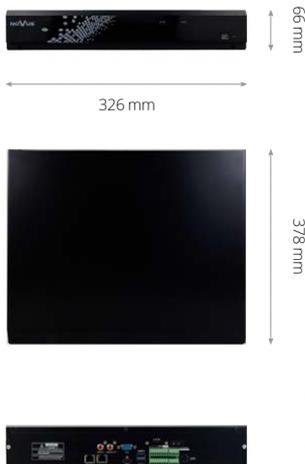


KEY FEATURES



- Video and audio channels: 32
- Supported protocols: ONVIF
- Recording speed up to 960 fps at 3840 x 2160
- Recorded stream size: 320 Mb/s in total from all cameras
- Internal HDDs mount: 4
- Monitor outputs: 2 (HDMI (4K UltraHD), VGA)
- Face recognition

DIMENSIONS



VIDEO

IP Cameras	up to 32 channels at 3840 x 2160 resolution (video + audio)
Maximum Supported Camera Resolution	3840 x 2160 • 3000 x 3000 for fisheye cameras
Compression	H.264, H.264+, H.265, H.265+
Monitor Output	main (split screen, full screen, sequence): 1 x VGA, 1 x HDMI (4K UltraHD) (up to 2 monitors simultaneously) • spot: 1 x VGA (FullHD)
Dualstreaming Support	yes
Fisheye Support	yes, 2000/4000 IP series cameras

AUDIO

Audio Input/Output	1 x line-in (RCA) / 1 x HDMI, 1 x line-out (RCA)
--------------------	--

RECORDING

Recording Speed	960 fps (32 x 30 fps for 3840 x 2160 and lower)
Stream Size	320 Mb/s in total from all cameras
Recording Mode	time-lapse, triggered by: manual, alarm input, motion detection, face recognition, intelligent image analysis functions, PIR alarm
Prealarm/Postalarm	up to 3 s/up to 600 s

DISPLAY

Display Speed	960 fps (32 x 30 fps)
---------------	-----------------------

PLAYBACK

Playback Speed	480 fps (16 x 30 fps)
Recorded Data Search	by date/time, events, image analysis events, motion in a defined area, related to face recognition, tags

BACKUP

Backup Methods	USB port (HDD or Flash memory), network
Backup File Format	JPG, BMP, PNG, MP4, AVI, RF

STORAGE

Internal Storage	available mount: 4 x HDD 3.5" 14 TB SATA
Total Internal Capacity	56 TB
External storage	1 x eSATA
Total External Capacity	32 TB

ALARM

Internal Alarm Input/Output	16/1 relay type
Camera Alarm Input/Output	supports camera's alarm input/output

System Reaction to Alarm Events buzzer, e-mail, alarm output activation, screen message, recording activation, PTZ, Full Screen, FTP picture upload, FTP video upload, picture to Cloud, video to Cloud

INTELLIGENT IMAGE ANALYSIS

Supported Functions Exception, Tripwire, Zone entrance, Abandoned Object, Object Disappearance, Face Detection, Pedestrian Detection, Cross Counting, Face Recognition, Sound detection, Perimeter Intrusion Detection by pedestrian or vehicle, Line Cross Detection by pedestrian or vehicle

NETWORK

Network Interface 2 x Ethernet - RJ-45 interface, 10/100/1000 Mbit/s

Network Protocols Support HTTP, TCP/IP, IPv4/v6, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, UPnP, SNMP, PPPoE, SMTP, P2P

PC/MAC Software NMS, Internet Explorer, NHDR-5000 Viewer/NHDR-5000 Viewer

Mobile applications RxCamView (iPhone, Android)

Number of Simultaneous Connections up to 96 clients

Bandwidth 320 Mb/s in total to all client workstations

PTZ

PTZ Functions pan/tilt/zoom, preset commands, patterns

AUXILIARY INTERFACES

USB Ports 1 x USB 3.0 2 x USB 2.0

OPERATING SYSTEM

Operating System Linux

OSD languages: Polish, English, others

Control PC mouse and IR remote controller (in-set included), network

System Diagnostic automatic control of: HDDs, network, camera connection loss

Security password protection, IP filtering

INSTALLATION PARAMETERS

Dimensions (mm) 378 (W) x 66 (H) x 326 (D)

Weight 2.5 kg (without HDDs)

Power Supply 12 VDC (100 ~ 240 VAC/12 VDC PSU in-set included)

Power Consumption 60 W (with 4 HDDs)

Operating Temperature -10°C ~ 45°C

Intelligent image analysis, dualstream mode, PTZ control, motion detection and alarm inputs / outputs functions depends on the functionality of the camera and the capabilities of the communication protocol. The recorder is dedicated to work with Novus 2000 and 4000 series IP cameras and achieves the best functionality with them. Detailed data on camera compatibility with recorders and compatible hard drives can be found in the compatibility tables available in the DOWNLOADABLE FILES tab. Display and playback speeds are achieved using dual stream. One of the functions: SPOT monitor, Face Recognition can be switched on at the same time.

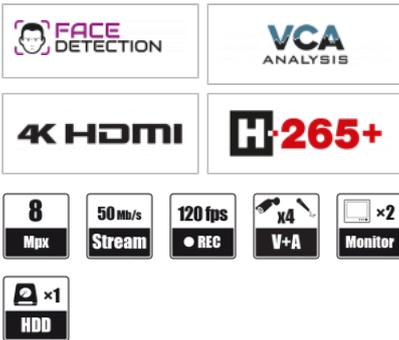
IP Recorder

NVR-4204P4-H1/F



4000 VSS IP

KEY FEATURES



- 4 x Ethernet PoE - RJ-45 interface, 10/100 Mbit/s
- Video and audio channels: 4
- Supported protocols: ONVIF
- Recording speed up to 120 fps at 3840 x 2160
- Recorded stream size: 50 Mb/s in total from all cameras
- Internal HDDs mount: 1
- Monitor outputs: 2 (HDMI (4K UltraHD), VGA)
- Intelligent image analysis

DIMENSIONS



VIDEO

IP Cameras	up to 4 channels at 3840 x 2160 resolution (video + audio)
Maximum Supported Camera Resolution	3840 x 2160
Compression	H.264, H.264+, H.265, H.265+
Monitor Output	main (split screen, full screen, sequence): 1 x VGA, 1 x HDMI (4K UltraHD) (up to 2 monitors simultaneously)
Dualstreaming Support	yes

AUDIO

Audio Input/Output	- / 1 x HDMI, 1 x line-out (RCA)
--------------------	----------------------------------

RECORDING

Recording Speed	120 fps (4 x 30 fps for 3840 x 2160 and lower)
Stream Size	50 Mb/s in total from all cameras
Recording Mode	time-lapse, triggered by: manual, alarm input, motion detection, perimeter intrusion detection, intelligent image analysis functions, PIR alarm
Prealarm/Postalarm	up to 3 s/up to 600 s

DISPLAY

Display Speed	120 fps (4 x 30 fps)
---------------	----------------------

PLAYBACK

Playback Speed	120 fps (4 x 30 fps)
Recorded Data Search	by date/time, events, object appearance/disappearance, image analysis events, motion in a defined area, tags

BACKUP

Backup Methods	USB port (HDD or Flash memory), network
Backup File Format	JPG, BMP, PNG, MP4, AVI, RF

STORAGE

Internal Storage	available mount: 1 x HDD 3.5" 14 TB SATA
Total Internal Capacity	14 TB

ALARM

Camera Alarm Input/Output	supports camera's alarm input/output
System Reaction to Alarm Events	buzzer, e-mail, alarm output activation, screen message, recording activation, PTZ, Full Screen, FTP picture upload, FTP video upload, picture to Cloud, video to Cloud

INTELLIGENT IMAGE ANALYSIS

IP Recorder

NVR-4204P4-H1/F

Supported Functions	Exception, Tripwire, Zone entrance, Abandoned Object, Object Disappearance, Face Detection, Pedestrian Detection, Cross Counting, Sound detection, Perimeter Intrusion Detection by pedestrian or vehicle, Line Cross Detection by pedestrian or vehicle
---------------------	--

NETWORK

Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s • 4 x Ethernet PoE - RJ-45 interface, 10/100 Mbit/s with Extended mode
Network Protocols Support	HTTP, TCP/IP, IPv4, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, UPnP, SNMP, PPPoE, SMTP, P2P
PC/MAC Software	NMS, Internet Explorer, NHDR-5000 Viewer/NHDR-5000 Viewer
Mobile applications	RxCamView (iPhone, Android)
Number of Simultaneous Connections	up to 40 clients
Bandwidth	50 Mb/s in total to all client workstations

PTZ

PTZ Functions	pan/tilt/zoom, preset commands, patterns
---------------	--

AUXILIARY INTERFACES

USB Ports	2 x USB 2.0
-----------	-------------

OPERATING SYSTEM

Operating System	Linux
OSD	languages: Polish, English, others
Control	PC mouse and IR remote controller (in-set included), network
System Diagnostic	automatic control of: HDDs, network, camera connection loss
Security	password protection, IP filtering

INSTALLATION PARAMETERS

Dimensions (mm)	300 (W) x 53 (H) x 227 (D)
Weight	1.1 kg (without HDD)
Power Supply	48 VDC (100 ~ 240 VAC/48 VDC PSU in-set included)
Power Consumption	20 W (with 1 HDD) + 57 W PoE
Operating Temperature	-10°C ~ 45°C

Intelligent image analysis, dualstream mode, PTZ control, motion detection and alarm inputs / outputs functions depends on the functionality of the camera and the capabilities of the communication protocol. The recorder is dedicated to work with Novus 2000 and 4000 series IP cameras and achieves the best functionality with them. Detailed data on camera compatibility with recorders and compatible hard drives can be found in the compatibility tables available in the DOWNLOADABLE FILES tab. Display and playback speeds are achieved using dual stream.

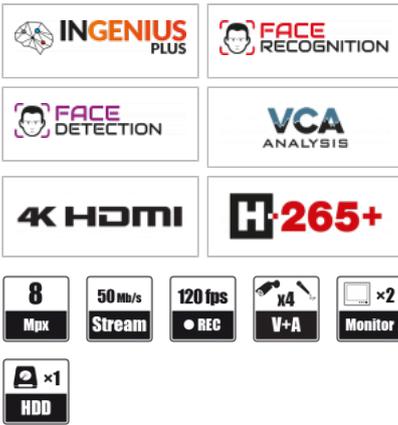
IP Recorder

NVR-4204P4-H1/F-II

4000 VSS IP

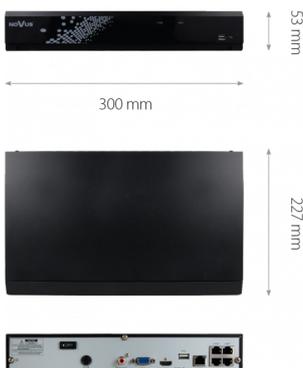


KEY FEATURES



- 4 x Ethernet PoE - RJ-45 interface, 10/100 Mbit/s
- Video and audio channels: 4
- Supported protocols: ONVIF
- Recording speed up to 120 fps at 3840 x 2160
- Recorded stream size: 50 Mb/s in total from all cameras
- Internal HDDs mount: 1
- Monitor outputs: 2 (HDMI (4K UltraHD), VGA)
- Face recognition

DIMENSIONS



VIDEO

IP Cameras	up to 4 channels at 3840 x 2160 resolution (video + audio)
Maximum Supported Camera Resolution	3840 x 2160 • 3000 x 3000 for fisheye cameras
Compression	H.264, H.264+, H.265, H.265+
Monitor Output	main (split screen, full screen, sequence): 1 x VGA, 1 x HDMI (4K UltraHD) (up to 2 monitors simultaneously)
Dualstreaming Support	yes
Fisheye Support	using Internet Explorer, RXCamView, NHDR-5000Viewer, N Control 4000

AUDIO

Audio Input/Output - / 1 x HDMI, 1 x line-out (RCA)

RECORDING

Recording Speed	120 fps (4 x 30 fps for 3840 x 2160 and lower)
Stream Size	50 Mb/s in total from all cameras
Recording Mode	time-lapse, triggered by: manual, alarm input, motion detection, face recognition, intelligent image analysis functions, PIR alarm
Prealarm/Postalarm	up to 3 s/up to 600 s

DISPLAY

Display Speed 120 fps (4 x 30 fps)

PLAYBACK

Playback Speed	120 fps (4 x 30 fps)
Recorded Data Search	by date/time, events, image analysis events, motion in a defined area, related to face recognition, tags

BACKUP

Backup Methods	USB port (HDD or Flash memory), network
Backup File Format	JPG, BMP, PNG, MP4, AVI, RF

STORAGE

Internal Storage	available mount: 1 x HDD 3.5" 8 TB SATA
Total Internal Capacity	8 TB
External storage	network HDD (NFS or SMB/CIFS)
Total External Capacity	64 TB

ALARM

Camera Alarm Input/Output	supports IP camera's alarm input/output
---------------------------	---

IP Recorder

NVR-4204P4-H1/F-II

System Reaction to Alarm Events buzzer, e-mail, alarm output activation, screen message, recording activation, PTZ, Full Screen, FTP picture upload, FTP video upload, picture to Cloud, video to Cloud, voice prompt

INTELLIGENT IMAGE ANALYSIS

Supported Functions Exception, Tripwire, Zone entrance, Abandoned Object, Object Disappearance, Crowd detection, Face Detection, Face Recognition (in cooperation with selected 4000 series cameras), Pedestrian Detection, Cross Counting, Sound detection, Perimeter Intrusion Detection by pedestrian or vehicle, Line Cross Detection by pedestrian or vehicle, Objects Distinguishing, Queue Length Detection, Heat Map, Cross Counting by pedestrian or vehicle

NETWORK

Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s • 4 x Ethernet PoE - RJ-45 interface, 10/100 Mbit/s with Extended mode
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, UPnP, SNMP, PPPoE, SMTP, P2P, HTML5
PC/MAC Software	NMS, Internet Explorer, NHDR-5000 Viewer, Firefox, Chrome, Opera, Edge, N Control 4000/Safari, NHDR-5000 Viewer
Mobile applications	RxCamView (iPhone, Android)
Number of Simultaneous Connections	up to 32 users, each user up to 5 devices
Bandwidth	48 Mb/s in total to all client workstations

PTZ

PTZ Functions pan/tilt/zoom, preset commands, patterns

AUXILIARY INTERFACES

USB Ports 2 x USB 2.0

OPERATING SYSTEM

Operating System	Linux
OSD	languages: Polish, English, others
Control	PC mouse and IR remote controller (in-set included), network
System Diagnostic	automatic control of: HDDs, network, camera connection loss
Security	password protection, IP filtering

INSTALLATION PARAMETERS

Dimensions (mm)	300 (W) x 53 (H) x 227 (D)
Weight	1.1 kg (without HDD)
Power Supply	48 VDC (100 ~ 240 VAC/48 VDC PSU in-set included)
Power Consumption	20 W (with 1 HDD) + 45 W PoE
Operating Temperature	-10°C ~ 45°C

In order to take full advantage of the recorder capabilities it is recommended to use NOVUS IP 4000 series cameras.

The availability of individual functions (including face recognition) depends on the model of cameras used as well as the software version of the recorder and cameras.

In order to create face recognition system please deploy 4000 series cameras with "F" in the model name only.

Detailed data on camera compatibility with recorders and compatible hard drives can be found in the compatibility tables available in the DOWNLOADABLE FILES tab.

Display and playback speeds are achieved using dual stream.

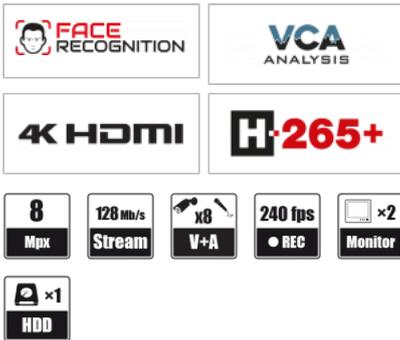
IP Recorder

NVR-4408P8-H1/F-II

4000 VSS IP



KEY FEATURES



- 8 x Ethernet PoE - RJ-45 interface, 10/100 Mbit/s
- Video and audio channels: 8
- Supported protocols: ONVIF
- Recording speed up to 240 fps at 3840 x 2160
- Recorded stream size: 128 Mb/s in total from all cameras
- Internal HDDs mount: 1
- Monitor outputs: 2 (HDMI (4K UltraHD), VGA)
- Face recognition

DIMENSIONS



VIDEO

IP Cameras	up to 8 channels at 3840 x 2160 resolution (video + audio)
Maximum Supported Camera Resolution	3840 x 2160 • 3000 x 3000 for fisheye cameras
Compression	H.264, H.264+, H.265, H.265+
Monitor Output	main (split screen, full screen, sequence): 1 x VGA, 1 x HDMI (4K UltraHD) (up to 2 monitors simultaneously)
Dualstreaming Support	yes

AUDIO

Audio Input/Output	- / 1 x HDMI, 1 x line-out (RCA)
--------------------	----------------------------------

RECORDING

Recording Speed	240 fps (8 x 30 fps for 3840 x 2160 and lower)
Stream Size	128 Mb/s in total from all cameras
Recording Mode	time-lapse, triggered by: manual, alarm input, motion detection, intelligent image analysis functions, PIR alarm
Prealarm/Postalarm	up to 3 s/up to 600 s

DISPLAY

Display Speed	240 fps (8 x 30 fps)
---------------	----------------------

PLAYBACK

Playback Speed	240 fps (8 x 30 fps)
Recorded Data Search	by date/time, events, image analysis events, motion in a defined area, related to face recognition, tags

BACKUP

Backup Methods	USB port (HDD or Flash memory), network
Backup File Format	JPG, BMP, PNG, MP4, AVI, RF

STORAGE

Internal Storage	available mount: 1 x HDD 3.5" 10 TB SATA
Total Internal Capacity	10 TB

ALARM

Camera Alarm Input/Output	supports camera's alarm input/output
System Reaction to Alarm Events	buzzer, e-mail, screen message, recording activation, PTZ, Full Screen, FTP picture upload, FTP video upload, picture to Cloud, video to Cloud

INTELLIGENT IMAGE ANALYSIS

IP Recorder

NVR-4408P8-H1/F-II

Supported Functions	Exception, Tripwire, Zone entrance, Abandoned Object, Object Disappearance, Crowd detection, Face Detection, Pedestrian Detection, Cross Counting, Face Recognition, People Counting, Sound detection, Perimeter Intrusion Detection by pedestrian or vehicle, Line Cross Detection by pedestrian or vehicle, Objects Distinguishing, Queue Length Detection, Heat Map
---------------------	--

NETWORK

Network Interface	1 x Ethernet - RJ-45 interface, 10/100/1000 Mbit/s • 8 x Ethernet PoE - RJ-45 interface, 10/100 Mbit/s with Extended mode
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, UPnP, SNMP, SMTP, P2P, HTML5
PC/MAC Software	NMS, Internet Explorer, NHDR-5000 Viewer, Firefox, Chrome, Opera, Edge/Safari, NHDR-5000 Viewer
Mobile applications	RxCamView (iPhone, Android)
Number of Simultaneous Connections	up to 40 clients
Bandwidth	128 Mb/s in total to all client workstations

PTZ

PTZ Functions	pan/tilt/zoom, preset commands, patterns
---------------	--

AUXILIARY INTERFACES

USB Ports	2 x USB 2.0
-----------	-------------

OPERATING SYSTEM

Operating System	Linux
OSD	languages: Polish, English, others
Control	PC mouse and IR remote controller (in-set included), network
System Diagnostic	automatic control of: HDDs, network, camera connection loss
Security	password protection, IP filtering

INSTALLATION PARAMETERS

Dimensions (mm)	300 (W) x 53 (H) x 227 (D)
Weight	1.1 kg (without HDD)
Power Supply	48 VDC (100 ~ 240 VAC/48 VDC PSU in-set included)
Power Consumption	20 W (with 1 HDD) + 59 W PoE
Operating Temperature	-10°C ~ 45°C

Intelligent image analysis, dualstream mode, PTZ control, motion detection and alarm inputs / outputs functions depends on the functionality of the camera and the capabilities of the communication protocol. The recorder is dedicated to work with Novus 2000 and 4000 series IP cameras and achieves the best functionality with them. Detailed data on camera compatibility with recorders and compatible hard drives can be found in the compatibility tables available in the DOWNLOADABLE FILES tab. Display and playback speeds are achieved using dual stream.

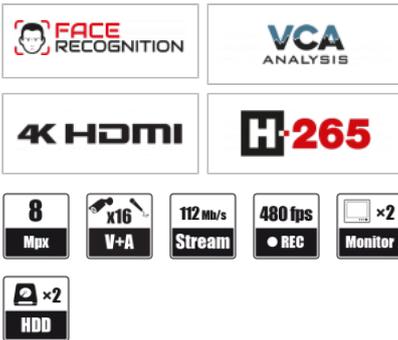
IP Recorder

NVR-4416P16-H2/F-II

4000 VSS IP

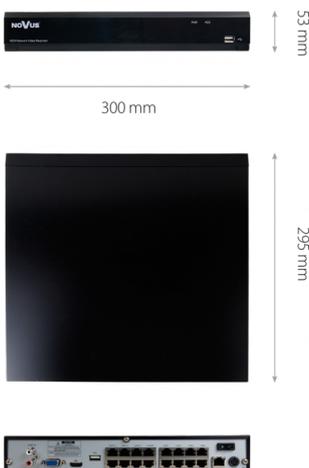


KEY FEATURES



- 16 x Ethernet PoE - RJ-45 interface, 10/100 Mbit/s
- Video and audio channels: 16
- Supported protocols: ONVIF
- Recording speed up to 480 fps at 3840 x 2160
- Recorded stream size: 112 Mb/s in total from all cameras
- Internal HDDs mount: 2
- Monitor outputs: 2 (HDMI (4K UltraHD), VGA)
- Face recognition

DIMENSIONS



VIDEO

IP Cameras	up to 16 channels at 3840 x 2160 resolution (video + audio)
Maximum Supported Camera Resolution	3840 x 2160 • 3000 x 3000 for fisheye cameras
Compression	H.264, H.264+, H.265, H.265+
Monitor Output	main (split screen, full screen, sequence): 1 x VGA, 1 x HDMI (4K UltraHD) (up to 2 monitors simultaneously)
Dualstreaming Support	yes

AUDIO

Audio Input/Output	1 x line-in (RCA) / 1 x HDMI, 1 x line-out (RCA)
--------------------	--

RECORDING

Recording Speed	480 fps (16 x 30 fps for 3840 x 2160 and lower)
Stream Size	112 Mb/s in total from all cameras
Recording Mode	time-lapse, triggered by: manual, alarm input, motion detection, intelligent image analysis functions, PIR alarm
Prealarm/Postalarm	up to 3 s/up to 600 s

DISPLAY

Display Speed	480 fps (16 x 30 fps)
---------------	-----------------------

PLAYBACK

Playback Speed	480 fps (16 x 30 fps)
Recorded Data Search	by date/time, events, image analysis events, motion in a defined area, related to face recognition, tags

BACKUP

Backup Methods	USB port (HDD or Flash memory), network
Backup File Format	JPG, BMP, PNG, MP4, AVI, RF

STORAGE

Internal Storage	available mount: 2 x HDD 3.5" 8 TB SATA
Total Internal Capacity	16 TB

ALARM

Camera Alarm Input/Output	supports IP camera's alarm input/output
System Reaction to Alarm Events	buzzer, e-mail, screen message, recording activation, PTZ, Full Screen, FTP picture upload, FTP video upload, picture to Cloud, video to Cloud

INTELLIGENT IMAGE ANALYSIS

IP Recorder NVR-4416P16-H2/F-II

Supported Functions	Exception, Tripwire, Zone entrance, Abandoned Object, Object Disappearance, Crowd detection, Face Detection, Pedestrian Detection, Cross Counting, Face Recognition, People Counting, Sound detection, Perimeter Intrusion Detection by pedestrian or vehicle, Line Cross Detection by pedestrian or vehicle, Objects Distinguishing, Queue Length Detection, Heat Map
---------------------	--

NETWORK

Network Interface	1 x Ethernet - RJ-45 interface, 10/100/1000 Mbit/s • 16 x Ethernet PoE - RJ-45 interface, 10/100 Mbit/s with Extended mode
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, UPnP, SNMP, PPPoE, SMTP, P2P, HTML5
PC/MAC Software	NMS, Internet Explorer, NHDR-5000 Viewer, Firefox, Chrome, Opera, Edge/Safari, NHDR-5000 Viewer
Mobile applications	RxCamView (iPhone, Android)
Number of Simultaneous Connections	up to 40 clients
Bandwidth	112 Mb/s in total to all client workstations

PTZ

PTZ Functions	pan/tilt/zoom, preset commands, patterns
---------------	--

AUXILIARY INTERFACES

USB Ports	2 x USB 2.0,
-----------	--------------

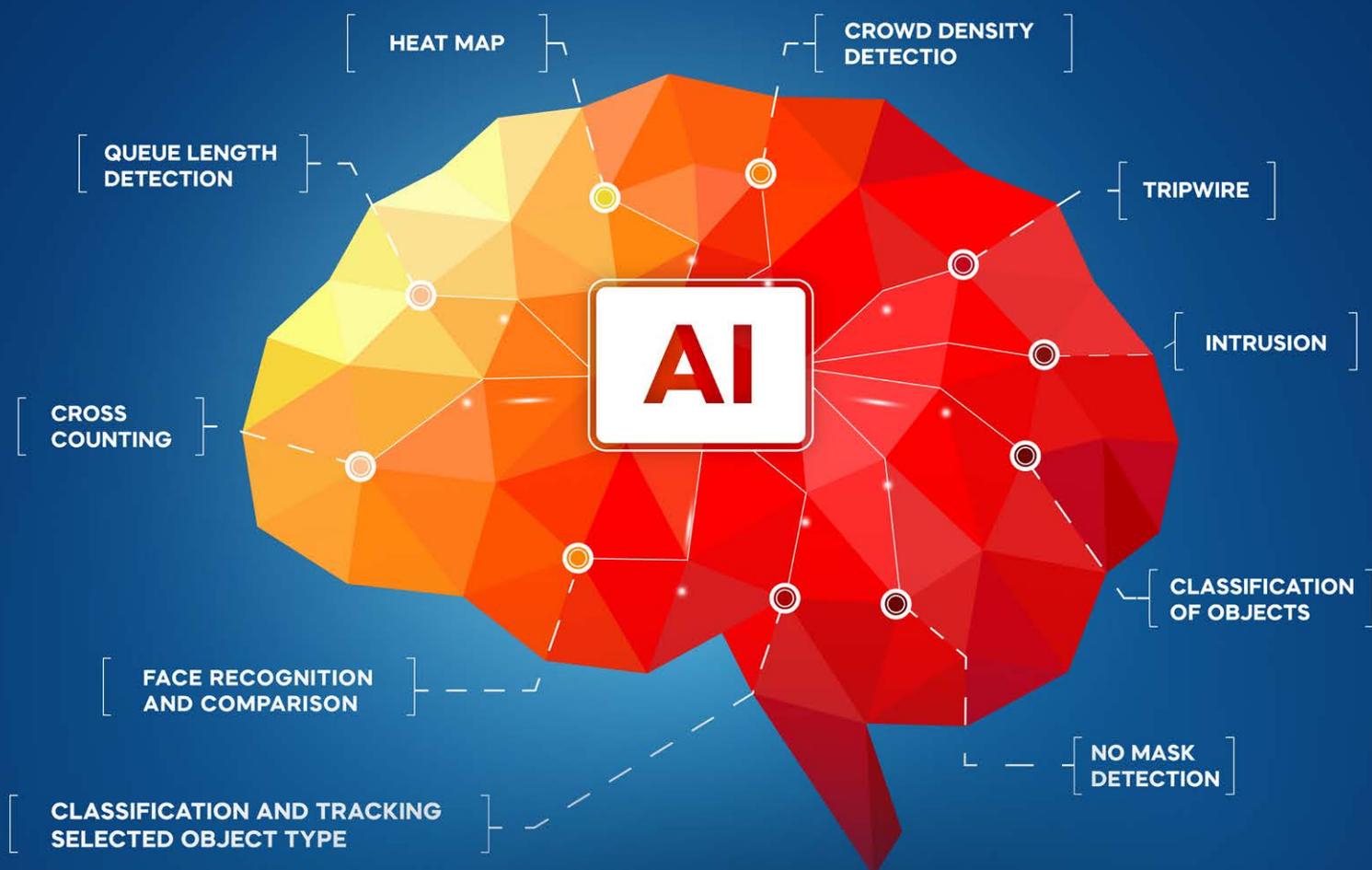
OPERATING SYSTEM

Operating System	Linux
OSD	languages: Polish, English, others
Control	PC mouse and IR remote controller (in-set included), network
System Diagnostic	automatic control of: HDDs, network, camera connection loss
Security	password protection, IP filtering

INSTALLATION PARAMETERS

Dimensions (mm)	300 (W) x 53 (H) x 297 (D)
Weight	1.5 kg (without HDDs)
Power Supply	48 VDC (100 ~ 240 VAC/48 VDC PSU in-set included)
Power Consumption	30 W (with 2 HDDs) + 156 W PoE
Operating Temperature	-10°C ~ 45°C

Intelligent image analysis, dualstream mode, PTZ control, motion detection and alarm inputs / outputs functions depends on the functionality of the camera and the capabilities of the communication protocol. The recorder is dedicated to work with Novus 2000 and 4000 series IP cameras and achieves the best functionality with them. Detailed data on camera compatibility with recorders and compatible hard drives can be found in the compatibility tables available in the DOWNLOADABLE FILES tab. Display and playback speeds are achieved using dual stream. Face recognition and HTML5 functionality available from the firmware V8.1.0-20210930.



AI INTELLIGENT IMAGE ANALYSIS IN NOVUS CAMERAS

03

IP CAMERAS 6000 SERIES



AAT SYSTEMY BEZPIECZEŃSTWA sp. z o.o.
431 Pulawska St, 02-801 Warsaw, Poland, phone +48 22 546 05 46, fax +48 22 546 05 01
www.aat.pl

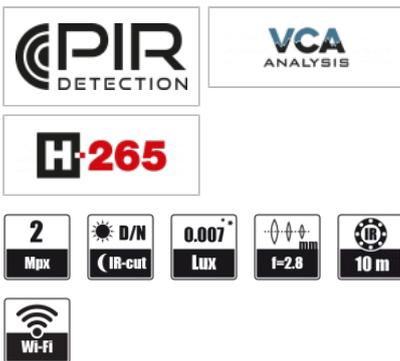
Cube IP camera

NVIP-2Q-6101/PIR/W

6000 VSS IP



KEY FEATURES



- Resolution: 2 MPX
- Lens: fixed focal, f=2.8 mm/F1.85
- D/N function - IR cut filter
- Video content analysis
- reduction of false alarms - PIR detector
- microSD card support
- two-way audio
- Min. Illumination: 0.007 lx (0 lx, IR on)
- IR LED, range up to 10 m

DIMENSIONS



IMAGE

Image Sensor	2 MPX CMOS sensor 1/2.7" SmartSens
Number of Effective Pixels	1936 (H) x 1096 (V)
Min. Illumination	0.007 lx/F1.2 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto: 1 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1 s
Digital Noise Reduction (DNR)	3D
Defog Function (F-DNR)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	fixed focal, f=2.8 mm/F1.85
-----------	-----------------------------

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Visible Light Sensor	yes

NETWORK

Stream Resolution	1920 x 1080 (Full HD), 1280 x 720 (HD), 704 x 576, 480 x 240, 352 x 288 (CIF)
Frame Rate	25 fps for each resolution
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.265, MJPEG/G.711
Number of Simultaneous Connections	max. 4
Bandwidth	8 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, FTP, DHCP, DDNS, NTP, RTSP, UPnP, QoS, IEEE 802.1X, PPPoE, SMTP, P2P, SSL/TLS
ONVIF Protocol Support	Profile S
Camera Configuration	from Internet Explorer browser • languages: Polish, English, Russian, and others
Compatible Software	NMS
Mobile applications	SuperLive Plus (iPhone, Android)

WIFI

Cube IP camera NVIP-2Q-6101/PIR/W

Network standard	IEEE802.11b, g, n
Band	2.4GHz
Security	WEP, WPA-PSK/WPA2-PSK
Transmission range	up to 50 m
Antenna	built-in, omnidirectional

OTHER FUNCTIONS

Privacy Zones	4
Motion Detection	yes
PIR detector	range up to 7 m
Region of interest (ROI)	3
Video Content Analysis (VCA)	line cross, zone entrance
Image Processing	90° image rotation, 180° image rotation, mirror effect, corridor mode, vertical flip, horizontal flip
Prealarm/Postalarm	up to 6 s/up to 120 s
System Reaction to Alarm Events	e-mail with attachment, saving file on FTP server, saving file on SD card, alarm output activation
Restoring default settings	via web browser, using reset button, via NMS IPTool software

IR LED

LED Number	1
Range	10 m
Angle	120°
Smart IR	yes (software support)

INTERFACES

Audio Input/Output	built-in microphone/speaker
Alarm Input/Output	1 (NO/NC)/1 relay type
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s • Wireless (WiFi)
Memory Card Slot	microSD - capacity up to 128GB

INSTALLATION PARAMETERS

Dimensions (mm)	63 (W) x 109 (H) x 30 (L) • with bracket: 72 (W) x 130 (H) x 72 (L)
Weight	0.2 kg
Enclosure	plastic, black and white, wall mount/base in-set included
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	2 W • 3 W (IR on)
Operating Temperature	-10°C ~ 45°C
Humidity	max. 95%, relative (non-condensing)

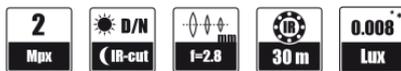
The declared range of the WiFi network is based on laboratory research and relates to open spaces. It should be noted, that the materials used for the construction of houses and flats, wall thickness and electromagnetic field conditions in the immediate surroundings may affect the range of the network.

Vandal Proof IP Camera NVIP-2VE-6231-II

6000 VSS IP



KEY FEATURES



- Resolution: 2 MPX
- Lens: fixed focal, f=2.8 mm/F1.6
- built-in microphone
- D/N function - IR cut filter
- Video content analysis
- microSD card support
- Min. Illumination from 0.008 lx (0 lx, IR on)
- IR LED, range up to 30 m

DIMENSIONS



IMAGE

Image Sensor	2 MPX CMOS sensor 1/2.8" SmartSens
Number of Effective Pixels	1928 (H) x 1088 (V)
Min. Illumination	0.008 lx/F1.6 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto: 1/3 s ~ 1/100000 s
Wide Dynamic Range (WDR)	yes
Digital Noise Reduction (DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	fixed focal, f=2.8 mm/F1.6
-----------	----------------------------

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

NETWORK

Stream Resolution	1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 320 x 240 (QVGA)
Frame Rate	30 fps for 1920 x 1080 (Full HD) and lower resolutions
Multistreaming Mode	2 streams
Video/Audio Compression	H.264, H.264+, H.265, H.265+, MJPEG/G.711
Number of Simultaneous Connections	max. 3
Bandwidth	9 Mb/s in total
Network Protocols Support	HTTP, IPv4, IPv4/v6, UDP, HTTPS, FTP, DHCP, DDNS, NTP, RTSP, RTP, UPnP, SNMP, QoS, IEEE 802.1X, PPPoE, SMTP, RTCP
ONVIF Protocol Support	Profile S
Camera Configuration	from Internet Explorer browser • languages: Polish, English, and others
Compatible Software	NMS, N Control 6000
Mobile applications	SuperLive Plus (iPhone, Android)

OTHER FUNCTIONS

Privacy Zones	4 video mask type: single color
Motion Detection	yes
Region of interest (ROI)	8
Video Content Analysis (VCA)	abandoned object, object disappearance, line cross, Scene Change, intrusion detection
Image Processing	sharpening, mirror effect, vertical flip, horizontal flip
Prealarm/Postalarm	up to 6 s/up to 120 s
System Reaction to Alarm Events	e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card
Restoring default settings	via web browser, using reset button, via NMS IPTool software

IR LED

LED Number	1
Range	30 m
Smart IR	yes (software support)

INTERFACES

Audio Input/Output	1 x Jack (3.5 mm)/- built-in microphone
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 256GB

INSTALLATION PARAMETERS

Dimensions (mm)	95 (Φ) x 83 (H)
Weight	0.5 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	vandalproof IK10 impact rating aluminium, white
Power Supply	12 VDC, PoE (IEEE 802.3af, Class 3)
Surge protection	TVS 4000 V
Power Consumption	3 W • 5.5 W (IR illuminator on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)

Vandal IP camera NVIP-2VE-6232

6000 VSS IP



KEY FEATURES



- Resolution: 2 MPX
- Lens: varifocal, f=2.8 ~ 12 mm/F1.4
- built-in microphone
- D/N function - IR cut filter
- Video content analysis
- microSD card support
- Min. Illumination from 0.004 lx (0 lx, IR on)
- IR LED, range up to 50 m

DIMENSIONS



IMAGE

Image Sensor	2 MPX CMOS sensor 1/2.8" SmartSens
Number of Effective Pixels	1920 (H) x 1080 (V)
Min. Illumination	0.004 lx/F1.4 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto: 1/2 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1/2 s
Wide Dynamic Range (WDR)	yes
Digital Noise Reduction (DNR)	3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	varifocal, f=2.8 ~ 12 mm/F1.4
-----------	-------------------------------

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

NETWORK

Stream Resolution	1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 480 x 240, 320 x 240 (QVGA)
Frame Rate	30 fps for 1920 x 1080 (Full HD) and lower resolutions
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.265, MJPEG/G.711
Number of Simultaneous Connections	max. 3
Bandwidth	15 Mb/s in total
Network Protocols Support	HTTP, IPv4, IPv4/v6, UDP, HTTPS, FTP, DHCP, DDNS, NTP, RTSP, UPnP, QoS, QoS/DSCP, IEEE 802.1X, PPPoE, SMTP
ONVIF Protocol Support	Profile S/G
Camera Configuration	from Internet Explorer browser • languages: Polish, English, Russian, and others

Vandal IP camera NVIP-2VE-6232

Compatible Software	NMS, N Control 6000
Mobile applications	SuperLive Plus (iPhone, Android)

OTHER FUNCTIONS

Privacy Zones	4 video mask type: single color
Motion Detection	yes
Region of interest (ROI)	3
Video Content Analysis (VCA)	tamper, line cross, Scene Change, Video Blurred, intrusion detection
Image Processing	mirror effect, vertical flip, horizontal flip
Prealarm/Postalarm	-/up to 120 s
System Reaction to Alarm Events	e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card
Restoring default settings	via web browser, using reset button, via NMS IPTool software

IR LED

LED Number	2
Range	50 m

INTERFACES

Audio Input/Output	built-in microphone
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 128GB

INSTALLATION PARAMETERS

Dimensions (mm)	112 (Φ) x 100 (H)
Weight	0.65 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	vandalproof IK10 impact rating aluminium, white
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	3 W • 8 W (IR illuminator on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)

Vandal Proof IP Camera NVIP-2VE-6232-II/7043

6000 VSS IP



KEY FEATURES



- Lens: varifocal, f=2.8 ~ 12 mm/F1.4
- built-in microphone
- D/N function - IR cut filter
- Video content analysis
- microSD card support
- Min. Illumination: 0.008 lx (0 lx, IR on)
- IR LED, range up to 50 m

DIMENSIONS



IMAGE

Image Sensor	2 MPX CMOS sensor 1/2.8" SmartSens
Number of Effective Pixels	1928 (H) x 1088 (V)
Min. Illumination	0.006 lx/F1.4 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/3 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1/3 s
Wide Dynamic Range (WDR)	yes
Digital Noise Reduction (DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	varifocal, f=2.8 ~ 12 mm/F1.4
-----------	-------------------------------

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

NETWORK

Stream Resolution	1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 320 x 240 (QVGA)
Frame Rate	30 fps for 1920 x 1080 (Full HD) and lower resolutions
Multistreaming Mode	2 streams
Video/Audio Compression	H.264, H.264+, H.265, H.265+, MJPEG/G.711
Number of Simultaneous Connections	max. 3
Bandwidth	9 Mb/s in total
Network Protocols Support	HTTP, IPv4, IPv4/v6, UDP, HTTPS, FTP, DHCP, DDNS, NTP, RTSP, RTP, UPnP, SNMP, QoS, IEEE 802.1X, PPPoE, SMTP, RTCP
ONVIF Protocol Support	Profile S
Camera Configuration	from Internet Explorer, Firefox, Chrome, Opera, Safari browser • languages: Polish, English, and others
Compatible Software	NMS, N Control 6000

Vandal Proof IP Camera

NVIP-2VE-6232-II/7043

Mobile applications SuperLive Plus (iPhone, Android)

OTHER FUNCTIONS

Privacy Zones	4 video mask type: single color
Motion Detection	yes
Region of interest (ROI)	8
Video Content Analysis (VCA)	abandoned object, object disappearance, line cross, Scene Change, intrusion detection
Image Processing	sharpening, mirror effect, vertical flip, horizontal flip
Prealarm/Postalarm	up to 6 s/up to 120 s
System Reaction to Alarm Events	e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card
Restoring default settings	via web browser, using reset button, via NMS IPTool software

IR LED

LED Number	2
Range	50 m
Smart IR	yes (software support)

INTERFACES

Audio Input/Output	1 x Jack (3.5 mm)/- built-in microphone
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 256GB

INSTALLATION PARAMETERS

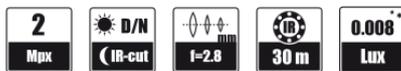
Dimensions (mm)	112 (Φ) x 100 (H)
Weight	0.7 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	vandalproof IK10 impact rating aluminium, grey
Power Supply	12 VDC, PoE (IEEE 802.3af, Class 3)
Surge protection	TVS 4000 V
Power Consumption	3 W • 7.5 W (IR illuminator on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)

Bullet IP Camera NVIP-2H-6231-II

6000 VSS IP



KEY FEATURES



- Resolution: 2 MPX
- Lens: fixed focal, f=2.8 mm/F1.6
- D/N function - IR cut filter
- Video content analysis
- microSD card support
- Min. Illumination: 0.008 lx (0 lx, IR on)
- IR LED, range up to 30 m

DIMENSIONS



IMAGE

Image Sensor	2 MPX CMOS sensor 1/2.8" SmartSens
Number of Effective Pixels	1928 (H) x 1088 (V)
Min. Illumination	0.008 lx/F1.6 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/3 s ~ 1/100000 s
Wide Dynamic Range (WDR)	yes
Digital Noise Reduction (DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	fixed focal, f=2.8 mm/F1.6
-----------	----------------------------

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

NETWORK

Stream Resolution	1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 320 x 240 (QVGA)
Frame Rate	30 fps for 1920 x 1080 (Full HD) and lower resolutions
Multistreaming Mode	2 streams
Video/Audio Compression	H.264, H.264+, H.265, H.265+, MJPEG/G.711
Number of Simultaneous Connections	max. 3
Bandwidth	9 Mb/s in total
Network Protocols Support	HTTP, IPv4, IPv4/v6, UDP, HTTPS, FTP, DHCP, DDNS, NTP, RTSP, RTP, UPnP, SNMP, QoS, IEEE 802.1X, PPPoE, SMTP, RTCP
ONVIF Protocol Support	Profile S
Camera Configuration	from Internet Explorer browser • languages: Polish, English, and others
Compatible Software	NMS, N Control 6000
Mobile applications	SuperLive Plus (iPhone, Android)

OTHER FUNCTIONS

Privacy Zones	4 video mask type: single color
Motion Detection	yes
Region of interest (ROI)	8
Video Content Analysis (VCA)	abandoned object, object disappearance, line cross, Scene Change, intrusion detection
Image Processing	sharpening, mirror effect, vertical flip, horizontal flip
Prealarm/Postalarm	up to 6 s/up to 120 s
System Reaction to Alarm Events	e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card
Restoring default settings	via web browser, using reset button, via NMS IPTool software

IR LED

LED Number	1
Range	30 m
Smart IR	yes (software support)

INTERFACES

Audio Input/Output	1 x Jack (3.5 mm)/-
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 256GB

INSTALLATION PARAMETERS

Dimensions (mm)	with bracket: 75 (W) x 75 (H) x 170 (L)
Weight	0.4 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	aluminium, white, fully cable managed wall mount bracket in-set included , IK10 impact rating
Power Supply	12 VDC, PoE (IEEE 802.3af, Class 3)
Surge protection	TVS 4000 V
Power Consumption	3 W • 5.5 W (IR illuminator on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)

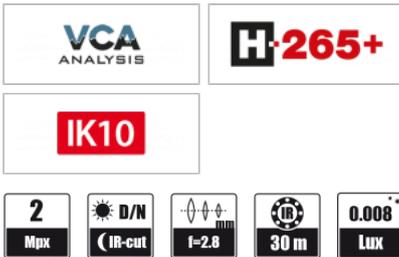
Bullet IP Camera

NVIP-2H-6231-II/7043

6000 VSS IP



KEY FEATURES



- Resolution: 2 MPX
- Lens: fixed focal, f=2.8 mm/F1.6
- D/N function - IR cut filter
- Video content analysis
- microSD card support
- Min. Illumination: 0.008 lx (0 lx, IR on)
- IR LED, range up to 30 m

DIMENSIONS



IMAGE

Image Sensor	2 MPX CMOS sensor 1/2.8" SmartSens
Number of Effective Pixels	1928 (H) x 1088 (V)
Min. Illumination	0.008 lx/F1.6 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/3 s ~ 1/100000 s
Wide Dynamic Range (WDR)	yes
Digital Noise Reduction (DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	fixed focal, f=2.8 mm/F1.6
-----------	----------------------------

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

NETWORK

Stream Resolution	1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 320 x 240 (QVGA)
Frame Rate	30 fps for 1920 x 1080 (Full HD) and lower resolutions
Multistreaming Mode	2 streams
Video/Audio Compression	H.264, H.264+, H.265, H.265+, MJPEG/G.711
Number of Simultaneous Connections	max. 3
Bandwidth	9 Mb/s in total
Network Protocols Support	HTTP, IPv4, IPv4/v6, UDP, HTTPS, FTP, DHCP, DDNS, NTP, RTSP, RTP, UPnP, SNMP, QoS, IEEE 802.1X, PPPoE, SMTP, RTCP
ONVIF Protocol Support	Profile S
Camera Configuration	from Internet Explorer browser • languages: Polish, English, and others
Compatible Software	NMS, N Control 6000
Mobile applications	SuperLive Plus (iPhone, Android)

OTHER FUNCTIONS

Privacy Zones	4 video mask type: single color
Motion Detection	yes
Region of interest (ROI)	8
Video Content Analysis (VCA)	abandoned object, object disappearance, line cross, Scene Change, intrusion detection
Image Processing	sharpening, mirror effect, vertical flip, horizontal flip
Prealarm/Postalarm	up to 6 s/up to 120 s
System Reaction to Alarm Events	e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card
Restoring default settings	via web browser, using reset button, via NMS IPTool software

IR LED

LED Number	1
Range	30 m
Smart IR	yes (software support)

INTERFACES

Audio Input/Output	1 x Jack (3.5 mm)/-
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 256GB

INSTALLATION PARAMETERS

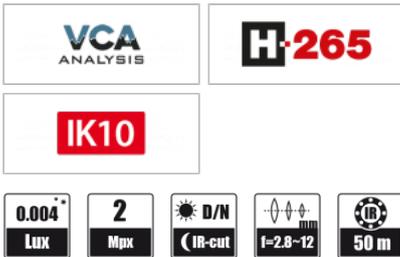
Dimensions (mm)	with bracket: 75 (W) x 75 (H) x 170 (L)
Weight	0.4 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	aluminium, grey, fully cable managed wall mount bracket in-set included, IK10 impact rating
Power Supply	12 VDC, PoE (IEEE 802.3af, Class 3)
Surge protection	TVS 4000 V
Power Consumption	3 W • 5.5 W (IR illuminator on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)

Bullet IP Camera NVIP-2H-6232

6000 VSS IP



KEY FEATURES



- Resolution: 2 MPX
- Lens: varifocal, f=2.8 ~ 12 mm/F1.4
- MicroSD card support
- D/N function - IR cut filter
- Video content analysis
- Min. Illumination from 0.004 lx (0 lx, IR on)
- IR LED, range up to 50 m

DIMENSIONS



IMAGE

Image Sensor	2 MPX CMOS sensor 1/2.8" SmartSens
Number of Effective Pixels	1920 (H) x 1080 (V)
Min. Illumination	0.004 lx/F1.4 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto: 1/2 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1/2 s
Wide Dynamic Range (WDR)	yes
Digital Noise Reduction (DNR)	3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	varifocal, f=2.8 ~ 12 mm/F1.4
-----------	-------------------------------

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

NETWORK

Stream Resolution	1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 480 x 240, 320 x 240 (QVGA)
Frame Rate	30 fps for 1920 x 1080 (Full HD) and lower resolutions
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.265, MJPEG/G.711
Number of Simultaneous Connections	max. 3
Bandwidth	15 Mb/s in total
Network Protocols Support	HTTP, IPv4, IPv4/v6, UDP, HTTPS, FTP, DHCP, DDNS, NTP, RTSP, UPnP, QoS, IEEE 802.1X, PPPoE, SMTP
ONVIF Protocol Support	Profile S/G
Camera Configuration	from Internet Explorer browser • languages: Polish, English, Russian, and others

Bullet IP Camera NVIP-2H-6232

Compatible Software	NMS, N Control 6000
Mobile applications	SuperLive Plus (iPhone, Android)

OTHER FUNCTIONS

Privacy Zones	4 video mask type: single color
Motion Detection	yes
Region of interest (ROI)	3
Video Content Analysis (VCA)	tamper, line cross, Scene Change, Video Blurred, intrusion detection
Image Processing	mirror effect, vertical flip, horizontal flip
Prealarm/Postalarm	-/up to 120 s
System Reaction to Alarm Events	e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card
Restoring default settings	via web browser, using reset button, via NMS IPTool software

IR LED

LED Number	2
Range	50 m

INTERFACES

Audio Input/Output	1 x Jack (3.5 mm)/-
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 128GB

INSTALLATION PARAMETERS

Dimensions (mm)	with bracket: 81 (W) x 81 (H) x 220 (L)
Weight	0.66 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	aluminium, white, fully cable managed wall mount bracket in-set included, IK10 impact rating
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	3 W • 8 W (IR illuminator on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)

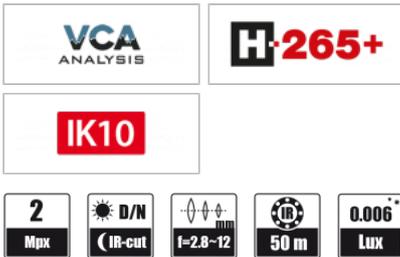
Bullet IP Camera

NVIP-2H-6232-II/7043

6000 VSS IP



KEY FEATURES



- Resolution: 2 MPX
- Lens: varifocal, f=2.8 ~ 12 mm/F1.4
- MicroSD card support
- D/N function - IR cut filter
- Video content analysis
- Min. Illumination from 0.006 lx (0 lx, IR on)
- IR LED, range up to 50 m

DIMENSIONS



IMAGE

Image Sensor	2 MPX CMOS sensor 1/2.8" SmartSens
Number of Effective Pixels	1928 (H) x 1088 (V)
Min. Illumination	0.006 lx/F1.4 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/3 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1/3 s
Wide Dynamic Range (WDR)	yes
Digital Noise Reduction (DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	varifocal, f=2.8 ~ 12 mm/F1.4
-----------	-------------------------------

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

NETWORK

Stream Resolution	1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 320 x 240 (QVGA)
Frame Rate	30 fps for 1920 x 1080 (Full HD) and lower resolutions
Multistreaming Mode	2 streams
Video/Audio Compression	H.264, H.264+, H.265, H.265+, MJPEG/G.711
Number of Simultaneous Connections	max. 3
Bandwidth	9 Mb/s in total
Network Protocols Support	HTTP, IPv4, IPv4/v6, UDP, HTTPS, FTP, DHCP, DDNS, NTP, RTSP, RTP, UPnP, SNMP, QoS, IEEE 802.1X, PPPoE, SMTP, RTCP
ONVIF Protocol Support	Profile S
Camera Configuration	from Internet Explorer browser • languages: Polish, English, and others
Compatible Software	NMS, N Control 6000

Bullet IP Camera NVIP-2H-6232-II/7043

Mobile applications SuperLive Plus (iPhone, Android)

OTHER FUNCTIONS

Privacy Zones	4 video mask type: single color
Motion Detection	yes
Region of interest (ROI)	8
Video Content Analysis (VCA)	abandoned object, object disappearance, line cross, Scene Change, intrusion detection
Image Processing	sharpening, mirror effect, vertical flip, horizontal flip
Prealarm/Postalarm	up to 6 s/up to 120 s
System Reaction to Alarm Events	e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card
Restoring default settings	via web browser, using reset button, via NMS IPTool software

IR LED

LED Number	2
Range	50 m
Smart IR	yes (software support)

INTERFACES

Audio Input/Output	1 x Jack (3.5 mm)/-
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 256GB

INSTALLATION PARAMETERS

Dimensions (mm)	with bracket: 81 (W) x 81 (H) x 220 (L)
Weight	0.66 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	aluminium, grey, fully cable managed wall mount bracket in-set included , IK10 impact rating
Power Supply	12 VDC, PoE (IEEE 802.3af, Class 3)
Surge protection	TVS 4000 V
Power Consumption	3 W • 7.5 W (IR illuminator on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)

Dome IP Camera for internal use with video content analysis based on Deep Learning

NVIP-2D-6502/F



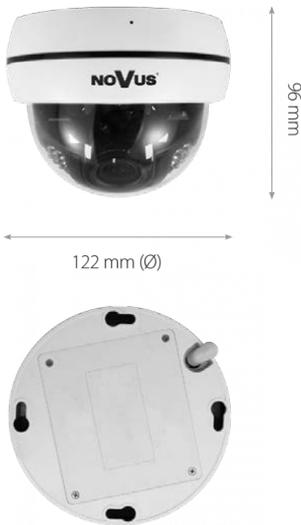
6000 VSS IP

KEY FEATURES



- Resolution: 2 MPX
- Lens: varifocal, f=2.8 ~ 12 mm/F1.4
- D/N function - IR cut filter
- Video content analysis
- microSD card support
- WDR with double scan sensor
- two-way audio
- Min. Illumination from 0.0038 lx (0 lx, IR on)
- IR LED, range up to 30 m

DIMENSIONS



IMAGE

Image Sensor	2 MPX CMOS sensor 1/2.8" SONY STARVIS
Number of Effective Pixels	1920 (H) x 1080 (V)
Min. Illumination	0.0038 lx/F1.4 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/3 s ~ 1/10000 s
Digital Slow Shutter (DSS)	up to 1/3 s
Wide Dynamic Range (WDR)	yes (double scan sensor), 120dB
Digital Noise Reduction (DNR)	3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	varifocal, f=2.8 ~ 12 mm/F1.4
-----------	-------------------------------

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Schedule	yes
Visible Light Sensor	yes

NETWORK

Stream Resolution	1920 x 1080 (Full HD), 1280 x 720 (HD), 704 x 576, 480 x 240, 352 x 288 (CIF)
Frame Rate	30 fps for 1920 x 1080 (Full HD) and lower resolutions
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.264+, H.264 Smart, H.265, H.265+, H.265 Smart, MJPEG/G.711
Number of Simultaneous Connections	max. 10
Bandwidth	60 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, FTP, DHCP, DDNS, NTP, RTSP, UPnP, SNMP, QoS, IEEE 802.1X, PPPoE, SMTP
ONVIF Protocol Support	Profile S
Camera Configuration	from Internet Explorer browser • languages: Polish, English, Russian, and others
Compatible Software	NMS, NVR-6000 Viewer

Dome IP Camera for internal use with video content analysis based on Deep Learning

NVIP-2D-6502/F

Mobile applications SuperLive Plus (iPhone, Android)

OTHER FUNCTIONS

Privacy Zones	4
Motion Detection	yes
Region of interest (ROI)	8
Video Content Analysis (VCA)	tamper, line cross, zone entrance, zone exit, object counting, Scene Change, Video Blurred, Video Color Cast, objects distinguishing, face recognition
Image Processing	180° image rotation, sharpening, mirror effect, corridor mode, lens distortion correction
Prealarm/Postalarm	up to 6 s/up to 120 s
System Reaction to Alarm Events	e-mail with attachment, saving file on FTP server, saving file on SD card, alarm output activation
Restoring default settings	via web browser, using reset button, via NMS IPTool software

IR LED

LED Number	30
Range	30 m
Angle	90°
Smart IR	yes (software support)

INTERFACES

Audio Input/Output	1 x Jack (3.5 mm)/1 x Jack (3.5 mm) built-in microphone
Alarm Input/Output	1 (NO/NC)/1 relay type
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 128GB

INSTALLATION PARAMETERS

Dimensions (mm)	122 (Φ) x 96 (H)
Weight	0.38 kg
Enclosure	plastic, white
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	3 W • 6 W (IR on)
Operating Temperature	-10°C ~ 40°C
Humidity	max. 95%, relative (non-condensing)

IP Camera with video content analysis based on Deep Learning

NVIP-2V-6501/F

6000 VSS IP



KEY FEATURES



- Resolution: 2 MPX (Full HD)
- Lens: fixed focal, f=2.8 mm/F1.6
- Human/Vehicle Object Classification
- D/N function - IR cut filter
- Video content analysis based on Deep Learning
- microSD card support
- WDR with double scan sensor
- Min. Illumination: 0.005 lx (0 lx, IR on)
- IR LED, range up to 30 m

DIMENSIONS



IMAGE

Image Sensor	2 MPX CMOS sensor 1/2.8" SONY STARVIS
Number of Effective Pixels	1945 (H) x 1097 (V)
Min. Illumination	0.005 lx/F1.6 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/3 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1/3 s
Wide Dynamic Range (WDR)	yes (double scan sensor), 120dB
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	fixed focal, f=2.8 mm/F1.6
-----------	----------------------------

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

NETWORK

Stream Resolution	1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 480 x 240, 320 x 240 (QVGA)
Frame Rate	30 fps for 1920 x 1080 (Full HD) and lower resolutions
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.264+, H.264 Smart, H.265, H.265+, H.265 Smart, MJPEG/G.711
Number of Simultaneous Connections	max. 10
Bandwidth	60 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DNS, DDNS, NTP, RTSP, UPnP, SNMP, QoS/DSCP, IEEE 802.1X, PPPoE, SMTP, ICMP, Unicast
ONVIF Protocol Support	Profile S/G

IP Camera with video content analysis based on Deep Learning

NVIP-2V-6501/F

Camera Configuration	from Internet Explorer browser • languages: Polish, English, Russian, and others
Compatible Software	NMS, N Control 6000
Mobile applications	SuperLive Plus (iPhone, Android)

OTHER FUNCTIONS

Privacy Zones	4 video mask type: single color or 1 video mask type: mosaic
Motion Detection	yes
Region of interest (ROI)	8
Video Content Analysis (VCA)	tamper, abandoned object, object disappearance, line cross, zone entrance, zone exit, object counting, face detection, pedestrian detection, cross counting, Scene Change, Video Blurred, Video Color Cast, objects distinguishing, people counting, vehicle detection, vehicle counting
Image Processing	180° image rotation, sharpening, mirror effect, corridor mode, vertical flip, horizontal flip, lens distortion correction
Prealarm/Postalarm	up to 6 s/up to 120 s
System Reaction to Alarm Events	e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card
Restoring default settings	via web browser, using reset button, via NMS IPTool software

IR LED

LED Number	1
Range	30 m
Angle	120°
Smart IR	yes (software support)

INTERFACES

Audio Input/Output	1 x Jack (3.5 mm)/- built-in microphone
Alarm Input/Output	1 (NO/NC)/1 relay type
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 128GB

INSTALLATION PARAMETERS

Dimensions (mm)	119 (Φ) x 87.8 (H)
Weight	0.65 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	vandalproof IK10 impact rating aluminium, white
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	5 W • 7.5 W (IR on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)

IP Motor-zoom Camera with video content analysis based on Deep Learning

NVIP-2V-6502M/F

6000 VSS IP

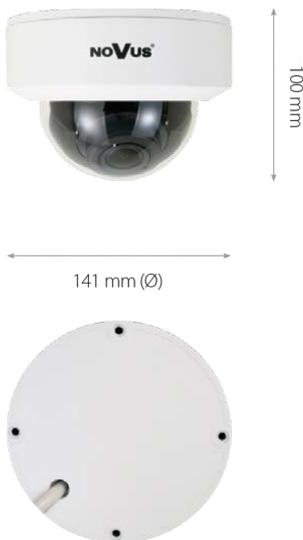


KEY FEATURES



- Resolution: 2 MPX
- Lens: motorized, auto-iris and auto-focus function, f=2.8 ~ 12 mm/F1.4
- Human/Vehicle Object Classification
- D/N function - IR cut filter
- Video content analysis based on Deep Learning
- microSD card support
- WDR with double scan sensor
- Min. Illumination: 0.003 lx (0 lx, IR on)
- IR LED, range up to 50 m

DIMENSIONS



IMAGE

Image Sensor	2 MPX CMOS sensor 1/2.8" SONY STARVIS
Number of Effective Pixels	1920 (H) x 1080 (V)
Min. Illumination	0.003 lx/F1.4 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/3 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1/3 s
Wide Dynamic Range (WDR)	yes (double scan sensor), 120dB
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	motorized, auto-iris function, f=2.8 ~ 12 mm/F1.4
Auto-focus	zoom trigger, day/night mode trigger, manual trigger

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

NETWORK

Stream Resolution	1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 480 x 240, 320 x 240 (QVGA)
Frame Rate	30 fps for 1920 x 1080 (Full HD) and lower resolutions
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.264+, H.264 Smart, H.265, H.265+, H.265 Smart, MJPEG/G.711
Number of Simultaneous Connections	max. 10
Bandwidth	60 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DNS, DDNS, NTP, RTSP, UPnP, SNMP, QoS/DSCP, IEEE 802.1X, PPPoE, SMTP, ICMP, Unicast, SSL/TLS
ONVIF Protocol Support	Profile S/G

IP Motor-zoom Camera with video content analysis based on Deep Learning

NVIP-2V-6502M/F

Camera Configuration	from Internet Explorer browser • languages: Polish, English, Russian, and others
----------------------	--

Compatible Software	NMS, N Control 6000
---------------------	---------------------

Mobile applications	SuperLive Plus (iPhone, Android)
---------------------	----------------------------------

OTHER FUNCTIONS

Privacy Zones	4 video mask type: single color or 1 video mask type: mosaic
---------------	--

Motion Detection	yes
------------------	-----

Region of interest (ROI)	8
--------------------------	---

Video Content Analysis (VCA)	tamper, abandoned object, object disappearance, line cross, zone entrance, zone exit, object counting, face detection, pedestrian detection, cross counting, Scene Change, Video Blurred, Video Color Cast, objects distinguishing, people counting, vehicle detection, vehicle counting
------------------------------	--

Image Processing	180° image rotation, sharpening, mirror effect, corridor mode, vertical flip, horizontal flip, lens distortion correction
------------------	---

Prealarm/Postalarm	up to 6 s/up to 120 s
--------------------	-----------------------

System Reaction to Alarm Events	e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card
---------------------------------	---

Restoring default settings	via web browser, using reset button, via NMS IPTool software
----------------------------	--

IR LED

LED Number	3
------------	---

Range	50 m
-------	------

Angle	90°
-------	-----

Smart IR	yes (hardware support)
----------	------------------------

INTERFACES

Video Output	BNC, 1.0 Vp-p, 75 Ohm
--------------	-----------------------

Audio Input/Output	1 x Jack (3.5 mm)/1 x Jack (3.5 mm) built-in microphone
--------------------	---

Alarm Input/Output	1 (NO/NC)/1 relay type
--------------------	------------------------

Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
-------------------	---

Memory Card Slot	microSD - capacity up to 256GB
------------------	--------------------------------

INSTALLATION PARAMETERS

Dimensions (mm)	141 (Φ) x 100.2 (H)
-----------------	---------------------

Weight	0.89 kg
--------	---------

Degree of Protection	IP 67 (details in the user's manual)
----------------------	--------------------------------------

Enclosure	vandalproof IK10 impact rating aluminium, white
-----------	---

Power Supply	PoE, 12 VDC
--------------	-------------

Surge protection	TVS 4000 V
------------------	------------

Power Consumption	7 W • 9 W (IR on)
-------------------	-------------------

Operating Temperature	-30°C ~ 60°C
-----------------------	--------------

Humidity	max. 95%, relative (non-condensing)
----------	-------------------------------------

IP Camera with video content analysis based on Deep Learning

NVIP-2VE-6501/F



6000 VSS IP

KEY FEATURES



- Resolution: 2 MPX (Full HD)
- Lens: fixed focal, $f=2.8$ mm/F1.6
- Human/Vehicle Object Classification
- D/N function - IR cut filter
- Video content analysis based on Deep Learning
- microSD card support
- WDR with double scan sensor
- Min. Illumination: 0.005 lx (0 lx, IR on)
- IR LED, range up to 30 m

DIMENSIONS



IMAGE

Image Sensor	2 MPX CMOS sensor 1/2.8" SONY STARVIS
Number of Effective Pixels	1945 (H) x 1097 (V)
Min. Illumination	0.005 lx/F1.6 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/3 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1/3 s
Wide Dynamic Range (WDR)	yes (double scan sensor), 120dB
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	fixed focal, $f=2.8$ mm/F1.6
-----------	------------------------------

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

NETWORK

Stream Resolution	1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 480 x 240, 320 x 240 (QVGA)
Frame Rate	30 fps for 1920 x 1080 (Full HD) and lower resolutions
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.264+, H.264 Smart, H.265, H.265+, H.265 Smart, MJPEG/G.711
Number of Simultaneous Connections	max. 10
Bandwidth	60 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DNS, DDNS, NTP, RTSP, UPnP, SNMP, QoS/DSCP, IEEE 802.1X, PPPoE, SMTP, ICMP, Unicast, SSL/TLS
ONVIF Protocol Support	Profile S/G

IP Camera with video content analysis based on Deep Learning

NVIP-2VE-6501/F

Camera Configuration	from Internet Explorer browser • languages: Polish, English, Russian, and others
Compatible Software	NMS, NVR-6000 Viewer
Mobile applications	SuperLive Plus (iPhone, Android)

OTHER FUNCTIONS

Privacy Zones	4 video mask type: single color or 1 video mask type: mosaic
Motion Detection	yes
Region of interest (ROI)	8
Video Content Analysis (VCA)	tamper, abandoned object, object disappearance, line cross, zone entrance, zone exit, object counting, face detection, pedestrian detection, cross counting, Scene Change, Video Blurred, Video Color Cast, objects distinguishing, people counting, vehicle detection, vehicle counting
Image Processing	180° image rotation, sharpening, mirror effect, corridor mode, vertical flip, horizontal flip, lens distortion correction
Prealarm/Postalarm	up to 6 s/up to 120 s
System Reaction to Alarm Events	e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card
Restoring default settings	via web browser, using reset button, via NMS IPTool software

IR LED

LED Number	1
Range	30 m
Angle	120°
Smart IR	yes (software support)

INTERFACES

Audio Input/Output	1 x Jack (3.5 mm)/- built-in microphone
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 128GB

INSTALLATION PARAMETERS

Dimensions (mm)	95 (Φ) x 83 (H)
Weight	0.5 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	vandalproof IK10 impact rating aluminium, white
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	5 W • 7.5 W (IR on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)

IP Motor-zoom Camera with video content analysis based on Deep Learning

NVIP-2VE-6502M/F



6000 VSS IP

KEY FEATURES



- Resolution: 2 MPX
- Lens: motorized, auto-iris and auto-focus function, f=2.8 ~ 12 mm/F1.4
- Human/Vehicle Object Classification
- D/N function - IR cut filter
- Video content analysis based on Deep Learning
- microSD card support
- WDR with double scan sensor
- Min. Illumination: 0.003 lx (0 lx, IR on)
- IR LED, range up to 50 m

DIMENSIONS



IMAGE

Image Sensor	2 MPX CMOS sensor 1/2.8" SONY STARVIS
Number of Effective Pixels	1945 (H) x 1097 (V)
Min. Illumination	0.003 lx/F1.4 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/3 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1/3 s
Wide Dynamic Range (WDR)	yes (double scan sensor), 120dB
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	motorized, auto-iris function, f=2.8 ~ 12 mm/F1.4
Auto-focus	zoom trigger, day/night mode trigger, manual trigger

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

NETWORK

Stream Resolution	1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 480 x 240, 320 x 240 (QVGA)
Frame Rate	30 fps for 1920 x 1080 (Full HD) and lower resolutions
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.264+, H.264 Smart, H.265, H.265+, H.265 Smart, MJPEG/G.711
Number of Simultaneous Connections	max. 10
Bandwidth	60 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DNS, DDNS, NTP, RTSP, UPnP, SNMP, QoS/DSCP, IEEE 802.1X, PPPoE, SMTP, ICMP, Unicast, SSL/TLS
ONVIF Protocol Support	Profile S/G

IP Motor-zoom Camera with video content analysis based on Deep Learning

NVIP-2VE-6502M/F

Camera Configuration from Internet Explorer browser • languages: Polish, English, Russian, and others

Compatible Software NMS, NVR-6000 Viewer

Mobile applications SuperLive Plus (iPhone, Android)

OTHER FUNCTIONS

Privacy Zones 4 video mask type: single color or 1 video mask type: mosaic

Motion Detection yes

Region of interest (ROI) 8

Video Content Analysis (VCA) tamper, abandoned object, object disappearance, line cross, zone entrance, zone exit, object counting, face detection, pedestrian detection, cross counting, Scene Change, Video Blurred, Video Color Cast, objects distinguishing, people counting, vehicle detection, vehicle counting

Image Processing 180° image rotation, sharpening, mirror effect, corridor mode, vertical flip, horizontal flip, lens distortion correction

Prealarm/Postalarm up to 6 s/up to 120 s

System Reaction to Alarm Events e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card

Restoring default settings via web browser, using reset button, via NMS IPTool software

IR LED

LED Number 2

Range 50 m

Angle 90°

Smart IR yes (software support)

INTERFACES

Audio Input/Output 1 x Jack (3.5 mm)/- built-in microphone

Network Interface 1 x Ethernet - RJ-45 interface, 10/100 Mbit/s

Memory Card Slot microSD - capacity up to 128GB

INSTALLATION PARAMETERS

Dimensions (mm) 112 (Φ) x 100 (H)

Weight 0.7 kg

Degree of Protection IP 67 (details in the user's manual)

Enclosure vandalproof IK10 impact rating aluminium, white

Power Supply PoE, 12 VDC

Surge protection TVS 4000 V

Power Consumption 6 W • 11 W (IR on)

Operating Temperature -30°C ~ 60°C

Humidity max. 95%, relative (non-condensing)

IP Camera with video content analysis based on Deep Learning

NVIP-2H-6511/F

6000 VSS IP



KEY FEATURES



- Resolution: 2 MPX (Full HD)
- Lens: fixed focal, $f=2.8$ mm/F1.6
- Human/Vehicle Object Classification
- D/N function - IR cut filter
- Video content analysis based on Deep Learning
- microSD card support
- WDR with double scan sensor
- Min. Illumination: 0.005 lx (0 lx, IR on)
- IR LED, range up to 50 m

DIMENSIONS



IMAGE

Image Sensor	2 MPX CMOS sensor 1/2.8" SONY STARVIS
Number of Effective Pixels	1945 (H) x 1097 (V)
Min. Illumination	0.005 lx/F1.6 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/3 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1/3 s
Wide Dynamic Range (WDR)	yes (double scan sensor), 120dB
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	fixed focal, $f=2.8$ mm/F1.6
-----------	------------------------------

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

NETWORK

Stream Resolution	1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 480 x 240, 320 x 240 (QVGA)
Frame Rate	30 fps for 1920 x 1080 (Full HD) and lower resolutions
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.264+, H.264 Smart, H.265, H.265+, H.265 Smart, MJPEG/G.711
Number of Simultaneous Connections	max. 10
Bandwidth	60 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DDNS, NTP, RTSP, UPnP, SNMP, QoS/DSCP, IEEE 802.1X, PPPoE, SMTP, ICMP, Unicast, SSL/TLS
ONVIF Protocol Support	Profile S/G

IP Camera with video content analysis based on Deep Learning

NVIP-2H-6511/F

Camera Configuration	from Internet Explorer browser • languages: Polish, English, Russian, and others
----------------------	--

Compatible Software	NMS, NVR-6000 Viewer
---------------------	----------------------

Mobile applications	SuperLive Plus (iPhone, Android)
---------------------	----------------------------------

OTHER FUNCTIONS

Privacy Zones	4 video mask type: single color or 1 video mask type: mosaic
---------------	--

Motion Detection	yes
------------------	-----

Region of interest (ROI)	8
--------------------------	---

Video Content Analysis (VCA)	tamper, abandoned object, object disappearance, line cross, zone entrance, zone exit, object counting, face detection, pedestrian detection, cross counting, Scene Change, Video Blurred, Video Color Cast, objects distinguishing, people counting, vehicle detection, vehicle counting
------------------------------	--

Image Processing	180° image rotation, sharpening, mirror effect, corridor mode, vertical flip, horizontal flip, lens distortion correction
------------------	---

Prealarm/Postalarm	up to 6 s/up to 120 s
--------------------	-----------------------

System Reaction to Alarm Events	e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card
---------------------------------	---

Restoring default settings	via web browser, using reset button, via NMS IPTool software
----------------------------	--

IR LED

LED Number	2
------------	---

Range	50 m
-------	------

Angle	90°
-------	-----

Smart IR	yes (software support)
----------	------------------------

INTERFACES

Audio Input/Output	1 x Jack (3.5 mm)/-
--------------------	---------------------

Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
-------------------	---

Memory Card Slot	microSD - capacity up to 128GB
------------------	--------------------------------

INSTALLATION PARAMETERS

Dimensions (mm)	with bracket: 81 (W) x 81 (H) x 220 (L)
-----------------	---

Weight	0.7 kg
--------	--------

Degree of Protection	IP 67 (details in the user's manual)
----------------------	--------------------------------------

Enclosure	aluminium, white, fully cable managed wall mount bracket in-set included, IK10 impact rating
-----------	--

Power Supply	PoE, 12 VDC
--------------	-------------

Surge protection	TVS 4000 V
------------------	------------

Power Consumption	6 W • 10 W (IR on)
-------------------	--------------------

Operating Temperature	-30°C ~ 60°C
-----------------------	--------------

Humidity	max. 95%, relative (non-condensing)
----------	-------------------------------------

IP Motor-zoom Camera with video content analysis based on Deep Learning

NVIP-2H-6502M/F

6000 VSS IP



KEY FEATURES



- Resolution: 2 MPX (Full HD)
- Lens: motorized, auto-iris and auto-focus function, f=2.8 ~ 12 mm/F1.4
- Human/Vehicle Object Classification
- D/N function - IR cut filter
- Video content analysis based on Deep Learning
- microSD card support
- WDR with double scan sensor
- Min. Illumination: 0.003 lx (0 lx, IR on)
- IR LED, range up to 50 m

DIMENSIONS



IMAGE

Image Sensor	2 MPX CMOS sensor 1/2.8" SONY STARVIS
Number of Effective Pixels	1945 (H) x 1097 (V)
Min. Illumination	0.003 lx/F1.4 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/3 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1/3 s
Wide Dynamic Range (WDR)	yes (double scan sensor), 120dB
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	motorized, auto-iris function, f=2.8 ~ 12 mm/F1.4
Auto-focus	zoom trigger, day/night mode trigger, manual trigger

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

NETWORK

Stream Resolution	1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 480 x 240, 320 x 240 (QVGA)
Frame Rate	30 fps for 1920 x 1080 (Full HD) and lower resolutions
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.264+, H.264 Smart, H.265, H.265+, H.265 Smart, MJPEG/G.711
Number of Simultaneous Connections	max. 10
Bandwidth	60 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DDNS, NTP, RTSP, UPnP, SNMP, QoS/DSCP, IEEE 802.1X, PPPoE, SMTP, ICMP, Unicast, SSL/TLS
ONVIF Protocol Support	Profile S/G

IP Motor-zoom Camera with video content analysis based on Deep Learning

NVIP-2H-6502M/F

Camera Configuration	from Internet Explorer browser • languages: Polish, English, Russian, and others
Compatible Software	NMS, NVR-6000 Viewer
Mobile applications	SuperLive Plus (iPhone, Android)

OTHER FUNCTIONS

Privacy Zones	4 video mask type: single color or 1 video mask type: mosaic
Motion Detection	yes
Region of interest (ROI)	8
Video Content Analysis (VCA)	tamper, abandoned object, object disappearance, line cross, zone entrance, zone exit, object counting, face detection, pedestrian detection, cross counting, Scene Change, Video Blurred, Video Color Cast, objects distinguishing, people counting, vehicle detection, vehicle counting
Image Processing	180° image rotation, sharpening, mirror effect, corridor mode, vertical flip, horizontal flip, lens distortion correction
Prealarm/Postalarm	up to 6 s/up to 120 s
System Reaction to Alarm Events	e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card
Restoring default settings	via web browser, using reset button, via NMS IPTool software

IR LED

LED Number	2
Range	50 m
Smart IR	yes (software support)

INTERFACES

Audio Input/Output	1 x Jack (3.5 mm)/-
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 128GB

INSTALLATION PARAMETERS

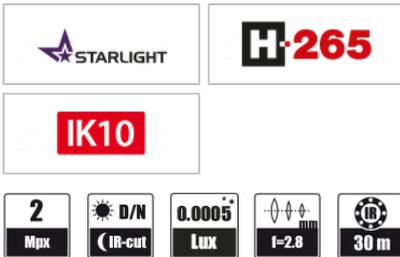
Dimensions (mm)	with bracket: 81 (W) x 81 (H) x 220 (L)
Weight	0.7 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	aluminium, white, fully cable managed wall mount bracket in-set included, IK10 impact rating
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	6 W • 10 W (IR on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)

Vandal Proof IP Starlight Camera NVIP-2VE-6601-II

6000 VSS IP



KEY FEATURES



- Resolution: 2 MPX
- Lens: fixed focal, f=2.8 mm/F2.0
- built-in microphone
- D/N function - IR cut filter
- microSD card support
- Min. Illumination: 0.0005 lx (0 lx, IR on)
- IR LED, range up to 30 m

DIMENSIONS



IMAGE

Image Sensor	2 MPX CMOS sensor 1/2.8" SmartSens
Number of Effective Pixels	1922 (H) x 1088 (V)
Min. Illumination	0.005 lx/F2.0 - color mode • 0.0005 lx/F2.0 - B/W mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1 s
Wide Dynamic Range (WDR)	yes
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	fixed focal, f=2.8 mm/F2.0
-----------	----------------------------

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

NETWORK

Stream Resolution	1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 480 x 240, 320 x 240 (QVGA)
Frame Rate	30 fps for 1920 x 1080 (Full HD) and lower resolutions
Multistreaming Mode	2 streams
Video/Audio Compression	H.264, H.265, MJPEG/G.711
Number of Simultaneous Connections	max. 3
Bandwidth	12 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DDNS, NTP, RTSP, UPnP, QoS/DSCP, IEEE 802.1X, PPPoE, SMTP, SSL, ICMP, Unicast
ONVIF Protocol Support	Profile S/G

Vandal Proof IP Starlight Camera NVIP-2VE-6601-II

Camera Configuration	from Internet Explorer browser • languages: Polish, English, Russian, and others
Compatible Software	NMS, N Control 6000
Mobile applications	SuperLive Plus (iPhone, Android)

OTHER FUNCTIONS

Privacy Zones	4 video mask type: single color
Motion Detection	yes
Region of interest (ROI)	3
Video Content Analysis (VCA)	line cross, zone entrance, Video Blurred
Image Processing	sharpening, mirror effect, vertical flip, horizontal flip
Prealarm/Postalarm	up to 6 s/up to 120 s
System Reaction to Alarm Events	e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card
Restoring default settings	via web browser, using reset button, via NMS IPTool software

IR LED

LED Number	1
Range	30 m
Angle	120°

INTERFACES

Audio Input/Output	built-in microphone
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 128GB

INSTALLATION PARAMETERS

Dimensions (mm)	95 (Φ) x 83 (H)
Weight	0.5 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	vandalproof IK10 impact rating aluminium, white
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	2.5 W • 5 W (IR on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)

Vandal Proof IP Starlight Camera

NVIP-2VE-6632M

6000 VSS IP



KEY FEATURES



- Resolution: 2 MPX
- Lens: motorized, auto-focus function, f=2.8 ~ 12 mm/F1.4
- built-in microphone
- D/N function - IR cut filter
- microSD card support
- WDR with double scan sensor
- Min. Illumination: 0.003 lx (0 lx, IR on)
- IR LED, range up to 50 m

DIMENSIONS



112 mm (∅)



IMAGE

Image Sensor	2 MPX CMOS sensor 1/2.8" OmniVision
Number of Effective Pixels	1920 (H) x 1080 (V)
Min. Illumination	0.003 lx/F1.4 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/2 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1/2 s
Wide Dynamic Range (WDR)	yes (double scan sensor), 120dB
Digital Noise Reduction (DNR)	2D, 3D
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	motorized, f=2.8 ~ 12 mm/F1.4
Auto-focus	zoom trigger, day/night mode trigger, manual trigger

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

NETWORK

Stream Resolution	1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 480 x 240, 320 x 240 (QVGA)
Frame Rate	30 fps for 1920 x 1080 (Full HD) and lower resolutions
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.264+, H.265, H.265+, MJPEG/G.711
Number of Simultaneous Connections	max. 3
Bandwidth	12 Mb/s in total
Network Protocols Support	HTTP, IPv4, IPv4/v6, UDP, HTTPS, FTP, DHCP, DDNS, NTP, RTSP, RTP, UPnP, SNMP, QoS, IEEE 802.1X, PPPoE, SMTP, RTCP, RTMP
ONVIF Protocol Support	Profile S/G
Camera Configuration	from Internet Explorer browser • languages: Polish, English, Russian, and others

Vandal Proof IP Starlight Camera NVIP-2VE-6632M

Compatible Software	NMS, N Control 6000
Mobile applications	SuperLive Plus (iPhone, Android)

OTHER FUNCTIONS

Privacy Zones	4 video mask type: single color
Motion Detection	yes
Region of interest (ROI)	8
Video Content Analysis (VCA)	abandoned object, object disappearance, line cross, Scene Change, Video Blurred, Video Color Cast, intrusion detection
Image Processing	90° image rotation, sharpening, mirror effect, corridor mode, vertical flip, horizontal flip
Prealarm/Postalarm	up to 6 s/up to 120 s
System Reaction to Alarm Events	e-mail with attachment, saving file on FTP server, saving file on SD card
Restoring default settings	via web browser, using reset button, via NMS IPTool software

IR LED

LED Number	2
Range	50 m
Smart IR	yes (software support)

INTERFACES

Audio Input/Output	1 x Jack (3.5 mm)/- built-in microphone
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 256GB

INSTALLATION PARAMETERS

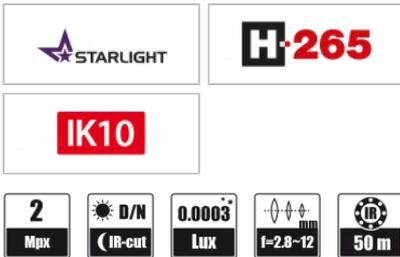
Dimensions (mm)	112 (Φ) x 100 (H)
Weight	0.7 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	vandalproof IK10 impact rating aluminium, white
Power Supply	12 VDC, PoE (IEEE 802.3af, Class 3)
Surge protection	TVS 4000 V
Power Consumption	4 W • 8.5 W (IR illuminator on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)

Vandal Proof IP Starlight Camera NVIP-2VE-6602

6000 VSS IP



KEY FEATURES



- Resolution: 2 MPX
- Lens: varifocal, f=2.8 ~ 12 mm/F1.4
- D/N function - IR cut filter
- microSD card support
- Min. Illumination: 0.0003 lx (0 lx, IR on)
- IR LED, range up to 50 m

DIMENSIONS



IMAGE

Image Sensor	2 MPX CMOS sensor 1/2.8" SONY STARVIS
Number of Effective Pixels	1945 (H) x 1097 (V)
Min. Illumination	0.003 lx/F1.4 - color mode • 0.0003 lx/F1.4 - B/W mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1 s
Wide Dynamic Range (WDR)	yes
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	varifocal, f=2.8 ~ 12 mm/F1.4
-----------	-------------------------------

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

NETWORK

Stream Resolution	1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 480 x 240, 320 x 240 (QVGA)
Frame Rate	30 fps for 1920 x 1080 (Full HD) and lower resolutions
Multistreaming Mode	2 streams
Video/Audio Compression	H.264, H.265, MJPEG/-
Number of Simultaneous Connections	max. 3
Bandwidth	12 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, IPv4/v6, UDP, HTTPS, Multicast, DHCP, DDNS, NTP, RTSP, UPnP, QoS/DSCP, IEEE 802.1X, PPPoE, SMTP, ICMP, Unicast, SSL/TLS
ONVIF Protocol Support	Profile S/G

Vandal Proof IP Starlight Camera NVIP-2VE-6602

Camera Configuration	from Internet Explorer browser • languages: Polish, English, Russian, and others
Compatible Software	NMS, NVR-6000 Viewer
Mobile applications	SuperLive Plus (iPhone, Android)

OTHER FUNCTIONS

Privacy Zones	4 video mask type: single color
Motion Detection	yes
Region of interest (ROI)	3
Image Processing	sharpening, mirror effect, vertical flip, horizontal flip
Prealarm/Postalarm	up to 6 s/up to 120 s
System Reaction to Alarm Events	e-mail with attachment, saving file on SD card
Restoring default settings	via web browser, using reset button, via NMS IPTool software

IR LED

LED Number	2
Range	50 m
Angle	90°

INTERFACES

Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 128GB

INSTALLATION PARAMETERS

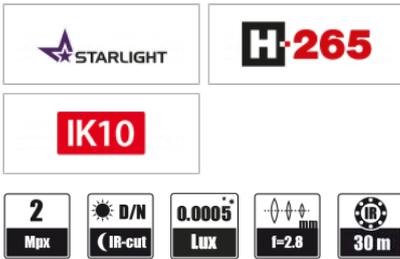
Dimensions (mm)	112 (Φ) x 100 (H)
Weight	0.7 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	vandalproof IK10 impact rating aluminium, white
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	3 W • 8 W (IR on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)

Bullet IP Starlight Camera NVIP-2H-6601-II

6000 VSS IP



KEY FEATURES



- Resolution: 2 MPX
- Lens: fixed focal, $f=2.8$ mm/F2.0
- D/N function - IR cut filter
- microSD card support
- Min. Illumination: 0.0005 lx (0 lx, IR on)
- IR LED, range up to 30 m

DIMENSIONS



IMAGE

Image Sensor	2 MPX CMOS sensor 1/2.8" SmartSens
Number of Effective Pixels	1922 (H) x 1088 (V)
Min. Illumination	0.005 lx/F2.0 - color mode • 0.0005 lx/F2.0 - B/W mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1 s
Wide Dynamic Range (WDR)	yes
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	fixed focal, $f=2.8$ mm/F2.0
-----------	------------------------------

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

NETWORK

Stream Resolution	1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 480 x 240, 320 x 240 (QVGA)
Frame Rate	30 fps for 1920 x 1080 (Full HD) and lower resolutions
Multistreaming Mode	2 streams
Video/Audio Compression	H.264, H.265, MJPEG/G.711
Number of Simultaneous Connections	max. 3
Bandwidth	12 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DDNS, NTP, RTSP, UPnP, QoS/DSCP, IEEE 802.1X, PPPoE, SMTP, ICMP, Unicast, SSL/TLS
ONVIF Protocol Support	Profile S/G

Bullet IP Starlight Camera NVIP-2H-6601-II

Camera Configuration	from Internet Explorer browser • languages: Polish, English, Russian, and others
Compatible Software	NMS, N Control 6000
Mobile applications	SuperLive Plus (iPhone, Android)

OTHER FUNCTIONS

Privacy Zones	4 video mask type: single color
Motion Detection	yes
Region of interest (ROI)	3
Video Content Analysis (VCA)	line cross, zone entrance, Video Blurred
Image Processing	sharpening, mirror effect, vertical flip, horizontal flip
Prealarm/Postalarm	up to 6 s/up to 120 s
System Reaction to Alarm Events	e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card
Restoring default settings	via web browser, using reset button, via NMS IPTool software

IR LED

LED Number	1
Range	30 m
Angle	120°

INTERFACES

Audio Input/Output	1 x Jack (3.5 mm)/-
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 128GB

INSTALLATION PARAMETERS

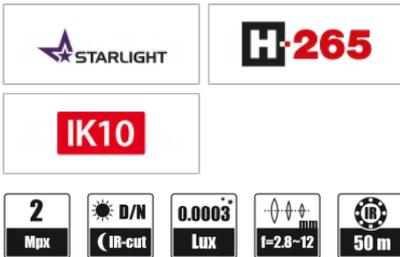
Dimensions (mm)	with bracket: 75 (W) x 75 (H) x 170 (L)
Weight	0.45 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	aluminium, white, fully cable managed wall mount bracket in-set included , IK10 impact rating
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	3 W • 6 W (IR on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)

Bullet IP Starlight Camera NVIP-2H-6602-II

6000 VSS
IP



KEY FEATURES



- Resolution: 2 MPX
- Lens: varifocal, f=2.8 ~ 12 mm/F1.4
- D/N function - IR cut filter
- microSD card support
- Min. Illumination: 0.0003 lx (0 lx, IR on)
- IR LED, range up to 50 m

DIMENSIONS



IMAGE

Image Sensor	2 MPX CMOS sensor 1/2.8" SmartSens
Number of Effective Pixels	1922 (H) x 1088 (V)
Min. Illumination	0.003 lx/F1.4 - color mode • 0.0003 lx/F1.4 - B/W mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1 s
Wide Dynamic Range (WDR)	yes
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	varifocal, f=2.8 ~ 12 mm/F1.4
-----------	-------------------------------

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

NETWORK

Stream Resolution	1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 480 x 240, 320 x 240 (QVGA)
Frame Rate	30 fps for 1920 x 1080 (Full HD) and lower resolutions
Multistreaming Mode	2 streams
Video/Audio Compression	H.264, H.265, MJPEG/G.711
Number of Simultaneous Connections	max. 3
Bandwidth	12 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DDNS, NTP, RTSP, UPnP, QoS/DSCP, IEEE 802.1X, PPPoE, SMTP, ICMP, Unicast, SSL/TLS
ONVIF Protocol Support	Profile S/G

Bullet IP Starlight Camera NVIP-2H-6602-II

Camera Configuration	from Internet Explorer browser • languages: Polish, English, Russian, and others
Compatible Software	NMS, N Control 6000
Mobile applications	SuperLive Plus (iPhone, Android)

OTHER FUNCTIONS

Privacy Zones	4 video mask type: single color
Motion Detection	yes
Region of interest (ROI)	3
Video Content Analysis (VCA)	line cross, zone entrance, Video Blurred
Image Processing	sharpening, mirror effect, vertical flip, horizontal flip
Prealarm/Postalarm	up to 6 s/up to 120 s
System Reaction to Alarm Events	e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card
Restoring default settings	via web browser, using reset button, via NMS IPTool software

IR LED

LED Number	2
Range	50 m
Angle	90°

INTERFACES

Audio Input/Output	1 x RCA/-
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 128GB

INSTALLATION PARAMETERS

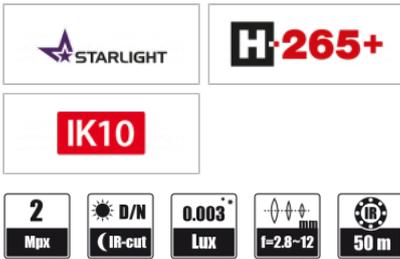
Dimensions (mm)	with bracket: 81 (W) x 81 (H) x 220 (L)
Weight	0.7 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	aluminium, white, fully cable managed wall mount bracket in-set included , IK10 impact rating
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	3 W • 8 W (IR illuminator on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)

Bullet IP Starlight Camera NVIP-2H-6632M

6000 VSS IP



KEY FEATURES



- Resolution: 2 MPX
- Lens: motorized, auto-focus function, f=2.8 ~ 12 mm/F1.4
- MicroSD card support
- D/N function - IR cut filter
- microSD card support
- WDR with double scan sensor
- Min. Illumination: 0.003 lx (0 lx, IR on)
- IR LED, range up to 50 m

DIMENSIONS



IMAGE

Image Sensor	2 MPX CMOS sensor 1/2.8" OmniVision
Number of Effective Pixels	1920 (H) x 1080 (V)
Min. Illumination	0.003 lx/F1.4 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/2 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1/2 s
Wide Dynamic Range (WDR)	yes (double scan sensor), 120dB
Digital Noise Reduction (DNR)	2D, 3D
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	motorized, f=2.8 ~ 12 mm/F1.4
Auto-focus	zoom trigger, day/night mode trigger, manual trigger

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

NETWORK

Stream Resolution	1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 480 x 240, 320 x 240 (QVGA)
Frame Rate	30 fps for 1920 x 1080 (Full HD) and lower resolutions
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.264+, H.265, H.265+, MJPEG/G.711
Number of Simultaneous Connections	max. 3
Bandwidth	12 Mb/s in total
Network Protocols Support	HTTP, IPv4, IPv4/v6, UDP, HTTPS, FTP, DHCP, DDNS, NTP, RTSP, RTP, UPnP, QoS, IEEE 802.1X, PPPoE, SMTP, RTCP, RTMP
ONVIF Protocol Support	Profile S/G
Camera Configuration	from Internet Explorer browser • languages: Polish, English, Russian, and others

Bullet IP Starlight Camera NVIP-2H-6632M

Compatible Software	NMS, N Control 6000
Mobile applications	SuperLive Plus (iPhone, Android)

OTHER FUNCTIONS

Privacy Zones	4 video mask type: single color
Motion Detection	yes
Region of interest (ROI)	8
Video Content Analysis (VCA)	abandoned object, object disappearance, line cross, Scene Change, Video Blurred, Video Color Cast, intrusion detection
Image Processing	90° image rotation, sharpening, mirror effect, corridor mode, vertical flip, horizontal flip
Prealarm/Postalarm	up to 6 s/up to 120 s
System Reaction to Alarm Events	e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card
Restoring default settings	via web browser, using reset button, via NMS IPTool software

IR LED

LED Number	2
Range	50 m
Smart IR	yes (software support)

INTERFACES

Audio Input/Output	1 x Jack (3.5 mm)/-
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 256GB

INSTALLATION PARAMETERS

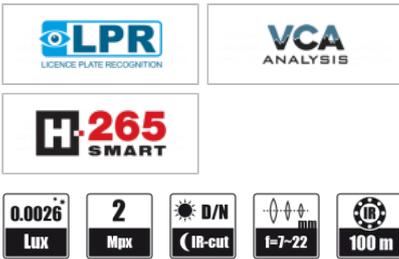
Dimensions (mm)	with bracket: 81 (W) x 81 (H) x 220 (L)
Weight	0.7 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	aluminium, white, fully cable managed wall mount bracket in-set included , IK10 impact rating
Power Supply	12 VDC, PoE (IEEE 802.3af, Class 3)
Surge protection	TVS 4000 V
Power Consumption	4 W • 8.5 W (IR illuminator on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)

Bullet IP LPR Camera with Motor-zoom Lens NVIP-2H-6732M/LPR

6000 VSS PROJECT



KEY FEATURES



- Resolution: 2 MPX
- Lens: motorized, auto-iris and auto-focus function, $f=7 \sim 22$ mm/F1.4
- D/N function - IR cut filter
- Video content analysis
- Licence plate recognition (LPR)
- microSD card support
- WDR with double scan sensor
- two-way audio
- Min. Illumination from 0.0026 lx (0 lx, IR on)
- IR LED, range up to 100 m (depends on current optical zoom value)

DIMENSIONS



IMAGE

Image Sensor	2 MPX CMOS sensor 1/2.8" SONY STARVIS
Number of Effective Pixels	1945 (H) x 1097 (V)
Min. Illumination	0.0026 lx/F1.2 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto: 1/3 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1/3 s
Wide Dynamic Range (WDR)	yes (double scan sensor), 120dB
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	motorized, auto-iris function, $f=7 \sim 22$ mm/F1.4
Auto-focus	zoom trigger, manual trigger

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 600 s
Switching Schedule	yes
Visible Light Sensor	yes

NETWORK

Stream Resolution	1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 480 x 240, 320 x 240 (QVGA)
Frame Rate	60 fps for 1920 x 1080 (Full HD) and lower resolutions
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.264+, H.264 Smart, H.265, H.265+, H.265 Smart, MJPEG/G.711
Number of Simultaneous Connections	max. 10
Bandwidth	40 Mb/s in total
Network Protocols Support	HTTP, IPv4/v6, UDP, HTTPS, FTP, DHCP, DDNS, NTP, RTSP, SNMP, QoS, IEEE 802.1X, PPPoE, SMTP, SSL/TLS
ONVIF Protocol Support	Profile S

Bullet IP LPR Camera with Motor-zoom Lens NVIP-2H-6732M/LPR

Camera Configuration	from Internet Explorer browser • languages: Polish, English, Russian, and others
----------------------	--

Compatible Software	NMS
---------------------	-----

Mobile applications	SuperLive Plus (iPhone, Android)
---------------------	----------------------------------

OTHER FUNCTIONS

Privacy Zones	4 video mask type: single color or 1 video mask type: mosaic
---------------	--

Motion Detection	yes
------------------	-----

Region of interest (ROI)	8
--------------------------	---

Video Content Analysis (VCA)	tamper, zone entrance, zone exit
------------------------------	----------------------------------

Image Processing	180° image rotation, sharpening, mirror effect, corridor mode
------------------	---

Prealarm/Postalarm	up to 6 s/up to 120 s
--------------------	-----------------------

System Reaction to Alarm Events	e-mail with attachment, saving file on FTP server, saving file on SD card
---------------------------------	---

Restoring default settings	using reset button, via NMS IPTool software
----------------------------	---

LICENCE PLATE RECOGNITION (LPR)

Autonomous operation mode	yes - recognition function implemented in the camera
---------------------------	--

Capacity of License Plate Database	up to 10000 license plates, on all lists.
------------------------------------	---

Types of recognized number plates	all countries of the European Union / CIS countries
-----------------------------------	---

Barrier control	yes - built-in relay output
-----------------	-----------------------------

Recommended maximum speed of the vehicle	up to 70 km/h
--	---------------

Reactions for the licence plate recognition	alarm output activation
---	-------------------------

IR LED

LED Number	6
------------	---

Range	up to 100 m (depends on current optical zoom value)
-------	---

Angle	up to 50° (depends on current optical zoom value)
-------	---

Smart IR	yes (software support)
----------	------------------------

INTERFACES

Audio Input/Output	1 x RCA/1 x RCA
--------------------	-----------------

Alarm Input/Output	1 (NO/NC)/1 relay type
--------------------	------------------------

Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
-------------------	---

Memory Card Slot	microSD - capacity up to 128GB
------------------	--------------------------------

INSTALLATION PARAMETERS

Dimensions (mm)	with bracket: 100 (W) x 89 (H) x 280 (L)
-----------------	--

Weight	1.1 kg
--------	--------

Degree of Protection	IP 67 (details in the user's manual)
----------------------	--------------------------------------

Enclosure	aluminium, white, fully cable managed wall mount bracket in-set included
-----------	--

Power Supply	PoE, 12 VDC
--------------	-------------

Surge protection	TVS 4000 V
------------------	------------

Power Consumption	4 W • 11 W (IR on)
-------------------	--------------------

Operating Temperature	-30°C ~ 60°C
-----------------------	--------------



Bullet IP LPR Camera with Motor-zoom Lens **NVIP-2H-6732M/LPR**

Humidity

max. 95%, relative (non-condensing)



IP Camera with video content analysis based on Deep Learning

NVIP-4C-6500/F

6000 VSS IP



KEY FEATURES



- Resolution: 4 MPX
- two-way audio
- D/N function - IR cut filter
- Video content analysis based on Deep Learning
- microSD card support
- WDR with double scan sensor
- Min. Illumination from 0.0028 lx

DIMENSIONS



IMAGE

Image Sensor	4 MPX CMOS sensor 1/3" SmartSens
Number of Effective Pixels	2592 (H) x 1520 (V)
Min. Illumination	0.0028 lx/F1.2 - color mode • 0.001 lx/F1.2 - B/W mode
Electronic Shutter	auto/manual: 1/3 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1/3 s
Wide Dynamic Range (WDR)	yes (double scan sensor), 120dB
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Compatible Mount Type	CS
Iris Mode	D

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes

NETWORK

Stream Resolution	2592 x 1520, 2560 x 1440 (QHD), 2304 x 1296, 1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 480 x 240, 320 x 240 (QVGA)
Frame Rate	30 fps for each resolution • 60 fps for 1920 x 1080 (Full HD) and lower resolutions
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.264+, H.264 Smart, H.265, H.265+, H.265 Smart, MJPEG/G.711
Number of Simultaneous Connections	max. 10
Bandwidth	60 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DDNS, NTP, RTSP, UPnP, SNMP, QoS, IEEE 802.1X, PPPoE, SMTP, ICMP, Unicast, SSL/TLS
ONVIF Protocol Support	Profile S/G

IP Camera with video content analysis based on Deep Learning

NVIP-4C-6500/F

Camera Configuration	from Internet Explorer browser • languages: Polish, English, Russian, and others
Compatible Software	NMS, NVR-6000 Viewer
Mobile applications	SuperLive Plus (iPhone, Android)

OTHER FUNCTIONS

Privacy Zones	4 video mask type: single color or 1 video mask type: mosaic
Motion Detection	yes
Region of interest (ROI)	8
Video Content Analysis (VCA)	tamper, abandoned object, object disappearance, line cross, zone entrance, zone exit, object counting, face detection, detection of people not wearing masks, pedestrian detection, cross counting, Scene Change, Video Blurred, Video Color Cast, objects distinguishing, people counting, vehicle detection, vehicle counting
Image Processing	180° image rotation, sharpening, mirror effect, corridor mode, vertical flip, horizontal flip, lens distortion correction
Prealarm/Postalarm	up to 6 s/up to 120 s
System Reaction to Alarm Events	e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card, alarm output activation
Restoring default settings	via web browser, using reset button, via NMS IPTool software

INTERFACES

Video Output	BNC, 1.0 Vp-p, 75 Ohm
Audio Input/Output	1 x Jack (3.5 mm)/1 x Jack (3.5 mm) built-in microphone
Alarm Input/Output	2 (NO/NC)/2 relay type
RS-485	yes
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 128GB

INSTALLATION PARAMETERS

Dimensions (mm)	79 (W) x 64 (H) x 161 (L)
Weight	0.5 kg
Enclosure	aluminium, white
Power Supply	PoE, 12 VDC, 24 VAC
Surge protection	TVS 4000 V
Power Consumption	11 W
Operating Temperature	-30°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)

* Lens not included

IP Camera with video content analysis based on Deep Learning

NVIP-4V-6511/F

6000 VSS IP



KEY FEATURES



- Resolution: 4 MPX
- Lens: fixed focal, $f=2.8$ mm/F1.6
- Human/Vehicle Object Classification
- D/N function - IR cut filter
- Video content analysis based on Deep Learning
- microSD card support
- WDR with double scan sensor
- Min. Illumination: 0.005 lx (0 lx, IR on)
- IR LED, range up to 20 m

DIMENSIONS



IMAGE

Image Sensor	4 MPX CMOS sensor 1/3" SmartSens
Number of Effective Pixels	2592 (H) x 1520 (V)
Min. Illumination	0.005 lx/F1.6 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/3 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1/3 s
Wide Dynamic Range (WDR)	yes (double scan sensor), 120dB
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	fixed focal, $f=2.8$ mm/F1.6
-----------	------------------------------

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

NETWORK

Stream Resolution	2592 x 1520, 2560 x 1440 (QHD), 2304 x 1296, 1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 480 x 240, 320 x 240 (QVGA)
Frame Rate	30 fps for 2592 x 1520 • 60 fps for 1920 x 1080 (Full HD) and lower resolutions
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.264+, H.264 Smart, H.265, H.265+, H.265 Smart, MJPEG/G.711
Number of Simultaneous Connections	max. 10
Bandwidth	60 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DDNS, NTP, RTSP, UPnP, SNMP, QoS/DSCP, IEEE 802.1X, PPPoE, SMTP, ICMP, Unicast, SSL/TLS
ONVIF Protocol Support	Profile S/G

IP Camera with video content analysis based on Deep Learning

NVIP-4V-6511/F

Camera Configuration	from Internet Explorer browser • languages: Polish, English, Russian, and others
Compatible Software	NMS, NVR-6000 Viewer
Mobile applications	SuperLive Plus (iPhone, Android)

OTHER FUNCTIONS

Privacy Zones	4 video mask type: single color or 1 video mask type: mosaic
Motion Detection	yes
Region of interest (ROI)	8
Video Content Analysis (VCA)	tamper, abandoned object, object disappearance, line cross, zone entrance, zone exit, object counting, face detection, detection of people not wearing masks, pedestrian detection, cross counting, Scene Change, Video Blurred, Video Color Cast, objects distinguishing, people counting, vehicle detection, vehicle counting
Image Processing	180° image rotation, sharpening, mirror effect, corridor mode, vertical flip, horizontal flip, lens distortion correction
Prealarm/Postalarm	up to 6 s/up to 120 s
System Reaction to Alarm Events	e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card
Restoring default settings	via web browser, using reset button, via NMS IPTool software

IR LED

LED Number	2
Range	20 m
Smart IR	yes (software support)

INTERFACES

Audio Input/Output	1 x Jack (3.5 mm)/- built-in microphone
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 128GB

INSTALLATION PARAMETERS

Dimensions (mm)	110 (Φ) x 60 (H)
Weight	0.4 kg
Degree of Protection	IP 66 (details in the user's manual)
Enclosure	vandalproof IK10 impact rating aluminium, white
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	4 W • 6 W (IR on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)

IP Camera with video content analysis based on Deep Learning

NVIP-4VE-6501/F-II

6000 VSS IP



KEY FEATURES



- Resolution: 4 MPX
- Lens: fixed focal, f=2.8 mm/F1.6
- built-in microphone
- D/N function - IR cut filter
- Video content analysis based on Deep Learning
- microSD card support
- IR LED, range up to 30 m

DIMENSIONS



The camera creates a fully functional face recognition system when used with selected IP Series 6000 DVRs (models with "F" in the name).

IMAGE

Image Sensor	4 MPX CMOS sensor 1/3" SmartSens
Number of Effective Pixels	2688 (H) x 1520 (V)
Min. Illumination	0.005 lx/F1.6 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto: 1/2 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1/2 s
Wide Dynamic Range (WDR)	yes (double scan sensor), 120dB
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	fixed focal, f=2.8 mm/F1.6
-----------	----------------------------

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

NETWORK

Stream Resolution	2592 x 1520, 2560 x 1440 (QHD), 2304 x 1296, 1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 480 x 240, 320 x 240 (QVGA)
Frame Rate	30 fps for 2592 x 1520 • 60 fps for 1920 x 1080 (Full HD) and lower resolutions
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.264+, H.265, H.265+, MJPEG/G.711
Number of Simultaneous Connections	max. 10
Bandwidth	50 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, IPv4/v6, UDP, HTTPS, FTP, DHCP, DDNS, NTP, RTSP, RTP, UPnP, SNMP, QoS, IEEE 802.1X, PPPoE, SMTP, RTCP

IP Camera with video content analysis based on Deep Learning

NVIP-4VE-6501/F-II

ONVIF Protocol Support	Profile S/G
Camera Configuration	from Internet Explorer, Chrome, Opera, Safari browser • languages: Polish, English, Russian, and others
Compatible Software	NMS, N Control 6000
Mobile applications	SuperLive Plus (iPhone, Android)

OTHER FUNCTIONS

Privacy Zones	4 video mask type: single color or 4 video mask type: mosaic
Motion Detection	yes
Region of interest (ROI)	8
Video Content Analysis (VCA)	tamper, abandoned object, object disappearance, line cross, zone entrance, zone exit, object counting, face detection, detection of people not wearing masks, pedestrian detection, cross counting, heat map, Scene Change, Video Blurred, Video Color Cast, objects distinguishing, people counting, vehicle counting, intrusion detection
Image Processing	180° image rotation, sharpening, mirror effect, corridor mode, vertical flip, horizontal flip, lens distortion correction
Prealarm/Postalarm	up to 6 s/up to 120 s
System Reaction to Alarm Events	e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card
Restoring default settings	via web browser, using reset button, via NMS IPTool software

IR LED

LED Number	1
Range	30 m
Smart IR	yes (software support)

INTERFACES

Audio Input/Output	1 x Jack (3.5 mm)/- built-in microphone
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 256GB

INSTALLATION PARAMETERS

Dimensions (mm)	94 (Φ) x 83 (H)
Weight	0.5 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	vandalproof IK10 impact rating aluminium, white
Power Supply	12 VDC, PoE (IEEE 802.3af, Class 3)
Surge protection	TVS 4000 V
Power Consumption	4 W • 7 W (IR illuminator on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)

IP Camera with video content analysis based on Deep Learning

NVIP-4VE-6502M/F-II

6000 VSS IP



KEY FEATURES



- Resolution: 4 MPX
- Lens: motorized, auto-focus function, f=2.8 ~ 12 mm/F0
- built-in microphone
- D/N function - IR cut filter
- Video content analysis based on Deep Learning
- microSD card support
- Min. Illumination: 0.003 lx (0 lx, IR on)
- IR LED, range up to 50 m

DIMENSIONS



The camera creates a fully functional face recognition system when used with selected IP Series 6000 DVRs (models with "F" in the name).

IMAGE

Image Sensor	4 MPX CMOS sensor 1/3" SmartSens
Number of Effective Pixels	2688 (H) x 1520 (V)
Min. Illumination	0.003 lx/F1.3 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto: 1/2 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1/2 s
Wide Dynamic Range (WDR)	yes 120dB
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	motorized, f=2.8 ~ 12 mm/F1.3
-----------	-------------------------------

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

NETWORK

Stream Resolution	2592 x 1520, 2560 x 1440 (QHD), 2304 x 1296, 1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 480 x 240, 320 x 240 (QVGA)
Frame Rate	30 fps for 2592 x 1520 • 60 fps for 1920 x 1080 (Full HD) and lower resolutions
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.264+, H.265, H.265+, MJPEG/G.711
Number of Simultaneous Connections	max. 10
Bandwidth	50 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, IPv4/v6, UDP, HTTPS, FTP, DHCP, DDNS, NTP, RTSP, RTP, UPnP, SNMP, QoS, IEEE 802.1X, PPPoE, SMTP, RTCP

IP Camera with video content analysis based on Deep Learning

NVIP-4VE-6502M/F-II

ONVIF Protocol Support	Profile S/G
Camera Configuration	from Internet Explorer, Chrome, Opera, Safari browser • languages: Polish, English, Russian, and others
Compatible Software	NMS, N Control 6000
Mobile applications	SuperLive Plus (iPhone, Android)

OTHER FUNCTIONS

Privacy Zones	4 video mask type: single color or 4 video mask type: mosaic
Motion Detection	yes
Region of interest (ROI)	8
Video Content Analysis (VCA)	tamper, abandoned object, object disappearance, line cross, zone entrance, zone exit, object counting, face detection*, detection of people not wearing masks, pedestrian detection, cross counting, heat map, Scene Change, Video Blurred, Video Color Cast, objects distinguishing, people counting, vehicle counting, intrusion detection
Image Processing	180° image rotation, sharpening, mirror effect, corridor mode, vertical flip, horizontal flip, lens distortion correction
Prealarm/Postalarm	up to 6 s/up to 120 s
System Reaction to Alarm Events	e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card
Restoring default settings	via web browser, using reset button, via NMS IPTool software

IR LED

LED Number	3
Range	50 m
Smart IR	yes (software support)

INTERFACES

Audio Input/Output	1 x Jack (3.5 mm)/- built-in microphone
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 256GB

INSTALLATION PARAMETERS

Dimensions (mm)	112 (Φ) x 100 (H)
Weight	0.5 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	vandalproof IK10 impact rating aluminium, white
Power Supply	12 VDC, PoE (IEEE 802.3af, Class 3)
Surge protection	TVS 4000 V
Power Consumption	5 W • 9.5 W (IR illuminator on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)

IP Camera with video content analysis based on Deep Learning

NVIP-4VE-6502M/F-II/7043



6000 VSS
IP

KEY FEATURES



- Resolution: 4 MPX
- Lens: motorized, auto-focus function, f=2.8 ~ 12 mm/F1.3
- built-in microphone
- D/N function - IR cut filter
- Video content analysis based on Deep Learning
- microSD card support
- Min. Illumination: 0.003 lx (0 lx, IR on)
- IR LED, range up to 50 m

DIMENSIONS



The camera creates a fully functional face recognition system when used with selected IP Series 6000 DVRs (models with "F" in the name).

IMAGE

Image Sensor	4 MPX CMOS sensor 1/3" SmartSens
Number of Effective Pixels	2688 (H) x 1520 (V)
Min. Illumination	0.003 lx/F1.3 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto: 1/2 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1/2 s
Wide Dynamic Range (WDR)	yes 120dB
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	motorized, f=2.8 ~ 12 mm/F1.3
-----------	-------------------------------

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

NETWORK

Stream Resolution	2592 x 1520, 2560 x 1440 (QHD), 2304 x 1296, 1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 480 x 240, 320 x 240 (QVGA)
Frame Rate	30 fps for 2592 x 1520 • 60 fps for 1920 x 1080 (Full HD) and lower resolutions
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.264+, H.265, H.265+, MJPEG/G.711
Number of Simultaneous Connections	max. 10
Bandwidth	50 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, IPv4/v6, UDP, HTTPS, FTP, DHCP, DDNS, NTP, RTSP, RTP, UPnP, SNMP, QoS, IEEE 802.1X, PPPoE, SMTP, RTCP

IP Camera with video content analysis based on Deep Learning

NVIP-4VE-6502M/F-II/7043

ONVIF Protocol Support	Profile S/G
Camera Configuration	from Internet Explorer, Chrome, Opera, Safari browser • languages: Polish, English, Russian, and others
Compatible Software	NMS, N Control 6000
Mobile applications	SuperLive Plus (iPhone, Android)

OTHER FUNCTIONS

Privacy Zones	4 video mask type: single color or 4 video mask type: mosaic
Motion Detection	yes
Region of interest (ROI)	8
Video Content Analysis (VCA)	tamper, abandoned object, object disappearance, line cross, zone entrance, zone exit, object counting, face detection*, detection of people not wearing masks, pedestrian detection, cross counting, heat map, Scene Change, Video Blurred, Video Color Cast, objects distinguishing, people counting, vehicle counting, intrusion detection
Image Processing	180° image rotation, sharpening, mirror effect, corridor mode, vertical flip, horizontal flip, lens distortion correction
Prealarm/Postalarm	up to 6 s/up to 120 s
System Reaction to Alarm Events	e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card
Restoring default settings	via web browser, using reset button, via NMS IPTool software

IR LED

LED Number	3
Range	50 m
Smart IR	yes (software support)

INTERFACES

Audio Input/Output	1 x Jack (3.5 mm)/- built-in microphone
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 256GB

INSTALLATION PARAMETERS

Dimensions (mm)	112 (Φ) x 100 (H)
Weight	0.5 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	vandalproof IK10 impact rating aluminium, grey
Power Supply	12 VDC, PoE (IEEE 802.3af, Class 3)
Surge protection	TVS 4000 V
Power Consumption	5 W • 9.5 W (IR illuminator on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)

IP Camera with video content analysis based on Deep Learning

NVIP-4H-6511/F-II



KEY FEATURES



- Resolution: 4 MPX
- Lens: fixed focal, f=2.8 mm/F1.6
- microSD card support
- D/N function - IR cut filter
- Video content analysis based on Deep Learning
- microSD card support
- IR LED, range up to 50 m

DIMENSIONS



The camera creates a fully functional face recognition system when used with selected IP Series 6000 DVRs (models with "F" in the name).

IMAGE

Image Sensor	4 MPX CMOS sensor 1/3" SmartSens
Number of Effective Pixels	2688 (H) x 1520 (V)
Min. Illumination	0.005 lx/F1.6 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto: 1/2 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1/2 s
Wide Dynamic Range (WDR)	yes 120dB
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	fixed focal, f=2.8 mm/F1.6
-----------	----------------------------

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

NETWORK

Stream Resolution	2592 x 1520, 2560 x 1440 (QHD), 2304 x 1296, 1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 480 x 240, 320 x 240 (QVGA)
Frame Rate	30 fps for 2592 x 1520 • 60 fps for 1920 x 1080 (Full HD) and lower resolutions
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.264+, H.265, H.265+, MJPEG/G.711
Number of Simultaneous Connections	max. 10
Bandwidth	50 Mb/s in total

IP Camera with video content analysis based on Deep Learning

NVIP-4H-6511/F-II

Network Protocols Support	HTTP, TCP/IP, IPv4, IPv4/v6, UDP, HTTPS, FTP, DHCP, DDNS, NTP, RTSP, RTP, UPnP, SNMP, QoS, IEEE 802.1X, PPPoE, SMTP, RTCP
ONVIF Protocol Support	Profile S/G
Camera Configuration	from Internet Explorer, Chrome, Opera, Safari browser • languages: Polish, English, Russian, and others
Compatible Software	NMS, N Control 6000
Mobile applications	SuperLive Plus (iPhone, Android)

OTHER FUNCTIONS

Privacy Zones	4 video mask type: single color or 4 video mask type: mosaic
Motion Detection	yes
Region of interest (ROI)	8
Video Content Analysis (VCA)	tamper, abandoned object, object disappearance, line cross, zone entrance, zone exit, object counting, face detection*, detection of people not wearing masks, pedestrian detection, cross counting, heat map, Scene Change, Video Blurred, Video Color Cast, objects distinguishing, people counting, vehicle counting, intrusion detection
Image Processing	180° image rotation, sharpening, mirror effect, corridor mode, vertical flip, horizontal flip, lens distortion correction
Prealarm/Postalarm	up to 6 s/up to 120 s
System Reaction to Alarm Events	e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card
Restoring default settings	via web browser, using reset button, via NMS IPTool software

IR LED

LED Number	2
Range	50 m
Smart IR	yes (software support)

INTERFACES

Audio Input/Output	1 x Jack (3.5 mm)/-
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 256GB

INSTALLATION PARAMETERS

Dimensions (mm)	with bracket: 81 (W) x 81 (H) x 220 (L)
Weight	0.66 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	aluminium, white, fully cable managed wall mount bracket in-set included, IK10 impact rating
Power Supply	12 VDC, PoE (IEEE 802.3af, Class 3)
Surge protection	TVS 4000 V
Power Consumption	4 W • 9 W (IR illuminator on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)

IP Motor-zoom Camera with video content analysis based on Deep Learning

NVIP-4H-6502M/F

6000 VSS IP



KEY FEATURES



- Resolution: 4 MPX
- Lens: motorized, auto-iris and auto-focus function, f=2.8 ~ 12 mm/F1.4
- Human/Vehicle Object Classification
- D/N function - IR cut filter
- Video content analysis based on Deep Learning
- microSD card support
- WDR with double scan sensor
- Min. Illumination: 0.004 lx (0 lx, IR on)
- IR LED, range up to 50 m

DIMENSIONS



IMAGE

Image Sensor	4 MPX CMOS sensor 1/3" SmartSens
Number of Effective Pixels	2592 (H) x 1520 (V)
Min. Illumination	0.004 lx/F1.4 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/3 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1/3 s
Wide Dynamic Range (WDR)	yes (double scan sensor), 120dB
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	motorized, auto-iris function, f=2.8 ~ 12 mm/F1.4
Auto-focus	zoom trigger, day/night mode trigger, manual trigger

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

NETWORK

Stream Resolution	2592 x 1520, 2560 x 1440 (QHD), 2304 x 1296, 1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 480 x 240, 320 x 240 (QVGA)
Frame Rate	30 fps for 2592 x 1520 • 60 fps for 1920 x 1080 (Full HD) and lower resolutions
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.264+, H.264 Smart, H.265, H.265+, H.265 Smart, MJPEG/G.711
Number of Simultaneous Connections	max. 10
Bandwidth	60 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DDNS, NTP, RTSP, UPnP, SNMP, QoS/DSCP, IEEE 802.1X, PPPoE, SMTP, ICMP, Unicast, SSL/TLS

IP Motor-zoom Camera with video content analysis based on Deep Learning

NVIP-4H-6502M/F

ONVIF Protocol Support	Profile S/G
Camera Configuration	from Internet Explorer browser • languages: Polish, English, Russian, and others
Compatible Software	NMS, NVR-6000 Viewer
Mobile applications	SuperLive Plus (iPhone, Android)

OTHER FUNCTIONS

Privacy Zones	4 video mask type: single color or 1 video mask type: mosaic
Motion Detection	yes
Region of interest (ROI)	8
Video Content Analysis (VCA)	tamper, abandoned object, object disappearance, line cross, zone entrance, zone exit, object counting, face detection, detection of people not wearing masks, pedestrian detection, cross counting, Scene Change, Video Blurred, Video Color Cast, objects distinguishing, people counting, vehicle detection, vehicle counting
Image Processing	180° image rotation, sharpening, mirror effect, corridor mode, vertical flip, horizontal flip, lens distortion correction
Prealarm/Postalarm	up to 6 s/up to 120 s
System Reaction to Alarm Events	e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card
Restoring default settings	via web browser, using reset button, via NMS IPTool software

IR LED

LED Number	2
Range	50 m
Smart IR	yes (software support)

INTERFACES

Audio Input/Output	1 x Jack (3.5 mm)/-
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 128GB

INSTALLATION PARAMETERS

Dimensions (mm)	with bracket: 81 (W) x 81 (H) x 220 (L)
Weight	0.7 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	aluminium, white, fully cable managed wall mount bracket in-set included, IK10 impact rating
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	6 W • 10 W (IR on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)

IP Camera with video content analysis based on Deep Learning

NVIP-4H-6502M/F-II/7043

6000 VSS IP



KEY FEATURES



- Resolution: 4 MPX
- Lens: motorized, auto-focus function, f=2.8 ~ 12 mm/F1.3
- Human/Vehicle Object Classification
- D/N function - IR cut filter
- Video content analysis based on Deep Learning
- microSD card support
- Min. Illumination: 0.003 lx (0 lx, IR on)
- IR LED, range up to 50 m

DIMENSIONS



The camera creates a fully functional face recognition system when used with selected IP Series 6000 DVRs (models with "F" in the name).

IMAGE

Image Sensor	4 MPX CMOS sensor 1/3" SmartSens
Number of Effective Pixels	2688 (H) x 1520 (V)
Min. Illumination	0.003 lx/F1.3 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto: 1/2 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1/2 s
Wide Dynamic Range (WDR)	yes 120dB
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	motorized, f=2.8 ~ 12 mm/F1.3
-----------	-------------------------------

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

NETWORK

Stream Resolution	2592 x 1520, 2560 x 1440 (QHD), 2304 x 1296, 1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 480 x 240, 320 x 240 (QVGA)
Frame Rate	30 fps for 2592 x 1520 • 60 fps for 1920 x 1080 (Full HD) and lower resolutions
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.264+, H.265, H.265+, MJPEG/G.711
Number of Simultaneous Connections	max. 10
Bandwidth	50 Mb/s in total

IP Camera with video content analysis based on Deep Learning

NVIP-4H-6502M/F-II/7043

Network Protocols Support	HTTP, TCP/IP, IPv4, IPv4/v6, UDP, HTTPS, FTP, DHCP, DDNS, NTP, RTSP, RTP, UPnP, SNMP, QoS, IEEE 802.1X, PPPoE, SMTP, RTCP, RTMP
ONVIF Protocol Support	Profile S/G
Camera Configuration	from Internet Explorer, Chrome, Opera, Safari browser • languages: Polish, English, Russian, and others
Compatible Software	NMS, N Control 6000
Mobile applications	SuperLive Plus (iPhone, Android)

OTHER FUNCTIONS

Privacy Zones	4 video mask type: single color or 4 video mask type: mosaic
Motion Detection	yes
Region of interest (ROI)	8
Video Content Analysis (VCA)	tamper, abandoned object, object disappearance, line cross, zone entrance, zone exit, object counting, face detection*, detection of people not wearing masks, pedestrian detection, cross counting, heat map, Scene Change, Video Blurred, Video Color Cast, objects distinguishing, people counting, vehicle counting, intrusion detection
Image Processing	90° image rotation, 180° image rotation, sharpening, mirror effect, corridor mode, vertical flip, horizontal flip, lens distortion correction
Prealarm/Postalarm	up to 6 s/up to 120 s
System Reaction to Alarm Events	e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card
Restoring default settings	via web browser, using reset button, via NMS IPTool software

IR LED

LED Number	3
Range	50 m
Smart IR	yes (software support)

INTERFACES

Audio Input/Output	1 x Jack (3.5 mm)/-
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 256GB

INSTALLATION PARAMETERS

Dimensions (mm)	with bracket: 81 (W) x 81 (H) x 220 (L)
Weight	0.66 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	aluminium, grey, fully cable managed wall mount bracket in-set included, IK10 impact rating
Power Supply	12 VDC, PoE (IEEE 802.3af, Class 3)
Surge protection	TVS 4000 V
Power Consumption	6 W • 9 W (IR illuminator on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)

IP Motor-zoom Camera with video content analysis based on Deep Learning

NVIP-4H-6522M/F



6000 VSS IP

KEY FEATURES



- Resolution: 4 MPX
- Lens: motorized, auto-iris and auto-focus function, f=2.8 ~ 12 mm/F1.4
- Human/Vehicle Object Classification
- D/N function - IR cut filter
- Video content analysis based on Deep Learning
- microSD card support
- WDR with double scan sensor
- Min. Illumination: 0.004 lx (0 lx, IR on)
- IR LED, range up to 70 m

DIMENSIONS



IMAGE

Image Sensor	4 MPX CMOS sensor 1/3" SmartSens
Number of Effective Pixels	2592 (H) x 1520 (V)
Min. Illumination	0.004 lx/F1.4 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/3 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1/3 s
Wide Dynamic Range (WDR)	yes (double scan sensor), 120dB
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	motorized, auto-iris function, f=2.8 ~ 12 mm/F1.4
Auto-focus	zoom trigger, day/night mode trigger, manual trigger

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

NETWORK

Stream Resolution	2592 x 1520, 2560 x 1440 (QHD), 2304 x 1296, 1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 480 x 240, 320 x 240 (QVGA)
Frame Rate	30 fps for 2592 x 1520 • 60 fps for 1920 x 1080 (Full HD) and lower resolutions
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.264+, H.264 Smart, H.265, H.265+, H.265 Smart, MJPEG/G.711
Number of Simultaneous Connections	max. 10
Bandwidth	60 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DDNS, NTP, RTSP, UPnP, SNMP, QoS/DSCP, IEEE 802.1X, PPPoE, SMTP, ICMP, Unicast, SSL/TLS

IP Motor-zoom Camera with video content analysis based on Deep Learning

NVIP-4H-6522M/F

ONVIF Protocol Support	Profile S/G
Camera Configuration	from Internet Explorer browser • languages: Polish, English, Russian, and others
Compatible Software	NMS, NVR-6000 Viewer
Mobile applications	SuperLive Plus (iPhone, Android)

OTHER FUNCTIONS

Privacy Zones	4 video mask type: single color or 1 video mask type: mosaic
Motion Detection	yes
Region of interest (ROI)	8
Video Content Analysis (VCA)	tamper, abandoned object, object disappearance, line cross, zone entrance, zone exit, object counting, face detection, detection of people not wearing masks, pedestrian detection, cross counting, Scene Change, Video Blurred, Video Color Cast, objects distinguishing, people counting, vehicle detection, vehicle counting
Image Processing	180° image rotation, sharpening, mirror effect, corridor mode, vertical flip, horizontal flip, lens distortion correction
Prealarm/Postalarm	up to 6 s/up to 120 s
System Reaction to Alarm Events	e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card, alarm output activation
Restoring default settings	via web browser, using reset button, via NMS IPTool software

IR LED

LED Number	4
Range	70 m
Smart IR	yes (software support)

INTERFACES

Video Output	BNC, 1.0 Vp-p, 75 Ohm
Audio Input/Output	1 x Jack (3.5 mm)/1 x Jack (3.5 mm)
Alarm Input/Output	1 (NO/NC)/1 relay type
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 128GB

INSTALLATION PARAMETERS

Dimensions (mm)	with bracket: 101 (W) x 89 (H) x 280 (L)
Weight	1.1 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	aluminium, white, fully cable managed wall mount bracket in-set included, IK10 impact rating
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	7.5 W • 14 W (IR on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)

IP Motor-zoom Camera with video content analysis based on Deep Learning

NVIP-4H-6532M/F

6000 VSS IP



KEY FEATURES



- Resolution: 4 MPX
- Lens: motorized, auto-iris and auto-focus function, $f=7 \sim 22$ mm/F1.6
- Human/Vehicle Object Classification
- D/N function - IR cut filter
- Video content analysis based on Deep Learning
- microSD card support
- WDR with double scan sensor
- Min. Illumination: 0.005 lx (0 lx, IR on)
- IR LED, range up to 100 m (depends on current optical zoom value)

DIMENSIONS



IMAGE

Image Sensor	4 MPX CMOS sensor 1/3" SmartSens
Number of Effective Pixels	2592 (H) x 1520 (V)
Min. Illumination	0.005 lx/F1.6 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/3 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1/3 s
Wide Dynamic Range (WDR)	yes (double scan sensor), 120dB
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	motorized, auto-iris function, $f=7 \sim 22$ mm/F1.6
Auto-focus	zoom trigger, day/night mode trigger, manual trigger

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

NETWORK

Stream Resolution	2592 x 1520, 2560 x 1440 (QHD), 2304 x 1296, 1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 480 x 240, 320 x 240 (QVGA)
Frame Rate	30 fps for 2592 x 1520 • 60 fps for 1920 x 1080 (Full HD) and lower resolutions
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.264+, H.264 Smart, H.265, H.265+, H.265 Smart, MJPEG/G.711
Number of Simultaneous Connections	max. 10
Bandwidth	60 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DDNS, NTP, RTSP, UPnP, SNMP, QoS/DSCP, IEEE 802.1X, PPPoE, SMTP, ICMP, Unicast, SSL/TLS

IP Motor-zoom Camera with video content analysis based on Deep Learning

NVIP-4H-6532M/F

ONVIF Protocol Support	Profile S/G
Camera Configuration	from Internet Explorer browser • languages: Polish, English, Russian, and others
Compatible Software	NMS, NVR-6000 Viewer
Mobile applications	SuperLive Plus (iPhone, Android)

OTHER FUNCTIONS

Privacy Zones	4 video mask type: single color or 1 video mask type: mosaic
Motion Detection	yes
Region of interest (ROI)	8
Video Content Analysis (VCA)	tamper, abandoned object, object disappearance, line cross, zone entrance, zone exit, object counting, face detection, detection of people not wearing masks, pedestrian detection, cross counting, Scene Change, Video Blurred, Video Color Cast, objects distinguishing, people counting, vehicle detection, vehicle counting
Image Processing	180° image rotation, sharpening, mirror effect, corridor mode, vertical flip, horizontal flip, lens distortion correction
Prealarm/Postalarm	up to 6 s/up to 120 s
System Reaction to Alarm Events	e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card, alarm output activation
Restoring default settings	via web browser, using reset button, via NMS IPTool software

IR LED

LED Number	6
Range	up to 100 m (depends on current optical zoom value)
Smart IR	yes (software support)

INTERFACES

Video Output	BNC, 1.0 Vp-p, 75 Ohm
Audio Input/Output	1 x Jack (3.5 mm)/1 x Jack (3.5 mm)
Alarm Input/Output	1 (NO/NC)/1 relay type
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 128GB

INSTALLATION PARAMETERS

Dimensions (mm)	with bracket: 101 (W) x 89 (H) x 280 (L)
Weight	1.1 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	aluminium, white, fully cable managed wall mount bracket in-set included, IK10 impact rating
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	7.5 W • 14 W (IR on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)

Vandal Proof IP Camera with Motor-zoom Lens

NVIP-5V-6202M



6000 VSS IP

KEY FEATURES



- Resolution: 5 MPX
- Lens: motorized, auto-iris and auto-focus function, f=2.8 ~ 12 mm/F1.4
- MicroSD card support
- D/N function - IR cut filter
- Video content analysis
- microSD card support
- Min. Illumination: 0.01 lx (0 lx, IR on)
- IR LED, range up to 50 m

DIMENSIONS



IMAGE

Image Sensor	5 MPX CMOS sensor 1/2.7" SmartSens
Number of Effective Pixels	2608 (H) x 1960 (V)
Min. Illumination	0.01 lx/F1.4 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/2 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1/2 s
Wide Dynamic Range (WDR)	yes
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	motorized, auto-iris function, f=2.8 ~ 12 mm/F1.4
Auto-focus	zoom trigger, day/night mode trigger, manual trigger

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

NETWORK

Stream Resolution	2592 x 1944, 2560 x 1440 (QHD), 1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 480 x 240, 320 x 240 (QVGA)
Frame Rate	30 fps for 2560 x 1440 (QHD) • 25 fps for 2592 x 1944, 1920 x 1080 (Full HD) and lower resolutions
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.265/-
Number of Simultaneous Connections	max. 4
Bandwidth	16 Mb/s in total
Network Protocols Support	HTTP, IPv4, IPv4/v6, UDP, HTTPS, FTP, DHCP, DDNS, NTP, RTSP, UPnP, QoS, IEEE 802.1X, PPPoE, SMTP
ONVIF Protocol Support	Profile S

Vandal Proof IP Camera with Motor-zoom Lens NVIP-5V-6202M

Camera Configuration	from Internet Explorer browser • languages: Polish, English, Russian, and others
Compatible Software	NMS, N Control 6000
Mobile applications	SuperLive Plus (iPhone, Android)

OTHER FUNCTIONS

Privacy Zones	4 video mask type: single color
Motion Detection	yes
Region of interest (ROI)	3
Video Content Analysis (VCA)	abandoned object, object disappearance, line cross, zone entrance, Scene Change, Video Blurred
Image Processing	sharpening, mirror effect, vertical flip, horizontal flip
Prealarm/Postalarm	-/up to 120 s
System Reaction to Alarm Events	e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card
Restoring default settings	via web browser, using reset button, via NMS IPTool software

IR LED

LED Number	3
Range	50 m

INTERFACES

Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 128GB

INSTALLATION PARAMETERS

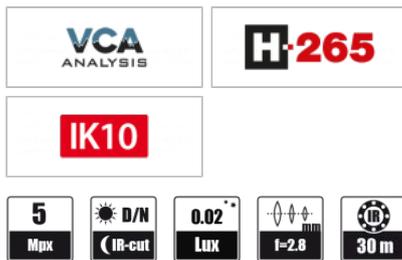
Dimensions (mm)	141 (Φ) x 100 (H)
Weight	0.85 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	vandalproof IK10 impact rating aluminium, white poly-carbonate bubble
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	6 W • 11 W (IR on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)

Vandal IP Camera NVIP-5VE-6201

6000 VSS IP



KEY FEATURES



- Resolution: 5 MPX
- Lens: fixed focal, f=2.8 mm/F1.85
- built-in microphone
- D/N function - IR cut filter
- Video content analysis
- microSD card support
- Min. Illumination: 0.02 lx (0 lx, IR on)
- IR LED, range up to 30 m

DIMENSIONS



IMAGE

Image Sensor	5 MPX CMOS sensor 1/2.7" SmartSens
Number of Effective Pixels	2608 (H) x 1960 (V)
Min. Illumination	0.02 lx/F1.85 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/2 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1/2 s
Wide Dynamic Range (WDR)	yes
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	fixed focal, f=2.8 mm/F1.85
-----------	-----------------------------

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

NETWORK

Stream Resolution	2592 x 1944, 2560 x 1440 (QHD), 1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 480 x 240, 320 x 240 (QVGA)
Frame Rate	25 fps for 2592 x 1944 • 30 fps for 2560 x 1440 (QHD) and lower resolutions
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.265/G.711
Number of Simultaneous Connections	max. 4
Bandwidth	16 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DDNS, NTP, RTSP, UPnP, QoS/DSCP, IEEE 802.1X, PPPoE, SMTP, ICMP, Unicast, SSL/TLS
ONVIF Protocol Support	Profile S

Vandal IP Camera NVIP-5VE-6201

Camera Configuration	from Internet Explorer browser • languages: Polish, English, Russian, and others
Compatible Software	NMS, NVR-6000 Viewer
Mobile applications	SuperLive Plus (iPhone, Android)

OTHER FUNCTIONS

Privacy Zones	4 video mask type: single color
Motion Detection	yes
Region of interest (ROI)	3
Video Content Analysis (VCA)	tamper, abandoned object, object disappearance, line cross, zone entrance, Scene Change, Video Color Cast
Image Processing	180° image rotation, sharpening, mirror effect, vertical flip, horizontal flip
Prealarm/Postalarm	-/up to 120 s
System Reaction to Alarm Events	e-mail, e-mail with attachment, saving file on FTP server
Restoring default settings	via web browser, using reset button, via NMS IPTool software

IR LED

LED Number	1
Range	30 m
Angle	120°

INTERFACES

Audio Input/Output	-/- built-in microphone
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 128GB

INSTALLATION PARAMETERS

Dimensions (mm)	95 (Φ) x 83 (H)
Weight	0.5 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	vandalproof IK10 impact rating aluminium, white
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	3 W • 6 W (IR on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)

25 fps for 2592 x 1944 resolution, Reset button and micorSD card slot available for cameras with serial number NVIP-5VE-6201210416xxxx and later.

Vandal Proof IP Camera

NVIP-5VE-6202

6000 VSS IP



KEY FEATURES



- Resolution: 5 MPX
- Lens: varifocal, f=2.8 ~ 12 mm/F1.4
- built-in microphone
- D/N function - IR cut filter
- Video content analysis
- Min. Illumination: 0.01 lx (0 lx, IR on)
- IR LED, range up to 50 m

DIMENSIONS



IMAGE

Image Sensor	5 MPX CMOS sensor 1/2.7" SmartSens
Number of Effective Pixels	2608 (H) x 1960 (V)
Min. Illumination	0.01 lx/F1.4 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/2 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1/2 s
Wide Dynamic Range (WDR)	yes
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	varifocal, f=2.8 ~ 12 mm/F1.4
-----------	-------------------------------

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

NETWORK

Stream Resolution	2592 x 1944, 2560 x 1440 (QHD), 1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 480 x 240, 320 x 240 (QVGA)
Frame Rate	25 fps for 2592 x 1944 • 30 fps for 2560 x 1440 (QHD) and lower resolutions
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.265/G.711
Number of Simultaneous Connections	max. 4
Bandwidth	16 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DDNS, NTP, RTSP, UPnP, QoS/DSCP, IEEE 802.1X, PPPoE, SMTP, ICMP, Unicast, SSL/TLS
ONVIF Protocol Support	Profile S

Vandal Proof IP Camera NVIP-5VE-6202

Camera Configuration	from Internet Explorer browser • languages: Polish, English, Russian, and others
Compatible Software	NMS, NVR-6000 Viewer
Mobile applications	SuperLive Plus (iPhone, Android)

OTHER FUNCTIONS

Privacy Zones	4 video mask type: single color
Motion Detection	yes
Region of interest (ROI)	3
Video Content Analysis (VCA)	tamper, abandoned object, object disappearance, line cross, zone entrance, Scene Change, Video Color Cast
Image Processing	180° image rotation, sharpening, mirror effect, vertical flip, horizontal flip
Prealarm/Postalarm	-/up to 120 s
System Reaction to Alarm Events	e-mail, e-mail with attachment, saving file on FTP server
Restoring default settings	via web browser, via NMS IPTool software

IR LED

LED Number	2
Range	50 m
Angle	90°

INTERFACES

Audio Input/Output	-/- built-in microphone
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s

INSTALLATION PARAMETERS

Dimensions (mm)	112 (Φ) x 100 (H)
Weight	0.7 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	vandalproof IK10 impact rating aluminium, white
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	3 W • 8 W (IR on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)

25 fps for 2592 x 1944 resolution available for cameras with serial number NVIP-5VE-6202210416xxxx and later.

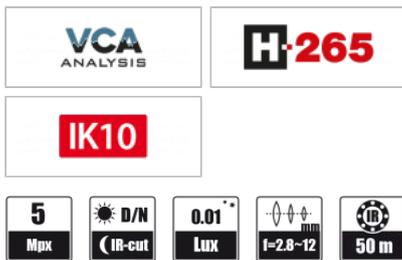
Vandal Proof IP Camera with Motor-zoom Lens

NVIP-5VE-6202M



6000 VSS IP

KEY FEATURES



- Resolution: 5 MPX
- Lens: motorized, auto-focus function, f=2.8 ~ 12 mm/F1.4
- built-in microphone
- D/N function - IR cut filter
- Video content analysis
- microSD card support
- Min. Illumination: 0.01 lx (0 lx, IR on)
- IR LED, range up to 50 m

DIMENSIONS



IMAGE

Image Sensor	5 MPX CMOS sensor 1/2.7" SmartSens
Number of Effective Pixels	2608 (H) x 1960 (V)
Min. Illumination	0.01 lx/F1.4 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/2 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1/2 s
Wide Dynamic Range (WDR)	yes
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	motorized, f=2.8 ~ 12 mm/F1.4
Auto-focus	zoom trigger, day/night mode trigger, manual trigger

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

NETWORK

Stream Resolution	2592 x 1944, 2560 x 1440 (QHD), 1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 480 x 240, 320 x 240 (QVGA)
Frame Rate	25 fps for 2592 x 1944 • 30 fps for 2560 x 1440 (QHD) and lower resolutions
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.265/G.711
Number of Simultaneous Connections	max. 4
Bandwidth	12 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DDNS, NTP, RTSP, UPnP, QoS/DSCP, IEEE 802.1X, PPPoE, SMTP, ICMP, Unicast, SSL/TLS
ONVIF Protocol Support	Profile S

Vandal Proof IP Camera with Motor-zoom Lens

NVIP-5VE-6202M

Camera Configuration	from Internet Explorer browser • languages: Polish, English, Russian, and others
Compatible Software	NMS, NVR-6000 Viewer
Mobile applications	SuperLive Plus (iPhone, Android)

OTHER FUNCTIONS

Privacy Zones	4 video mask type: single color
Motion Detection	yes
Region of interest (ROI)	3
Video Content Analysis (VCA)	tamper, abandoned object, object disappearance, line cross, zone entrance, Scene Change, Video Color Cast
Image Processing	180° image rotation, sharpening, mirror effect, vertical flip, horizontal flip
Prealarm/Postalarm	-/up to 120 s
System Reaction to Alarm Events	e-mail, e-mail with attachment, saving file on FTP server
Restoring default settings	via web browser, using reset button, via NMS IPTool software

IR LED

LED Number	2
Range	50 m
Angle	90°

INTERFACES

Audio Input/Output	-/- built-in microphone
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 128GB

INSTALLATION PARAMETERS

Dimensions (mm)	112 (Φ) x 100 (H)
Weight	0.7 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	vandalproof IK10 impact rating aluminium, white
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	5 W • 10 W (IR on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)

25 fps for 2592 x 1944 resolution, Reset button and micorSD card slot available for cameras with serial number NVIP-5VE-6202M210705xxxx and later.

Bullet IP Camera NVIP-5H-6201

6000 VSS IP



KEY FEATURES



- Resolution: 5 MPX
- Lens: fixed focal, $f=2.8$ mm/F1.85
- D/N function - IR cut filter
- Video content analysis
- microSD card support
- Min. Illumination: 0.02 lx (0 lx, IR on)
- IR LED, range up to 30 m

DIMENSIONS



IMAGE

Image Sensor	5 MPX CMOS sensor 1/2.7" SmartSens
Number of Effective Pixels	2608 (H) x 1960 (V)
Min. Illumination	0.02 lx/F1.85 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/2 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1/2 s
Wide Dynamic Range (WDR)	yes
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	fixed focal, $f=2.8$ mm/F1.85
-----------	-------------------------------

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

NETWORK

Stream Resolution	2592 x 1944, 2560 x 1440 (QHD), 1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 480 x 240, 320 x 240 (QVGA)
Frame Rate	25 fps for 2592 x 1944 • 30 fps for 2560 x 1440 (QHD) and lower resolutions
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.265/-
Number of Simultaneous Connections	max. 4
Bandwidth	16 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DDNS, NTP, RTSP, UPnP, QoS/DSCP, IEEE 802.1X, PPPoE, SMTP, ICMP, Unicast, SSL/TLS
ONVIF Protocol Support	Profile S

Bullet IP Camera NVIP-5H-6201

Camera Configuration	from Internet Explorer browser • languages: Polish, English, Russian, and others
Compatible Software	NMS, NVR-6000 Viewer
Mobile applications	SuperLive Plus (iPhone, Android)

OTHER FUNCTIONS

Privacy Zones	4 video mask type: single color
Motion Detection	yes
Region of interest (ROI)	3
Video Content Analysis (VCA)	tamper, abandoned object, object disappearance, line cross, zone entrance, Scene Change, Video Color Cast
Image Processing	180° image rotation, sharpening, mirror effect, vertical flip, horizontal flip
Prealarm/Postalarm	-/up to 120 s
System Reaction to Alarm Events	e-mail, e-mail with attachment, saving file on FTP server
Restoring default settings	via web browser, using reset button, via NMS IPTool software

IR LED

LED Number	1
Range	30 m
Angle	120°

INTERFACES

Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 128GB

INSTALLATION PARAMETERS

Dimensions (mm)	with bracket: 75 (W) x 75 (H) x 170 (L)
Weight	0.4 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	aluminium, white, fully cable managed wall mount bracket in-set included , IK10 impact rating
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	3 W • 6 W (IR on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)

25 fps for 2592 x 1944 resolution, Reset button and micorSD card slot available for cameras with serial number NVIP-5H-6201210416xxxx and later.

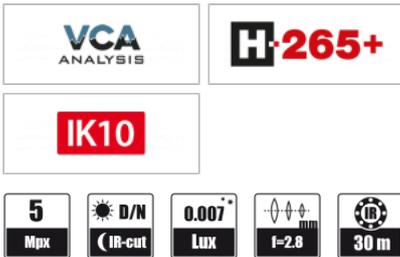
Bullet IP Camera

NVIP-5H-6201-II/7043

6000 VSS IP



KEY FEATURES



- Resolution: 5 MPX
- Lens: fixed focal, $f=2.8$ mm/F1.6
- microSD card support
- D/N function - IR cut filter
- Video content analysis
- microSD card support
- WDR with double scan sensor
- Min. Illumination from 0.007 lx (0 lx, IR on)
- IR LED, range up to 30 m

DIMENSIONS



IMAGE

Image Sensor	5 MPX CMOS sensor 1/2.7" SmartSens
Number of Effective Pixels	2884 (H) x 1624 (V)
Min. Illumination	0.007 lx/F1.6 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto: 1/2 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1/3 s
Wide Dynamic Range (WDR)	yes (double scan sensor), 120dB
Digital Noise Reduction (DNR)	2D, 3D
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	fixed focal, $f=2.8$ mm/F1.6
-----------	------------------------------

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

NETWORK

Stream Resolution	2880 x 1620, 2560 x 1440 (QHD), 2304 x 1296, 1920 x 1080 (Full HD), 1280 x 720 (HD), 704 x 576, 704 x 480, 640 x 480 (VGA), 480 x 240, 352 x 288 (CIF), 352 x 240
Frame Rate	30 fps for each resolution
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.264+, H.265, H.265+, MJPEG/G.711
Number of Simultaneous Connections	max. 10
Bandwidth	60 Mb/s in total
Network Protocols Support	HTTP, IPv4, IPv4/v6, UDP, HTTPS, FTP, DHCP, DDNS, NTP, RTSP, RTP, UPnP, SNMP, QoS, IEEE 802.1X, PPPoE, SMTP, RTCP, RTMP
ONVIF Protocol Support	Profile S
Camera Configuration	from Internet Explorer browser • languages: Polish, English, and others
Compatible Software	NMS, N Control 6000

Bullet IP Camera NVIP-5H-6201-II/7043

Mobile applications SuperLive Plus (iPhone, Android)

OTHER FUNCTIONS

Privacy Zones	4 video mask type: single color
Motion Detection	yes
Region of interest (ROI)	8
Video Content Analysis (VCA)	abandoned object, object disappearance, line cross, Scene Change, intrusion detection
Image Processing	sharpening, mirror effect, corridor mode, vertical flip, horizontal flip
Prealarm/Postalarm	up to 6 s/up to 120 s
System Reaction to Alarm Events	e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card
Restoring default settings	via web browser, using reset button, via NMS IPTool software

IR LED

LED Number	1
Range	30 m
Smart IR	yes (software support)

INTERFACES

Audio Input/Output	1 x Jack (3.5 mm)/- built-in microphone
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 256GB

INSTALLATION PARAMETERS

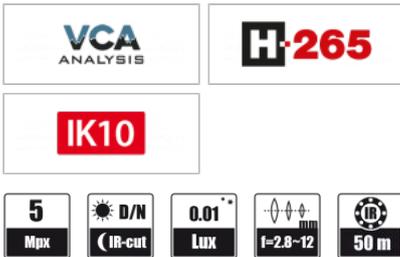
Dimensions (mm)	with bracket: 74.5 (W) x 74.5 (H) x 167.5 (L)
Weight	0.4 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	aluminium, grey, fully cable managed wall mount bracket in-set included , IK10 impact rating
Power Supply	12 VDC, PoE (IEEE 802.3af, Class 3)
Surge protection	TVS 4000 V
Power Consumption	3.5 W • 6 W (IR illuminator on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)

Bullet IP Camera NVIP-5H-6202

6000 VSS IP



KEY FEATURES



- Resolution: 5 MPX
- Lens: varifocal, f=2.8 ~ 12 mm/F1.4
- D/N function - IR cut filter
- Video content analysis
- microSD card support
- Min. Illumination: 0.01 lx (0 lx, IR on)
- IR LED, range up to 50 m

DIMENSIONS



IMAGE

Image Sensor	5 MPX CMOS sensor 1/2.7" SmartSens
Number of Effective Pixels	2608 (H) x 1960 (V)
Min. Illumination	0.01 lx/F1.4 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/2 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1/2 s
Wide Dynamic Range (WDR)	yes
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	varifocal, f=2.8 ~ 12 mm/F1.4
-----------	-------------------------------

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

NETWORK

Stream Resolution	2592 x 1944, 2560 x 1440 (QHD), 1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 480 x 240, 320 x 240 (QVGA)
Frame Rate	25 fps for 2592 x 1944 • 30 fps for 2560 x 1440 (QHD) and lower resolutions
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.265/-
Number of Simultaneous Connections	max. 4
Bandwidth	16 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DDNS, NTP, RTSP, UPnP, QoS/DSCP, IEEE 802.1X, PPPoE, SMTP, ICMP, Unicast, SSL/TLS
ONVIF Protocol Support	Profile S

Bullet IP Camera NVIP-5H-6202

Camera Configuration	from Internet Explorer browser • languages: Polish, English, Russian, and others
Compatible Software	NMS, NVR-6000 Viewer
Mobile applications	SuperLive Plus (iPhone, Android)

OTHER FUNCTIONS

Privacy Zones	4 video mask type: single color
Motion Detection	yes
Region of interest (ROI)	3
Video Content Analysis (VCA)	tamper, abandoned object, object disappearance, line cross, zone entrance, Scene Change, Video Color Cast
Image Processing	180° image rotation, sharpening, mirror effect, vertical flip, horizontal flip
Prealarm/Postalarm	-/up to 120 s
System Reaction to Alarm Events	e-mail, e-mail with attachment, saving file on FTP server
Restoring default settings	via web browser, using reset button, via NMS IPTool software

IR LED

LED Number	2
Range	50 m
Angle	90°

INTERFACES

Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 128GB

INSTALLATION PARAMETERS

Dimensions (mm)	with bracket: 81 (W) x 81 (H) x 220 (L)
Weight	0.7 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	aluminium, white, fully cable managed wall mount bracket in-set included , IK10 impact rating
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	3 W • 8 W (IR on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)

25 fps for 2592 x 1944 resolution, Reset button and microSD card slot available for cameras with serial number NVIP-5H-6202210416xxxx and later.

Bullet IP Camera with Motor-zoom Lens NVIP-5H-6202M

6000 VSS IP



KEY FEATURES



- Resolution: 5 MPX
- Lens: motorized, auto-focus function, f=2.8 ~ 12 mm/F1.4
- D/N function - IR cut filter
- Video content analysis
- microSD card support
- Min. Illumination: 0.01 lx (0 lx, IR on)
- IR LED, range up to 50 m

DIMENSIONS



IMAGE

Image Sensor	5 MPX CMOS sensor 1/2.7" SmartSens
Number of Effective Pixels	2608 (H) x 1960 (V)
Min. Illumination	0.01 lx/F1.4 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/2 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1/2 s
Wide Dynamic Range (WDR)	yes
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	motorized, f=2.8 ~ 12 mm/F1.4
Auto-focus	zoom trigger, day/night mode trigger, manual trigger

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

NETWORK

Stream Resolution	2592 x 1944, 2560 x 1440 (QHD), 1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 480 x 240, 320 x 240 (QVGA)
Frame Rate	25 fps for 2592 x 1944 • 30 fps for 2560 x 1440 (QHD) and lower resolutions
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.265/-
Number of Simultaneous Connections	max. 4
Bandwidth	16 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DDNS, NTP, RTSP, UPnP, QoS/DSCP, IEEE 802.1X, PPPoE, SMTP, ICMP, Unicast, SSL/TLS
ONVIF Protocol Support	Profile S

Bullet IP Camera with Motor-zoom Lens NVIP-5H-6202M

Camera Configuration	from Internet Explorer browser • languages: Polish, English, Russian, and others
Compatible Software	NMS, NVR-6000 Viewer
Mobile applications	SuperLive Plus (iPhone, Android)

OTHER FUNCTIONS

Privacy Zones	4 video mask type: single color
Motion Detection	yes
Region of interest (ROI)	3
Video Content Analysis (VCA)	tamper, abandoned object, object disappearance, line cross, zone entrance, Scene Change, Video Color Cast
Image Processing	180° image rotation, sharpening, mirror effect, vertical flip, horizontal flip
Prealarm/Postalarm	-/up to 120 s
System Reaction to Alarm Events	e-mail, e-mail with attachment, saving file on FTP server
Restoring default settings	via web browser, using reset button, via NMS IPTool software

IR LED

LED Number	2
Range	50 m
Angle	90°

INTERFACES

Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 128GB

INSTALLATION PARAMETERS

Dimensions (mm)	with bracket: 81 (W) x 81 (H) x 220 (L)
Weight	0.7 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	aluminium, white, fully cable managed wall mount bracket in-set included , IK10 impact rating
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	5 W • 10 W (IR on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)

25 fps for 2592 x 1944 resolution, Reset button and micorSD card slot available for cameras with serial number NVIP-5H-6202M210416xxxx and later.

IP Motor-zoom Camera with video content analysis based on Deep Learning

NVIP-5V-6502M/F

6000 VSS
IP



KEY FEATURES



- Resolution: 5 MPX
- Lens: motorized, auto-iris and auto-focus function, f=2.8 ~ 12 mm/F1.4
- built-in microphone
- Video content analysis based on Deep Learning
- microSD card support
- WDR with double scan sensor
- two-way audio
- IR LED, range up to 50 m

DIMENSIONS



IMAGE

Image Sensor	5 MPX CMOS sensor 1/2.7" OmniVision
Number of Effective Pixels	2688 (H) x 1944 (V)
Min. Illumination	0.007 lx/F1.4 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/3 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1/3 s
Wide Dynamic Range (WDR)	yes (double scan sensor), 120dB
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	motorized, auto-iris function, f=2.8 ~ 12 mm/F1.4
Auto-focus	zoom trigger, day/night mode trigger, manual trigger

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

NETWORK

Stream Resolution	2592 x 1944, 2592 x 1520, 2560 x 1440 (QHD), 2304 x 1296, 1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 480 x 240, 320 x 240 (QVGA)
Frame Rate	30 fps for 2592 x 1944 • 60 fps for 1920 x 1080 (Full HD) and lower resolutions
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.264+, H.264 Smart, H.265, H.265+, H.265 Smart, MJPEG/G.711
Number of Simultaneous Connections	max. 10
Bandwidth	60 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DDNS, NTP, RTSP, SNMP, QoS/DSCP, IEEE 802.1X, PPPoE, SMTP, ICMP, Unicast, SSL/TLS

IP Motor-zoom Camera with video content analysis based on Deep Learning

NVIP-5V-6502M/F

ONVIF Protocol Support	Profile S/G
Camera Configuration	from Internet Explorer browser • languages: Polish, English, Russian, and others
Compatible Software	NMS, NVR-6000 Viewer, N Control 6000
Mobile applications	SuperLive Plus (iPhone, Android)

OTHER FUNCTIONS

Privacy Zones	4 video mask type: single color or 1 video mask type: mosaic
Motion Detection	yes
Region of interest (ROI)	8
Video Content Analysis (VCA)	tamper, abandoned object, object disappearance, line cross, zone entrance, zone exit, object counting, face detection, detection of people not wearing masks, pedestrian detection, cross counting, Scene Change, Video Blurred, Video Color Cast, objects distinguishing, people counting, vehicle detection, vehicle counting
Image Processing	180° image rotation, sharpening, mirror effect, corridor mode, vertical flip, horizontal flip, lens distortion correction
Prealarm/Postalarm	up to 6 s/up to 120 s
System Reaction to Alarm Events	e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card, alarm output activation
Restoring default settings	via web browser, using reset button, via NMS IPTool software

IR LED

LED Number	3
Range	50 m
Smart IR	yes (software support)

INTERFACES

Video Output	BNC, 1.0 Vp-p, 75 Ohm
Audio Input/Output	1 x Jack (3.5 mm)/1 x Jack (3.5 mm) built-in microphone
Alarm Input/Output	1 (NO/NC)/1 relay type
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 256GB

INSTALLATION PARAMETERS

Dimensions (mm)	141 (Φ) x 100 (H)
Weight	1 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	vandalproof IK10 impact rating aluminium, white poly-carbonate bubble
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	6 W • 11 W (IR on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)

IP Camera with video content analysis based on Deep Learning

NVIP-5VE-6501/F



6000 VSS IP

KEY FEATURES



- Resolution: 5 MPX
- Lens: fixed focal, f=2.8 mm/F1.6
- built-in microphone
- D/N function - IR cut filter
- Video content analysis based on Deep Learning
- microSD card support
- WDR with double scan sensor
- Min. Illumination: 0.009 lx (0 lx, IR on)
- IR LED, range up to 30 m

DIMENSIONS



IMAGE

Image Sensor	5 MPX CMOS sensor 1/2.7" OmniVision
Number of Effective Pixels	2688 (H) x 1944 (V)
Min. Illumination	0.009 lx/F1.6 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/3 s ~ 1/10000 s
Digital Slow Shutter (DSS)	up to 1/3 s
Wide Dynamic Range (WDR)	yes (double scan sensor), 120dB
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	fixed focal, f=2.8 mm/F1.6
-----------	----------------------------

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

NETWORK

Stream Resolution	2592 x 1944, 2592 x 1520, 2560 x 1440 (QHD), 2304 x 1296, 1920 x 1080 (Full HD), 1280 x 720 (HD), 704 x 576, 704 x 480, 480 x 240, 352 x 288 (CIF), 352 x 240
Frame Rate	30 fps for 2592 x 1944 • 60 fps for 1920 x 1080 (Full HD) and lower resolutions
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.264+, H.264 Smart, H.265, H.265+, H.265 Smart, MJPEG/G.711
Number of Simultaneous Connections	max. 10
Bandwidth	60 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, IPv4/v6, UDP, HTTPS, FTP, DHCP, DDNS, NTP, RTSP, RTP, UPnP, SNMP, QoS, IEEE 802.1X, PPPoE, SMTP, RTCP, ICMP, SSL/TLS
ONVIF Protocol Support	Profile S/G

IP Camera with video content analysis based on Deep Learning

NVIP-5VE-6501/F

Camera Configuration	from Internet Explorer browser • languages: Polish, English, Russian, and others
Compatible Software	NMS, N Control 6000
Mobile applications	SuperLive Plus (iPhone, Android)

OTHER FUNCTIONS

Privacy Zones	4 video mask type: single color
Motion Detection	yes
Region of interest (ROI)	8
Video Content Analysis (VCA)	tamper, line cross, zone entrance, zone exit, object counting, face detection, pedestrian detection, cross counting, Scene Change, Video Blurred, Video Color Cast, objects distinguishing, people counting, vehicle detection, vehicle counting
Image Processing	180° image rotation, sharpening, mirror effect, corridor mode, vertical flip, horizontal flip, lens distortion correction
Prealarm/Postalarm	up to 6 s/up to 120 s
System Reaction to Alarm Events	e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card
Restoring default settings	via web browser, using reset button, via NMS IPTool software

IR LED

LED Number	1
Range	30 m
Smart IR	yes (software support)

INTERFACES

Audio Input/Output	1 x Jack (3.5 mm)/- built-in microphone
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 256GB

INSTALLATION PARAMETERS

Dimensions (mm)	97 (Φ) x 83 (H)
Weight	0.5 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	vandalproof IK10 impact rating aluminium, white
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	5 W • 7 W (IR on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)

IP Motor-zoom Camera with video content analysis based on Deep Learning

NVIP-5VE-6502M/F

6000 VSS IP



KEY FEATURES



- Resolution: 5 MPX
- Lens: motorized, auto-iris and auto-focus function, f=2.8 ~ 12 mm/F1.4
- built-in microphone
- D/N function - IR cut filter
- Video content analysis based on Deep Learning
- microSD card support
- WDR with double scan sensor
- Min. Illumination: 0.007 lx (0 lx, IR on)
- IR LED, range up to 50 m

DIMENSIONS



IMAGE

Image Sensor	5 MPX CMOS sensor 1/2.7" OmniVision
Number of Effective Pixels	2688 (H) x 1944 (V)
Min. Illumination	0.007 lx/F1.4 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/3 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1/3 s
Wide Dynamic Range (WDR)	yes (double scan sensor), 120dB
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	motorized, auto-iris function, f=2.8 ~ 12 mm/F1.4
Auto-focus	zoom trigger, day/night mode trigger, manual trigger

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

NETWORK

Stream Resolution	2592 x 1944, 2592 x 1520, 2560 x 1440 (QHD), 2304 x 1296, 1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 480 x 240, 320 x 240 (QVGA)
Frame Rate	30 fps for 2592 x 1944 • 60 fps for 1920 x 1080 (Full HD) and lower resolutions
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.264+, H.264 Smart, H.265, H.265+, H.265 Smart, MJPEG/G.711
Number of Simultaneous Connections	max. 10
Bandwidth	60 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DDNS, NTP, RTSP, SNMP, QoS/DSCP, IEEE 802.1X, PPPoE, SMTP, ICMP, Unicast, SSL/TLS

IP Motor-zoom Camera with video content analysis based on Deep Learning

NVIP-5VE-6502M/F

ONVIF Protocol Support	Profile S/G
Camera Configuration	from Internet Explorer browser • languages: Polish, English, Russian, and others
Compatible Software	NMS, NVR-6000 Viewer
Mobile applications	SuperLive Plus (iPhone, Android)

OTHER FUNCTIONS

Privacy Zones	4 video mask type: single color or 1 video mask type: mosaic
Motion Detection	yes
Region of interest (ROI)	8
Video Content Analysis (VCA)	tamper, line cross, zone entrance, zone exit, object counting, face detection, detection of people not wearing masks, pedestrian detection, cross counting, Scene Change, Video Blurred, Video Color Cast, objects distinguishing, people counting, vehicle detection, vehicle counting
Image Processing	180° image rotation, sharpening, mirror effect, corridor mode, vertical flip, horizontal flip, lens distortion correction
Prealarm/Postalarm	up to 6 s/up to 120 s
System Reaction to Alarm Events	e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card
Restoring default settings	via web browser, using reset button, via NMS IPTool software

IR LED

LED Number	3
Range	50 m
Smart IR	yes (software support)

INTERFACES

Audio Input/Output	1 x Jack (3.5 mm)/- built-in microphone
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 256GB

INSTALLATION PARAMETERS

Dimensions (mm)	112 (Φ) x 100 (H)
Weight	0.7 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	vandalproof IK10 impact rating aluminium, white
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	6 W • 11 W (IR on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)

IP Motor-zoom Camera with video content analysis based on Deep Learning

NVIP-5H-6502M/F

6000 VSS IP



KEY FEATURES



- Resolution: 5 MPX
- Lens: motorized, auto-iris and auto-focus function, f=2.8 ~ 12 mm/F1.4
- Human/Vehicle Object Classification
- D/N function - IR cut filter
- Video content analysis based on Deep Learning
- microSD card support
- WDR with double scan sensor
- Min. Illumination: 0.007 lx (0 lx, IR on)
- IR LED, range up to 50 m

DIMENSIONS



IMAGE

Image Sensor	5 MPX CMOS sensor 1/2.7" OmniVision
Number of Effective Pixels	2688 (H) x 1944 (V)
Min. Illumination	0.007 lx/F1.4 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/3 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1/3 s
Wide Dynamic Range (WDR)	yes (double scan sensor), 120dB
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	motorized, auto-iris function, f=2.8 ~ 12 mm/F1.4
Auto-focus	zoom trigger, day/night mode trigger, manual trigger

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

NETWORK

Stream Resolution	2592 x 1944, 2592 x 1520, 2560 x 1440 (QHD), 2304 x 1296, 1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 480 x 240, 320 x 240 (QVGA)
Frame Rate	30 fps for 2592 x 1944 • 60 fps for 1920 x 1080 (Full HD) and lower resolutions
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.264+, H.264 Smart, H.265, H.265+, H.265 Smart, MJPEG/G.711
Number of Simultaneous Connections	max. 10
Bandwidth	60 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DDNS, NTP, RTSP, UPnP, SNMP, QoS/DSCP, IEEE 802.1X, PPPoE, SMTP, ICMP, Unicast, SSL/TLS

IP Motor-zoom Camera with video content analysis based on Deep Learning

NVIP-5H-6502M/F

ONVIF Protocol Support	Profile S/G
Camera Configuration	from Internet Explorer browser • languages: Polish, English, Russian, and others
Compatible Software	NMS, NVR-6000 Viewer
Mobile applications	SuperLive Plus (iPhone, Android)

OTHER FUNCTIONS

Privacy Zones	4 video mask type: single color or 1 video mask type: mosaic
Motion Detection	yes
Region of interest (ROI)	8
Video Content Analysis (VCA)	tamper, line cross, zone entrance, zone exit, object counting, face detection, detection of people not wearing masks, pedestrian detection, cross counting, Scene Change, Video Blurred, Video Color Cast, objects distinguishing, people counting, vehicle detection, vehicle counting
Image Processing	180° image rotation, sharpening, mirror effect, corridor mode, vertical flip, horizontal flip, lens distortion correction
Prealarm/Postalarm	up to 6 s/up to 120 s
System Reaction to Alarm Events	e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card
Restoring default settings	via web browser, using reset button, via NMS IPTool software

IR LED

LED Number	3
Range	50 m
Smart IR	yes (software support)

INTERFACES

Audio Input/Output	1 x Jack (3.5 mm)/-
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 256GB

INSTALLATION PARAMETERS

Dimensions (mm)	with bracket: 81 (W) x 81 (H) x 220 (L)
Weight	0.7 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	aluminium, white, fully cable managed wall mount bracket in-set included, IK10 impact rating
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	6 W • 9 W (IR on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)

IP Camera with video content analysis based on Deep Learning

NVIP-5H-6511/F

6000 VSS IP



KEY FEATURES



- Resolution: 5 MPX
- Lens: fixed focal, f=2.8 mm/F1.6
- Human/Vehicle Object Classification
- D/N function - IR cut filter
- Video content analysis based on Deep Learning
- microSD card support
- WDR with double scan sensor
- Min. Illumination: 0.009 lx (0 lx, IR on)
- IR LED, range up to 50 m

DIMENSIONS



IMAGE

Image Sensor	5 MPX CMOS sensor 1/2.7" OmniVision
Number of Effective Pixels	2688 (H) x 1944 (V)
Min. Illumination	0.009 lx/F1.6 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/3 s ~ 1/10000 s
Digital Slow Shutter (DSS)	up to 1/3 s
Wide Dynamic Range (WDR)	yes (double scan sensor), 120dB
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	fixed focal, f=2.8 mm/F1.6
-----------	----------------------------

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

NETWORK

Stream Resolution	2592 x 1944, 2592 x 1520, 2560 x 1440 (QHD), 2304 x 1296, 1920 x 1080 (Full HD), 1280 x 720 (HD), 704 x 576, 704 x 480, 480 x 240, 352 x 288 (CIF), 352 x 240
Frame Rate	30 fps for 2592 x 1944 • 60 fps for 1920 x 1080 (Full HD) and lower resolutions
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.264+, H.264 Smart, H.265, H.265+, H.265 Smart, MJPEG/G.711
Number of Simultaneous Connections	max. 10
Bandwidth	60 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, IPv4/v6, UDP, HTTPS, FTP, DHCP, DDNS, NTP, RTSP, RTP, UPnP, SNMP, QoS, IEEE 802.1X, PPPoE, SMTP, RTCP, ICMP, SSL/TLS
ONVIF Protocol Support	Profile S/G

IP Camera with video content analysis based on Deep Learning

NVIP-5H-6511/F

Camera Configuration	from Internet Explorer browser • languages: Polish, English, Russian, and others
Compatible Software	NMS, N Control 6000
Mobile applications	SuperLive Plus (iPhone, Android)

OTHER FUNCTIONS

Privacy Zones	4 video mask type: single color
Motion Detection	yes
Region of interest (ROI)	8
Video Content Analysis (VCA)	tamper, line cross, zone entrance, zone exit, object counting, face detection, pedestrian detection, cross counting, Scene Change, Video Blurred, Video Color Cast, objects distinguishing, people counting, vehicle detection, vehicle counting
Image Processing	180° image rotation, sharpening, mirror effect, corridor mode, vertical flip, horizontal flip, lens distortion correction
Prealarm/Postalarm	up to 6 s/up to 120 s
System Reaction to Alarm Events	e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card
Restoring default settings	via web browser, using reset button, via NMS IPTool software

IR LED

LED Number	2
Range	50 m
Smart IR	yes (software support)

INTERFACES

Audio Input/Output	1 x Jack (3.5 mm)/-
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 256GB

INSTALLATION PARAMETERS

Dimensions (mm)	with bracket: 81 (W) x 81 (H) x 220 (L)
Weight	0.7 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	aluminium, white, fully cable managed wall mount bracket in-set included
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	6 W • 9 W (IR on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)

IP Motor-zoom Camera with video content analysis based on Deep Learning

NVIP-5H-6522M/F



6000 VSS IP

KEY FEATURES



- Resolution: 5 MPX
- Lens: motorized, auto-iris and auto-focus function, f=2.8 ~ 12 mm/F1.4
- Human/Vehicle Object Classification
- Video content analysis based on Deep Learning
- microSD card support
- WDR with double scan sensor
- IR LED, range up to 70 m

DIMENSIONS



IMAGE

Image Sensor	5 MPX CMOS sensor 1/2.7" OmniVision
Number of Effective Pixels	2688 (H) x 1944 (V)
Min. Illumination	0.007 lx/F1.4 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/3 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1/3 s
Wide Dynamic Range (WDR)	yes (double scan sensor), 120dB
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	motorized, auto-iris function, f=2.8 ~ 12 mm/F1.4
Auto-focus	zoom trigger, day/night mode trigger, manual trigger

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

NETWORK

Stream Resolution	2592 x 1944, 2592 x 1520, 2560 x 1440 (QHD), 2304 x 1296, 1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 480 x 240, 320 x 240 (QVGA)
Frame Rate	30 fps for 2592 x 1944 • 60 fps for 1920 x 1080 (Full HD) and lower resolutions
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.264+, H.264 Smart, H.265, H.265+, H.265 Smart, MJPEG/G.711
Number of Simultaneous Connections	max. 10
Bandwidth	60 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DDNS, NTP, RTSP, UPnP, SNMP, QoS/DSCP, IEEE 802.1X, PPPoE, SMTP, ICMP, Unicast, SSL/TLS

IP Motor-zoom Camera with video content analysis based on Deep Learning

NVIP-5H-6522M/F

ONVIF Protocol Support	Profile S/G
Camera Configuration	from Internet Explorer browser • languages: Polish, English, Russian, and others
Compatible Software	NMS, NVR-6000 Viewer, N Control 6000
Mobile applications	SuperLive Plus (iPhone, Android)

OTHER FUNCTIONS

Privacy Zones	4 video mask type: single color or 1 video mask type: mosaic
Motion Detection	yes
Region of interest (ROI)	8
Video Content Analysis (VCA)	tamper, abandoned object, object disappearance, line cross, zone entrance, zone exit, object counting, face detection, detection of people not wearing masks, pedestrian detection, cross counting, Scene Change, Video Blurred, Video Color Cast, objects distinguishing, people counting, vehicle detection, vehicle counting
Image Processing	180° image rotation, sharpening, mirror effect, corridor mode, vertical flip, horizontal flip, lens distortion correction
Prealarm/Postalarm	up to 6 s/up to 120 s
System Reaction to Alarm Events	e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card
Restoring default settings	via web browser, using reset button, via NMS IPTool software

IR LED

LED Number	4
Range	up to 70 m (depends on current optical zoom value)
Smart IR	yes (software support)

INTERFACES

Video Output	BNC, 1.0 Vp-p, 75 Ohm
Audio Input/Output	1 x Jack (3.5 mm)/1 x Jack (3.5 mm)
Alarm Input/Output	1 (NO/NC)/1 relay type
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 256GB

INSTALLATION PARAMETERS

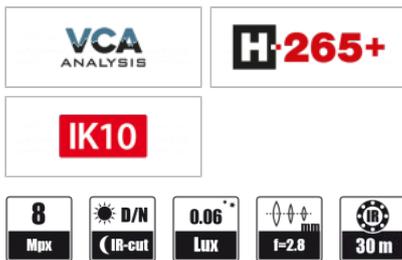
Dimensions (mm)	with bracket: 101 (W) x 89 (H) x 280 (L)
Weight	1.1 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	aluminium, white, fully cable managed wall mount bracket in-set included, IK10 impact rating
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	7.5 W • 14 W (IR on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)

Vandal Proof IP Camera NVIP-8VE-6201

6000 VSS IP



KEY FEATURES



- Resolution: 8 MPX (4K Ultra HD)
- Lens: fixed focal, f=2.8 mm/F1.6
- built-in microphone
- D/N function - IR cut filter
- Video content analysis
- microSD card support
- WDR with double scan sensor
- Min. Illumination: 0.06 lx (0 lx, IR on)
- IR LED, range up to 30 m

DIMENSIONS



IMAGE

Image Sensor	8 MPX CMOS sensor 1/2.8" SONY STARVIS
Number of Effective Pixels	3864 (H) x 2192 (V)
Min. Illumination	0.06 lx/F1.6 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/2 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1/3 s
Wide Dynamic Range (WDR)	yes (double scan sensor), 120dB
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	fixed focal, f=2.8 mm/F1.6
-----------	----------------------------

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

NETWORK

Stream Resolution	3840 x 2160 (4K Ultra HD), 3072 x 2048, 2592 x 1944, 2560 x 1440 (QHD), 1920 x 1080 (Full HD), 1280 x 720 (HD), 704 x 576, 704 x 480, 480 x 240, 352 x 288 (CIF), 352 x 240
Frame Rate	20 fps for 3840 x 2160 (UHD), 3072 x 2048 • 30 fps for 2592 x 1944 and lower resolutions
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.264+, H.265, H.265+, MJPEG/G.711
Number of Simultaneous Connections	max. 10
Bandwidth	40 Mb/s in total
Network Protocols Support	HTTP, IPv4, IPv4/v6, UDP, HTTPS, FTP, DHCP, DDNS, NTP, RTSP, RTP, UPnP, SNMP, QoS, IEEE 802.1X, PPPoE, SMTP, RTCP, ICMP
ONVIF Protocol Support	Profile S/G

Vandal Proof IP Camera NVIP-8VE-6201

Camera Configuration	from Internet Explorer browser • languages: Polish, English, Russian, and others
Compatible Software	NMS, N Control 6000
Mobile applications	SuperLive Plus (iPhone, Android)

OTHER FUNCTIONS

Privacy Zones	4 video mask type: single color
Motion Detection	yes
Region of interest (ROI)	3
Video Content Analysis (VCA)	tamper, line cross, zone entrance, Scene Change, Video Blurred, Video Color Cast
Image Processing	180° image rotation, sharpening, mirror effect, corridor mode, vertical flip, horizontal flip, lens distortion correction
Prealarm/Postalarm	up to 6 s/up to 120 s
System Reaction to Alarm Events	e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card
Restoring default settings	via web browser, using reset button, via NMS IPTool software

IR LED

LED Number	1
Range	30 m
Smart IR	yes (software support)

INTERFACES

Audio Input/Output	1 x Jack (3.5 mm)/- built-in microphone
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 256GB

INSTALLATION PARAMETERS

Dimensions (mm)	95 (Φ) x 83 (H)
Weight	0.5 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	vandalproof IK10 impact rating aluminium, white
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	6 W • 10 W (IR on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)

Vandal Proof IP Camera with Motor-zoom Lens

NVIP-8VE-6202M

6000 VSS IP



KEY FEATURES



- Resolution: 8 MPX (4K Ultra HD)
- Lens: motorized, auto-focus function, f=2.8 ~ 12 mm/F1.4
- built-in microphone
- D/N function - IR cut filter
- Video content analysis
- microSD card support
- WDR with double scan sensor
- Min. Illumination: 0.05 lx (0 lx, IR on)
- IR LED, range up to 50 m

DIMENSIONS



IMAGE

Image Sensor	8 MPX CMOS sensor 1/2.8" SONY STARVIS
Number of Effective Pixels	3864 (H) x 2192 (V)
Min. Illumination	0.05 lx/F1.4 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/2 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1/3 s
Wide Dynamic Range (WDR)	yes (double scan sensor), 120dB
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	motorized, f=2.8 ~ 12 mm/F1.4
Auto-focus	zoom trigger, day/night mode trigger, manual trigger

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

NETWORK

Stream Resolution	3840 x 2160 (4K Ultra HD), 3072 x 2048, 2592 x 1944, 2560 x 1440 (QHD), 1920 x 1080 (Full HD), 1280 x 720 (HD), 704 x 576, 704 x 480, 480 x 240, 352 x 288 (CIF), 352 x 240
Frame Rate	20 fps for 3840 x 2160 (UHD), 3072 x 2048 • 30 fps for 2592 x 1944 and lower resolutions
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.264+, H.265, H.265+, MJPEG/G.711
Number of Simultaneous Connections	max. 10
Bandwidth	40 Mb/s in total
Network Protocols Support	HTTP, IPv4, IPv4/v6, UDP, HTTPS, FTP, DHCP, DDNS, NTP, RTSP, RTP, UPnP, SNMP, QoS, IEEE 802.1X, PPPoE, SMTP, RTCP, ICMP
ONVIF Protocol Support	Profile S/G

Vandal Proof IP Camera with Motor-zoom Lens NVIP-8VE-6202M

Camera Configuration	from Internet Explorer browser • languages: Polish, English, Russian, and others
Compatible Software	NMS, N Control 6000
Mobile applications	SuperLive Plus (iPhone, Android)

OTHER FUNCTIONS

Privacy Zones	4 video mask type: single color
Motion Detection	yes
Region of interest (ROI)	3
Video Content Analysis (VCA)	tamper, line cross, zone entrance, Scene Change, Video Blurred, Video Color Cast
Image Processing	180° image rotation, sharpening, mirror effect, corridor mode, vertical flip, horizontal flip, lens distortion correction
Prealarm/Postalarm	up to 6 s/up to 120 s
System Reaction to Alarm Events	e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card
Restoring default settings	via web browser, using reset button, via NMS IPTool software

IR LED

LED Number	2
Range	50 m
Smart IR	yes (software support)

INTERFACES

Audio Input/Output	1 x Jack (3.5 mm)/- built-in microphone
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 256GB

INSTALLATION PARAMETERS

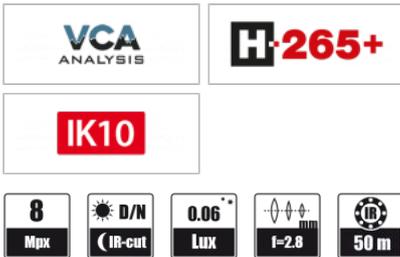
Dimensions (mm)	112 (Φ) x 100 (H)
Weight	0.7 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	vandalproof IK10 impact rating aluminium, white
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	7 W • 12 W (IR on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)

Bullet IP Camera NVIP-8H-6211

6000 VSS IP



KEY FEATURES



- Resolution: 8 MPX (4K Ultra HD)
- Lens: fixed focal, f=2.8 mm/F1.6
- D/N function - IR cut filter
- Video content analysis
- microSD card support
- WDR with double scan sensor
- Min. Illumination: 0.06 lx (0 lx, IR on)
- IR LED, range up to 50 m

DIMENSIONS



IMAGE

Image Sensor	8 MPX CMOS sensor 1/2.8" SONY STARVIS
Number of Effective Pixels	3864 (H) x 2192 (V)
Min. Illumination	0.06 lx/F1.6 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/2 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1/3 s
Wide Dynamic Range (WDR)	yes (double scan sensor), 120dB
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	fixed focal, f=2.8 mm/F1.6
-----------	----------------------------

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

NETWORK

Stream Resolution	3840 x 2160 (4K Ultra HD), 3072 x 2048, 2592 x 1944, 2560 x 1440 (QHD), 1920 x 1080 (Full HD), 1280 x 720 (HD), 704 x 576, 704 x 480, 480 x 240, 352 x 288 (CIF), 352 x 240
Frame Rate	20 fps for 3840 x 2160, 3072 x 2048 • 30 fps for 2592 x 1944 and lower resolutions
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.264+, H.265, H.265+, MJPEG/G.711
Number of Simultaneous Connections	max. 10
Bandwidth	40 Mb/s in total
Network Protocols Support	HTTP, IPv4, IPv4/v6, UDP, HTTPS, FTP, DHCP, DDNS, NTP, RTSP, RTP, UPnP, SNMP, QoS, IEEE 802.1X, PPPoE, SMTP, RTCP, ICMP
ONVIF Protocol Support	Profile S/G

Bullet IP Camera NVIP-8H-6211

Camera Configuration	from Internet Explorer browser • languages: Polish, English, Russian, and others
Compatible Software	NMS, N Control 6000
Mobile applications	SuperLive Plus (iPhone, Android)

OTHER FUNCTIONS

Privacy Zones	4 video mask type: single color
Motion Detection	yes
Region of interest (ROI)	3
Video Content Analysis (VCA)	tamper, line cross, zone entrance, Scene Change, Video Blurred, Video Color Cast
Image Processing	180° image rotation, sharpening, mirror effect, corridor mode, vertical flip, horizontal flip, lens distortion correction
Prealarm/Postalarm	up to 6 s/up to 120 s
System Reaction to Alarm Events	e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card
Restoring default settings	via web browser, using reset button, via NMS IPTool software

IR LED

LED Number	2
Range	50 m
Smart IR	yes (software support)

INTERFACES

Audio Input/Output	1 x Jack (3.5 mm)/-
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 256GB

INSTALLATION PARAMETERS

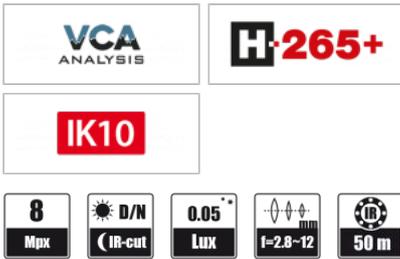
Dimensions (mm)	with bracket: 81 (W) x 81 (H) x 220 (L)
Weight	0.7 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	aluminium, white, fully cable managed wall mount bracket in-set included, IK10 impact rating
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	6 W • 11 W (IR on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)

Bullet IP Camera with Motor-zoom Lens NVIP-8H-6202M

6000 VSS IP



KEY FEATURES



- Resolution: 8 MPX (4K Ultra HD)
- Lens: motorized, auto-focus function, f=2.8 ~ 12 mm/F1.4
- D/N function - IR cut filter
- Video content analysis
- microSD card support
- WDR with double scan sensor
- Min. Illumination: 0.05 lx (0 lx, IR on)
- IR LED, range up to 50 m

DIMENSIONS



IMAGE

Image Sensor	8 MPX CMOS sensor 1/2.8" SONY STARVIS
Number of Effective Pixels	3864 (H) x 2192 (V)
Min. Illumination	0.05 lx/F1.4 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/2 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1/3 s
Wide Dynamic Range (WDR)	yes (double scan sensor), 120dB
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	motorized, auto-iris function, f=2.8 ~ 12 mm/F1.4
Auto-focus	zoom trigger, day/night mode trigger, manual trigger

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

NETWORK

Stream Resolution	3840 x 2160 (4K Ultra HD), 3072 x 2048, 2592 x 1944, 2560 x 1440 (QHD), 1920 x 1080 (Full HD), 1280 x 720 (HD), 704 x 576, 704 x 480, 480 x 240, 352 x 288 (CIF), 352 x 240
Frame Rate	20 fps for 3840 x 2160, 3072 x 2048 • 30 fps for 2592 x 1944 and lower resolutions
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.264+, H.265, H.265+, MJPEG/G.711
Number of Simultaneous Connections	max. 10
Bandwidth	40 Mb/s in total
Network Protocols Support	HTTP, IPv4, IPv4/v6, UDP, HTTPS, FTP, DHCP, DDNS, NTP, RTSP, RTP, UPnP, SNMP, QoS, IEEE 802.1X, PPPoE, SMTP, RTCP, ICMP
ONVIF Protocol Support	Profile S/G

Bullet IP Camera with Motor-zoom Lens NVIP-8H-6202M

Camera Configuration	from Internet Explorer browser • languages: Polish, English, Russian, and others
Compatible Software	NMS, N Control 6000
Mobile applications	SuperLive Plus (iPhone, Android)

OTHER FUNCTIONS

Privacy Zones	4 video mask type: single color
Motion Detection	yes
Region of interest (ROI)	3
Video Content Analysis (VCA)	tamper, line cross, zone entrance, Scene Change, Video Blurred, Video Color Cast
Image Processing	180° image rotation, sharpening, mirror effect, corridor mode, vertical flip, horizontal flip, lens distortion correction
Prealarm/Postalarm	up to 6 s/up to 120 s
System Reaction to Alarm Events	e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card
Restoring default settings	via web browser, using reset button, via NMS IPTool software

IR LED

LED Number	2
Range	50 m
Smart IR	yes (software support)

INTERFACES

Audio Input/Output	1 x Jack (3.5 mm)/-
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 256GB

INSTALLATION PARAMETERS

Dimensions (mm)	with bracket: 81 (W) x 81 (H) x 220 (L)
Weight	0.7 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	aluminium, white, fully cable managed wall mount bracket in-set included, IK10 impact rating
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	7 W • 12 W (IR on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)

IP Motor-zoom Camera with video content analysis based on Deep Learning

NVIP-8VE-6502M/F



KEY FEATURES



- Resolution: 8 MPX (4K Ultra HD)
- Lens: motorized, auto-iris and auto-focus function, f=2.8 ~ 12 mm/F1.4
- Human/Vehicle Object Classification
- D/N function - IR cut filter
- Video content analysis based on Deep Learning
- microSD card support
- WDR with double scan sensor
- Min. Illumination: 0.015 lx (0 lx, IR on)
- IR LED, range up to 50 m

DIMENSIONS



IMAGE

Image Sensor	8 MPX CMOS sensor 1/2.8" SONY STARVIS
Number of Effective Pixels	3864 (H) x 2192 (V)
Min. Illumination	0.015 lx/F1.4 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/3 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1/3 s
Wide Dynamic Range (WDR)	yes (double scan sensor), 120dB
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	motorized, auto-iris function, f=2.8 ~ 12 mm/F1.4
Auto-focus	zoom trigger, day/night mode trigger, manual trigger

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

NETWORK

Stream Resolution	3840 x 2160 (4K Ultra HD), 3072 x 2048, 2592 x 1944, 2592 x 1520, 1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 480 x 240, 320 x 240 (QVGA)
Frame Rate	20 fps for 3840 x 2160 (UHD) • 20 fps for 3072 x 2048 • 30 fps for 2592 x 1944 • 60 fps for 1920 x 1080 (Full HD) and lower resolutions
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.264+, H.264 Smart, H.265, H.265+, H.265 Smart, MJPEG/G.711
Number of Simultaneous Connections	max. 10
Bandwidth	60 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DDNS, NTP, RTSP, UPnP, SNMP, QoS/DSCP, IEEE 802.1X, PPPoE, SMTP, ICMP, Unicast, SSL/TLS

IP Motor-zoom Camera with video content analysis based on Deep Learning

NVIP-8VE-6502M/F

ONVIF Protocol Support	Profile S/G
Camera Configuration	from Internet Explorer browser • languages: Polish, English, Russian, and others
Compatible Software	NMS, NVR-6000 Viewer
Mobile applications	SuperLive Plus (iPhone, Android)

OTHER FUNCTIONS

Privacy Zones	4 video mask type: single color
Motion Detection	yes
Region of interest (ROI)	8
Video Content Analysis (VCA)	tamper, abandoned object, object disappearance, line cross, zone entrance, zone exit, object counting, face detection, pedestrian detection, cross counting, Scene Change, Video Blurred, Video Color Cast, objects distinguishing, people counting, vehicle detection, vehicle counting
Image Processing	180° image rotation, sharpening, mirror effect, corridor mode, vertical flip, horizontal flip, lens distortion correction
Prealarm/Postalarm	up to 6 s/up to 120 s
System Reaction to Alarm Events	e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card
Restoring default settings	via web browser, using reset button, via NMS IPTool software

IR LED

LED Number	2
Range	50 m
Smart IR	yes (software support)

INTERFACES

Audio Input/Output	1 x Jack (3.5 mm)/- built-in microphone
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 128GB

INSTALLATION PARAMETERS

Dimensions (mm)	112 (Φ) x 100 (H)
Weight	0.7 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	vandalproof IK10 impact rating aluminium, white
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	6 W • 10 W (IR on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)

IP Motor-zoom Camera with video content analysis based on Deep Learning

NVIP-8H-6522M/F



KEY FEATURES



- Resolution: 8 MPX (4K Ultra HD)
- Lens: motorized, auto-iris and auto-focus function, f=2.8 ~ 12 mm/F1.4
- Human/Vehicle Object Classification
- D/N function - IR cut filter
- Video content analysis based on Deep Learning
- microSD card support
- WDR with double scan sensor
- Min. Illumination: 0.015 lx (0 lx, IR on)
- IR LED, range up to 70 m (depends on current optical zoom value)

DIMENSIONS



IMAGE

Image Sensor	8 MPX CMOS sensor 1/2.8" SONY STARVIS
Number of Effective Pixels	3864 (H) x 2192 (V)
Min. Illumination	0.015 lx/F1.4 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/3 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1/3 s
Wide Dynamic Range (WDR)	yes (double scan sensor), 120dB
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Lens Type	motorized, auto-iris function, f=2.8 ~ 12 mm/F1.4
Auto-focus	zoom trigger, day/night mode trigger, manual trigger

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	yes

NETWORK

Stream Resolution	3840 x 2160 (4K Ultra HD), 3072 x 2048, 2592 x 1944, 2592 x 1520, 1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 480 x 240, 320 x 240 (QVGA)
Frame Rate	20 fps for 3840 x 2160 (UHD) • 20 fps for 3072 x 2048 • 30 fps for 2592 x 1944 • 60 fps for 1920 x 1080 (Full HD) and lower resolutions
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.264+, H.264 Smart, H.265, H.265+, H.265 Smart, MJPEG/G.711
Number of Simultaneous Connections	max. 10
Bandwidth	60 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DDNS, NTP, RTSP, UPnP, SNMP, QoS/DSCP, IEEE 802.1X, PPPoE, SMTP, ICMP, Unicast, SSL/TLS

IP Motor-zoom Camera with video content analysis based on Deep Learning

NVIP-8H-6522M/F

ONVIF Protocol Support	Profile S/G
Camera Configuration	from Internet Explorer browser • languages: Polish, English, Russian, and others
Compatible Software	NMS, NVR-6000 Viewer
Mobile applications	SuperLive Plus (iPhone, Android)

OTHER FUNCTIONS

Privacy Zones	4 video mask type: single color
Motion Detection	yes
Region of interest (ROI)	8
Video Content Analysis (VCA)	tamper, abandoned object, object disappearance, line cross, zone entrance, zone exit, object counting, face detection, pedestrian detection, cross counting, Scene Change, Video Blurred, Video Color Cast, objects distinguishing, people counting, vehicle detection, vehicle counting
Image Processing	180° image rotation, sharpening, mirror effect, corridor mode, vertical flip, horizontal flip, lens distortion correction
Prealarm/Postalarm	up to 6 s/up to 120 s
System Reaction to Alarm Events	e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card, alarm output activation
Restoring default settings	via web browser, using reset button, via NMS IPTool software

IR LED

LED Number	4
Range	up to 70 m (depends on current optical zoom value)
Smart IR	yes (software support)

INTERFACES

Video Output	BNC, 1.0 Vp-p, 75 Ohm
Audio Input/Output	1 x Jack (3.5 mm)/1 x Jack (3.5 mm)
Alarm Input/Output	1 (NO/NC)/1 relay type
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 128GB

INSTALLATION PARAMETERS

Dimensions (mm)	with bracket: 101 (W) x 89 (H) x 280 (L)
Weight	1.1 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	aluminium, white, fully cable managed wall mount bracket in-set included, IK10 impact rating
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	8 W • 14 W (IR on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)

Wall/ceiling mount bracket indoor/outdoor

NVB-6005JB

Type	wall/ceiling mount bracket, indoor/outdoor
Application	selected 6000 IP series models of camera (detailed list of compatible cameras and other products can be found on the website in the file in the "Downloads" tab)
Material	aluminium
Color	white
Load Capacity	10 kg
Dimensions (mm)	152 ϕ x 35 (height)
Weight	0.3 kg

Wall/ceiling mount bracket indoor/outdoor

NVB-6025JB

Type	wall/ceiling mount bracket, indoor/outdoor
Application	selected 6000 IP series models of camera (detailed list of compatible cameras and other products can be found on the website in the file in the "Downloads" tab)
Material	aluminium
Color	white
Load Capacity	10 kg
Dimensions (mm)	112 ϕ x 55 (height)
Weight	0.35 kg

Wall/ceiling mount bracket indoor/outdoor

NVB-6025JB/7043



DIMENSIONS



Type	wall/ceiling mount bracket, indoor/outdoor
Application	selected 6000 IP series models of camera (detailed list of compatible cameras and other products can be found on the website in the file in the "Downloads" tab)
Material	aluminium
Color	gray
Load Capacity	10 kg
Dimensions (mm)	112 ϕ x 55 (height)
Weight	0.35 kg

Wall/ceiling mount bracket indoor/outdoor NVB-6030JB



DIMENSIONS



Type	wall/ceiling mount adapter with cable gland, indoor/outdoor
Application	selected 6000 IP series models of camera (detailed list of compatible cameras and other products can be found on the website in the file in the "Downloads" tab)
Material	aluminium
Color	white
Load Capacity	10 kg
Degree of Protection	IP 66
Dimensions (mm)	118 ∅ x 47 (height)
Weight	0.4 kg

Wall/ceiling mount bracket indoor/outdoor

NVB-6030JB/7043



DIMENSIONS

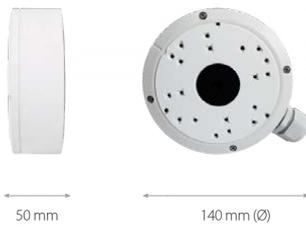


Type	wall/ceiling mount adapter with cable gland, indoor/outdoor
Application	selected 6000 IP series models of camera (detailed list of compatible cameras and other products can be found on the website in the file in the "Downloads" tab)
Material	aluminium
Color	gray
Load Capacity	10 kg
Degree of Protection	IP 66
Dimensions (mm)	118 ∅ x 47 (height)
Weight	0.4 kg

Wall/ceiling mount bracket indoor/outdoor NVB-6035JB



DIMENSIONS

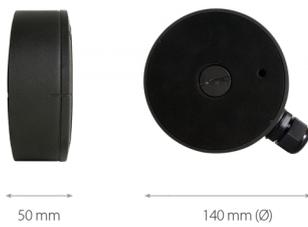


Type	wall/ceiling mount adapter with cable gland, indoor/outdoor
Application	selected 6000 IP series models of camera (detailed list of compatible cameras and other products can be found on the website in the file in the "Downloads" tab)
Material	aluminium
Color	white
Load Capacity	10 kg
Degree of Protection	IP 66
Dimensions (mm)	140 ϕ x 50 (height)
Weight	0.5 kg

Wall/ceiling mount bracket indoor/outdoor NVB-6035JB/7043



DIMENSIONS



Type	wall/ceiling mount adapter with cable gland, indoor/outdoor
Application	selected 6000 IP series models of camera (detailed list of compatible cameras and other products can be found on the website in the file in the "Downloads" tab)
Material	aluminium
Color	gray
Load Capacity	10 kg
Degree of Protection	IP 66
Dimensions (mm)	140 ϕ x 50 (height)
Weight	0.5 kg

Wall/ceiling mount bracket indoor/outdoor NVB-6040JB



DIMENSIONS



Type	wall/ceiling mount adapter with cable gland, indoor/outdoor
Application	selected 6000 IP series models of camera (detailed list of compatible cameras and other products can be found on the website in the file in the "Downloads" tab)
Material	aluminium
Color	white
Load Capacity	10 kg
Degree of Protection	IP 66
Dimensions (mm)	156 ϕ x 50 (height)
Weight	0.6 kg

Ceiling/wall mount cable managed bracket indoor/outdoor

NVB-6045JB



DIMENSIONS

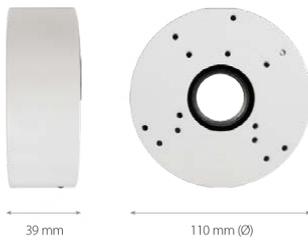


Type	wall/ceiling mount adapter with cable gland, indoor/outdoor
Application	selected 6000 IP series models of camera (detailed list of compatible cameras and other products can be found on the website in the file in the "Downloads" tab)
Material	aluminium
Color	white
Load Capacity	2 kg
Dimensions (mm)	131 ϕ x 33 (height)
Weight	0.5 kg

Wall/ceiling mount bracket indoor NVB-6050JB



DIMENSIONS



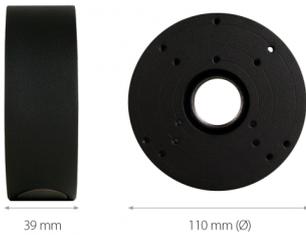
Type	wall/ceiling mount bracket, indoor
Application	selected 6000 IP series models of camera (detailed list of compatible cameras and other products can be found on the website in the file in the "Downloads" tab)
Material	aluminum alloy
Color	white
Load Capacity	3 kg
Dimensions (mm)	110 ϕ x 39 (height)
Weight	0.3 kg

Wall/ceiling mount bracket indoor

NVB-6050JB/7043



DIMENSIONS

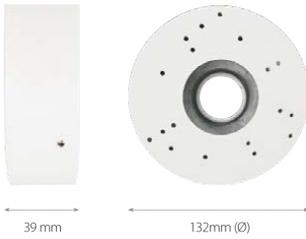


Type	wall/ceiling mount bracket, indoor
Application	selected 6000 IP series models of camera (detailed list of compatible cameras and other products can be found on the website in the "Downloads" tab)
Material	aluminum alloy
Color	gray
Load Capacity	3 kg
Dimensions (mm)	110 ϕ x 39 (height)
Weight	0.3 kg

wall/ceiling mount bracket, indoor NVB-6055JB



DIMENSIONS



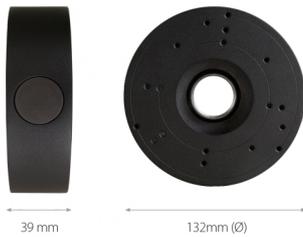
Type	wall/ceiling mount bracket, indoor
Application	selected 6000 IP series models of camera (detailed list of compatible cameras and other products can be found on the website in the file in the "Downloads" tab)
Material	aluminum alloy
Color	white
Load Capacity	3 kg
Dimensions (mm)	132 ϕ x 39 (height)
Weight	0.3 kg

wall/ceiling mount bracket, indoor

NVB-6055JB/7043



DIMENSIONS



Type	wall/ceiling mount bracket, indoor
Application	selected 6000 IP series models of camera (detailed list of compatible cameras and other products can be found on the website in the file in the "Downloads" tab)
Material	aluminum alloy
Color	gray
Load Capacity	3 kg
Dimensions (mm)	132 ϕ x 39 (height)
Weight	0.3 kg

Wall Mount Bracket NVB-6000WB



DIMENSIONS



Type	wall mount cable-managed bracket
Application	selected 6000 IP series models of camera (detailed list of compatible cameras and other products can be found on the website in the file in the "Downloads" tab)
Material	aluminium
Color	white
Load Capacity	2 kg
Dimensions (mm)	129.5 (W) x 74.5 (H) x 155 (L)
Weight	0.5 kg

Wall Mount Bracket NVB-6000WB/7043



DIMENSIONS



Type	wall mount cable-managed bracket
Application	selected 6000 IP series models of camera (detailed list of compatible cameras and other products can be found on the website in the file in the "Downloads" tab)
Material	aluminium
Color	gray
Load Capacity	2 kg
Dimensions (mm)	129.5 (W) x 74.5 (H) x 155 (L)
Weight	0.5 kg

Pole mount adapter

NVB-6000PA**DIMENSIONS**

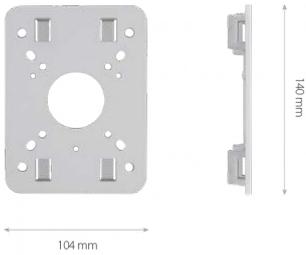
Type	pole mount adapter
Application	selected 6000 IP series models of camera (detailed list of compatible cameras and other products can be found on the website in the "Downloads" tab)
Material	steel
Color	white
Load Capacity	8 kg
Dimensions (mm)	164 (W) x 215 (H) ϕ range = 80 ~ 140
Weight	1 kg

Pole mount adapter

NVB-6050PA



DIMENSIONS

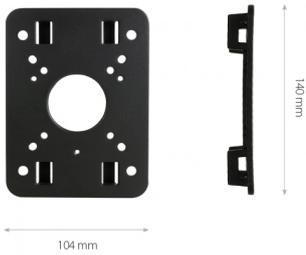


Type	pole mount adapter
Application	selected 6000 IP series models of camera (detailed list of compatible cameras and other products can be found on the website in the "Downloads" tab)
Material	aluminium
Color	white
Load Capacity	5 kg
Dimensions (mm)	104 (W) x 140 (H) ϕ range = 80 ~ 140
Weight	0.2 kg

Pole mount adapter NVB-6050PA/7043



DIMENSIONS



Type	pole mount adapter
Application	selected 6000 IP series models of camera (detailed list of compatible cameras and other products can be found on the website in the file in the "Downloads" tab)
Material	aluminium
Color	gray
Load Capacity	5 kg
Dimensions (mm)	104 (W) x 140 (H) ϕ range = 80 ~ 140
Weight	0.2 kg

Wall/ceiling mount bracket indoor/outdoor

NVB-6015VB

Type	wall mount cable-managed bracket, indoor/outdoor
Application	selected 6000 IP series models of camera (detailed list of compatible cameras and other products can be found on the website in the file in the "Downloads" tab)
Material	aluminium
Color	white
Load Capacity	6 kg
Dimensions (mm)	136 ϕ x 120 (height)
Weight	0.3 kg

In-ceiling mount adapter

NVB-6020FMB



Type	indoor
Application	3000 and 6000 series IP cameras (detailed compatibility list available as a file to download in section "Downloadable Files")
Material	plastic, steel
Color	white
Load Capacity	1.5 kg
Dimensions (mm)	233 \varnothing x 80 (height)
Weight	0.7 kg

Ceiling mount cable managed bracket

NVB-6600CB



Type	ceiling mount cable-managed bracket
Application	selected 6000 IP series models of camera (detailed list of compatible cameras and other products can be found on the website in the file in the "Downloads" tab)
Material	aluminium
Color	white
Load Capacity	2 kg
Dimensions (mm)	130 ϕ x 220 (height)
Weight	0.55 kg

Wall mount cable managed bracket

NVB-6600WB



DIMENSIONS



Type	wall mount cable-managed bracket
Application	selected 6000 IP series models of camera (detailed list of compatible cameras and other products can be found on the website in the file in the "Downloads" tab)
Material	aluminium
Color	white
Load Capacity	2 kg
Dimensions (mm)	130 (W) x 170 (H) x 195 (L)
Weight	0.57 kg

04

IP CAMERAS
SPEED DOME
6000 SERIES



Speed Dome IP Camera with face recognition and intelligent object tracking

NVIP-2SD-6540/25/F



6000 VSS IP

KEY FEATURES



- Resolution: 2 MPX
- Lens: motorized varifocal, AI and AF function, optical zoom 25x, f=4.8 ~ 120 mm/F1.65 ~ 3.8
- D/N function - IR cut filter
- Auto Tracking
- Video content analysis based on Deep Learning
- microSD card support
- WDR with double scan sensor
- Min. Illumination from 0.001 lx (0 lx, IR on)
- IR LED, range up to 150 m (depends on current optical zoom value)

DIMENSIONS



IMAGE

Image Sensor	2 MPX CMOS sensor 1/2.8" SONY
Number of Effective Pixels	1920 (H) x 1080 (V)
Min. Illumination	0.005 lx/F1.65 - color mode • 0.001 lx/F1.65 - B/W mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto: 1 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1 s
Wide Dynamic Range (WDR)	yes (double scan sensor), 120dB
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Optical Zoom	25x
Lens Type	motorized, auto-iris function, f=4.8 ~ 120 mm/F1.65 ~ F3.8
Auto-focus	zoom trigger, day/night mode trigger, manual trigger

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Schedule	yes
Visible Light Sensor	yes

NETWORK

Stream Resolution	1920 x 1080 (Full HD), 1280 x 720 (HD), 704 x 576, 704 x 480, 640 x 480 (VGA), 352 x 288 (CIF), 352 x 240
Frame Rate	30 fps for each resolution
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.265, MJPEG/-
Number of Simultaneous Connections	max. 6
Bandwidth	50 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, RTP, UPnP, SNMP, QoS, IEEE 802.1X, PPPoE, SMTP, RTCP, ICMP
ONVIF Protocol Support	Profile S

Speed Dome IP Camera with face recognition and intelligent object tracking

NVIP-2SD-6540/25/F

Camera Configuration from Internet Explorer browser • languages: Polish, English, and others

Compatible Software NMS, N Control 6000

Mobile applications SuperLive Plus (iPhone, Android)

PTZ

Preset Commands 360 including 20 special (function) presets

Tours 8 (up to 16 presets per tour)

Patterns 4 (max. 360 commands or 180 s for each pattern)

Tilt/Pan Range -5° ~ 90°/360° (continuous)

Pan/Tilt Speed up to 80°/s (proportional to zoom)

Preset Speed up to 80°/s

OTHER FUNCTIONS

Privacy Zones 4

Motion Detection yes

Video Content Analysis (VCA) Auto Tracking linked to Video Content Analysis (VCA) functions, tamper, line cross, zone entrance, zone exit, cross counting, Scene Change, Video Blurred, Video Color Cast, zone entrance detection and object tracking, objects distinguishing, face recognition

Image Processing 180° image rotation, sharpening, mirror effect

Prealarm/Postalarm up to 6 s/up to 120 s

System Reaction to Alarm Events e-mail with attachment, saving file on FTP server, saving file on SD card, object tracking

Restoring default settings via web browser, via NMS IPTool software

IR LED

LED Number 6

Range up to 150 m (depends on current optical zoom value)

Smart IR yes (hardware support)

INTERFACES

Network Interface 1 x Ethernet - RJ-45 interface, 10/100 Mbit/s

Memory Card Slot microSD - capacity up to 256GB

INSTALLATION PARAMETERS

Dimensions (mm) 173 (Φ) x 268 (H) with bracket: 173 (W) x 415 (H) x 300 (L)

Weight 2.1 kg with bracket: 2.8 kg

Degree of Protection IP 66 (details in the user's manual)

Enclosure aluminium, white, in set: outdoor housing (integrated with the camera), wall mount bracket

Power Supply PoE+, 12 VDC

Surge protection TVS 4000 V

Power Consumption 6 W • 15.5 W (IR on) • 22 W (IR and heater on)

Operating Temperature -30°C ~ 55°C

Humidity max. 90%, relative (non-condensing)

Built-in Heater/Fan yes/yes

Speed Dome IP Camera with face recognition and intelligent object tracking

NVIP-4SD-6540/25/F-II



6000 VSS IP

KEY FEATURES



- Resolution: 4 MPX
- Lens: motorized varifocal, AI and AF function, optical zoom 25x, f=4.8 ~ 120 mm/F1.65 ~ 3.8
- D/N function - IR cut filter
- Auto Tracking
- Video content analysis based on Deep Learning
- microSD card support
- WDR with double scan sensor
- Min. Illumination from 0.002 lx (0 lx, IR on)
- IR LED, range up to 130 m (depends on current optical zoom value)

DIMENSIONS



IMAGE

Image Sensor	4 MPX CMOS sensor 1/2.5" ON Semiconductor
Number of Effective Pixels	2592 (H) x 1944 (V)
Min. Illumination	0.01 lx/F1.65 - color mode • 0.002 lx/F1.65 - B/W mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto: 1 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1 s
Wide Dynamic Range (WDR)	yes (double scan sensor), 120dB
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Optical Zoom	25x
Lens Type	motorized, auto-iris function, f=4.8 ~ 120 mm/F1.65 ~ F3.8
Auto-focus	zoom trigger, day/night mode trigger, manual trigger

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Schedule	yes
Visible Light Sensor	yes

NETWORK

Stream Resolution	2560 x 1440 (QHD), 2048 x 1536 (QXGA), 1920 x 1080 (Full HD), 1280 x 960, 1280 x 720 (HD), 704 x 576, 640 x 480 (VGA), 352 x 288 (CIF)
Frame Rate	30 fps for each resolution
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.265, MJPEG/-
Number of Simultaneous Connections	max. 10
Bandwidth	50 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, RTP, UPnP, SNMP, QoS, IEEE 802.1X, PPPoE, SMTP, RTCP, ICMP
ONVIF Protocol Support	Profile S

Speed Dome IP Camera with face recognition and intelligent object tracking

NVIP-4SD-6540/25/F-II

Camera Configuration	from Internet Explorer browser • languages: Polish, English, and others
----------------------	---

Compatible Software	NMS, NVR-6000 Viewer, N Control 6000
---------------------	--------------------------------------

Mobile applications	SuperLive Plus (iPhone, Android)
---------------------	----------------------------------

PTZ

Preset Commands	360 including 20 special (function) presets
-----------------	---

Tours	8 (up to 16 presets per tour)
-------	-------------------------------

Patterns	4 (max. 360 commands or 180 s for each pattern)
----------	---

Tilt/Pan Range	-5° ~ 90°/360° (continuous)
----------------	-----------------------------

Pan/Tilt Speed	up to 80°/s (proportional to zoom)
----------------	------------------------------------

Preset Speed	up to 80°/s
--------------	-------------

OTHER FUNCTIONS

Motion Detection	yes
------------------	-----

Video Content Analysis (VCA)	Auto Tracking linked to Video Content Analysis (VCA) functions, tamper, line cross, zone entrance, zone exit, cross counting, Scene Change, Video Blurred, Video Color Cast, zone entrance detection and object tracking, objects distinguishing, comparing faces
------------------------------	---

Image Processing	180° image rotation, sharpening, mirror effect
------------------	--

Prealarm/Postalarm	up to 6 s/up to 120 s
--------------------	-----------------------

System Reaction to Alarm Events	e-mail with attachment, saving file on FTP server, saving file on SD card, object tracking
---------------------------------	--

Restoring default settings	via web browser, via NMS IPTool software
----------------------------	--

IR LED

LED Number	6
------------	---

Range	up to 130 m (depends on current optical zoom value)
-------	---

Smart IR	yes (hardware support)
----------	------------------------

INTERFACES

Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
-------------------	---

Memory Card Slot	microSD - capacity up to 256GB
------------------	--------------------------------

INSTALLATION PARAMETERS

Dimensions (mm)	173 (Φ) x 268 (H) with bracket: 173 (W) x 415 (H) x 300 (L)
-----------------	---

Weight	2.1 kg with bracket: 2.8 kg
--------	-----------------------------

Degree of Protection	IP 66 (details in the user's manual)
----------------------	--------------------------------------

Enclosure	aluminium, white, in set: outdoor housing (integrated with the camera), wall mount bracket
-----------	--

Power Supply	PoE+, 12 VDC
--------------	--------------

Surge protection	TVS 4000 V
------------------	------------

Power Consumption	6 W • 15.5 W (IR on) • 22 W (IR and heater on)
-------------------	--

Operating Temperature	-30°C ~ 55°C
-----------------------	--------------

Humidity	max. 90%, relative (non-condensing)
----------	-------------------------------------

Built-in Heater/Fan	yes/yes
---------------------	---------

Speed Dome IP Camera with face recognition and intelligent object tracking

NVIP-4SD-6550/30/F



6000 VSS IP

KEY FEATURES



- Resolution: 4 MPX
- Lens: motorized varifocal, AI and AF function, optical zoom 30x, f=4.7 ~ 141 mm/F1.5 ~ 4
- D/N function - IR cut filter
- Auto Tracking
- Video content analysis based on Deep Learning
- microSD card support
- WDR with double scan sensor
- two-way audio
- Min. Illumination from 0.002 lx (0 lx, IR on)
- IR LED, range up to 130 m (depends on current optical zoom value)

DIMENSIONS

IMAGE

Image Sensor	4 MPX CMOS sensor 1/2.5" ON Semiconductor
Number of Effective Pixels	2560 (H) x 1440 (V)
Min. Illumination	0.01 lx/F1.5 - color mode • 0.002 lx/F1.5 - B/W mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto: 1 s ~ 1/100000 s
Digital Slow Shutter (DSS)	up to 1 s
Wide Dynamic Range (WDR)	yes (double scan sensor), 120dB
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

LENS

Optical Zoom	30x
Lens Type	motorized, auto-iris function, f=4.7 ~ 141 mm/F1.5 ~ F4
Auto-focus	zoom trigger, day/night mode trigger, manual trigger

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Visible Light Sensor	yes

NETWORK

Stream Resolution	2560 x 1440 (QHD), 2304 x 1296, 1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 480 x 240, 320 x 240 (QVGA)
Frame Rate	30 fps for each resolution
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.265, MJPEG/G.711
Number of Simultaneous Connections	max. 10
Bandwidth	70 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, RTP, UPnP, SNMP, QoS, IEEE 802.1X, PPPoE, SMTP, RTCP, ICMP
ONVIF Protocol Support	Profile S
Camera Configuration	from Internet Explorer browser • languages: Polish, English, and others

Speed Dome IP Camera with face recognition and intelligent object tracking

NVIP-4SD-6550/30/F



Compatible Software	NMS, N Control 6000
Mobile applications	SuperLive Plus (iPhone, Android)

PTZ

Preset Commands	360 including 20 special (function) presets
Tours	8 (up to 16 presets per tour)
Patterns	4 (max. 360 commands or 180 s for each pattern)
Tilt/Pan Range	-3° ~ 90°/360° (continuous)
Pan/Tilt Speed	up to 80°/s (proportional to zoom)
Preset Speed	up to 150°/s

OTHER FUNCTIONS

Privacy Zones	4 video mask type: single color
Motion Detection	yes
Video Content Analysis (VCA)	Auto Tracking linked to Video Content Analysis (VCA) functions, tamper, line cross, zone entrance, zone exit, cross counting, Scene Change, Video Blurred, Video Color Cast, zone entrance detection and object tracking, objects distinguishing, comparing faces
Image Processing	180° image rotation, sharpening, mirror effect
Prealarm/Postalarm	up to 6 s/up to 120 s
System Reaction to Alarm Events	e-mail with attachment, saving file on FTP server, saving file on SD card, object tracking
Restoring default settings	via web browser, using reset button, via NMS IPTool software

IR LED

LED Number	5
Range	up to 130 m (depends on current optical zoom value)
Smart IR	yes (hardware support)

INTERFACES

Audio Input/Output	1 x Jack (3.5 mm)/1 x Jack (3.5 mm)
Alarm Input/Output	1 (NO/NC)/1 relay type
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 256GB

INSTALLATION PARAMETERS

Dimensions (mm)	209 (Φ) x 328 (H) with bracket: 209 (W) x 500 (H) x 315 (L)
Weight	3 kg with bracket: 3.7 kg
Degree of Protection	IP 66 (details in the user's manual)
Enclosure	aluminium, white, in set: outdoor housing (integrated with the camera), wall mount bracket
Power Supply	PoE+, 24 VDC/24 VAC
Surge protection	TVS 6000 V
Power Consumption	13 W • 20 W (IR illuminator on) • 30 W (IR and heater on)
Surge protection	TVS 6000 V
Operating Temperature	-30°C ~ 60°C
Humidity	max. 90%, relative (non-condensing)
Built-in Heater/Fan	yes/yes

Ceiling mount cable managed bracket

NVB-SD6000CB



Type	ceiling mount cable-managed bracket
Application	selected 6000 IP series models of camera (detailed list of compatible cameras and other products can be found on the website in the file in the "Downloads" tab)
Material	aluminium
Color	white
Load Capacity	6 kg
Dimensions (mm)	258 (length) x 116 (diameter)
Weight	0.6 kg

Corner mount adapter

NVB-6000CA



Type	corner mount adapter
Application	selected 6000 IP series models of camera (detailed list of compatible cameras and other products can be found on the website in the file in the "Downloads" tab)
Material	steel
Color	white
Load Capacity	8 kg
Dimensions (mm)	215 (W) x 215 (H) x 121 (D)
Weight	2 kg

Pole mount adapter

NVB-6000PA**DIMENSIONS**

Type	pole mount adapter
Application	selected 6000 IP series models of camera (detailed list of compatible cameras and other products can be found on the website in the "Downloads" tab)
Material	steel
Color	white
Load Capacity	8 kg
Dimensions (mm)	164 (W) x 215 (H) ϕ range = 80 ~ 140
Weight	1 kg

In-ceiling mount adapter

NVB-6030FMB



Type	indoor
Application	selected 6000 IP series models of camera (detailed list of compatible cameras and other products can be found on the website in the file in the "Downloads" tab)
Material	plastic, steel
Color	white
Load Capacity	1.5 kg
Dimensions (mm)	233 ϕ x 130 (height)
Weight	0.8 kg

The camera shown in the photo is not included with the adapter, it must be purchased separately

05

IP RECORDERS 6000 SERIES



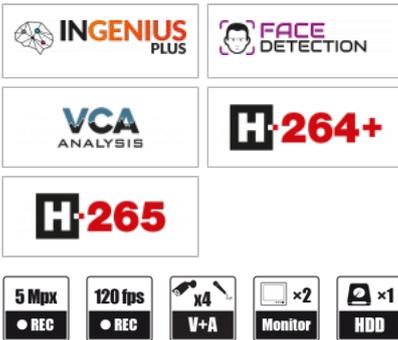
AAT SYSTEMY BEZPIECZEŃSTWA sp. z o.o.
431 Pulawska St, 02-801 Warsaw, Poland, phone +48 22 546 05 46, fax +48 22 546 05 01
www.aat.pl

IP Recorder NVR-6204-H1



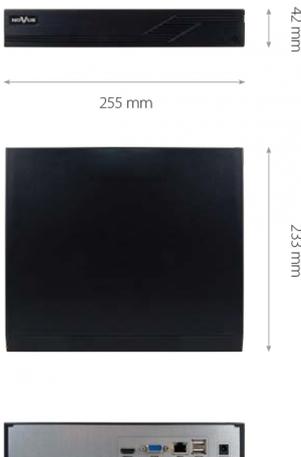
6000 VSS IP

KEY FEATURES



- Video and audio channels: 4
- Supported protocols: ONVIF
- Recording speed up to 120 fps at 2592 x 1944
- Supports resolution up to 2592 x 1944
- Recorded stream size: 32 Mb/s in total from all cameras
- Internal HDDs mount: 1
- Monitor outputs: 2 (HDMI, VGA)
- Intelligent image analysis

DIMENSIONS



VIDEO

IP Cameras	up to 4 channels at 2592 x 1944 resolution (video + audio)
Maximum Supported Camera Resolution	2592 x 1944
Compression	H.264, H.264+, H.265
Monitor Output	main (split screen, full screen, sequence): 1 x HDMI, 1 x VGA (up to 2 monitors simultaneously)
Dualstreaming Support	yes

AUDIO

Audio Input/Output	- / 1 x HDMI
--------------------	--------------

RECORDING

Stream Size	32 Mb/s in total from all cameras
Recording Mode	time-lapse, triggered by: manual, motion detection
Prealarm/Postalarm	up to 5 s/up to 600 s

DISPLAY

Display Speed	120 fps (4 x 30 fps)
---------------	----------------------

PLAYBACK

Playback Speed	120 fps (4 x 30 fps)
Recorded Data Search	by date/time, events

BACKUP

Backup Methods	USB port (HDD or Flash memory), network
Backup File Format	AVI, RPAS (player included)

STORAGE

Internal Storage	available mount: 1 x HDD 3.5" 6 TB SATA
Total Internal Capacity	6 TB

ALARM

Camera Alarm Input/Output	supports camera's alarm input/output
Motion Detection	supports camera's motion detection
System Reaction to Alarm Events	buzzer, recording activation, PTZ, e-mail with attachment

INTELLIGENT IMAGE ANALYSIS

Supported Functions	Exception, Scene Change, Video Blurred, Video Color Cast, Tripwire, Zone entrance, Abandoned Object, Object Disappearance, Face Detection, Perimeter Intrusion Detection by pedestrian or vehicle, Line Cross Detection by pedestrian or vehicle, Analysis of Recognized Number Plate Numbers (LPR)
---------------------	---

IP Recorder

NVR-6204-H1

NETWORK

Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Network Protocols Support	HTTP, TCP/IP, IPv4, FTP, DHCP, DNS, DDNS, NTP, RTSP, UPnP, SNMP, SMTP, P2P
ONVIF Protocol Support	Profile S (ONVIF 2.2 or higher)
PC/MAC Software	NMS, Internet Explorer, Firefox, Chrome, Opera, Safari, N Control 6000, Edge/Safari, N Control 6000
Mobile applications	SuperLive Plus (iPhone, Android)
Number of Simultaneous Connections	up to 5 clients, up to 8 main streams or 16 substreams or 4 playback streams in total
Bandwidth	32 Mb/s in total to all client workstations

PTZ

PTZ Functions	pan/tilt/zoom, preset commands
---------------	--------------------------------

AUXILIARY INTERFACES

USB Ports	2 x USB 2.0
-----------	-------------

OPERATING SYSTEM

Operating System	Linux
Operation Mode	triplex
OSD	languages: Polish, English, others
Control	PC mouse (in-set included), network
System Diagnostic	automatic control of: HDDs, network, camera connection loss
Security	password protection, IP filtering, MAC filtering

INSTALLATION PARAMETERS

Dimensions (mm)	255 (W) x 42 (H) x 233 (D)
Weight	0.675 kg (without HDD)
Power Supply	12 VDC (100 ~ 240 VAC/12 VDC PSU in-set included)
Power Consumption	18 W (with 1 HDD)
Operating Temperature	-10°C ~ 50°C

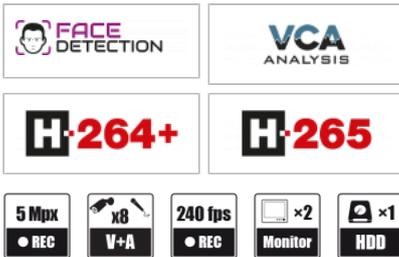
*In order to take full advantage of the recorder capabilities, it is recommended to use NOVUS IP 6000 series cameras. The availability of individual functions depends on the model of cameras used as well as the software version of the recorder and cameras. Detailed data can be found in the compatibility table available in the DOWNLOADS tab
The list of compatible drives is available in the DOWNLOADS tab.*

IP Recorder NVR-6208-H1



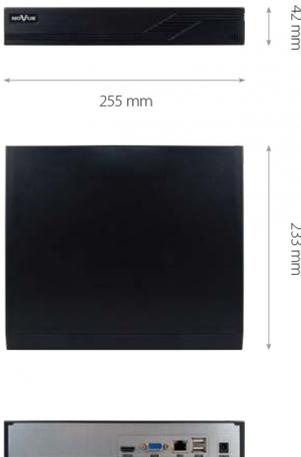
6000 VSS IP

KEY FEATURES



- Video and audio channels: 8
- Supported protocols: ONVIF
- Recording speed up to 240 fps at 2592 x 1944
- Supports resolution up to 2592 x 1944
- Recorded stream size: 56 Mb/s in total from all cameras
- Internal HDDs mount: 1
- Monitor outputs: 2 (HDMI, VGA)
- Intelligent image analysis

DIMENSIONS



VIDEO

IP Cameras	up to 8 channels at 2592 x 1944 resolution (video + audio)
Maximum Supported Camera Resolution	2592 x 1944
Compression	H.264, H.264+, H.265
Monitor Output	main (split screen, full screen, sequence): 1 x HDMI, 1 x VGA (up to 2 monitors simultaneously)
Dualstreaming Support	yes

AUDIO

Audio Input/Output	- / 1 x HDMI
--------------------	--------------

RECORDING

Stream Size	56 Mb/s in total from all cameras
Recording Mode	time-lapse, triggered by: manual, motion detection, intelligent image analysis functions
Prealarm/Postalarm	up to 5 s/up to 600 s

DISPLAY

Display Speed	240 fps (8 x 30 fps)
---------------	----------------------

PLAYBACK

Playback Speed	249 fps (8 x 30 fps)
Recorded Data Search	by date/time, events

BACKUP

Backup Methods	USB port (HDD or Flash memory), network
Backup File Format	AVI, RPAS (player included)

STORAGE

Internal Storage	available mount: 1 x HDD 3.5" 6 TB SATA
Total Internal Capacity	6 TB

ALARM

Camera Alarm Input/Output	supports camera's alarm input/output
Motion Detection	supports camera's motion detection
System Reaction to Alarm Events	buzzer, recording activation, PTZ, e-mail with attachment

INTELLIGENT IMAGE ANALYSIS

IP Recorder NVR-6208-H1

Supported Functions	Exception, Scene Change, Video Blurred, Video Color Cast, Tripwire, Zone entrance, Abandoned Object, Object Disappearance, Face Detection, Perimeter Intrusion Detection by pedestrian or vehicle, Line Cross Detection by pedestrian or vehicle, Analysis of Recognized Number Plate Numbers (LPR)
---------------------	---

NETWORK

Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Network Protocols Support	HTTP, TCP/IP, IPv4, FTP, DHCP, DNS, DDNS, NTP, RTSP, UPnP, SNMP, SMTP, P2P
ONVIF Protocol Support	Profile S (ONVIF 2.2 or higher)
PC/MAC Software	NMS, Internet Explorer, Firefox, Chrome, Opera, N Control 6000, Edge/Safari, N Control 6000
Mobile applications	SuperLive Plus (iPhone, Android)
Number of Simultaneous Connections	up to 5 clients, up to 12 main streams or 32 substreams or 8 playback streams in total
Bandwidth	56 Mb/s in total to all client workstations

PTZ

PTZ Functions	pan/tilt/zoom, preset commands
---------------	--------------------------------

AUXILIARY INTERFACES

USB Ports	2 x USB 2.0
-----------	-------------

OPERATING SYSTEM

Operating System	Linux
Operation Mode	triplex
OSD	languages: Polish, English, others
Control	PC mouse (in-set included), network
System Diagnostic	automatic control of: HDDs, network, camera connection loss
Security	password protection, IP filtering, MAC filtering

INSTALLATION PARAMETERS

Dimensions (mm)	255 (W) x 42 (H) x 233 (D)
Weight	0.65 kg (without HDD)
Power Supply	12 VDC (100 ~ 240 VAC/12 VDC PSU in-set included)
Power Consumption	18 W (with 1 HDD)
Operating Temperature	-10°C ~ 50°C

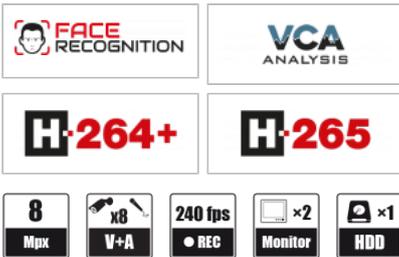
*In order to take full advantage of the recorder capabilities, it is recommended to use NOVUS IP 6000 series cameras. The availability of individual functions depends on the model of cameras used as well as the software version of the recorder and cameras. Detailed data can be found in the compatibility table available in the DOWNLOADS tab
The list of compatible drives is available in the DOWNLOADS tab.*

IP Recorder

NVR-6408-H1/F



KEY FEATURES



- Video and audio channels: 8
- Supported protocols: ONVIF, RTSP
- Recording speed up to 240 fps at 3840 x 2160
- Supports resolution up to 3840 x 2160
- Recorded stream size: 80 Mb/s in total from all cameras
- Internal HDDs mount: 1
- Monitor outputs: 2 (HDMI, VGA)
- Face recognition

DIMENSIONS



VIDEO

IP Cameras	up to 8 channels at 3840 x 2160 resolution (video + audio)
Compression	H.264, H.264+, H.265
Monitor Output	main (split screen, full screen, sequence): 1 x VGA, 1 x HDMI (4K UltraHD) (up to 2 monitors simultaneously)
Dualstreaming Support	yes
Fisheye Support	yes, 3000/6000 IP series cameras

AUDIO

Audio Input/Output	1 x line-in (RCA) / 1 x HDMI, 1 x line-out (RCA)
--------------------	--

RECORDING

Stream Size	80 Mb/s in total from all cameras
Recording Mode	time-lapse, triggered by: manual, alarm input, motion detection, intelligent image analysis functions
Prealarm/Postalarm	up to 5 s/up to 600 s

DISPLAY

Display Speed	240 fps (8 x 30 fps)
---------------	----------------------

PLAYBACK

Playback Speed	240 fps (8 x 30 fps)
Recorded Data Search	by date/time, events, motion in a defined area, related to face recognition

BACKUP

Backup Methods	USB port (HDD or Flash memory), network
Backup File Format	AVI, RPAS (player included)

STORAGE

Internal Storage	available mount: 1 x HDD 3.5" 10 TB SATA
Total Internal Capacity	10 TB

ALARM

Internal Alarm Input/Output	8/4 relay type
Camera Alarm Input/Output	supports camera's alarm input/output
Motion Detection	supports camera's motion detection
System Reaction to Alarm Events	buzzer, alarm output activation, recording activation, PTZ, e-mail with attachment

INTELLIGENT IMAGE ANALYSIS

IP Recorder

NVR-6408-H1/F

Supported Functions	Exception, Scene Change, Video Blurred, Video Color Cast, Tripwire, Zone entrance, Abandoned Object, Object Disappearance, Face Detection, Face Recognition, Perimeter Intrusion Detection by pedestrian or vehicle, Line Cross Detection by pedestrian or vehicle, Analysis of Recognized Number Plate Numbers (LPR)
---------------------	---

NETWORK

Network Interface	1 x Ethernet - RJ-45 interface, 10/100/1000 Mbit/s
Network Protocols Support	HTTP, TCP/IP, IPv4, FTP, DHCP, DNS, DDNS, NTP, RTSP, UPnP, SNMP, SMTP, P2P
ONVIF Protocol Support	Profile S (ONVIF 2.2 or higher)
PC/MAC Software	NMS, Internet Explorer, Firefox, Chrome, Opera, Safari, N Control 6000, Edge/Safari, N Control 6000
Mobile applications	SuperLive Plus (iPhone, Android)
Number of Simultaneous Connections	up to 5 clients, up to 12 main streams or 32 substreams or 8 playback streams in total
Bandwidth	80 Mb/s in total to all client workstations

PTZ

PTZ Functions	pan/tilt/zoom, preset commands
---------------	--------------------------------

AUXILIARY INTERFACES

USB Ports	1 x USB 2.0 1 x USB 3.0
-----------	-------------------------

OPERATING SYSTEM

Operating System	Linux
Operation Mode	triplex
OSD	languages: Polish, English, others
Control	PC mouse (in-set included), network
System Diagnostic	automatic control of: HDDs, network, camera connection loss
Security	password protection, IP filtering, MAC filtering

INSTALLATION PARAMETERS

Dimensions (mm)	300 (W) x 44 (H) x 248 (D)
Weight	0.65 kg (without HDD)
Power Supply	12 VDC (100 ~ 240 VAC/12 VDC PSU in-set included)
Power Consumption	18 W (with 1 HDD)
Operating Temperature	-10°C ~ 50°C

*In order to take full advantage of the recorder capabilities, it is recommended to use NOVUS IP 6000 series cameras. The availability of individual functions depends on the model of cameras used as well as the software version of the recorder and cameras. Detailed data can be found in the compatibility table available in the DOWNLOADS tab
The list of compatible drives is available in the DOWNLOADS tab.*

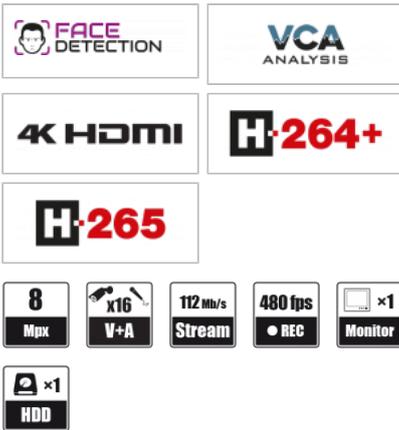
IP Recorder

NVR-6316-H1-II

6000 VSS IP



KEY FEATURES



- Video and audio channels: 16
- Supported protocols: ONVIF, RTSP
- Recording speed up to 480 fps at 3840 x 2160
- Supports resolution up to 3840 x 2160
- Recorded stream size: 112 Mb/s in total from all cameras
- Internal HDDs mount: 1
- Monitor outputs: 1 (HDMI (4K UltraHD), VGA)
- Intelligent image analysis

DIMENSIONS



VIDEO

IP Cameras	up to 16 channels at 3840 x 2160 resolution (video + audio)
Maximum Supported Camera Resolution	3840 x 2160
Compression	H.264, H.264+, H.265
Monitor Output	main (split screen, full screen, sequence): 1 x HDMI, 1 x VGA (up to 1 monitor simultaneously)
Dualstreaming Support	yes

AUDIO

Audio Input/Output	1 x line-in (RCA) / 1 x HDMI, 1 x line-out (RCA)
--------------------	--

RECORDING

Stream Size	112 Mb/s in total from all cameras
Recording Mode	time-lapse, triggered by: manual, motion detection, intelligent image analysis functions
Prealarm/Postalarm	up to 5 s/up to 600 s

DISPLAY

Display Speed	480 fps (16 x 30 fps)
---------------	-----------------------

PLAYBACK

Playback Speed	240 fps (8 x 16 fps)
Recorded Data Search	by date/time, events

BACKUP

Backup Methods	USB port (HDD or Flash memory), network
Backup File Format	AVI, RPAS (player included)

STORAGE

Internal Storage	available mount: 1 x HDD 3.5" 12 TB SATA
Total Internal Capacity	12 TB

ALARM

Camera Alarm Input/Output	supports camera's alarm input/output
Motion Detection	supports camera's motion detection
System Reaction to Alarm Events	buzzer, recording activation, PTZ, e-mail with attachment

INTELLIGENT IMAGE ANALYSIS

Supported Functions	Exception, Scene Change, Video Blurred, Video Color Cast, Tripwire, Zone entrance, Abandoned Object, Object Disappearance, Face Detection, Perimeter Intrusion Detection by pedestrian or vehicle, Line Cross Detection by pedestrian or vehicle, Analysis of Recognized Number Plate Numbers (LPR)
---------------------	---

NETWORK

Network Interface	1 x Ethernet - RJ-45 interface, 10/100/1000 Mbit/s
Network Protocols Support	HTTP, TCP/IP, IPv4, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, UPnP, SNMP, SMTP, P2P
ONVIF Protocol Support	Profile S (ONVIF 2.2 or higher)
PC/MAC Software	NMS, Internet Explorer, Firefox, Chrome, Opera, N Control 6000, Edge/Safari, N Control 6000
Mobile applications	SuperLive Plus (iPhone, Android)
Number of Simultaneous Connections	up to 5 clients, up to 20 main streams or 64 substreams or 16 playback streams in total
Bandwidth	112 Mb/s in total to all client workstations

PTZ

PTZ Functions	pan/tilt/zoom, preset commands
---------------	--------------------------------

AUXILIARY INTERFACES

USB Ports	2 x USB 2.0
-----------	-------------

OPERATING SYSTEM

Operating System	Linux
Operation Mode	triplex
OSD	languages: Polish, English, others
Control	PC mouse and IR remote controller (in-set included), network
System Diagnostic	automatic control of: HDDs, network, camera connection loss
Security	password protection, IP filtering, MAC filtering

INSTALLATION PARAMETERS

Dimensions (mm)	300 (W) x 52 (H) x 248 (D)
Weight	1.5 kg (without HDD)
Power Supply	12 VDC (100 ~ 240 VAC/12 VDC PSU in-set included)
Power Consumption	18 W (with 1 HDD)
Operating Temperature	-10°C ~ 50°C

*In order to take full advantage of the recorder capabilities, it is recommended to use NOVUS IP 6000 series cameras. The availability of individual functions depends on the model of cameras used as well as the software version of the recorder and cameras. Detailed data can be found in the compatibility table available in the DOWNLOADS tab
The list of compatible drives is available in the DOWNLOADS tab.*

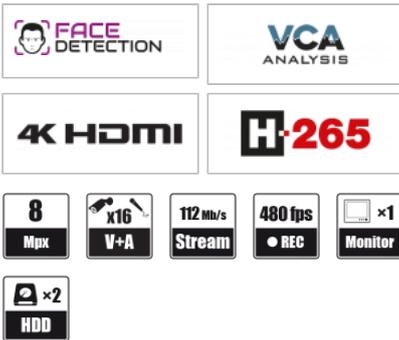
IP Recorder

NVR-6316-H2-II



6000 VSS IP

KEY FEATURES



- Video and audio channels: 16
- Supported protocols: ONVIF, RTSP
- Recording speed up to 480 fps at 3840 x 2160
- Supports resolution up to 3840 x 2160
- Recorded stream size: 112 Mb/s in total from all cameras
- Internal HDDs mount: 2
- Monitor outputs: 1 (HDMI (4K UltraHD), VGA)
- RACK mount
- Intelligent image analysis

DIMENSIONS



VIDEO

IP Cameras	up to 16 channels at 3840 x 2160 resolution (video + audio)
Maximum Supported Camera Resolution	3840 x 2160
Compression	H.264, H.264+, H.265
Monitor Output	main (split screen, full screen, sequence): 1 x HDMI, 1 x VGA (up to 1 monitor simultaneously)
Dualstreaming Support	yes

AUDIO

Audio Input/Output	- / 1 x line-out (RCA)
--------------------	------------------------

RECORDING

Stream Size	112 Mb/s in total from all cameras
Recording Mode	time-lapse, triggered by: manual, motion detection
Prealarm/Postalarm	up to 5 s/up to 600 s

DISPLAY

Display Speed	480 fps (16 x 30 fps)
---------------	-----------------------

PLAYBACK

Playback Speed	480 fps (16 x 30 fps)
Recorded Data Search	by date/time, events

BACKUP

Backup Methods	USB port (HDD or Flash memory), network
Backup File Format	AVI, RPAS (player included)

STORAGE

Internal Storage	available mount: 2 x HDD 3.5" 10 TB SATA
Total Internal Capacity	20 TB

ALARM

Internal Alarm Input/Output	4/1 relay type
Camera Alarm Input/Output	supports camera's alarm input/output
Motion Detection	supports camera's motion detection
System Reaction to Alarm Events	buzzer, alarm output activation, recording activation, PTZ, e-mail with attachment

INTELLIGENT IMAGE ANALYSIS

IP Recorder

NVR-6316-H2-II

Supported Functions	Exception, Scene Change, Video Blurred, Video Color Cast, Tripwire, Zone entrance, Abandoned Object, Object Disappearance, Face Detection, Perimeter Intrusion Detection by pedestrian or vehicle, Line Cross Detection by pedestrian or vehicle, Analysis of Recognized Number Plate Numbers (LPR)
---------------------	---

NETWORK

Network Interface	1 x Ethernet - RJ-45 interface, 10/100/1000 Mbit/s
Network Protocols Support	HTTP, TCP/IP, IPv4, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, UPnP, SNMP, SMTP, P2P
ONVIF Protocol Support	Profile S (ONVIF 2.2 or higher)
PC/MAC Software	NMS, Internet Explorer, Firefox, Chrome, Opera, N Control 6000, Edge/Safari, N Control 6000
Mobile applications	SuperLive Plus (iPhone, Android)
Number of Simultaneous Connections	up to 5 clients, up to 22 main streams or 64 substreams or 16 playback streams in total
Bandwidth	112 Mb/s in total to all client workstations

PTZ

PTZ Functions	pan/tilt/zoom, preset commands
---------------	--------------------------------

AUXILIARY INTERFACES

USB Ports	2 x USB 2.0
-----------	-------------

OPERATING SYSTEM

Operating System	Linux
Operation Mode	triplex
OSD	languages: Polish, English, others
Control	PC mouse and IR remote controller (in-set included), network
System Diagnostic	automatic control of: HDDs, network, camera connection loss
Security	password protection, IP filtering, MAC filtering

INSTALLATION PARAMETERS

Dimensions (mm)	380 (W) x 52 (H) x 268 (D)
Weight	1.52 kg (without HDD)
Power Supply	12 VDC (100 ~ 240 VAC/12 VDC PSU in-set included)
Power Consumption	30 W (with 2 HDDs)
Operating Temperature	-10°C ~ 50°C
RACK Mount 19"	1U

In order to take full advantage of the recorder capabilities, it is recommended to use NOVUS IP 6000 series cameras. The availability of individual functions depends on the model of cameras used as well as the software version of the recorder and cameras. Detailed data can be found in the compatibility table available in the DOWNLOADS tab
The list of compatible drives is available in the DOWNLOADS tab.

IP Recorder

NVR-6232-H2/F



6000 VSS IP

KEY FEATURES



- Video and audio channels: 32, with face recognition : 16
- Supported protocols: ONVIF, RTSP
- Recording speed up to 800 fps at 3840 x 2160
- Recorded stream size: 192 Mb/s in total from all cameras
- Internal HDDs mount: 2
- Monitor outputs: 2 (HDMI (4K UltraHD), VGA)
- RACK mount
- Face recognition (in 16 channels mode)

DIMENSIONS



VIDEO

IP Cameras	up to 32 channels at 3840 x 2160 resolution (video + audio) • up to 16 channels at 3840 x 2160 resolution with face recognition on (video + audio)
Maximum Supported Camera Resolution	3840 x 2160
Compression	H.264, H.265, H.265+, H.265 Smart
Monitor Output	main (split screen, full screen, sequence): 1 x VGA, 1 x HDMI (4K UltraHD) (up to 2 monitors simultaneously)
Dualstreaming Support	yes
Fisheye Support	yes, 6000 IP series cameras

AUDIO

Audio Input/Output	1 x line-in (RCA) / 1 x line-out (RCA), 1 x HDMI
--------------------	--

RECORDING

Recording Speed	800 fps (32 x 25 fps for 3840 x 2160) • 400 fps (16 x 25 fps for 3840 x 2160) with face recognition on
Stream Size	192 Mb/s in total from all cameras
Recording Mode	time-lapse, triggered by: manual, alarm input, motion detection
Prealarm/Postalarm	up to 5 s/up to 600 s

DISPLAY

Display Speed	800 fps (32 x 25 fps) • 400 kl/s (32 x 25 kl/s) with face recognition on
---------------	--

PLAYBACK

Playback Speed	400 fps (16 x 25 fps)
Recorded Data Search	by date/time, events, motion in a defined area, related to face recognition

BACKUP

Backup Methods	USB port (HDD or Flash memory), network
Backup File Format	AVI, RPAS (player included)

STORAGE

Internal Storage	available mount: 2 x HDD 3.5" 10 TB SATA
Total Internal Capacity	20 TB

ALARM

Internal Alarm Input/Output	8/4 relay type
Camera Alarm Input/Output	supports IP camera's alarm input/output
Motion Detection	supports camera's motion detection

System Reaction to Alarm Events buzzer, e-mail, recording activation, PTZ

INTELLIGENT IMAGE ANALYSIS

Supported Functions	Exception, Scene Change, Video Blurred, Video Color Cast, Tripwire, Zone entrance, Abandoned Object, Object Disappearance, Face Recognition, Perimeter Intrusion Detection by pedestrian or vehicle, Line Cross Detection by pedestrian or vehicle, Analysis of Recognized Number Plate Numbers (LPR)
---------------------	---

NETWORK

Network Interface	1 x Ethernet - RJ-45 interface, 10/100/1000 Mbit/s
Network Protocols Support	HTTP, TCP/IP, IPv4, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, UPnP, SNMP, SMTP, P2P
ONVIF Protocol Support	Profile S (ONVIF 2.2 or higher)
PC/MAC Software	NMS, Internet Explorer, Firefox, Chrome, Opera, N Control 6000, Edge/Safari, N Control 6000
Mobile applications	SuperLive Plus (iPhone, Android)
Number of Simultaneous Connections	up to 20 clients, up to 36 main streams or 128 substreams or 16 playback streams in total
Bandwidth	192 Mb/s in total to all client workstations

PTZ

PTZ Functions	pan/tilt/zoom, preset commands
---------------	--------------------------------

AUXILIARY INTERFACES

USB Ports	1 x USB 2.0, 1 x USB 3.0,
-----------	---------------------------

OPERATING SYSTEM

Operating System	Linux
Operation Mode	triplex
OSD	languages: Polish, English, others
Control	PC mouse and IR remote controller (in-set included), network
System Diagnostic	automatic control of: HDDs, network, camera connection loss
Security	password protection, IP filtering, MAC filtering

INSTALLATION PARAMETERS

Dimensions (mm)	380 (W) x 53 (H) x 268 (D)
Weight	1.5 kg (without HDD)
Power Supply	12 VDC (100 ~ 240 VAC/12 VDC PSU in-set included)
Power Consumption	40 W (with 2 HDDs)
Operating Temperature	-10°C ~ 50°C
RACK Mount 19"	1U

In order to take full advantage of the recorder capabilities it is recommended to use NOVUS IP 6000 series cameras.

The availability of individual functions (including face recognition) depends on the model of cameras used as well as the software version of the recorder and cameras.

In order to create face recognition system please deploy 6000 series cameras with "F" in the model name only.

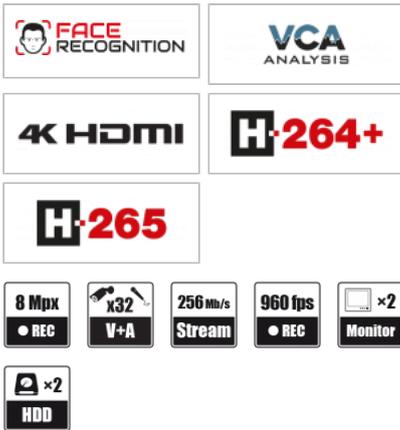
Detailed data on camera compatibility with recorders and compatible hard drives can be found in the compatibility tables available in the DOWNLOADABLE FILES tab.

IP Recorder

NVR-6332-H2/F



KEY FEATURES



- Video and audio channels: 32
- Supported protocols: ONVIF, RTSP
- Recording speed up to 960 fps at 3840 x 2160
- Recorded stream size: 256 Mb/s in total from all cameras
- Internal HDDs mount: 2
- Monitor outputs: 2 (HDMI (4K UltraHD), VGA)
- RACK mount
- Face recognition

DIMENSIONS



VIDEO

IP Cameras	up to 32 channels at 3840 x 2160 resolution (video + audio)
Maximum Supported Camera Resolution	3840 x 2160
Compression	H.264, H.264+, H.265, H.265+, H.265 Smart
Monitor Output	main (split screen, full screen, sequence): 1 x VGA, 1 x HDMI (4K UltraHD) (up to 2 monitors simultaneously) • spot: 1 x VGA (FullHD) interchangeably to main output
Dualstreaming Support	yes
Fisheye Support	yes, 3000/6000 IP series cameras

AUDIO

Audio Input/Output	1 x line-in (RCA) / 1 x line-out (RCA), 1 x HDMI
--------------------	--

RECORDING

Stream Size	256 Mb/s in total from all cameras
Recording Mode	time-lapse, triggered by: manual, alarm input, motion detection
Prealarm/Postalarm	up to 5 s/up to 600 s

DISPLAY

Display Speed	960 fps (32 x 30 fps)
---------------	-----------------------

PLAYBACK

Playback Speed	480 fps (16 x 30 fps)
Recorded Data Search	by date/time, events, motion in a defined area, related to face recognition

BACKUP

Backup Methods	USB port (HDD or Flash memory), network
Backup File Format	AVI, RPAS (player included)

STORAGE

Internal Storage	available mount: 2 x HDD 3.5" 14 TB SATA
Total Internal Capacity	28 TB

ALARM

Camera Alarm Input/Output	supports camera's alarm input/output
Motion Detection	supports camera's motion detection
System Reaction to Alarm Events	buzzer, e-mail, recording activation, PTZ

INTELLIGENT IMAGE ANALYSIS

IP Recorder

NVR-6332-H2/F

Supported Functions	Exception, Scene Change, Video Blurred, Video Color Cast, Tripwire, Zone entrance, Abandoned Object, Object Disappearance, Face Recognition, Perimeter Intrusion Detection by pedestrian or vehicle, Line Cross Detection by pedestrian or vehicle, Analysis of Recognized Number Plate Numbers (LPR)
---------------------	---

NETWORK

Network Interface	1 x Ethernet - RJ-45 interface, 10/100/1000 Mbit/s
Network Protocols Support	HTTP, TCP/IP, IPv4, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, UPnP, SNMP, SMTP, P2P
ONVIF Protocol Support	Profile S (ONVIF 2.2 or higher)
PC/MAC Software	NMS, Internet Explorer, Firefox, Chrome, Opera, N Control 6000, Edge/Safari, N Control 6000
Mobile applications	SuperLive Plus (iPhone, Android)
Number of Simultaneous Connections	up to 10 clients, up to 36 main streams or 128 substreams or 16 playback streams in total
Bandwidth	256 Mb/s in total to all client workstations

PTZ

PTZ Functions	pan/tilt/zoom, preset commands
---------------	--------------------------------

AUXILIARY INTERFACES

USB Ports	1 x USB 2.0 1 x USB 3.0
-----------	-------------------------

OPERATING SYSTEM

Operating System	Linux
Operation Mode	triplex
OSD	languages: Polish, English, others
Control	PC mouse and IR remote controller (in-set included), network
System Diagnostic	automatic control of: HDDs, network, camera connection loss
Security	password protection, IP filtering, MAC filtering

INSTALLATION PARAMETERS

Dimensions (mm)	380 (W) x 53 (H) x 268 (D)
Weight	1.5 kg (without HDD)
Power Supply	12 VDC (100 ~ 240 VAC/12 VDC PSU in-set included)
Power Consumption	40 W (with 2 HDDs)
Operating Temperature	-10°C ~ 50°C
RACK Mount 19"	1U

*In order to take full advantage of the recorder capabilities, it is recommended to use NOVUS IP 6000 series cameras. The availability of individual functions depends on the model of cameras used as well as the software version of the recorder and cameras. Detailed data can be found in the compatibility table available in the DOWNLOADS tab
The list of compatible drives is available in the DOWNLOADS tab.*

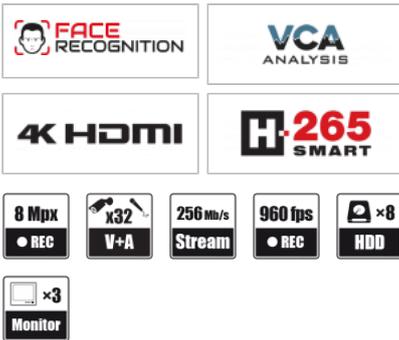
IP Recorder

NVR-6332-H8/FR

6000 VSS IP



KEY FEATURES



- Video and audio channels: 32
- Supported protocols: ONVIF, RTSP
- Recording speed up to 960 fps at 3840 x 2160
- Supports resolution up to 3840 x 2160
- Recorded stream size: 256 Mb/s in total from all cameras
- Internal HDDs mount: 8
- Monitor outputs: 3 (HDMI (4K UltraHD), HDMI, VGA)
- Face recognition
- RAID protects recordings

DIMENSIONS



VIDEO

IP Cameras	up to 32 channels at 3840 x 2160 resolution (video + audio)
Maximum Supported Camera Resolution	3840 x 2160
Compression	H.264, H.264+, H.265, H.265+, H.265 Smart
Monitor Output	main (split screen, full screen, sequence): 1 x VGA, 1 x HDMI (4K UltraHD) • spot: 1 x HDMI (FullHD)
Dualstreaming Support	yes
Fisheye Support	yes, 3000/6000 IP series cameras

AUDIO

Audio Input/Output	1 x line-in (RCA) / 1 x HDMI, 1 x line-out (RCA)
--------------------	--

RECORDING

Stream Size	256 Mb/s in total from all cameras
Recording Mode	time-lapse, triggered by: manual, alarm input, motion detection, intelligent image analysis functions
Prealarm/Postalarm	up to 5 s/up to 600 s

DISPLAY

Display Speed	960 fps (32 x 30 fps)
---------------	-----------------------

PLAYBACK

Playback Speed	480 fps (16 x 30 fps)
Recorded Data Search	by date/time, events, motion in a defined area, related to face recognition

BACKUP

Backup Methods	USB port (HDD or Flash memory), network
Backup File Format	AVI, RPAS (player included)

STORAGE

Internal Storage	available mount: 8 x HDD 3.5" 14 TB SATA
Total Internal Capacity	112 TB
RAID Mode	RAID0, RAID1, RAID5, RAID6

ALARM

Internal Alarm Input/Output	8/4 relay type
Camera Alarm Input/Output	supports camera's alarm input/output
Motion Detection	supports camera's motion detection
System Reaction to Alarm Events	buzzer, e-mail, alarm output activation, recording activation, PTZ

INTELLIGENT IMAGE ANALYSIS

Supported Functions	Exception, Scene Change, Video Blurred, Video Color Cast, Tripwire, Zone entrance, Abandoned Object, Object Disappearance, Face Recognition, Perimeter Intrusion Detection by pedestrian or vehicle, Line Cross Detection by pedestrian or vehicle, Analysis of Recognized Number Plate Numbers (LPR)
---------------------	---

NETWORK

Network Interface	2 x Ethernet - RJ-45 interface, 10/100/1000 Mbit/s
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, UPnP, SNMP, IEEE 802.1X, SMTP, P2P
ONVIF Protocol Support	Profile S (ONVIF 2.2 or higher)
PC/MAC Software	NMS, Internet Explorer, Firefox, Chrome, Opera, N Control 6000, Edge/Safari, N Control 6000
Mobile applications	SuperLive Plus (iPhone, Android)
Number of Simultaneous Connections	up to 10 clients, up to 36 main streams or 128 substreams or 16 playback streams in total
Bandwidth	256 Mb/s in total to all client workstations

PTZ

PTZ Functions	pan/tilt/zoom, preset commands
---------------	--------------------------------

AUXILIARY INTERFACES

USB Ports	2 x USB 2.0 1 x USB 3.0
-----------	-------------------------

OPERATING SYSTEM

Operating System	Linux
OSD	languages: Polish, English, others
Control	PC mouse and IR remote controller (in-set included), network
System Diagnostic	automatic control of: HDDs, network, camera connection loss
Security	password protection, IP filtering, MAC filtering

INSTALLATION PARAMETERS

Dimensions (mm)	430 (W) x 90 (H) x 453 (D)
Weight	6 kg (without HDD)
Power Supply	100 ~ 240 VAC
Power Consumption	175 W (with 8 HDDs)
Operating Temperature	-10°C ~ 50°C
RACK Mount 19"	2U

*In order to take full advantage of the recorder capabilities, it is recommended to use NOVUS IP 6000 series cameras. The availability of individual functions depends on the model of cameras used as well as the software version of the recorder and cameras. Detailed data can be found in the compatibility table available in the DOWNLOADS tab
The list of compatible drives is available in the DOWNLOADS tab.*

IP Recorder

NVR-6432-H2/F



KEY FEATURES



- Video and audio channels: 32
- Supported protocols: ONVIF, RTSP
- Recording speed up to 960 fps at 4000 x 3000
- Recorded stream size: 192 Mb/s in total from all cameras
- Internal HDDs mount: 2
- Monitor outputs: 2 (HDMI (4K UltraHD), VGA)
- RACK mount
- Face recognition

DIMENSIONS



VIDEO

IP Cameras	up to 32 channels at 4000 x 3000 resolution (video + audio)
Maximum Supported Camera Resolution	4000 x 3000
Compression	H.264, H.265, H.265+, H.265 Smart
Monitor Output	main (split screen, full screen, sequence): 1 x VGA, 1 x HDMI (4K UltraHD) (up to 2 monitors simultaneously) • spot: 1 x HDMI (FullHD)
Dualstreaming Support	yes

AUDIO

Audio Input/Output	1 x line-in (RCA) / 1 x line-out (RCA), 1 x HDMI
--------------------	--

RECORDING

Stream Size	192 Mb/s in total from all cameras
Recording Mode	time-lapse, triggered by: manual, alarm input, motion detection
Prealarm/Postalarm	up to 5 s/up to 600 s

DISPLAY

Display Speed	960 fps (32 x 30 fps)
---------------	-----------------------

PLAYBACK

Playback Speed	480 fps (16 x 30 fps)
Recorded Data Search	by date/time, events, motion in a defined area, related to face recognition

BACKUP

Backup Methods	USB port (HDD or Flash memory), network
Backup File Format	AVI, RPAS (player included)

STORAGE

Internal Storage	available mount: 2 x HDD 3.5" 10 TB SATA
Total Internal Capacity	20 TB

ALARM

Internal Alarm Input/Output	8/4 relay type
Camera Alarm Input/Output	supports IP camera's alarm input/output
Motion Detection	supports camera's motion detection
System Reaction to Alarm Events	buzzer, recording activation, PTZ, e-mail with attachment, Full Screen

INTELLIGENT IMAGE ANALYSIS

IP Recorder

NVR-6432-H2/F

Supported Functions	Exception, Scene Change, Video Blurred, Video Color Cast, Tripwire, Zone entrance, Abandoned Object, Object Disappearance, Face Recognition, Perimeter Intrusion Detection by pedestrian or vehicle, Line Cross Detection by pedestrian or vehicle, Analysis of Recognized Number Plate Numbers (LPR)
---------------------	---

NETWORK

Network Interface	2 x Ethernet - RJ-45 interface, 10/100/1000 Mbit/s
Network Protocols Support	HTTP, TCP/IP, IPv4, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, UPnP, SNMP, SMTP, P2P
ONVIF Protocol Support	Profile S (ONVIF 2.2 or higher)
PC/MAC Software	NMS, Internet Explorer, Firefox, Chrome, Opera, N Control 6000, Edge/Safari, N Control 6000
Mobile applications	SuperLive Plus (iPhone, Android)
Number of Simultaneous Connections	up to 20 clients, up to 36 main streams or 128 substreams or 32 playback streams in total
Bandwidth	192 Mb/s in total to all client workstations

PTZ

PTZ Functions	pan/tilt/zoom, preset commands
---------------	--------------------------------

AUXILIARY INTERFACES

USB Ports	2 x USB 2.0, 1 x USB 3.0,
-----------	---------------------------

OPERATING SYSTEM

Operating System	Linux
Operation Mode	triplex
OSD	languages: Polish, English, others
Control	PC mouse and IR remote controller (in-set included), network
System Diagnostic	automatic control of: HDDs, network, camera connection loss
Security	password protection, IP filtering, MAC filtering

INSTALLATION PARAMETERS

Dimensions (mm)	380 (W) x 53 (H) x 268 (D)
Weight	1.5 kg (without HDD)
Power Supply	12 VDC (100 ~ 240 VAC/12 VDC PSU in-set included)
Power Consumption	40 W (with 2 HDDs)
Operating Temperature	-10°C ~ 50°C
RACK Mount 19"	1U

In order to take full advantage of the recorder capabilities it is recommended to use NOVUS IP 6000 series cameras.

The availability of individual functions (including face recognition) depends on the model of cameras used as well as the software version of the recorder and cameras.

In order to create face recognition system please deploy 6000 series cameras with "F" in the model name only.

Detailed data on camera compatibility with recorders and compatible hard drives can be found in the compatibility tables available in the DOWNLOADABLE FILES tab.

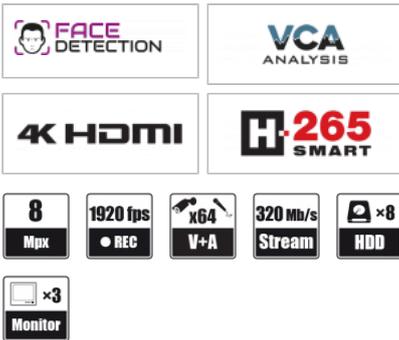
IP Recorder

NVR-6364-H8/R

6000 VSS PROJECT



KEY FEATURES



- Video and audio channels: 64
- Supported protocols: ONVIF, RTSP
- Recording speed up to 1920 fps at 3840 x 2160
- Supports resolution up to 3840 x 2160
- Recorded stream size: 320 Mb/s in total from all cameras
- Internal HDDs mount: 8
- Monitor outputs: 3 (HDMI (4K UltraHD), HDMI, VGA)
- Intelligent image analysis
- RAID protects recordings

DIMENSIONS



VIDEO

IP Cameras	up to 64 channels at 3840 x 2160 resolution (video + audio)
Maximum Supported Camera Resolution	3840 x 2160
Compression	H.264, H.264+, H.265, H.265+, H.265 Smart
Monitor Output	main (split screen, full screen, sequence): 1 x VGA, 1 x HDMI (4K UltraHD) • spot: 1 x HDMI (FullHD)
Dualstreaming Support	yes
Fisheye Support	yes, 3000/6000 IP series cameras

AUDIO

Audio Input/Output	1 x line-in (RCA) / 1 x HDMI, 1 x line-out (RCA)
--------------------	--

RECORDING

Stream Size	320 Mb/s in total from all cameras
Recording Mode	time-lapse, triggered by: manual, alarm input, motion detection, intelligent image analysis functions
Prealarm/Postalarm	up to 5 s/up to 600 s

DISPLAY

Display Speed	1920 fps (64 x 30 fps)
---------------	------------------------

PLAYBACK

Playback Speed	480 fps (16 x 30 fps)
Recorded Data Search	by date/time, events, motion in a defined area, related to face recognition

BACKUP

Backup Methods	USB port (HDD or Flash memory), network
Backup File Format	AVI, RPAS (player included)

STORAGE

Internal Storage	available mount: 8 x HDD 3.5" 14 TB SATA
Total Internal Capacity	112 TB
RAID Mode	RAID0, RAID1, RAID5, RAID6, RAID10

ALARM

Internal Alarm Input/Output	8/4 relay type
Camera Alarm Input/Output	supports camera's alarm input/output
Motion Detection	supports camera's motion detection
System Reaction to Alarm Events	buzzer, e-mail, alarm output activation, recording activation, PTZ

INTELLIGENT IMAGE ANALYSIS

Supported Functions	Exception, Scene Change, Video Blurred, Video Color Cast, Tripwire, Zone entrance, Abandoned Object, Object Disappearance, Face Detection, Perimeter Intrusion Detection by pedestrian or vehicle, Line Cross Detection by pedestrian or vehicle, Analysis of Recognized Number Plate Numbers (LPR)
---------------------	---

NETWORK

Network Interface	2 x Ethernet - RJ-45 interface, 10/100/1000 Mbit/s
Network Protocols Support	HTTP, TCP/IP, IPv4, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, UPnP, SNMP, SMTP, P2P
ONVIF Protocol Support	Profile S (ONVIF 2.2 or higher)
PC/MAC Software	NMS, Internet Explorer, Firefox, Chrome, Opera, Safari, N Control 6000, Edge/Safari, N Control 6000
Mobile applications	SuperLive Plus (iPhone, Android)
Number of Simultaneous Connections	up to 20 clients, up to 68 main streams or 256 substreams or 32 playback streams in total
Bandwidth	320 Mb/s in total to all client workstations

PTZ

PTZ Functions	pan/tilt/zoom, preset commands
---------------	--------------------------------

AUXILIARY INTERFACES

USB Ports	2 x USB 2.0 1 x USB 3.0
-----------	-------------------------

OPERATING SYSTEM

Operating System	Linux
OSD	languages: Polish, English, others
Control	PC mouse and IR remote controller (in-set included), network
System Diagnostic	automatic control of: HDDs, network, camera connection loss
Security	password protection, IP filtering, MAC filtering

INSTALLATION PARAMETERS

Dimensions (mm)	430 (W) x 90 (H) x 453 (D)
Weight	6 kg (without HDD)
Power Supply	100 ~ 240 VAC
Power Consumption	175 W (with 8 HDDs)
Operating Temperature	-10°C ~ 50°C
RACK Mount 19"	2U

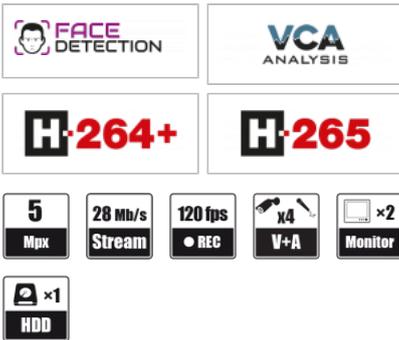
*In order to take full advantage of the recorder capabilities, it is recommended to use NOVUS IP 6000 series cameras. The availability of individual functions depends on the model of cameras used as well as the software version of the recorder and cameras. Detailed data can be found in the compatibility table available in the DOWNLOADS tab
The list of compatible drives is available in the DOWNLOADS tab.*

IP Recorder

NVR-6204P4-H1

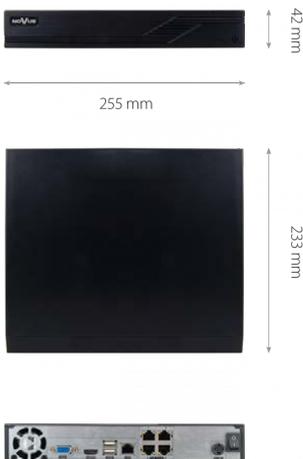


KEY FEATURES



- 4 x Ethernet PoE - RJ-45 interface, 10/100 Mbit/s
- Video and audio channels: 4
- Supported protocols: ONVIF, RTSP
- Recording speed up to 120 fps at 2592 x 1944
- Supports resolution up to 2592 x 1944
- Recorded stream size: 28 Mb/s in total from all cameras
- Internal HDDs mount: 1
- Monitor outputs: 2 (HDMI, VGA)
- Intelligent image analysis

DIMENSIONS



VIDEO

IP Cameras	up to 4 channels at 2592 x 1944 resolution (video + audio)
Maximum Supported Camera Resolution	2592 x 1944
Compression	H.264, H.264+, H.265
Monitor Output	main (split screen, full screen, sequence): 1 x HDMI, 1 x VGA (up to 2 monitors simultaneously)
Dualstreaming Support	yes

AUDIO

Audio Input/Output	- / 1 x HDMI
--------------------	--------------

RECORDING

Stream Size	28 Mb/s in total from all cameras
Recording Mode	time-lapse, triggered by: manual, motion detection
Prealarm/Postalarm	up to 5 s/up to 600 s

DISPLAY

Display Speed	120 fps (4 x 30 fps)
---------------	----------------------

PLAYBACK

Playback Speed	120 fps (4 x 30 fps)
Recorded Data Search	by date/time, events

BACKUP

Backup Methods	USB port (HDD or Flash memory), network
Backup File Format	AVI

STORAGE

Internal Storage	available mount: 1 x HDD 3.5" 6 TB SATA
Total Internal Capacity	6 TB

ALARM

Camera Alarm Input/Output	supports camera's alarm input/output
Motion Detection	supports camera's motion detection
System Reaction to Alarm Events	buzzer, recording activation, PTZ, e-mail with attachment

INTELLIGENT IMAGE ANALYSIS

Supported Functions	Exception, Scene Change, Video Blurred, Video Color Cast, Tripwire, Zone entrance, Abandoned Object, Object Disappearance, Face Detection, Perimeter Intrusion Detection by pedestrian or vehicle, Line Cross Detection by pedestrian or vehicle, Analysis of Recognized Number Plate Numbers (LPR)
---------------------	---

NETWORK

Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s • 4 x Ethernet PoE - RJ-45 interface, 10/100 Mbit/s
Network Protocols Support	HTTP, TCP/IP, IPv4, FTP, DHCP, DNS, DDNS, NTP, RTSP, UPnP, SNMP, SMTP, P2P
ONVIF Protocol Support	Profile S (ONVIF 2.2 or higher)
PC/MAC Software	NMS, Internet Explorer, Firefox, Chrome, Opera, Safari, N Control 6000, Edge/Safari, N Control 6000
Mobile applications	SuperLive Plus (iPhone, Android)
Number of Simultaneous Connections	up to 5 clients, up to 8 main streams or 16 substreams or 4 playback streams in total
Bandwidth	28 Mb/s in total to all client workstations

PTZ

PTZ Functions	pan/tilt/zoom, preset commands
---------------	--------------------------------

AUXILIARY INTERFACES

USB Ports	2 x USB 2.0
-----------	-------------

OPERATING SYSTEM

Operating System	Linux
Operation Mode	triplex
OSD	languages: Polish, English, others
Control	PC mouse (in-set included), network
System Diagnostic	automatic control of: HDDs, network, camera connection loss
Security	password protection, IP filtering, MAC filtering

INSTALLATION PARAMETERS

Dimensions (mm)	255 (W) x 42 (H) x 233 (D)
Weight	0.8 kg (without HDD)
Power Supply	48 VDC (100 ~ 240 VAC/48 VDC PSU in-set included)
Power Consumption	15 W (with 1 HDD) + 47 W PoE
Operating Temperature	-10°C ~ 50°C

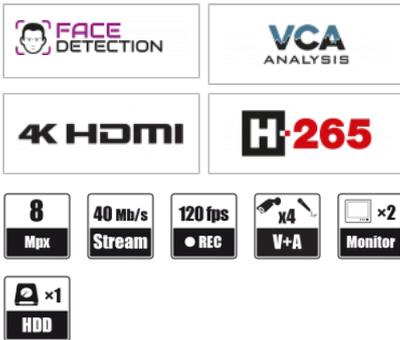
*In order to take full advantage of the recorder capabilities, it is recommended to use NOVUS IP 6000 series cameras. The availability of individual functions depends on the model of cameras used as well as the software version of the recorder and cameras. Detailed data can be found in the compatibility table available in the DOWNLOADS tab
The list of compatible drives is available in the DOWNLOADS tab.*

IP Recorder

NVR-6304P4-H1-II



KEY FEATURES



- 4 x Ethernet PoE - RJ-45 interface, 10/100 Mbit/s
- Video and audio channels: 4
- Supported protocols: ONVIF
- Recording speed up to 120 fps at 3840 x 2160
- Supports resolution up to 3840 x 2160
- Recorded stream size: 40 Mb/s in total from all cameras
- Internal HDDs mount: 1
- Monitor outputs: 2 (HDMI (4K UltraHD), VGA)
- Intelligent image analysis

DIMENSIONS



VIDEO

IP Cameras	up to 4 channels at 3840 x 2160 resolution (video + audio)
Maximum Supported Camera Resolution	3840 x 2160
Compression	H.264, H.264+, H.265
Monitor Output	main (split screen, full screen, sequence): 1 x VGA, 1 x HDMI (4K UltraHD) (up to 2 monitors simultaneously)
Dualstreaming Support	yes

AUDIO

Audio Input/Output	1 x line-in (RCA) / 1 x line-out (RCA), 1 x HDMI
--------------------	--

RECORDING

Stream Size	40 Mb/s in total from all cameras
Recording Mode	time-lapse, triggered by: manual, motion detection
Prealarm/Postalarm	up to 5 s/up to 600 s

DISPLAY

Display Speed	120 fps (4 x 30 fps)
---------------	----------------------

PLAYBACK

Playback Speed	120 fps (4 x 30 fps)
Recorded Data Search	by date/time, events

BACKUP

Backup Methods	USB port (HDD or Flash memory), network
Backup File Format	AVI, DAT

STORAGE

Internal Storage	available mount: 1 x HDD 3.5" 10 TB SATA
Total Internal Capacity	10 TB

ALARM

Camera Alarm Input/Output	supports camera's alarm input/output
Motion Detection	supports camera's motion detection
System Reaction to Alarm Events	buzzer, recording activation, PTZ, e-mail with attachment

INTELLIGENT IMAGE ANALYSIS

IP Recorder

NVR-6304P4-H1-II

Supported Functions	Exception, Scene Change, Video Blurred, Video Color Cast, Tripwire, Zone entrance, Abandoned Object, Object Disappearance, Crowd detection, Face Detection, People Counting, Perimeter Intrusion Detection by pedestrian or vehicle, Line Cross Detection by pedestrian or vehicle, Analysis of Recognized Number Plate Numbers (LPR)
---------------------	---

NETWORK

Network Interface	1 x Ethernet - RJ-45 interface, 10/100/1000 Mbit/s • 4 x Ethernet PoE - RJ-45 interface, 10/100 Mbit/s
Network Protocols Support	HTTP, TCP/IP, IPv4, FTP, DHCP, DNS, DDNS, NTP, RTSP, UPnP, SNMP, SMTP, P2P
ONVIF Protocol Support	Profile S (ONVIF 2.2 or higher)
PC/MAC Software	NMS, Internet Explorer, Firefox, Chrome, Opera, Safari, N Control 6000, Edge/Safari, N Control 6000
Mobile applications	SuperLive Plus (iPhone, Android)
Number of Simultaneous Connections	up to 5 clients, up to 8 main streams or 16 substreams or 4 playback streams in total
Bandwidth	40 Mb/s in total to all client workstations

PTZ

PTZ Functions	pan/tilt/zoom, preset commands
---------------	--------------------------------

AUXILIARY INTERFACES

USB Ports	2 x USB 2.0
-----------	-------------

OPERATING SYSTEM

Operating System	Linux
Operation Mode	triplex
OSD	languages: Polish, English, others
Control	IR remote controller, PC mouse (in-set included), network
System Diagnostic	automatic control of: HDDs, network, camera connection loss
Security	password protection, IP filtering, MAC filtering

INSTALLATION PARAMETERS

Dimensions (mm)	300 (W) x 52 (H) x 248 (D)
Weight	1.16 kg (without HDD)
Power Supply	100 ~ 240 VAC
Power Consumption	20 W (with 1 HDD) + 40 W PoE
Operating Temperature	-10°C ~ 50°C

*In order to take full advantage of the recorder capabilities, it is recommended to use NOVUS IP 6000 series cameras. The availability of individual functions depends on the model of cameras used as well as the software version of the recorder and cameras. Detailed data can be found in the compatibility table available in the DOWNLOADS tab
The list of compatible drives is available in the DOWNLOADS tab.*

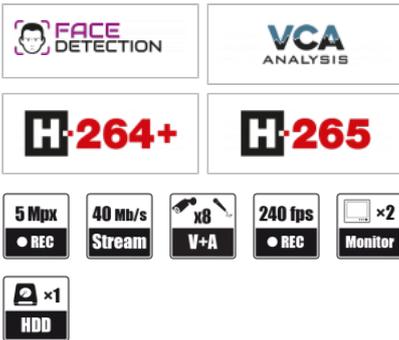
IP Recorder

NVR-6208P8-H1

6000 VSS IP

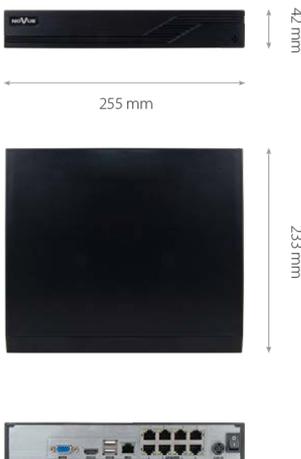


KEY FEATURES



- 8 x Ethernet PoE - RJ-45 interface
- Video and audio channels: 8
- Supported protocols: ONVIF
- Recording speed up to 240 fps at 2592 x 1944
- Supports resolution up to 2592 x 1944
- Recorded stream size: 40 Mb/s in total from all cameras
- Internal HDDs mount: 1
- Monitor outputs: 2 (HDMI, VGA)
- Intelligent image analysis

DIMENSIONS



VIDEO

IP Cameras	up to 8 channels at 2592 x 1944 resolution (video + audio)
Maximum Supported Camera Resolution	2592 x 1944
Compression	H.264, H.264+, H.265
Monitor Output	main (split screen, full screen, sequence): 1 x HDMI, 1 x VGA (up to 2 monitors simultaneously)
Dualstreaming Support	yes

AUDIO

Audio Input/Output	- / 1 x HDMI
--------------------	--------------

RECORDING

Stream Size	40 Mb/s in total from all cameras
Recording Mode	time-lapse, triggered by: manual, motion detection
Prealarm/Postalarm	up to 5 s/up to 600 s

DISPLAY

Display Speed	240 fps (8 x 30 fps)
---------------	----------------------

PLAYBACK

Playback Speed	240 fps (8 x 30 fps for 2592 x 1944) • 240 fps (8 x 30 fps)
Recorded Data Search	by date/time, events

BACKUP

Backup Methods	USB port (HDD or Flash memory), network
Backup File Format	AVI, RPAS (player included)

STORAGE

Internal Storage	available mount: 1 x HDD 3.5" 6 TB SATA
Total Internal Capacity	6 TB

ALARM

Camera Alarm Input/Output	supports camera's alarm input/output
Motion Detection	supports camera's motion detection
System Reaction to Alarm Events	buzzer, recording activation, PTZ, e-mail with attachment

INTELLIGENT IMAGE ANALYSIS

Supported Functions	Exception, Scene Change, Video Blurred, Video Color Cast, Tripwire, Zone entrance, Abandoned Object, Object Disappearance, Face Detection, Perimeter Intrusion Detection by pedestrian or vehicle, Line Cross Detection by pedestrian or vehicle, Analysis of Recognized Number Plate Numbers (LPR)
---------------------	---

IP Recorder

NVR-6208P8-H1

NETWORK

Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s • 8 x Ethernet PoE - RJ-45 interface
Network Protocols Support	HTTP, TCP/IP, IPv4, FTP, DHCP, DNS, DDNS, NTP, RTSP, UPnP, SNMP, SMTP, P2P
ONVIF Protocol Support	Profile S (ONVIF 2.2 or higher)
PC/MAC Software	NMS, Internet Explorer, Firefox, Chrome, Opera, Safari, N Control 6000, Edge/Safari, N Control 6000
Mobile applications	SuperLive Plus (iPhone, Android)
Number of Simultaneous Connections	up to 5 clients, up to 12 main streams or 32 substreams or 8 playback streams in total
Bandwidth	40 Mb/s in total to all client workstations

PTZ

PTZ Functions	pan/tilt/zoom, preset commands
---------------	--------------------------------

AUXILIARY INTERFACES

USB Ports	2 x USB 2.0
-----------	-------------

OPERATING SYSTEM

Operating System	Linux
Operation Mode	triplex
OSD	languages: Polish, English, others
Control	PC mouse (in-set included), network
System Diagnostic	automatic control of: HDDs, network, camera connection loss
Security	password protection, IP filtering, MAC filtering

INSTALLATION PARAMETERS

Dimensions (mm)	255 (W) x 42 (H) x 233 (D)
Weight	0.84 kg (without HDD)
Power Supply	48 VDC (100 ~ 240 VAC/48 VDC PSU in-set included)
Power Consumption	15 W (with 1 HDD) + 105 W PoE
Operating Temperature	-10°C ~ 50°C

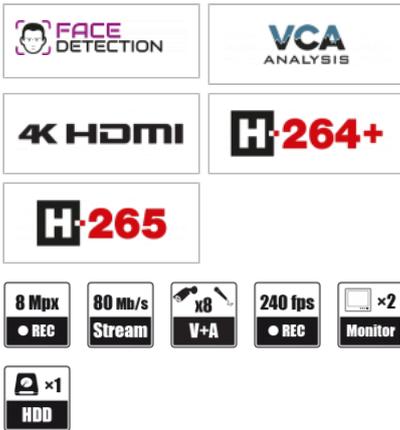
*Support for intelligent image analysis works only with NOVUS IP 6000 & 3000 series cameras
The availability of the following functions: double-stream operation, motion detection, alarm inputs / outputs, PTZ control depends on the functionality of the camera and the capabilities of the communication protocol. Detailed data can be found in the compatibility table available in the DOWNLOADS tab.*

IP Recorder

NVR-6308P8-H1-II



KEY FEATURES



- 8 x Ethernet PoE - RJ-45 interface, 10/100 Mbit/s
- Video and audio channels: 8
- Supported protocols: ONVIF, RTSP
- Recording speed up to 240 fps at 3840 x 2160
- Supports resolution up to 3840 x 2160
- Recorded stream size: 80 Mb/s in total from all cameras
- Internal HDDs mount: 1
- Monitor outputs: 2 (HDMI (4K UltraHD), VGA)
- Intelligent image analysis

DIMENSIONS



VIDEO

IP Cameras	up to 8 channels at 3840 x 2160 resolution (video + audio)
Maximum Supported Camera Resolution	3840 x 2160
Compression	H.264, H.264+, H.265
Monitor Output	main (split screen, full screen, sequence): 1 x VGA, 1 x HDMI (4K UltraHD) (up to 2 monitors simultaneously)
Dualstreaming Support	yes

AUDIO

Audio Input/Output - / 1 x line-out (RCA)

RECORDING

Stream Size	80 Mb/s in total from all cameras
Recording Mode	time-lapse, triggered by: manual, motion detection
Prealarm/Postalarm	up to 5 s/up to 600 s

DISPLAY

Display Speed 240 fps (8 x 30 fps)

PLAYBACK

Playback Speed	240 fps (8 x 30 fps)
Recorded Data Search	by date/time, events

BACKUP

Backup Methods	USB port (HDD or Flash memory), network
Backup File Format	AVI, RPAS (player included)

STORAGE

Internal Storage	available mount: 1 x HDD 3.5" 10 TB SATA
Total Internal Capacity	10 TB

ALARM

Camera Alarm Input/Output	supports camera's alarm input/output
Motion Detection	supports camera's motion detection
System Reaction to Alarm Events	buzzer, recording activation, PTZ, e-mail with attachment

INTELLIGENT IMAGE ANALYSIS

IP Recorder

NVR-6308P8-H1-II

Supported Functions

Exception, Scene Change, Video Blurred, Video Color Cast, Tripwire, Zone entrance, Abandoned Object, Object Disappearance, Crowd detection, Face Detection, People Counting, Perimeter Intrusion Detection by pedestrian or vehicle, Line Cross Detection by pedestrian or vehicle, Analysis of Recognized Number Plate Numbers (LPR)

NETWORK

Network Interface	1 x Ethernet - RJ-45 interface, 10/100/1000 Mbit/s • 8 x Ethernet PoE - RJ-45 interface, 10/100 Mbit/s
Network Protocols Support	HTTP, TCP/IP, IPv4, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, UPnP, SNMP, SMTP, P2P
ONVIF Protocol Support	Profile S (ONVIF 2.2 or higher)
PC/MAC Software	NMS, Internet Explorer, N Control 6000/N Control 6000
Mobile applications	SuperLive Plus (iPhone, Android)
Number of Simultaneous Connections	up to 2 clients, up to 5 main streams or 12 substreams or 8 playback streams in total
Bandwidth	80 Mb/s in total to all client workstations

PTZ

PTZ Functions	pan/tilt/zoom, preset commands
---------------	--------------------------------

AUXILIARY INTERFACES

USB Ports	2 x USB 2.0
-----------	-------------

OPERATING SYSTEM

Operating System	Linux
Operation Mode	triplex
OSD	languages: Polish, English, others
Control	IR remote controller, PC mouse (in-set included), network
System Diagnostic	automatic control of: HDDs, network, camera connection loss
Security	password protection, IP filtering, MAC filtering

INSTALLATION PARAMETERS

Dimensions (mm)	300 (W) x 52 (H) x 248 (D)
Weight	1.16 kg (without HDD)
Power Supply	100 ~ 240 VAC
Power Consumption	20 W (with 1 HDD) + 100 W PoE
Operating Temperature	-10°C ~ 50°C

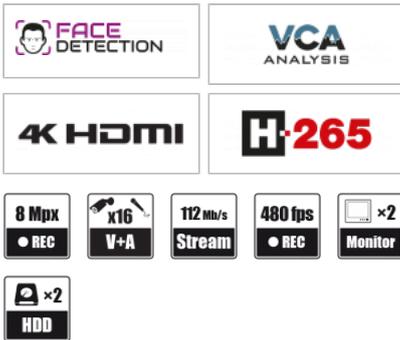
*In order to take full advantage of the recorder capabilities, it is recommended to use NOVUS IP 6000 series cameras. The availability of individual functions depends on the model of cameras used as well as the software version of the recorder and cameras. Detailed data can be found in the compatibility table available in the DOWNLOADS tab
The list of compatible drives is available in the DOWNLOADS tab.*

IP Recorder

NVR-6316P16-H2



KEY FEATURES



- 16 x Ethernet PoE - RJ-45 interface, 10/100 Mbit/s
- Video and audio channels: 16
- Supported protocols: ONVIF, RTSP
- Recording speed up to 480 fps at 3840 x 2160
- Supports resolution up to 3840 x 2160
- Recorded stream size: 112 Mb/s in total from all cameras
- Internal HDDs mount: 2
- Monitor outputs: 2 (HDMI (4K UltraHD), VGA)
- RACK mount
- Intelligent image analysis

DIMENSIONS



VIDEO

IP Cameras	up to 16 channels at 3840 x 2160 resolution (video + audio)
Maximum Supported Camera Resolution	3840 x 2160
Compression	H.264, H.264+, H.265
Monitor Output	main (split screen, full screen, sequence): 1 x VGA, 1 x HDMI (4K UltraHD) (up to 2 monitors simultaneously)
Dualstreaming Support	yes

AUDIO

Audio Input/Output	1 x line-in (RCA) / 1 x HDMI, 1 x line-out (RCA)
--------------------	--

RECORDING

Stream Size	112 Mb/s in total from all cameras
Recording Mode	time-lapse, triggered by: manual, alarm input, motion detection
Prealarm/Postalarm	up to 5 s/up to 600 s

DISPLAY

Display Speed	480 fps (16 x 30 fps)
---------------	-----------------------

PLAYBACK

Playback Speed	480 fps (16 x 30 fps)
Recorded Data Search	by date/time, events

BACKUP

Backup Methods	USB port (HDD or Flash memory), network
Backup File Format	AVI, RPAS (player included)

STORAGE

Internal Storage	available mount: 2 x HDD 3.5" 10 TB SATA
Total Internal Capacity	20 TB

ALARM

Camera Alarm Input/Output	supports camera's alarm input/output
Motion Detection	supports camera's motion detection
System Reaction to Alarm Events	buzzer, e-mail, alarm output activation, recording activation, PTZ

INTELLIGENT IMAGE ANALYSIS

Supported Functions	Exception, Scene Change, Video Blurred, Video Color Cast, Tripwire, Zone entrance, Abandoned Object, Object Disappearance, Face Detection, Perimeter Intrusion Detection by pedestrian or vehicle, Line Cross Detection by pedestrian or vehicle, Analysis of Recognized Number Plate Numbers (LPR)
---------------------	---

IP Recorder

NVR-6316P16-H2

NETWORK

Network Interface	1 x Ethernet - RJ-45 interface, 10/100/1000 Mbit/s • 16 x Ethernet PoE - RJ-45 interface, 10/100 Mbit/s
Network Protocols Support	HTTP, TCP/IP, IPv4, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, UPnP, SNMP, SMTP, P2P
ONVIF Protocol Support	Profile S (ONVIF 2.2 or higher)
PC/MAC Software	NMS, Internet Explorer, Firefox, Chrome, Opera, Safari, N Control 6000, Edge/Safari, N Control 6000
Mobile applications	SuperLive Plus (iPhone, Android)
Number of Simultaneous Connections	up to 4 clients
Bandwidth	112 Mb/s in total to all client workstations

PTZ

PTZ Functions	pan/tilt/zoom, preset commands
---------------	--------------------------------

AUXILIARY INTERFACES

USB Ports	2 x USB 2.0
-----------	-------------

OPERATING SYSTEM

Operating System	Linux
Operation Mode	triplex
OSD	languages: Polish, English, others
Control	PC mouse and IR remote controller (in-set included), network
System Diagnostic	automatic control of: HDDs, network, camera connection loss
Security	password protection, IP filtering, MAC filtering

INSTALLATION PARAMETERS

Dimensions (mm)	380 (W) x 52 (H) x 268 (D)
Weight	2.7 kg (without HDD)
Power Supply	48 VDC (100 ~ 240 VAC/48 VDC PSU in-set included)
Power Consumption	40 W (with 2 HDDs) + 140 W PoE
Operating Temperature	-10°C ~ 50°C
RACK Mount 19"	1U

*In order to take full advantage of the recorder capabilities, it is recommended to use NOVUS IP 6000 series cameras. The availability of individual functions depends on the model of cameras used as well as the software version of the recorder and cameras. Detailed data can be found in the compatibility table available in the DOWNLOADS tab
The list of compatible drives is available in the DOWNLOADS tab.*

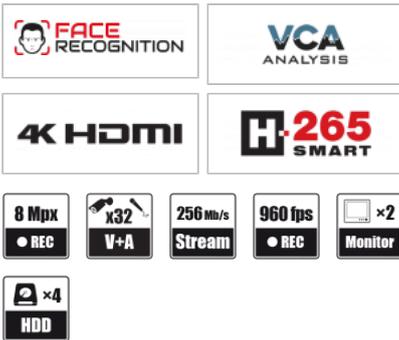
IP Recorder

NVR-6332P16-H4/F

6000 VSS IP



KEY FEATURES



- 16 x Ethernet PoE - RJ-45 interface, 10/100 Mbit/s
- Video and audio channels: 32
- Supported protocols: ONVIF, RTSP
- Recording speed up to 960 fps at 3840 x 2160
- Supports resolution up to 3840 x 2160
- Recorded stream size: 256 Mb/s in total from all cameras
- Internal HDDs mount: 4
- Monitor outputs: 2 (HDMI (4K UltraHD), VGA)
- RACK mount
- Face recognition

DIMENSIONS



VIDEO

IP Cameras	up to 32 channels at 3840 x 2160 resolution (video + audio)
Maximum Supported Camera Resolution	3840 x 2160
Compression	H.264, H.264+, H.265, H.265 Smart
Monitor Output	main (split screen, full screen, sequence): 1 x VGA, 1 x HDMI (4K UltraHD) (up to 2 monitors simultaneously)
Dualstreaming Support	yes
Fisheye Support	yes, 3000/6000 IP series cameras

AUDIO

Audio Input/Output	1 x line-in (RCA) / 1 x HDMI, 1 x line-out (RCA)
--------------------	--

RECORDING

Stream Size	256 Mb/s in total from all cameras
Recording Mode	time-lapse, triggered by: manual, alarm input, motion detection
Prealarm/Postalarm	up to 5 s/up to 600 s

DISPLAY

Display Speed	960 fps (32 x 30 fps)
---------------	-----------------------

PLAYBACK

Playback Speed	480 fps (16 x 30 fps)
Recorded Data Search	by date/time, events, motion in a defined area, related to face recognition

BACKUP

Backup Methods	USB port (HDD or Flash memory), network
Backup File Format	AVI, RPAS (player included)

STORAGE

Internal Storage	available mount: 4 x HDD 3.5" 14 TB SATA
Total Internal Capacity	56 TB

ALARM

Internal Alarm Input/Output	16/4 relay type
Camera Alarm Input/Output	supports camera's alarm input/output
Motion Detection	supports camera's motion detection
System Reaction to Alarm Events	buzzer, e-mail, alarm output activation, recording activation, PTZ

INTELLIGENT IMAGE ANALYSIS

IP Recorder

NVR-6332P16-H4/F

Supported Functions	Exception, Scene Change, Video Blurred, Video Color Cast, Tripwire, Zone entrance, Abandoned Object, Object Disappearance, Face Recognition, Perimeter Intrusion Detection by pedestrian or vehicle, Line Cross Detection by pedestrian or vehicle, Analysis of Recognized Number Plate Numbers (LPR)
---------------------	---

NETWORK

Network Interface	1 x Ethernet - RJ-45 interface, 10/100/1000 Mbit/s • 16 x Ethernet PoE - RJ-45 interface, 10/100 Mbit/s
Network Protocols Support	HTTP, TCP/IP, IPv4, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, UPnP, SNMP, SMTP, P2P
ONVIF Protocol Support	Profile S (ONVIF 2.2 or higher)
PC/MAC Software	NMS, Internet Explorer, Firefox, Chrome, Opera, N Control 6000, Edge/Safari, N Control 6000
Mobile applications	SuperLive Plus (iPhone, Android)
Number of Simultaneous Connections	up to 10 clients, up to 36 main streams or 128 substreams or 16 playback streams in total
Bandwidth	256 Mb/s in total to all client workstations

PTZ

PTZ Functions	pan/tilt/zoom, preset commands
---------------	--------------------------------

AUXILIARY INTERFACES

USB Ports	1 x USB 2.0 1 x USB 3.0
-----------	-------------------------

OPERATING SYSTEM

Operating System	Linux
Operation Mode	triplex
OSD	languages: Polish, English, others
Control	PC mouse and IR remote controller (in-set included), network
System Diagnostic	automatic control of: HDDs, network, camera connection loss
Security	password protection, IP filtering, MAC filtering

INSTALLATION PARAMETERS

Dimensions (mm)	440 (W) x 70 (H) x 390 (D)
Weight	4.4 kg (without HDD)
Power Supply	100 ~ 240 VAC
Power Consumption	60 W (with 4 HDDs) + 246 W PoE
Operating Temperature	-10°C ~ 50°C
RACK Mount 19"	2U

*In order to take full advantage of the recorder capabilities, it is recommended to use NOVUS IP 6000 series cameras. The availability of individual functions depends on the model of cameras used as well as the software version of the recorder and cameras. Detailed data can be found in the compatibility table available in the DOWNLOADS tab
The list of compatible drives is available in the DOWNLOADS tab.*

06

IP CAMERAS 8000 SERIES



AAT SYSTEMY BEZPIECZEŃSTWA sp. z o.o.
431 Pulawska St, 02-801 Warsaw, Poland, phone +48 22 546 05 46, fax +48 22 546 05 01
www.aat.pl

Bullet IP LPR Camera with Motor-zoom Lens NVIP-2H-8002M/LPR

8000

VSS
PROJECT



KEY FEATURES



- Resolution: 2 MPX
- Lens: motorized, auto-iris and auto-focus function, f=7 ~ 22 mm/F1.4
- D/N function - IR cut filter
- Licence plate recognition (LPR)
- SD card support
- WDR with double scan sensor
- Min. Illumination from 0.0014 lx (0 lx, IR on)
- IR LED, range up to 60 m

DIMENSIONS



IMAGE

Image Sensor	2 MPX CMOS sensor 1/2.8" SONY Exmor R STARVIS
Number of Effective Pixels	1945 (H) x 1097 (V)
Min. Illumination	0.0014 lx/F1.4 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto: 1/5 s ~ 1/20000 s
Digital Slow Shutter (DSS)	up to 1/5 s
Wide Dynamic Range (WDR)	yes (double scan sensor), 120dB
Digital Image Stabilization (DIS)	yes
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes

LENS

Lens Type	motorized, auto-iris function, f=7 ~ 22 mm/F1.4
Auto-focus	zoom trigger, manual trigger

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	0 ~ 180 s
Switching Schedule	yes
Visible Light Sensor	yes

NETWORK

Stream Resolution	1920 x 1080 (Full HD), 1280 x 720 (HD), 704 x 576, 704 x 480, 640 x 480 (VGA), 640 x 360, 352 x 288 (CIF), 320 x 240 (QVGA)
Frame Rate	30 fps for 1920 x 1080 (Full HD) and lower resolutions
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.264 Smart, H.265, H.265 Smart, MJPEG/G.711, RAW_PCM
Number of Simultaneous Connections	max. 8
Bandwidth	40 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, UDP, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, PPPoE, SMTP
ONVIF Protocol Support	Profile S
Camera Configuration	from Internet Explorer browser • languages: Polish, English, Russian, and others

Bullet IP LPR Camera with Motor-zoom Lens NVIP-2H-8002M/LPR

Compatible Software NMS

OTHER FUNCTIONS

Privacy Zones	4
Motion Detection	yes
Region of interest (ROI)	8
Video Content Analysis (VCA)	tamper, abandoned object, object disappearance, line cross, zone entrance, double line cross, loiter, multi loiter, abnormal speed, converse, illegal parking
Image Processing	180° image rotation, sharpening, mirror effect, corridor mode
Prealarm/Postalarm	up to 5 MB/up to 86400 s
System Reaction to Alarm Events	e-mail with attachment, saving file on FTP server, saving file on SD card

LICENCE PLATE RECOGNITION (LPR)

Autonomous operation mode	yes - recognition function implemented in the camera
Capacity of License Plate Database	up to 3000 license plates, on all lists.
Types of recognized number plates	all countries of the European Union / CIS countries / Turkey / Israel / Switzerland / Norway and others
Barrier control	yes - built-in relay output
Recommended maximum speed of the vehicle	up to 50 km/h
Reactions for the licence plate recognition	saving file on FTP server, alarm output activation

IR LED

LED Number	8
Range	60 m
Angle	80°

INTERFACES

Video Output	BNC, 1.0 Vp-p, 75 Ohm - maintenance only
Audio Input/Output	1 x RCA/1 x RCA
Alarm Input/Output	1 (NO/NC)/1 relay type
RS-485	yes
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	SD - capacity up to 128GB

INSTALLATION PARAMETERS

Dimensions (mm)	with bracket: 110 (Φ) x 377 (L)
Weight	1.7 kg
Degree of Protection	IP 66 (details in the user's manual)
Enclosure	aluminium, white, fully cable managed wall mount bracket in-set included
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	4 W • 14.5 W (IR and heater on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 90%, relative (non-condensing)



Bullet IP LPR Camera with Motor-zoom Lens **NVIP-2H-8002M/LPR**

Built-in Heater/Fan yes/no

The above data applies to cameras with firmware v3.6.0804.1004.89.0.10.11.9.D05



Vandal Proof IP Camera with Fisheye Lens

NVIP-12F-8001

8000 VSS IP



KEY FEATURES



- Resolution: 12 MPX
- Lens: fisheye, f=1.8 mm/F2.4
- D/N function - IR cut filter
- Video content analysis
- microSD card support
- Min. Illumination from 0.04 lx (0 lx, IR on)
- IR LED, range up to 10 m

DIMENSIONS



IMAGE

Image Sensor	12 MPX CMOS sensor 1/1.7" SONY Exmor R STARVIS
Number of Effective Pixels	4072 (H) x 3046 (V)
Min. Illumination	0.04 lx/F2.4 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto: 1/5 s ~ 1/20000 s
Digital Slow Shutter (DSS)	up to 1/5 s
Wide Dynamic Range (WDR)	yes
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes

LENS

Lens Type	fisheye, f=1.8 mm/F2.4
-----------	------------------------

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	0 ~ 180 s
Switching Schedule	yes
Visible Light Sensor	yes

NETWORK

Stream Resolution	4000 x 3000, 4000 x 2000, 3840 x 2160 (4K Ultra HD), 3000 x 3000, 2560 x 2560, 1920 x 1080 (Full HD), 1280 x 960, 720 x 720, 704 x 576
Frame Rate	20 fps for 4000 x 3000 • 25 fps for 4000 x 2000 and lower resolutions
Multistreaming Mode	2 streams
Video/Audio Compression	H.264, H.264 Smart, H.265, H.265 Smart, MJPEG/G.711, RAW_PCM
Number of Simultaneous Connections	max. 8
Bandwidth	30 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, UDP, HTTPS, Multicast, FTP, DHCP, DNS, NTP, RTSP, RTP, UPnP, IEEE 802.1X, PPPoE, SMTP, RTCP, SSL, ICMP, Unicast
ONVIF Protocol Support	Profile S
Camera Configuration	from Internet Explorer browser • languages: Polish, English, Russian, and others
Compatible Software	NMS

Vandal Proof IP Camera with Fisheye Lens

NVIP-12F-8001

OTHER FUNCTIONS

Privacy Zones	4
Motion Detection	yes
Region of interest (ROI)	8
Video Content Analysis (VCA)	tamper, abandoned object, object disappearance, line cross, zone entrance, double line cross, loiter, multi loiter, abnormal speed, converse, illegal parking
Image Processing	180° image rotation, mirror effect
Prealarm/Postalarm	up to 5 MB/up to 86400 s
System Reaction to Alarm Events	e-mail with attachment, saving file on FTP server, saving file on SD card, alarm output activation

IR LED

LED Number	6
Range	10 m
Angle	180°

INTERFACES

Audio Input/Output	1 x RCA/1 x RCA, built-in microphone
Alarm Input/Output	1 (NO/NC)/1
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 128GB

INSTALLATION PARAMETERS

Dimensions (mm)	162 (Φ) x 52 (H)
Weight	0.7 kg
Degree of Protection	IP 66 (details in the user's manual)
Enclosure	vandalproof IK10 impact rating aluminium, white poly-carbonate bubble
Power Supply	PoE, 12 VDC/24 VAC
Power Consumption	3.7 W • 9.5 W (IR on) • 5.7 W (heater on) • 11.5 W (IR and heater on)
Operating Temperature	-30°C ~ 60°C
Humidity	max. 90%, relative (non-condensing)
Built-in Heater/Fan	yes/no

The following functions are available from software version v3.5.0807.1004.89.0.32.3.6: Video Content Analysis (VCA), H.264 Smart, H.265 Smart, BLC.

Please keep in mind that due to the specific observation area of cameras with a fisheye lens, the effectiveness of the Video Content Analysis (VCA) function is higher in the central part of the scene and much lower on its edges.

From the software version v3.6.0807.1004.89.0.1.1.6 resolution 4096 x 2160 has been replaced by the resolution 4000 x 2000.

Pole mount adapter

NVB-8000PA

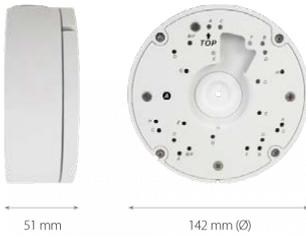


Type	pole mount adapter
Application	selected 8000, 5000 (detailed list of compatible cameras and other products can be found on the website in the file in the "Downloads" tab)
Material	steel
Color	white
Load Capacity	8 kg
Dimensions (mm)	124 (W) x 120 (H) x 52 (D) ϕ range = 115 ~ 140
Weight	0.47 kg

Wall/ceiling mount bracket indoor/outdoor NVB-8005JB



DIMENSIONS



Type	wall/ceiling mount bracket, indoor/outdoor
Application	Selected 8000 and 5000 series models of camera (detailed list of compatible cameras and other products can be found on the website in the file in the "Downloads" tab)
Material	aluminium
Color	white
Load Capacity	4 kg
Degree of Protection	IP 66
Dimensions (mm)	142 ϕ x 51 (height)
Weight	0.6 kg

Wall/ceiling mount bracket indoor/outdoor

NVB-8060JB

Type	wall/ceiling mount bracket, indoor/outdoor
Application	8000 series Fisheye IP cameras (detailed list of compatible cameras and other products can be found on the website in the file in the "Downloads" tab)
Material	aluminium
Color	white
Load Capacity	4 kg
Dimensions (mm)	175 ϕ x 32 (height)
Weight	0.53 kg

Wall mount cable managed bracket

NVB-8060WB



DIMENSIONS

Type	wall mount cable-managed bracket
Application	8000 series Fisheye IP cameras (detailed list of compatible cameras and other products can be found on the website in the file in the "Downloads" tab)
Material	aluminium
Color	white
Load Capacity	2 kg
Dimensions (mm)	130.5 (W) x 151.5 (H) x 214.3 (L)
Weight	0.43 kg

IP7

IP CAMERAS SPEED DOME 8000 SERIES



AAT SYSTEMY BEZPIECZEŃSTWA sp. z o.o.
431 Puławska St, 02-801 Warsaw, Poland, phone +48 22 546 05 46, fax +48 22 546 05 01
www.aat.pl

Speed Dome IP Camera NVIP-3SD-8200/30

8000 VSS IP



KEY FEATURES



- Resolution: 3 MPx
- Lens: motorized, auto-iris and auto-focus function, optical zoom 30x, f=4.5 ~ 135 mm/F1.6 ~ 4.4
- D/N function - IR cut filter
- Auto Tracking
- Video content analysis
- WDR with double scan sensor
- Min. Illumination from 0.007 lx (0 lx, IR on)
- IR LED, range up to 200 m (depends on current optical zoom value)

DIMENSIONS



IMAGE

Image Sensor	3 MPx CMOS sensor 1/2.8" SONY Exmor R STARVIS
Number of Effective Pixels	2065 (H) x 1553 (V)
Min. Illumination	0.07 lx/F1.6 - color mode • 0.007 lx/F1.6 - B/W mode • 0 lx (IR on) - B/W mode
S/N Ratio	> 55 dB (AGC off)
Electronic Shutter	auto/manual: 1/5 s ~ 1/20000 s
Digital Slow Shutter (DSS)	up to 1/5 s
Wide Dynamic Range (WDR)	yes (double scan sensor), 120dB
Digital Image Stabilization (DIS)	yes
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes

LENS

Optical Zoom	30x
Lens Type	motorized, auto-iris function, f=4.5 ~ 135 mm/F1.6 ~ F4.4
Auto-focus	continuous, zoom trigger, manual trigger

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	0 ~ 180 s
Switching Schedule	yes
Visible Light Sensor	yes

NETWORK

Stream Resolution	2048 x 1536 (QXGA), 1920 x 1080 (Full HD), 1280 x 720 (HD), 704 x 576, 704 x 480, 640 x 480 (VGA), 640 x 360, 352 x 288 (CIF), 352 x 240, 320 x 240 (QVGA)
Frame Rate	30 fps for 2048 x 1536 (QXGA) and lower resolutions
Multistreaming Mode	3 streams
Video/Audio Compression	H.264, H.264 Smart, H.265, H.265 Smart, MJPEG/G.711, RAW_PCM
Number of Simultaneous Connections	max. 8
Bandwidth	30 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, IPv4/v6, UDP, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, RTP, UPnP, SNMP, PPPoE, RTCP

Speed Dome IP Camera NVIP-3SD-8200/30

ONVIF Protocol Support	Profile S/Q
Camera Configuration	from Internet Explorer browser • languages: Polish, English, Russian, and others
Compatible Software	NMS

PTZ

Preset Commands	393
Tours	12 (up to 32 presets per tour)
Auto-Scans	12
Patterns	6 (max. 1000 commands or 3000 s in total for all patterns)
Tilt/Pan Range	0° ~ 98°/360° (continuous)
Pan/Tilt Speed	up to 180°/s (proportional to zoom)
Preset Speed	up to 180°/s
Protocols	Pelco-D

OTHER FUNCTIONS

Privacy Zones	4 video mask type: single color
Motion Detection	yes
Region of interest (ROI)	8
Video Content Analysis (VCA)	Auto Tracking, Auto Tracking linked to Video Content Analysis (VCA) functions, abandoned object, object disappearance, line cross, zone entrance, double line cross, loiter, multi loiter, abnormal speed, converse, illegal parking
Image Processing	180° image rotation, sharpening, mirror effect
System Reaction to Alarm Events	e-mail with attachment, saving file on FTP server, alarm output activation, PTZ

IR LED

LED Number	10
Range	up to 200 m (depends on current optical zoom value)
Angle	up to 45° (depends on current optical zoom value)

INTERFACES

Video Output	BNC, 1.0 Vp-p, 75 Ohm - maintenance only
Audio Input/Output	1 x RCA/1 x RCA
Alarm Input/Output	7 (NO/NC)/2 relay type
RS-485	yes
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s

INSTALLATION PARAMETERS

Dimensions (mm)	226 (Φ) x 363 (H) with bracket: 226 (W) x 425 (H) x 345 (L)
Weight	5.1 kg with bracket: 6.1 kg
Degree of Protection	IP 66 (details in the user's manual)
Enclosure	aluminium, white, in set: outdoor housing (integrated with the camera), wall mount bracket
Power Supply	PoE (tylko z NV-8000PS/HP), 24 VAC (100 ~ 240 VAC/24 VAC PSU in-set included)
Surge protection	TVS 6000 V
Power Consumption	18 W • 46 W (IR and heater on)



Speed Dome IP Camera **NVIP-3SD-8200/30**

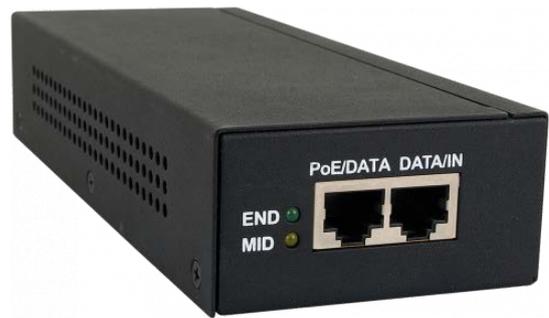
Operating Temperature	-30°C ~ 60°C
Humidity	max. 90%, relative (non-condensing)
Built-in Heater/Fan	yes/yes

Control of the camera using NV-KBD50 keyboard works in a limited range.



PoE Injector

NV-8000PS/HP



KEY FEATURES

- 1 x 1000Mb/s High PoE

GENERAL

Device Type High PoE injector

NETWORK

Transmission Distance 1 ports in PoE mode: 100 m

PoE standards IEEE802.3 af, IEEE802.3 at

PoE modes Endspan (1,2+ / 3,6-), Midspan (4,5+ / 7,8-)

Surge protection Maximum voltage: 3kV

INSTALLATION PARAMETERS

Case Metal, color black

Dimensions (mm) 71 (W) x 37 (H) x 185 (L)

Weight 480 g

Power Supply 100 ~ 240 VAC, 50/60Hz

Power Consumption 64 W

Power Efficiency 60 W

Operating Temperature -20°C ~ 60°C

Connector Input: 1 x RJ45 / Output 1 x RJ45

Transmission distance values was achieved in a test environment. In different environment this value can change due to interferences or influence of other devices.

08

IP CAMERAS THERMOVISION



Thermal IP Bullet Camera NVIP-H-8001/T

8000

VSS
PROJECT



KEY FEATURES



- Lens: thermal, f=8 mm/F1.0
- Video content analysis
- SD card support
- Temperature Measurement
- Temperature Alarm
- Ability to observe in total darkness

DIMENSIONS



IMAGE - THERMAL MODULE

Image Sensor	Uncooled FPA Microbolometer
Number of Effective Pixels	400 (H) x 300 (V)
Pixel Size	17 μm
Spectral Range	8 - 14 μm
Thermal Sensitivity	40 mK
Thermovision Modes	White Hot, Black Hot, Rainbow, Ironbow, HSV, Autumn, Bone, Cool, Copper, Fire Hot, Pink, Spring, Summer, Winter, Jet, Flame, Rosebengal
Detection Temperature	-40°C ~ 150°C

LENS - THERMAL MODULE

Lens Type	f=8 mm/F1.0
Object Detection Range	235m - human , 722m - vehicle
Object Recognition Range	59m - human , 180m - vehicle

IMAGE

Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes

NETWORK

Stream Resolution	704 x 576, 704 x 480, 352 x 288 (CIF), 352 x 240
Frame Rate	25 fps for 704 x 576 • 30 fps for 704 x 480 and lower resolutions
Multistreaming Mode	2 streams
Video/Audio Compression	H.264, H.264 Smart, H.265, H.265 Smart, MJPEG/G.711, RAW_PCM
Number of Simultaneous Connections	max. 8
Bandwidth	15 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, FTP, DHCP, DNS, RTSP, RTP, PPPoE, SMTP, RTCP, Unicast
ONVIF Protocol Support	Profile S
Camera Configuration	from Internet Explorer browser • languages: Polish, English, Russian, and others
Compatible Software	NMS

OTHER FUNCTIONS

Temperature Measurement	yes
Temperature Alarm	yes
Temperature Measurement Zones	19 polygon, line, point
Privacy Zones	5

Thermal IP Bullet Camera NVIP-H-8001/T

Motion Detection	yes
Video Content Analysis (VCA)	tamper, abandoned object, object disappearance, line cross, zone entrance, double line cross, loiter, multi loiter, abnormal speed, converse, illegal parking
Image Processing	180° image rotation, mirror effect
Prealarm/Postalarm	up to 5 MB/up to 86400 s
System Reaction to Alarm Events	e-mail, saving file on FTP server, saving file on SD card, alarm output activation

INTERFACES

Video Output	BNC, 1.0 Vp-p, 75 Ohm - maintenance only
Audio Input/Output	1 x RCA/1 x RCA
Alarm Input/Output	2 (NO/NC)/2
RS-485	yes
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	SD - capacity up to 128GB

INSTALLATION PARAMETERS

Dimensions (mm)	with bracket: 110 (Φ) x 388 (L)
Weight	1.9 kg
Degree of Protection	IP 66 (details in the user's manual)
Enclosure	aluminium, white, fully cable managed wall mount bracket in-set included
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	6 W
Operating Temperature	-40°C ~ 60°C
Humidity	max. 90%, relative (non-condensing)

Motion Detection function and seven Temperature Measurement Zones available from firmware version v2.0.0603.1002.89.0.160.0.11.

Thermal IP Bullet Camera NVIP-H-8011/T

8000 VSS PROJECT



KEY FEATURES



- Lens: thermal, f=15 mm/F1.0
- Video content analysis
- SD card support
- Temperature Measurement
- Temperature Alarm
- Ability to observe in total darkness

DIMENSIONS



IMAGE - THERMAL MODULE

Image Sensor	Uncooled FPA Microbolometer
Number of Effective Pixels	400 (H) x 300 (V)
Pixel Size	17 μm
Spectral Range	8 - 14 μm
Thermal Sensitivity	40 mK
Thermovision Modes	White Hot, Black Hot, Rainbow, Ironbow, HSV, Autumn, Bone, Cool, Copper, Fire Hot, Pink, Spring, Summer, Winter, Jet, Flame, Rosebengal
Detection Temperature	-40°C ~ 150°C

LENS - THERMAL MODULE

Lens Type	f=15 mm/F1.0
Object Detection Range	441m - human , 1353m - vehicle
Object Recognition Range	110m - human , 338m - vehicle

IMAGE

Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes

NETWORK

Stream Resolution	704 x 576, 704 x 480, 352 x 288 (CIF), 352 x 240
Frame Rate	25 fps for 704 x 576 • 30 fps for 704 x 480 and lower resolutions
Multistreaming Mode	2 streams
Video/Audio Compression	H.264, H.264 Smart, H.265, H.265 Smart, MJPEG/G.711, RAW_PCM
Number of Simultaneous Connections	max. 8
Bandwidth	15 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, FTP, DHCP, DNS, RTSP, RTP, PPPoE, SMTP, RTCP, Unicast
ONVIF Protocol Support	Profile S
Camera Configuration	from Internet Explorer browser • languages: Polish, English, Russian, and others
Compatible Software	NMS

OTHER FUNCTIONS

Temperature Measurement	yes
Temperature Alarm	yes
Temperature Measurement Zones	19 polygon, line, point
Privacy Zones	5

Thermal IP Bullet Camera NVIP-H-8011/T

Motion Detection	yes
Video Content Analysis (VCA)	tamper, abandoned object, object disappearance, line cross, zone entrance, double line cross, loiter, multi loiter, abnormal speed, converse, illegal parking
Image Processing	180° image rotation, mirror effect
Prealarm/Postalarm	up to 5 MB/up to 86400 s
System Reaction to Alarm Events	e-mail, saving file on FTP server, saving file on SD card, alarm output activation

INTERFACES

Video Output	BNC, 1.0 Vp-p, 75 Ohm - maintenance only
Audio Input/Output	1 x RCA/1 x RCA
Alarm Input/Output	2 (NO/NC)/2
RS-485	yes
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	SD - capacity up to 128GB

INSTALLATION PARAMETERS

Dimensions (mm)	with bracket: 110 (Φ) x 388 (L)
Weight	1.9 kg
Degree of Protection	IP 66 (details in the user's manual)
Enclosure	aluminium, white, fully cable managed wall mount bracket in-set included
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	6 W
Operating Temperature	-40°C ~ 60°C
Humidity	max. 90%, relative (non-condensing)

Thermal IP Bullet Camera NVIP-H-8021/T

8000 VSS PROJECT



KEY FEATURES



- Lens: thermal, f=25 mm/F1.0
- Video content analysis
- SD card support
- Temperature Measurement
- Temperature Alarm
- Ability to observe in total darkness

DIMENSIONS



IMAGE - THERMAL MODULE

Image Sensor	Uncooled FPA Microbolometer
Number of Effective Pixels	400 (H) x 300 (V)
Pixel Size	17 μm
Spectral Range	8 - 14 μm
Thermal Sensitivity	40 mK
Thermovision Modes	White Hot, Black Hot, Rainbow, Ironbow, HSV, Autumn, Bone, Cool, Copper, Fire Hot, Pink, Spring, Summer, Winter, Jet, Flame, Rosebengal
Detection Temperature	-40°C ~ 150°C

LENS - THERMAL MODULE

Lens Type	f=25 mm/F1.0
Object Detection Range	735m - human , 2255m - vehicle
Object Recognition Range	184m - human , 564m - vehicle

IMAGE

Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes

NETWORK

Stream Resolution	704 x 576, 704 x 480, 352 x 288 (CIF), 352 x 240
Frame Rate	25 fps for 704 x 576 • 30 fps for 704 x 480 and lower resolutions
Multistreaming Mode	2 streams
Video/Audio Compression	H.264, H.264 Smart, H.265, H.265 Smart, MJPEG/G.711, RAW_PCM
Number of Simultaneous Connections	max. 8
Bandwidth	15 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, FTP, DHCP, DNS, RTSP, RTP, PPPoE, SMTP, RTCP, Unicast
ONVIF Protocol Support	Profile S
Camera Configuration	from Internet Explorer browser • languages: Polish, English, Russian, and others
Compatible Software	NMS

OTHER FUNCTIONS

Temperature Measurement	yes
Temperature Alarm	yes
Temperature Measurement Zones	19 polygon, line, point
Privacy Zones	5

Thermal IP Bullet Camera NVIP-H-8021/T

Motion Detection	yes
Video Content Analysis (VCA)	tamper, abandoned object, object disappearance, line cross, zone entrance, double line cross, loiter, multi loiter, abnormal speed, converse, illegal parking
Image Processing	180° image rotation, mirror effect
Prealarm/Postalarm	up to 5 MB/up to 86400 s
System Reaction to Alarm Events	e-mail, saving file on FTP server, saving file on SD card, alarm output activation

INTERFACES

Video Output	BNC, 1.0 Vp-p, 75 Ohm - maintenance only
Audio Input/Output	1 x RCA/1 x RCA
Alarm Input/Output	2 (NO/NC)/2
RS-485	yes
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	SD - capacity up to 128GB

INSTALLATION PARAMETERS

Dimensions (mm)	with bracket: 110 (Φ) x 388 (L)
Weight	1.9 kg
Degree of Protection	IP 66 (details in the user's manual)
Enclosure	aluminium, white, fully cable managed wall mount bracket in-set included
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	6 W
Operating Temperature	-40°C ~ 60°C
Humidity	max. 90%, relative (non-condensing)

Motion Detection function and seven Temperature Measurement Zones available from firmware version v2.0.0603.1002.89.0.160.0.11.

Thermal IP Bullet Camera NVIP-H-8031/T

8000

VSS
PROJECT



KEY FEATURES



- Lens: thermal, f=35 mm/F1.0
- Video content analysis
- SD card support
- Temperature Measurement
- Temperature Alarm
- Ability to observe in total darkness

DIMENSIONS



IMAGE - THERMAL MODULE

Image Sensor	Uncooled FPA Microbolometer
Number of Effective Pixels	400 (H) x 300 (V)
Pixel Size	17 μ m
Spectral Range	8 - 14 μ m
Thermal Sensitivity	40 mK
Thermovision Modes	White Hot, Black Hot, Rainbow, Ironbow, HSV, Autumn, Bone, Cool, Copper, Fire Hot, Pink, Spring, Summer, Winter, Jet, Flame, Rosebengal
Detection Temperature	-40°C ~ 150°C

LENS - THERMAL MODULE

Lens Type	f=35 mm/F1.0
Object Detection Range	1029m - human , 3137m - vehicle
Object Recognition Range	257m - human , 789m - vehicle

IMAGE

Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes

NETWORK

Stream Resolution	704 x 576, 704 x 480, 352 x 288 (CIF), 352 x 240
Frame Rate	25 fps for 704 x 576 • 30 fps for 704 x 480 and lower resolutions
Multistreaming Mode	2 streams
Video/Audio Compression	H.264, H.264 Smart, H.265, H.265 Smart, MJPEG/G.711, RAW_PCM
Number of Simultaneous Connections	max. 8
Bandwidth	15 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, FTP, DHCP, DNS, RTSP, RTP, PPPoE, SMTP, RTCP, Unicast
ONVIF Protocol Support	Profile S (ONVIF 2.4)
Camera Configuration	from Internet Explorer browser • languages: Polish, English, Russian, and others
Compatible Software	NMS

OTHER FUNCTIONS

Temperature Measurement	yes
Temperature Alarm	yes
Temperature Measurement Zones	19 polygon, line, point
Privacy Zones	5

Thermal IP Bullet Camera NVIP-H-8031/T

Motion Detection	yes
Video Content Analysis (VCA)	tamper, abandoned object, object disappearance, line cross, zone entrance, double line cross, loiter, multi loiter, abnormal speed, converse, illegal parking
Image Processing	180° image rotation, mirror effect
Prealarm/Postalarm	up to 5 MB/up to 86400 s
System Reaction to Alarm Events	e-mail, saving file on FTP server, saving file on SD card, alarm output activation

INTERFACES

Video Output	BNC, 1.0 Vp-p, 75 Ohm - maintenance only
Audio Input/Output	1 x RCA/1 x RCA
Alarm Input/Output	2 (NO/NC)/2
RS-485	yes
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	SD - capacity up to 128GB

INSTALLATION PARAMETERS

Dimensions (mm)	with bracket: 110 (Φ) x 388 (L)
Weight	1.9 kg
Degree of Protection	IP 66 (details in the user's manual)
Enclosure	aluminium, white, fully cable managed wall mount bracket in-set included
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	6 W
Operating Temperature	-40°C ~ 60°C
Humidity	max. 90%, relative (non-condensing)

Motion Detection function and seven Temperature Measurement Zones available from firmware version v2.0.0603.1002.89.0.160.0.11.

Thermal IP Bullet Camera NVIP-H-8041/T

8000

VSS
PROJECT



KEY FEATURES



- Lens: thermal, f=50 mm/F1.0
- Video content analysis
- SD card support
- Temperature Measurement
- Temperature Alarm
- Ability to observe in total darkness

DIMENSIONS



IMAGE - THERMAL MODULE

Image Sensor	Uncooled FPA Microbolometer
Number of Effective Pixels	400 (H) x 300 (V)
Pixel Size	17 μm
Spectral Range	8 - 14 μm
Thermal Sensitivity	40 mK
Thermovision Modes	White Hot, Black Hot, Rainbow, Ironbow, HSV, Autumn, Bone, Cool, Copper, Fire Hot, Pink, Spring, Summer, Winter, Jet, Flame, Rosebengal
Detection Temperature	-40°C ~ 150°C

LENS - THERMAL MODULE

Lens Type	f=50 mm/F1.0
Object Detection Range	1471m - human , 4510m - vehicle
Object Recognition Range	368m - human , 1127m - vehicle

IMAGE

Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes

NETWORK

Stream Resolution	704 x 576, 704 x 480, 352 x 288 (CIF), 352 x 240
Frame Rate	25 fps for 704 x 576 • 30 fps for 704 x 480 and lower resolutions
Multistreaming Mode	2 streams
Video/Audio Compression	H.264, H.264 Smart, H.265, H.265 Smart, MJPEG/G.711, RAW_PCM
Number of Simultaneous Connections	max. 8
Bandwidth	15 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, FTP, DHCP, DNS, RTSP, RTP, PPPoE, SMTP, RTCP, Unicast
ONVIF Protocol Support	Profile S
Camera Configuration	from Internet Explorer browser • languages: Polish, English, Russian, and others
Compatible Software	NMS

OTHER FUNCTIONS

Temperature Measurement	yes
Temperature Alarm	yes
Temperature Measurement Zones	19 polygon, line, point
Privacy Zones	5

Thermal IP Bullet Camera

NVIP-H-8041/T

Motion Detection	yes
Video Content Analysis (VCA)	tamper, abandoned object, object disappearance, line cross, zone entrance, double line cross, loiter, multi loiter, abnormal speed, converse, illegal parking
Image Processing	180° image rotation, mirror effect
Prealarm/Postalarm	up to 5 MB/up to 86400 s
System Reaction to Alarm Events	e-mail, saving file on FTP server, saving file on SD card, alarm output activation

INTERFACES

Video Output	BNC, 1.0 Vp-p, 75 Ohm - maintenance only
Audio Input/Output	1 x RCA/1 x RCA
Alarm Input/Output	2 (NO/NC)/2
RS-485	yes
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	SD - capacity up to 128GB

INSTALLATION PARAMETERS

Dimensions (mm)	with bracket: 110 (Φ) x 388 (L)
Weight	1.9 kg
Degree of Protection	IP 66 (details in the user's manual)
Enclosure	aluminium, white, fully cable managed wall mount bracket in-set included
Power Supply	PoE, 12 VDC
Surge protection	TVS 4000 V
Power Consumption	6 W
Operating Temperature	-40°C ~ 60°C
Humidity	max. 90%, relative (non-condensing)

Motion Detection function and seven Temperature Measurement Zones available from firmware version v2.0.0603.1002.89.0.160.0.11.



VISUAL MONITORING
AND ACCESS CONTROL
MANAGEMENT IN THE FACILITY

DISCOVER
THE TRUE COMFORT
OF THE EFFECTIVE



www.nmsac.aat.pl/en



MANAGEMENT OF DISTRIBUTED SYSTEMS
GLOBAL FUNCTIONS
TIME & ATTENDANCE
INTEGRATION WITH NOVUS DEVICES
PLAYBACK RECORDINGS
BIOMETRIC IDENTIFICATION



AAT SYSTEMY BEZPIECZEŃSTWA sp. z o.o.

431 Pulawska St, 02-801 Warsaw, Poland, phone +48 22 546 05 46, fax +48 22 546 05 01

www.aat.pl

09

RECORDERS **8000 SERIES**



AAT SYSTEMY BEZPIECZEŃSTWA sp. z o.o.
431 Pulawska St, 02-801 Warsaw, Poland, phone +48 22 546 05 46, fax +48 22 546 05 01
www.aat.pl

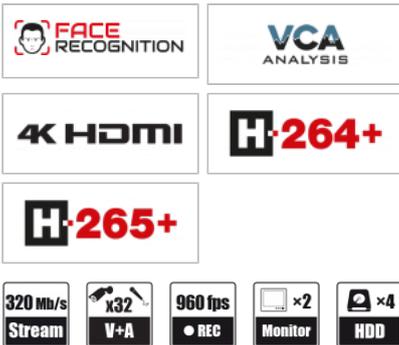
IP Recorder

NVR-8332P16-H4/F

8000 VSS PROJECT



KEY FEATURES



- 16 x Ethernet PoE - RJ-45 interface, 10/100 Mbit/s
- Video and audio channels: 32
- Supported protocols: ONVIF, RTSP
- Recording speed up to 960 fps at 4000 x 3000
- Supports resolution up to 4000 x 3000
- Recorded stream size: 320 Mb/s in total from all cameras
- Internal HDDs mount: 4
- Monitor outputs: 2 (HDMI (4K UltraHD), VGA)
- RACK mount
- Support for NVIP-2H-8912M / TS cameras for body temperature measuring

DIMENSIONS



VIDEO

Maximum Supported Camera Resolution	4000 x 3000
Compression	H.264, H.264+, H.265, H.265+
Monitor Output	main (split screen, full screen): 1 x VGA, 1 x HDMI (4K UltraHD) (up to 2 monitors simultaneously)
Dualstreaming Support	yes
Fisheye Support	yes, 5000/8000 IP series cameras

AUDIO

Audio Input/Output	- / 1 x line-out (RCA)
--------------------	------------------------

RECORDING

Recording Speed	640 fps (32 x 20 fps for 4000 x 3000)
Stream Size	320 Mb/s in total from all cameras
Recording Mode	time-lapse, triggered by: manual, alarm input, motion detection, intelligent image analysis functions

DISPLAY

Display Speed	960 fps (32 x 30 fps)
---------------	-----------------------

PLAYBACK

Playback Speed	960 fps (32 x 30 fps)
Recorded Data Search	by date/time, events, related to face recognition

BACKUP

Backup Methods	USB port (HDD or Flash memory), network
Backup File Format	MP4

STORAGE

Internal Storage	available mount: 4 x HDD 3.5" 12 TB SATA
Total Internal Capacity	48 TB
RAID Mode	RAID5, RAID6, RAID10

ALARM

Internal Alarm Input/Output	2/1 relay type
Motion Detection	supports camera's motion detection
System Reaction to Alarm Events	buzzer, e-mail, alarm output activation, screen message, recording activation

INTELLIGENT IMAGE ANALYSIS

IP Recorder

NVR-8332P16-H4/F

Supported Functions Exception, Tripwire, Zone entrance, Abandoned Object, Object Disappearance, Double Line Cross, Face Recognition, Body Temperature Alarm (support for up to two NVIP-2H-8912M/TS cameras for body temperature measuring)

NETWORK

Network Interface	1 x Ethernet - RJ-45 interface, 10/100/1000 Mbit/s • 16 x Ethernet PoE - RJ-45 interface, 10/100 Mbit/s
Network Protocols Support	HTTP, TCP/IP, IPv4, HTTPS, DHCP, DNS, DDNS, NTP, RTSP, UPnP, SNMP, PPPoE, SMTP
ONVIF Protocol Support	Profile S
PC/MAC Software	Internet Explorer, N Control 8000/InView Pro 4
Number of Simultaneous Connections	up to 8 clients
Bandwidth	320 Mb/s in total to all client workstations

PTZ

PTZ Functions pan/tilt/zoom, preset commands, patterns, tours

AUXILIARY INTERFACES

USB Ports 2 x USB 2.0 1 x USB 3.0

OPERATING SYSTEM

Operating System	Linux
OSD	languages: Polish, English, Russian, others
Control	PC mouse (in-set included), network
System Diagnostic	automatic control of: HDDs, camera connection loss
Security	password protection, IP filtering

INSTALLATION PARAMETERS

Dimensions (mm)	440 (W) x 70 (H) x 368 (D)
Weight	4.2 kg (without HDD)
Power Supply	100 ~ 240 VAC
Power Consumption	15 W + 160 W PoE
Operating Temperature	-10°C ~ 50°C
RACK Mount 19"	1.5U

Intelligent image analysis, dualstream mode, PTZ control, motion detection and alarm inputs / outputs functions depends on the functionality of the camera and the capabilities of the communication protocol. The recorder is dedicated to work with Novus 5000 and 8000 series IP cameras and achieves the best functionality with them. Detailed data on camera compatibility with recorders and compatible hard drives can be found in the compatibility tables available in the DOWNLOADABLE FILES tab. Display and playback speeds are achieved using dual stream.

10

IP RECORDERS
PC BASED



AAT SYSTEMY BEZPIECZEŃSTWA sp. z o.o.
431 Pulawska St, 02-801 Warsaw, Poland, phone +48 22 546 05 46, fax +48 22 546 05 01
www.aat.pl

NMS Client Station NMS CLIENT 3-T-III



KEY FEATURES



- Monitoring of up to 42 channels
- Supports resolution up to 4000 x 3000
- Supports up to 3 monitors simultaneously
- Operating system: Microsoft Windows 10 IoT
- Recording and surveillance system: NMS (Novus Management System)
- Compatible with all NMS Network Video Recorders
- Integration with: recorders AHD NOVUS, systems of SSWIN DSC, systems of NMS ANPR, systems POS (Posnet, Upos i inne)

DIMENSIONS



VIDEO

IP Cameras	up to 42 channels at 640 x 480 resolution resolution using H.264 codec (video + audio) • up to 30 channels at 640 x 480 resolution resolution using H.265 codec (video + audio)
Maximum Supported Camera Resolution	4000 x 3000
Supported Codes	H.264, H.264+, H.265, H.265+, MJPEG
Supported Protocols	Novus, ONVIF, RTSP
Dualstreaming Support	yes

DISPLAY

Monitor Output	1 x HDMI 2.0b, 1 x Display Port 1.4, 1 x Dual link DVI-D, (do 3 monitorów jednocześnie)
Maximum Resolution	3 x 4K UltraHD

AUDIO

Audio input	1 x Line in (3,5mm), 1 x Mic in(3,5mm)
Audio Output	1 x Line output (3,5mm), 1 x HDMI, 1 x Display Port

PERFORMANCE - H.264

2MPX IP Camera	Display up to: 42 sub streams or 13 main streams • Playback up to: 13 main streams
4MPX IP Camera	Display up to: 40 sub streams or 7 main streams • Playback up to: 7 main streams
5MPX IP Camera	Display up to: 35 sub streams or 5 main streams • Playback up to: 5 main streams
8MPX IP Camera	Display up to: 32 sub streams or 3 main streams • Playback up to: 3 main streams
12MPX IP Camera	Display up to: 26 sub streams or 3 main streams • Playback up to: 3 main streams

PERFORMANCE - H.265

2MPX IP Camera	Display up to: 30 sub streams or 6 main streams • Playback up to: 6 main streams
4MPX IP Camera	Display up to: 30 sub streams or 3 main streams • Playback up to: 3 main streams
5MPX IP Camera	Display up to: 30 sub streams or 3 main streams • Playback up to: 3 main streams
8MPX IP Camera	Display up to: 28 sub streams or 2 main streams • Playback up to: 2 main streams
12MPX IP Camera	Display up to: 20 sub streams or 2 main streams • Playback up to: 2 main streams

PLAYBACK

Recorded Data Search by date/time, events, "Text-in"

BACKUP

Backup Methods USB port (HDD or Flash memory), network

STORAGE

Internal storage for system built-in: 1 x SSD NVMe

NETWORK

Network Interface 1 x Ethernet - RJ-45 interface, 10/100/1000/2500 Mbit/s

Bandwidth 350 Mb/s in total from all NVRs

Network Protocols Support HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, FTP, DHCP, DNS, RTSP, UPnP, SNMP

Mobile applications NMS Mobile

PTZ

PTZ Functions pan/tilt/zoom, preset commands, patterns, tours, auto-scans

AUXILIARY INTERFACES

USB Ports 4 x USB 2.0, 4 x USB 3.2, 1 x USB 3.2 Type-C

OPERATING SYSTEM

Operating System Microsoft Windows 10 IoT

Recording and Surveillance System NMS (Novus Management System)

Operation Mode triplex

OSD languages: Polish, English, Russian, others

Control PC mouse and keyboard (in-set included)

System Diagnostic automatic control of: HDDs, temperature, fan, network

Security password protection, IP filtering, MAC filtering, limiting the number of connections

INSTALLATION PARAMETERS

Dimensions (mm) 185 (W) x 408 (H) x 475 (D)

Weight 10 kg

Power Supply/Power Consumption built-in PSU 230 VAC/700 W

Power consumption/heatprint 250W/200W (without HDD for recording)

Operating Temperature 5°C ~ 35°C

NVSO Client Station

NVSO CLIENT 3-T-III

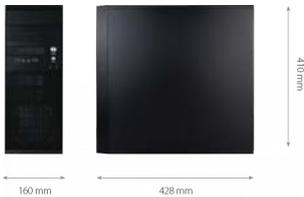


KEY FEATURES



- Monitoring of up to 42 channels
- Supports resolution up to 4000 x 3000
- Supports up to 3 monitors simultaneously
- Operating system: Microsoft Windows 10 Pro
- Recording and surveillance system: NMS (Novus Management System)
- Compatible with all NMS Network Video Recorders
- Integration with: recorders AHD NOVUS, systems of SSWIN DSC, systems of NMS ANPR, systems POS (Posnet, Upos i inne)

DIMENSIONS



VIDEO

IP Cameras	up to 42 channels at 640 x 480 resolution resolution using H.264 codec (video + audio) • up to 30 channels at 640 x 480 resolution resolution using H.265 codec (video + audio)
Maximum Supported Camera Resolution	4000 x 3000
Supported Codes	H.264, H.264+, H.265, H.265+, MJPEG
Supported Protocols	Novus, ONVIF, RTSP
Dualstreaming Support	yes

DISPLAY

Monitor Output	1 x HDMI 2.0b, 1 x Display Port 1.4, 1 x Dual link DVI-D, (do 3 monitorów jednocześnie)
Maximum Resolution	3 x 4K UltraHD

AUDIO

Audio input	1 x Line in (3,5mm), 1 x Mic in(3,5mm)
Audio Output	1 x Line output (3,5mm), 1 x HDMI, 1 x Display Port

PERFORMANCE - H.264

2MPX IP Camera	Display up to: 42 sub streams or 13 main streams • Playback up to: 13 main streams
4MPX IP Camera	Display up to: 40 sub streams or 7 main streams • Playback up to: 7 main streams
5MPX IP Camera	Display up to: 35 sub streams or 5 main streams • Playback up to: 5 main streams
8MPX IP Camera	Display up to: 32 sub streams or 3 main streams • Playback up to: 3 main streams
12MPX IP Camera	Display up to: 26 sub streams or 3 main streams • Playback up to: 3 main streams

PERFORMANCE - H.265

2MPX IP Camera	Display up to: 30 sub streams or 6 main streams • Playback up to: 6 main streams
4MPX IP Camera	Display up to: 30 sub streams or 3 main streams • Playback up to: 3 main streams
5MPX IP Camera	Display up to: 30 sub streams or 3 main streams • Playback up to: 3 main streams
8MPX IP Camera	Display up to: 28 sub streams or 2 main streams • Playback up to: 2 main streams
12MPX IP Camera	Display up to: 20 sub streams or 2 main streams • Playback up to: 2 main streams

PLAYBACK

Recorded Data Search by date/time, events, "Text-in"

BACKUP

Backup Methods USB port (HDD or Flash memory), network

STORAGE

Internal storage for system built-in: 1 x SSD NVMe

NETWORK

Network Interface 1 x Ethernet - RJ-45 interface, 10/100/1000/2500 Mbit/s

Bandwidth 350 Mb/s in total from all NVRs

Network Protocols Support HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, FTP, DHCP, DNS, RTSP, UPnP, SNMP

Mobile applications NMS Mobile

PTZ

PTZ Functions pan/tilt/zoom, preset commands, patterns, tours, auto-scans

AUXILIARY INTERFACES

USB Ports 4 x USB 2.0, 4 x USB 3.2, 1 x USB 3.2 Type-C

OPERATING SYSTEM

Operating System Microsoft Windows 10 Pro

Recording and Surveillance System NMS (Novus Management System)

Operation Mode triplex

OSD languages: Polish, English, Russian, others

Control PC mouse and keyboard (in-set included)

System Diagnostic automatic control of: HDDs, temperature, fan, network

Security password protection, IP filtering, MAC filtering, limiting the number of connections

INSTALLATION PARAMETERS

Dimensions (mm) 185 (W) x 408 (H) x 475 (D)

Weight 10 kg

Power Supply/Power Consumption built-in PSU 230 VAC/700 W

Power consumption/heatprint 250W/200W (without HDD for recording)

Operating Temperature 5°C ~ 35°C

NMS Client Station NMS CLIENT 3-R-III



KEY FEATURES



- Monitoring of up to 42 channels
- Supports resolution up to 4000 x 3000
- Supports up to 3 monitors simultaneously
- Operating system: Microsoft Windows 10 IoT
- Recording and surveillance system: NMS (Novus Management System)
- Compatible with all NMS Network Video Recorders
- Integration with: recorders AHD NOVUS, systems of SSWIN DSC, systems of NMS ANPR, systems POS (Posnet, Upos i inne)

DIMENSIONS



VIDEO

IP Cameras	up to 42 streams at 640 x 480 resolution resolution using H.264 codec (video + audio) • up to 30 streams at 640 x 480 resolution resolution using H.265 codec (video + audio)
Maximum Supported Camera Resolution	4000 x 3000
Supported Codes	H.264, H.264+, H.265, H.265+, MJPEG
Supported Protocols	Novus, ONVIF, RTSP
Dualstreaming Support	yes

DISPLAY

Monitor Output	1 x HDMI 2.0b, 1 x Display Port 1.4, 1 x Dual link DVI-D, (do 3 monitorów jednocześnie)
Maximum Resolution	3 x 4K UltraHD

AUDIO

Audio input	1 x Line in (3,5mm), 1 x Mic in(3,5mm)
Audio Output	1 x Line output (3,5mm), 1 x HDMI, 1 x Display Port

PERFORMANCE - H.264

2MPX IP Camera	Display up to: 42 sub streams or 13 main streams • Playback up to: 13 main streams
4MPX IP Camera	Display up to: 40 sub streams or 7 main streams • Playback up to: 7 main streams
5MPX IP Camera	Display up to: 35 sub streams or 5 main streams • Playback up to: 5 main streams
8MPX IP Camera	Display up to: 32 sub streams or 3 main streams • Playback up to: 3 main streams
12MPX IP Camera	Display up to: 26 sub streams or 3 main streams • Playback up to: 3 main streams

PERFORMANCE - H.265

2MPX IP Camera	Display up to: 30 sub streams or 6 main streams • Playback up to: 6 main streams
4MPX IP Camera	Display up to: 30 sub streams or 3 main streams • Playback up to: 3 main streams
5MPX IP Camera	Display up to: 30 sub streams or 3 main streams • Playback up to: 3 main streams
8MPX IP Camera	Display up to: 28 sub streams or 2 main streams • Playback up to: 2 main streams
12MPX IP Camera	Display up to: 20 sub streams or 2 main streams • Playback up to: 2 main streams

PLAYBACK

Recorded Data Search by date/time, events, "Text-in"

BACKUP

Backup Methods USB port (HDD or Flash memory), network

STORAGE

Internal storage for system built-in: 1 x SSD NVMe

NETWORK

Network Interface 1 x Ethernet - RJ-45 interface, 10/100/1000/2500 Mbit/s

Bandwidth 350 Mb/s in total from all NVRs

Network Protocols Support HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, FTP, DHCP, DNS, DDNS, RTSP, UPnP, SNMP

Mobile applications NMS Mobile

PTZ

PTZ Functions pan/tilt/zoom, preset commands, patterns, tours, auto-scans

AUXILIARY INTERFACES

USB Ports 4 x USB 2.0, 4 x USB 3.2, 1 x USB 3.2 Type-C

OPERATING SYSTEM

Operating System Microsoft Windows 10 IoT

Recording and Surveillance System NMS (Novus Management System)

Operation Mode triplex

OSD languages: Polish, English, Russian, others

Control PC mouse and keyboard (in-set included)

System Diagnostic automatic control of: HDDs, temperature, fan, network

Security password protection, IP filtering, MAC filtering, limiting the number of connections

INSTALLATION PARAMETERS

Dimensions (mm) 427 (W) x 177 (H) x 450 (D)

RACK Mount 19" 4U

Weight 20 kg

Power Supply/Power Consumption built-in PSU 230 VAC/700 W

Power consumption/heatprint 250W/200W (without HDD for recording)

Operating Temperature 5°C ~ 35°C

NVSO Client Station NVSO CLIENT 3-R-III



KEY FEATURES



- Supports resolution up to 4000 x 3000
- Operating system: Microsoft Windows 10 Pro
- Recording and surveillance system: NMS (Novus Management System)
- Compatible with all NMS Network Video Recorders
- Integration with: recorders AHD NOVUS, systems of SSWiN DSC, systems of NMS ANPR, systems POS (Posnet, Upos i inne)

DIMENSIONS



VIDEO

IP Cameras	up to 42 channels at 640 x 480 resolution resolution using H.264 codec (video + audio) • up to 30 channels at 640 x 480 resolution resolution using H.265 codec (video + audio)
Maximum Supported Camera Resolution	4000 x 3000
Supported Codes	H.264, H.264+, H.265, H.265+, MJPEG
Supported Protocols	Novus, ONVIF, RTSP
Dualstreaming Support	yes

DISPLAY

Monitor Output	1 x HDMI 2.0b, 1 x Display Port 1.4, 1 x Dual link DVI-D, (do 3 monitorów jednocześnie)
Maximum Resolution	3 x 4K UltraHD

AUDIO

Audio input	1 x Line in (3,5mm), 1 x Mic in(3,5mm)
Audio Output	1 x Line output (3,5mm), 1 x HDMI, 1 x Display Port

PERFORMANCE - H.264

2MPX IP Camera	Display up to: 42 sub streams or 13 main streams • Playback up to: 13 main streams
4MPX IP Camera	Display up to: 40 sub streams or 7 main streams • Playback up to: 7 main streams
5MPX IP Camera	Display up to: 35 sub streams or 5 main streams • Playback up to: 5 main streams
8MPX IP Camera	Display up to: 32 sub streams or 3 main streams • Playback up to: 3 main streams
12MPX IP Camera	Display up to: 26 sub streams or 3 main streams • Playback up to: 3 main streams

PERFORMANCE - H.265

2MPX IP Camera	Display up to: 30 sub streams or 6 main streams • Playback up to: 6 main streams
4MPX IP Camera	Display up to: 30 sub streams or 3 main streams • Playback up to: 3 main streams
5MPX IP Camera	Display up to: 30 sub streams or 3 main streams • Playback up to: 3 main streams
8MPX IP Camera	Display up to: 28 sub streams or 2 main streams • Playback up to: 2 main streams
12MPX IP Camera	Display up to: 20 sub streams or 2 main streams • Playback up to: 2 main streams

PLAYBACK

Recorded Data Search by date/time, events, "Text-in"

BACKUP

Backup Methods USB port (HDD or Flash memory), network

STORAGE

Internal storage for system built-in: 1 x SSD NVMe

NETWORK

Network Interface 1 x Ethernet - RJ-45 interface, 10/100/1000/2500 Mbit/s

Bandwidth 350 Mb/s in total from all NVRs

Network Protocols Support HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, FTP, DHCP, DNS, DDNS, RTSP, UPnP, SNMP

Mobile applications NMS Mobile

PTZ

PTZ Functions pan/tilt/zoom, preset commands, patterns, tours, auto-scans

AUXILIARY INTERFACES

USB Ports 4 x USB 2.0, 4 x USB 3.2, 1 x USB 3.2 Type-C

OPERATING SYSTEM

Operating System Microsoft Windows 10 Pro

Recording and Surveillance System NMS (Novus Management System)

Operation Mode triplex

OSD languages: Polish, English, Russian, others

Control PC mouse and keyboard (in-set included)

System Diagnostic automatic control of: HDDs, temperature, fan, network

Security password protection, IP filtering, MAC filtering, limiting the number of connections

INSTALLATION PARAMETERS

Dimensions (mm) 427 (W) x 177 (H) x 450 (D)

RACK Mount 19" 4U

Weight 20 kg

Power Supply/Power Consumption built-in PSU 230 VAC/700 W

Power consumption/heatprint 250W/200W (without HDD for recording)

Operating Temperature 5°C ~ 35°C

NMS Client Station NMS CLIENT 5-T-III

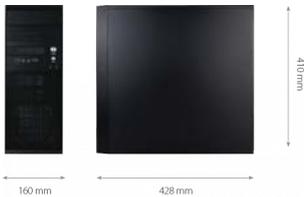


KEY FEATURES



- Monitoring of up to 50 channels
- Supports resolution up to 4000 x 3000
- Supports up to 3 monitors simultaneously
- Operating system: Microsoft Windows 10 IoT
- Recording and surveillance system: NMS (Novus Management System)
- Compatible with all NMS Network Video Recorders
- Integration with: recorders AHD NOVUS, systems of SSWIN DSC, systems of NMS ANPR, systems POS (Posnet, Upos i inne)

DIMENSIONS



VIDEO

IP Cameras	up to 50 channels at 640 x 480 resolution resolution using H.264 codec (video + audio) • up to 30 channels at 640 x 480 resolution resolution using H.265 codec (video + audio)
Maximum Supported Camera Resolution	4000 x 3000
Supported Codes	H.264, H.264+, H.265, H.265+, MJPEG
Supported Protocols	Novus, ONVIF, RTSP
Dualstreaming Support	yes

DISPLAY

Monitor Output	1 x HDMI 2.0b, 1 x Display Port 1.4, 1 x Dual link DVI-D, (do 3 monitorów jednocześnie)
Maximum Resolution	3 x 4K UltraHD

AUDIO

Audio input	1 x Line in (3,5mm), 1 x Mic in(3,5mm)
Audio Output	1 x Line output (3,5mm), 1 x HDMI, 1 x Display Port

PERFORMANCE - H.264

2MPX IP Camera	Display up to: 50 sub streams or 12 main streams • Playback up to: 12 main streams
4MPX IP Camera	Display up to: 45 sub streams or 8 main streams • Playback up to: 8 main streams
5MPX IP Camera	Display up to: 45 sub streams or 6 main streams • Playback up to: 6 main streams
8MPX IP Camera	Display up to: 40 sub streams or 4 main streams • Playback up to: 4 main streams
12MPX IP Camera	Display up to: 35 sub streams or 4 main streams • Playback up to: 4 main streams

PERFORMANCE - H.265

2MPX IP Camera	Display up to: 30 sub streams or 8 main streams • Playback up to: 8 main streams
4MPX IP Camera	Display up to: 35 sub streams or 4 main streams • Playback up to: 4 main streams
5MPX IP Camera	Display up to: 35 sub streams or 4 main streams • Playback up to: 4 main streams
8MPX IP Camera	Display up to: 35 sub streams or 2 main streams • Playback up to: 2 main streams
12MPX IP Camera	Display up to: 20 sub streams or 2 main streams • Playback up to: 2 main streams

PLAYBACK

Recorded Data Search by date/time, events, "Text-in"

BACKUP

Backup Methods USB port (HDD or Flash memory), network

STORAGE

Internal storage for system built-in: 1 x SSD NVMe

NETWORK

Network Interface 1 x Ethernet - RJ-45 interface, 10/100/1000/2500 Mbit/s

Bandwidth 350 Mb/s in total from all NVRs

Network Protocols Support HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, FTP, DHCP, DNS, RTSP, UPnP, SNMP

Mobile applications NMS Mobile

PTZ

PTZ Functions pan/tilt/zoom, preset commands, patterns, tours, auto-scans

AUXILIARY INTERFACES

USB Ports 4 x USB 2.0, 4 x USB 3.2, 1 x USB 3.2 Type-C

OPERATING SYSTEM

Operating System Microsoft Windows 10 IoT

Recording and Surveillance System NMS (Novus Management System)

Operation Mode triplex

OSD languages: Polish, English, Russian, others

Control PC mouse and keyboard (in-set included)

System Diagnostic automatic control of: HDDs, temperature, fan, network

Security password protection, IP filtering, MAC filtering, limiting the number of connections

INSTALLATION PARAMETERS

Dimensions (mm) 160 (W) x 428 (H) x 410 (D)

Weight 10 kg

Power Supply/Power Consumption built-in PSU 230 VAC/700 W

Power consumption/heatprint 260W/210W (without HDD for recording)

Operating Temperature 5°C ~ 35°C

NVSO Client Station

NVSO CLIENT 5-T-III

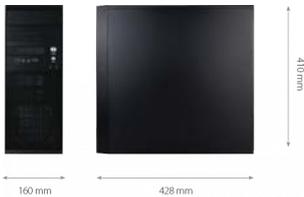


KEY FEATURES



- Monitoring of up to 50 channels
- Supports resolution up to 4000 x 3000
- Supports up to 3 monitors simultaneously
- Operating system: Microsoft Windows 10 Pro
- Recording and surveillance system: NMS (Novus Management System)
- Compatible with all NMS Network Video Recorders
- Integration with: recorders AHD NOVUS, systems of SSWIN DSC, systems of NMS ANPR, systems POS (Posnet, Upos i inne)

DIMENSIONS



VIDEO

IP Cameras	up to 50 channels at 640 x 480 resolution resolution using H.264 codec (video + audio) • up to 30 channels at 640 x 480 resolution resolution using H.265 codec (video + audio)
Maximum Supported Camera Resolution	4000 x 3000
Supported Codes	H.264, H.264+, H.265, H.265+, MJPEG
Supported Protocols	Novus, ONVIF, RTSP
Dualstreaming Support	yes

DISPLAY

Monitor Output	1 x HDMI 2.0b, 1 x Display Port 1.4, 1 x Dual link DVI-D, (do 3 monitorów jednocześnie)
Maximum Resolution	3 x 4K UltraHD

AUDIO

Audio input	1 x Line in (3,5mm), 1 x Mic in(3,5mm)
-------------	--

PERFORMANCE - H.264

2MPX IP Camera	Display up to: 50 sub streams or 12 main streams • Playback up to: 12 main streams
4MPX IP Camera	Display up to: 45 sub streams or 8 main streams • Playback up to: 8 main streams
5MPX IP Camera	Display up to: 45 sub streams or 6 main streams • Playback up to: 6 main streams
8MPX IP Camera	Display up to: 40 sub streams or 4 main streams • Playback up to: 4 main streams
12MPX IP Camera	Display up to: 35 sub streams or 4 main streams • Playback up to: 4 main streams

PERFORMANCE - H.265

2MPX IP Camera	Display up to: 30 sub streams or 8 main streams • Playback up to: 8 main streams
4MPX IP Camera	Display up to: 35 sub streams or 4 main streams • Playback up to: 4 main streams
5MPX IP Camera	Display up to: 35 sub streams or 4 main streams • Playback up to: 4 main streams
8MPX IP Camera	Display up to: 35 sub streams or 2 main streams • Playback up to: 2 main streams
12MPX IP Camera	Display up to: 20 sub streams or 2 main streams • Playback up to: 2 main streams

PLAYBACK

Recorded Data Search	by date/time, events, "Text-in"
----------------------	---------------------------------

BACKUP

Backup Methods	USB port (HDD or Flash memory), network
----------------	---

STORAGE

Internal storage for system	built-in: 1 x SSD NVMe
-----------------------------	------------------------

NETWORK

Network Interface	1 x Ethernet - RJ-45 interface, 10/100/1000/2500 Mbit/s
Bandwidth	350 Mb/s in total from all NVRs
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, FTP, DHCP, DNS, RTSP, UPnP, SNMP
Mobile applications	NMS Mobile

PTZ

PTZ Functions	pan/tilt/zoom, preset commands, patterns, tours, auto-scans
---------------	---

AUXILIARY INTERFACES

USB Ports	4 x USB 2.0, 4 x USB 3.2, 1 x USB 3.2 Type-C
-----------	--

OPERATING SYSTEM

Operating System	Microsoft Windows 10 Pro
Recording and Surveillance System	NMS (Novus Management System)
Operation Mode	triplex
OSD	languages: Polish, English, Russian, others
Control	PC mouse and keyboard (in-set included)
System Diagnostic	automatic control of: HDDs, temperature, fan, network
Security	password protection, IP filtering, MAC filtering, limiting the number of connections

INSTALLATION PARAMETERS

Dimensions (mm)	160 (W) x 428 (H) x 410 (D)
Weight	10 kg
Power Supply/Power Consumption	built-in PSU 230 VAC/700 W
Power consumption/heatprint	260W/210W (without HDD for recording)
Operating Temperature	5°C ~ 35°C

NMS Client Station NMS CLIENT 5-R-III



KEY FEATURES



- Monitoring of up to 50 channels
- Supports resolution up to 4000 x 3000
- Supports up to 3 monitors simultaneously
- Operating system: Microsoft Windows 10 IoT
- Recording and surveillance system: NMS (Novus Management System)
- Compatible with all NMS Network Video Recorders
- Integration with: recorders AHD NOVUS, systems of SSWIN DSC, systems of NMS ANPR, systems POS (Posnet, Upos i inne)

DIMENSIONS



VIDEO

IP Cameras	up to 50 channels at 640 x 480 resolution resolution using H.264 codec (video + audio) • up to 30 channels at 640 x 480 resolution resolution using H.265 codec (video + audio)
Maximum Supported Camera Resolution	4000 x 3000
Supported Codes	H.264, H.264+, H.265, H.265+, MJPEG
Supported Protocols	Novus, ONVIF, RTSP
Dualstreaming Support	yes

DISPLAY

Monitor Output	1 x HDMI 2.0b, 1 x Display Port 1.4, 1 x Dual link DVI-D, (do 3 monitorów jednocześnie)
Maximum Resolution	3 x 4K UltraHD

AUDIO

Audio input	1 x Line in (3,5mm), 1 x Mic in(3,5mm)
Audio Output	1 x Line output (3,5mm), 1 x HDMI, 1 x Display Port

PERFORMANCE - H.264

2MPX IP Camera	Display up to: 50 sub streams or 12 main streams • Playback up to: 12 main streams
4MPX IP Camera	Display up to: 45 sub streams or 8 main streams • Playback up to: 8 main streams
5MPX IP Camera	Display up to: 45 sub streams or 6 main streams • Playback up to: 6 main streams
8MPX IP Camera	Display up to: 40 sub streams or 4 main streams • Playback up to: 4 main streams
12MPX IP Camera	Display up to: 35 sub streams or 4 main streams • Playback up to: 4 main streams

PERFORMANCE - H.265

2MPX IP Camera	Display up to: 30 sub streams or 8 main streams • Playback up to: 8 main streams
4MPX IP Camera	Display up to: 30 sub streams or 4 main streams • Playback up to: 4 main streams
5MPX IP Camera	Display up to: 35 sub streams or 4 main streams • Playback up to: 4 main streams
8MPX IP Camera	Display up to: 35 sub streams or 2 main streams • Playback up to: 2 main streams
12MPX IP Camera	Display up to: 20 sub streams or 2 main streams • Playback up to: 2 main streams

PLAYBACK

Recorded Data Search by date/time, events, "Text-in"

BACKUP

Backup Methods USB port (HDD or Flash memory), network

STORAGE

Internal storage for system built-in: 1 x SSD NVMe

NETWORK

Network Interface 1 x Ethernet - RJ-45 interface, 10/100/1000/2500 Mbit/s

Bandwidth 350 Mb/s in total from all NVRs

Network Protocols Support HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, FTP, DHCP, DNS, DDNS, RTSP, UPnP, SNMP

Mobile applications NMS Mobile

PTZ

PTZ Functions pan/tilt/zoom, preset commands, patterns, tours, auto-scans

AUXILIARY INTERFACES

USB Ports 4 x USB 2.0, 4 x USB 3.2, 1 x USB 3.2 Type-C

OPERATING SYSTEM

Operating System Microsoft Windows 10 IoT

Recording and Surveillance System NMS (Novus Management System)

Operation Mode triplex

OSD languages: Polish, English, Russian, others

Control PC mouse and keyboard (in-set included)

System Diagnostic automatic control of: HDDs, temperature, fan, network

Security password protection, IP filtering, MAC filtering, limiting the number of connections

INSTALLATION PARAMETERS

Dimensions (mm) 427 (W) x 177 (H) x 450 (D)

RACK Mount 19" 4U

Weight 20 kg

Power Supply/Power Consumption built-in PSU 230 VAC/700 W

Power consumption/heatprint 260W/210W (without HDD for recording)

Operating Temperature 5°C ~ 35°C

NVSO Client Station NVSO CLIENT 5-R-III



KEY FEATURES



- Monitoring of up to 42 channels
- Supports resolution up to 4000 x 3000
- Supports up to 3 monitors simultaneously
- Operating system: Microsoft Windows 10 Pro
- Recording and surveillance system: NMS (Novus Management System)
- Compatible with all NMS Network Video Recorders
- Integration with: recorders AHD NOVUS, systems of SSWIN DSC, systems of NMS ANPR, systems POS (Posnet, Upos i inne)

DIMENSIONS



VIDEO

IP Cameras	up to 50 channels at 640 x 480 resolution resolution using H.264 codec (video + audio) • up to 30 channels at 640 x 480 resolution resolution using H.265 codec (video + audio)
Maximum Supported Camera Resolution	4000 x 3000
Supported Codes	H.264, H.264+, H.265, H.265+, MJPEG
Supported Protocols	Novus, ONVIF, RTSP
Dualstreaming Support	yes

DISPLAY

Monitor Output	1 x HDMI 2.0b, 1 x Display Port 1.4, 1 x Dual link DVI-D, (do 3 monitorów jednocześnie)
Maximum Resolution	3 x 4K UltraHD

AUDIO

Audio input	1 x Line in (3,5mm), 1 x Mic in(3,5mm)
Audio Output	1 x Line output (3,5mm), 1 x HDMI, 1 x Display Port

PERFORMANCE - H.264

2MPX IP Camera	Display up to: 50 sub streams or 12 main streams • Playback up to: 12 main streams
4MPX IP Camera	Display up to: 45 sub streams or 8 main streams • Playback up to: 8 main streams
5MPX IP Camera	Display up to: 45 sub streams or 6 main streams • Playback up to: 6 main streams
8MPX IP Camera	Display up to: 40 sub streams or 4 main streams • Playback up to: 4 main streams
12MPX IP Camera	Display up to: 35 sub streams or 4 main streams • Playback up to: 4 main streams

PERFORMANCE - H.265

2MPX IP Camera	Display up to: 30 sub streams or 8 main streams • Playback up to: 8 main streams
4MPX IP Camera	Display up to: 30 sub streams or 4 main streams • Playback up to: 4 main streams
5MPX IP Camera	Display up to: 35 sub streams or 4 main streams • Playback up to: 4 main streams
8MPX IP Camera	Display up to: 35 sub streams or 2 main streams • Playback up to: 2 main streams
12MPX IP Camera	Display up to: 20 sub streams or 2 main streams • Playback up to: 2 main streams

PLAYBACK

Recorded Data Search by date/time, events, "Text-in"

BACKUP

Backup Methods USB port (HDD or Flash memory), network

STORAGE

Internal storage for system built-in: 1 x SSD NVMe

NETWORK

Network Interface 1 x Ethernet - RJ-45 interface, 10/100/1000/2500 Mbit/s

Bandwidth 350 Mb/s in total from all NVRs

Network Protocols Support HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, FTP, DHCP, DNS, DDNS, RTSP, UPnP, SNMP

Mobile applications NMS Mobile

PTZ

PTZ Functions pan/tilt/zoom, preset commands, patterns, tours, auto-scans

AUXILIARY INTERFACES

USB Ports 4 x USB 2.0, 4 x USB 3.2, 1 x USB 3.2 Type-C

OPERATING SYSTEM

Operating System Microsoft Windows 10 Pro

Recording and Surveillance System NMS (Novus Management System)

Operation Mode triplex

OSD languages: Polish, English, Russian, others

Control PC mouse and keyboard (in-set included)

System Diagnostic automatic control of: HDDs, temperature, fan, network

Security password protection, IP filtering, MAC filtering, limiting the number of connections

INSTALLATION PARAMETERS

Dimensions (mm) 427 (W) x 177 (H) x 450 (D)

RACK Mount 19" 4U

Weight 20 kg

Power Supply/Power Consumption built-in PSU 230 VAC/700 W

Power consumption/heatprint 260W/210W (without HDD for recording)

Operating Temperature 5°C ~ 35°C

NMS Client Station

NMS CLIENT 7-T-III



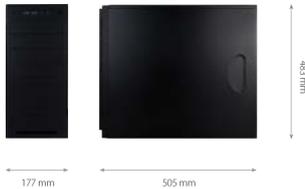
KEY FEATURES



KEY FEATURES

- Monitoring of up to 70 channels
- Supports resolution up to 4000 x 3000
- Supports up to 6 monitors simultaneously
- Operating system: Microsoft Windows 10 IoT
- Recording and surveillance system: NMS (Novus Management System)
- Compatible with all NMS Network Video Recorders
- Integration with: recorders AHD NOVUS, systems of SSWiN DSC, systems of NMS ANPR, systems POS (Posnet, Upos i inne)

DIMENSIONS



VIDEO

IP Cameras up to 70 channels at 640 x 480 resolution resolution using H.264 codec (video + audio) • up to 55 channels at 640 x 480 resolution resolution using H.265 codec (video + audio)

Maximum Supported Camera Resolution 4000 x 3000

Supported Codes H.264, H.264+, H.265, H.265+, MJPEG

Supported Protocols Novus, ONVIF, RTSP

Dualstreaming Support yes

DISPLAY

Monitor Output 2 x HDMI 2.0b, 2 x Display Port 1.4, 2 x Dual link DVI-D, (do 6 monitorów jednocześnie)

Maximum Resolution 6 x 4K UltraHD

AUDIO

Audio input 1 x Line in (3,5mm), 1 x Mic in(3,5mm)

Audio Output 1 x Line output (3,5mm), 2 x HDMI, 2 x Display Port

PERFORMANCE - H.264

2MPX IP Camera Display up to: 70 sub streams or 20 main streams • Playback up to: 20 main streams

4MPX IP Camera Display up to: 70 sub streams or 13 main streams • Playback up to: 13 main streams

5MPX IP Camera Display up to: 60 sub streams or 8 main streams • Playback up to: 8 main streams

8MPX IP Camera Display up to: 40 sub streams or 5 main streams • Playback up to: 5 main streams

12MPX IP Camera Display up to: 35 sub streams or 8 main streams • Playback up to: 8 main streams

PERFORMANCE - H.265

2MPX IP Camera Display up to: 55 sub streams or 15 main streams • Playback up to: 15 main streams

4MPX IP Camera Display up to: 50 sub streams or 8 main streams • Playback up to: 8 main streams

5MPX IP Camera Display up to: 60 sub streams or 5 main streams • Playback up to: 5 main streams

8MPX IP Camera Display up to: 65 sub streams or 4 main streams • Playback up to: 4 main streams

12MPX IP Camera Display up to: 32 sub streams or 4 main streams • Playback up to: 4 main streams

PLAYBACK

Recorded Data Search by date/time, events, "Text-in"

BACKUP

Backup Methods USB port (HDD or Flash memory), network

STORAGE

Internal storage for system built-in: 1 x SSD NVMe

NETWORK

Network Interface 1 x Ethernet - RJ-45 interface, 10/100/1000/2500 Mbit/s

Bandwidth 350 Mb/s in total from all NVRs

Network Protocols Support HTTP, TCP/IP, IPv4/v6, UDP, FTP, DHCP, DNS, NTP, RTSP, UPnP, SMTP

Mobile applications NMS Mobile

PTZ

PTZ Functions pan/tilt/zoom, preset commands, patterns, tours, auto-scans

AUXILIARY INTERFACES

USB Ports 4 x USB 2.0, 4 x USB 3.2, 1 x USB 3.2 Type-C

OPERATING SYSTEM

Operating System Microsoft Windows 10 IoT

Recording and Surveillance System NMS (Novus Management System)

Operation Mode triplex

OSD languages: Polish, English, Russian, others

Control PC mouse and keyboard (in-set included), network, DCZ keyboard

System Diagnostic automatic control of: HDDs, network, camera connection loss

Security password protection, IP filtering, limiting the number of connections

INSTALLATION PARAMETERS

Dimensions (mm) 185 (W) x 408 (H) x 475 (D)

Weight 10 kg

Power Supply/Power Consumption built-in PSU 230 VAC/700 W

Power consumption/heatprint 350W/280W (without HDD for recording)

Operating Temperature 5°C ~ 35°C

NVSO Client Station

NVSO CLIENT 7-T-III



KEY FEATURES



- Monitoring of up to 70 channels
- Supports resolution up to 4000 x 3000
- Supports up to 6 monitors simultaneously
- Operating system: Microsoft Windows 10 Pro
- Recording and surveillance system: NMS (Novus Management System)
- Compatible with all NMS Network Video Recorders
- Integration with: recorders AHD NOVUS, systems of SSWIN DSC, systems of NMS ANPR, systems POS (Posnet, Upos i inne)

DIMENSIONS



VIDEO

IP Cameras	up to 70 channels at 640 x 480 resolution using H.264 codec (video + audio) • up to 55 channels at 640 x 480 resolution using H.265 codec (video + audio)
Maximum Supported Camera Resolution	4000 x 3000
Supported Codes	H.264, H.264+, H.265, H.265+, MJPEG
Supported Protocols	Novus, ONVIF, RTSP
Dualstreaming Support	yes

DISPLAY

Monitor Output	2 x HDMI 2.0b, 2 x Display Port 1.4, 2 x Dual link DVI-D, (do 6 monitorów jednocześnie)
Maximum Resolution	6 x 4K UltraHD

AUDIO

Audio input	1 x Line in (3,5mm), 1 x Mic in(3,5mm)
Audio Output	1 x Line output (3,5mm), 2 x HDMI, 2 x Display Port

PERFORMANCE - H.264

2MPX IP Camera	Display up to: 70 sub streams or 20 main streams • Playback up to: 20 main streams
4MPX IP Camera	Display up to: 70 sub streams or 13 main streams • Playback up to: 13 main streams
5MPX IP Camera	Display up to: 60 sub streams or 8 main streams • Playback up to: 8 main streams
8MPX IP Camera	Display up to: 40 sub streams or 5 main streams • Playback up to: 5 main streams
12MPX IP Camera	Display up to: 35 sub streams or 8 main streams • Playback up to: 8 main streams

PERFORMANCE - H.265

2MPX IP Camera	Display up to: 55 sub streams or 15 main streams • Playback up to: 15 main streams
4MPX IP Camera	Display up to: 50 sub streams or 8 main streams • Playback up to: 8 main streams
5MPX IP Camera	Display up to: 60 sub streams or 5 main streams • Playback up to: 5 main streams
8MPX IP Camera	Display up to: 65 sub streams or 4 main streams • Playback up to: 4 main streams
12MPX IP Camera	Display up to: 32 sub streams or 4 main streams • Playback up to: 4 main streams

PLAYBACK

Recorded Data Search by date/time, events, "Text-in"

BACKUP

Backup Methods USB port (HDD or Flash memory), network

STORAGE

Internal storage for system built-in: 1 x SSD NVMe

NETWORK

Network Interface 1 x Ethernet - RJ-45 interface, 10/100/1000/2500 Mbit/s

Bandwidth 350 Mb/s in total from all NVRs

Network Protocols Support HTTP, TCP/IP, IPv4/v6, UDP, FTP, DHCP, DNS, NTP, RTSP, UPnP, SMTP

Mobile applications NMS Mobile

PTZ

PTZ Functions pan/tilt/zoom, preset commands, patterns, tours, auto-scans

AUXILIARY INTERFACES

USB Ports 4 x USB 2.0, 4 x USB 3.2, 1 x USB 3.2 Type-C

OPERATING SYSTEM

Operating System Microsoft Windows 10 Pro

Recording and Surveillance System NMS (Novus Management System)

Operation Mode triplex

OSD languages: Polish, English, Russian, others

Control PC mouse and keyboard (in-set included), network, DCZ keyboard

System Diagnostic automatic control of: HDDs, network, camera connection loss

Security password protection, IP filtering, limiting the number of connections

INSTALLATION PARAMETERS

Dimensions (mm) 185 (W) x 408 (H) x 475 (D)

Weight 10 kg

Power Supply/Power Consumption built-in PSU 230 VAC/700 W

Power consumption/heatprint 350W/280W (without HDD for recording)

Operating Temperature 5°C ~ 35°C

NMS Client Station NMS CLIENT 7-R-III



KEY FEATURES



KEY FEATURES

- Monitoring of up to 70 channels
- Supports resolution up to 4000 x 3000
- Supports up to 6 monitors simultaneously
- Operating system: Microsoft Windows 10 IoT
- Recording and surveillance system: NMS (Novus Management System)
- Compatible with all NMS Network Video Recorders
- Integration with: recorders AHD NOVUS, systems of SSWiN DSC, systems of NMS ANPR, systems POS (Posnet, Upos i inne)

DIMENSIONS



VIDEO

IP Cameras	up to 70 channels at 640 x 480 resolution resolution using H.264 codec (video + audio) • up to 55 channels at 640 x 480 resolution resolution using H.265 codec (video + audio)
Maximum Supported Camera Resolution	4000 x 3000
Supported Codes	H.264, H.264+, H.265, H.265+, MJPEG
Supported Protocols	Novus, ONVIF, RTSP
Dualstreaming Support	yes

DISPLAY

Monitor Output	2 x HDMI 2.0b, 2 x Display Port 1.4, 2 x Dual link DVI-D, (do 6 monitorów jednocześnie)
Maximum Resolution	6 x 4K UltraHD

AUDIO

Audio input	1 x Line in (3,5mm), 1 x Mic in(3,5mm)
Audio Output	1 x Line output (3,5mm), 2 x HDMI, 2 x Display Port

PERFORMANCE - H.264

2MPX IP Camera	Display up to: 70 sub streams or 20 main streams • Playback up to: 20 main streams
4MPX IP Camera	Display up to: 70 sub streams or 13 main streams • Playback up to: 13 main streams
5MPX IP Camera	Display up to: 60 sub streams or 8 main streams • Playback up to: 8 main streams
8MPX IP Camera	Display up to: 40 sub streams or 5 main streams • Playback up to: 5 main streams
12MPX IP Camera	Display up to: 35 sub streams or 8 main streams • Playback up to: 8 main streams

PERFORMANCE - H.265

2MPX IP Camera	Display up to: 55 sub streams or 15 main streams • Playback up to: 15 main streams
4MPX IP Camera	Display up to: 50 sub streams or 8 main streams • Playback up to: 8 main streams
5MPX IP Camera	Display up to: 60 sub streams or 5 main streams • Playback up to: 5 main streams
8MPX IP Camera	Display up to: 65 sub streams or 4 main streams • Playback up to: 4 main streams
12MPX IP Camera	Display up to: 32 sub streams or 4 main streams • Playback up to: 4 main streams

PLAYBACK

Recorded Data Search by date/time, events, "Text-in"

BACKUP

Backup Methods USB port (HDD or Flash memory), network

STORAGE

Internal storage for system built-in: 1 x SSD NVMe

NETWORK

Network Interface 1 x Ethernet - RJ-45 interface, 10/100/1000/2500 Mbit/s

Bandwidth 350 Mb/s in total from all NVRs

Network Protocols Support HTTP, TCP/IP, IPv4, UDP, FTP, DHCP, DNS, NTP, RTSP, UPnP, SMTP

Mobile applications NMS Mobile

PTZ

PTZ Functions pan/tilt/zoom, preset commands, patterns, tours, auto-scans

AUXILIARY INTERFACES

USB Ports 4 x USB 2.0, 4 x USB 3.2, 1 x USB 3.2 Type-C

OPERATING SYSTEM

Operating System Microsoft Windows 10 IoT

Recording and Surveillance System NMS (Novus Management System)

Operation Mode triplex

OSD languages: Polish, English, Russian, others

Control PC mouse and keyboard (in-set included), network, DCZ keyboard

System Diagnostic automatic control of: HDDs, network, camera connection loss

Security password protection, IP filtering, limiting the number of connections

INSTALLATION PARAMETERS

Dimensions (mm) 483 (W) x 177 (H) x 505 (D)

RACK Mount 19" 4U

Weight 25 kg

Power Supply/Power Consumption built-in PSU 230 VAC/700 W

Power consumption/heatprint 350W/280W (without HDD for recording)

Operating Temperature 5°C ~ 35°C

NVSO Client Station NVSO CLIENT 7-R-III



KEY FEATURES



- Monitoring of up to 70 channels
- Supports resolution up to 4000 x 3000
- Supports up to 6 monitors simultaneously
- Operating system: Microsoft Windows 10 Pro
- Recording and surveillance system: NMS (Novus Management System)
- Compatible with all NMS Network Video Recorders
- Integration with: recorders AHD NOVUS, systems of SSWIN DSC, systems of NMS ANPR, systems POS (Posnet, Upos i inne)

DIMENSIONS



VIDEO

IP Cameras	up to 70 channels at 640 x 480 resolution resolution using H.264 codec (video + audio) • up to 55 channels at 640 x 480 resolution resolution using H.265 codec (video + audio)
Maximum Supported Camera Resolution	4000 x 3000
Supported Codes	H.264, H.264+, H.265, H.265+, MJPEG
Supported Protocols	Novus, ONVIF, RTSP
Dualstreaming Support	yes

DISPLAY

Monitor Output	2 x HDMI 2.0b, 2 x Display Port 1.4, 2 x Dual link DVI-D, (do 6 monitorów jednocześnie)
Maximum Resolution	6 x 4K UltraHD

AUDIO

Audio input	1 x Line in (3,5mm), 1 x Mic in(3,5mm)
Audio Output	1 x Line output (3,5mm), 2 x HDMI, 2 x Display Port

PERFORMANCE - H.264

2MPX IP Camera	Display up to: 70 sub streams or 20 main streams • Playback up to: 20 main streams
4MPX IP Camera	Display up to: 70 sub streams or 13 main streams • Playback up to: 13 main streams
5MPX IP Camera	Display up to: 60 sub streams or 8 main streams • Playback up to: 8 main streams
8MPX IP Camera	Display up to: 40 sub streams or 5 main streams • Playback up to: 5 main streams
12MPX IP Camera	Display up to: 35 sub streams or 8 main streams • Playback up to: 8 main streams

PERFORMANCE - H.265

2MPX IP Camera	Display up to: 55 sub streams or 15 main streams • Playback up to: 15 main streams
4MPX IP Camera	Display up to: 50 sub streams or 8 main streams • Playback up to: 8 main streams
5MPX IP Camera	Display up to: 60 sub streams or 5 main streams • Playback up to: 5 main streams
8MPX IP Camera	Display up to: 65 sub streams or 4 main streams • Playback up to: 4 main streams
12MPX IP Camera	Display up to: 32 sub streams or 4 main streams • Playback up to: 4 main streams

PLAYBACK

Recorded Data Search by date/time, events, "Text-in"

BACKUP

Backup Methods USB port (HDD or Flash memory), network

STORAGE

Internal storage for system built-in: 1 x SSD NVMe

NETWORK

Network Interface 1 x Ethernet - RJ-45 interface, 10/100/1000/2500 Mbit/s

Bandwidth 350 Mb/s in total from all NVRs

Network Protocols Support HTTP, TCP/IP, IPv4, UDP, FTP, DHCP, DNS, NTP, RTSP, UPnP, SMTP

Mobile applications NMS Mobile

PTZ

PTZ Functions pan/tilt/zoom, preset commands, patterns, tours, auto-scans

AUXILIARY INTERFACES

USB Ports 4 x USB 2.0, 4 x USB 3.2, 1 x USB 3.2 Type-C

OPERATING SYSTEM

Operating System Microsoft Windows 10 Pro

Recording and Surveillance System NMS (Novus Management System)

Operation Mode triplex

OSD languages: Polish, English, Russian, others

Control PC mouse and keyboard (in-set included), network, DCZ keyboard

System Diagnostic automatic control of: HDDs, network, camera connection loss

Security password protection, IP filtering, limiting the number of connections

INSTALLATION PARAMETERS

Dimensions (mm) 483 (W) x 177 (H) x 505 (D)

RACK Mount 19" 4U

Weight 25 kg

Power Supply/Power Consumption built-in PSU 230 VAC/700 W

Power consumption/heatprint 350W/280W (without HDD for recording)

Operating Temperature 5°C ~ 35°C

NMS IP Recorder NMS NVR 7-4U-III



KEY FEATURES



- Video and audio channels: 150
- Recording speed up to 3750 fps at 1920 x 1080
- Supports resolution up to 4000 x 3000
- Recorded stream size: 350 Mb/s in total from all cameras
- Supports up to 3 monitors simultaneously
- optional disk mounting: 6 x SATA 3,5"
- Operating system: Microsoft Windows 10 IoT
- Recording and surveillance system: NMS (Novus Management System)
- Compatible with all NOVUS IP cameras

DIMENSIONS



VIDEO

IP Camera Recording	120 channels at 1920x1080 (video+audio) using H.264 codec • 150 channels at 1920x1080 (video+audio) using H.265 codec
Maximum Supported Camera Resolution	4000x3000
Supported Codes	H.264, H.264+, H.265, H.265+, MJPEG
Supported Cameras and Protocols	Novus, Novus fisheye, ONVIF, ONVIF fisheye, RTSP, RTSP fisheye
Dualstreaming Support	yes

DISPLAY

Monitor Output	1 x HDMI 2.0b, 1 x Display Port 1.4, 1 x Dual link DVI-D (up to 3 monitors simultaneously)
Maximum Resolution	3 x 4K UltraHD

AUDIO

Audio input	1 x Line in (3,5mm), 1 x Mic in(3,5mm)
Audio Output	1 x Line (3,5mm), 1 x HDMI, 1 x Display Port
Audio Input/Output in Cameras	Supports audio input/output build in cameras

PERFORMANCE - H.264

2MPX IP Camera	Recording up to: 120 main streams (while displaying: 8 sub streams) • Display up to: 70 sub streams or 20 main streams (while recording: 70 main streams) • Playback up to: 20 main streams (while recording: 70 main streams)
4MPX IP Camera	Recording up to: 70 main streams (while displaying: 8 sub streams) • Display up to: 70 sub streams or 13 main streams (while recording: 70 main streams) • Playback up to: 13 main streams (while recording: 70 main streams)
5MPX IP Camera	Recording up to: 60 main streams (while displaying: 8 sub streams) • Display up to: 60 sub streams or 8 main streams (while recording: 60 main streams) • Playback up to: 8 main streams (while recording: 60 main streams)
8MPX IP Camera	Recording up to: 40 main streams (while displaying: 8 sub streams) • Display up to: 40 sub streams or 5 main streams (while recording: 40 main streams) • Playback up to: 5 main streams (while recording: 40 main streams)
12MPX IP Camera	Recording up to: 35 main streams (while displaying: 8 sub streams) • Display up to: 35 sub streams or 8 main streams (while recording: 35 main streams) • Playback up to: 8 main streams (while recording: 35 main streams)

PERFORMANCE - H.265

2MPX IP Camera	Recording up to: 150 main streams (while displaying: 8 sub streams) • Display up to: 55 sub streams or 15 main streams (while recording: 55 main streams) • Playback up to: 15 main streams (while recording: 55 main streams)
----------------	--

NMS IP Recorder NMS NVR 7-4U-III

4MPX IP Camera	Recording up to: 100 main streams (while displaying: 8 sub streams) • Display up to: 50 sub streams or 8 main streams (while recording: 50 main streams) • Playback up to: 8 main streams (while recording: 50 main streams)
5MPX IP Camera	Recording up to: 80 main streams (while displaying: 8 sub streams) • Display up to: 60 sub streams or 5 main streams (while recording: 60 main streams) • Playback up to: 5 main streams (while recording: 60 main streams)
8MPX IP Camera	Recording up to: 70 main streams (while displaying: 8 sub streams) • Display up to: 65 sub streams or 4 main streams (while recording: 65 main streams) • Playback up to: 4 main streams (while recording: 65 main streams)
12MPX IP Camera	Recording up to: 56 main streams (while displaying: 8 sub streams) • Display up to: 32 sub streams or 4 main streams (while recording: 32 main streams) • Playback up to: 4 main streams (while recording: 32 main streams)

RECORDING

Recording Mode	Continuous, Schedule, Panic, Triggered: manually, by alarm input, motion detection, video analysis, POS, temperature alarm
Schedule	individual settings for: each camera, each day of the week, specific days (holidays etc.), configuration with an accuracy of: 15 min, possibility of combining individual recording modes
Prealarm/Postalarm	Up to: 30s / Up to: 600s

PLAYBACK

Recorded Data Search	By Date/Time, Events, "Text-in"
----------------------	---------------------------------

BACKUP

Backup Methods	USB port (HDD or Flash drive), Network
Backup File Format	JPEG, BMP, AVI, NMS

HDD

Internal storage for system	1 x SSD NVMe
Internal Storage for Recording	6 available bays for 3,5" HDD surveillance grade storage media

ALARMS

Alarm Input/output in cameras	support of alarm input and output built in cameras
Motion detection	support of motion detection built in cameras
Video Analytics	supported built in analytics in camera
Temperature alarm	support of temperature alarm built in cameras
Licence plate recognition (LPR)	support of selected image analysis functions available in the camera
System Reactions to Alarm Events	e-mail, Screen Message, Recording Activation, PTZ

NETWORK

Network Interface	1 x Ethernet - RJ45 interface, 10/100/1000 Mbit/s • 1 x Ethernet - złącze RJ45, 10/100/1000/2500 Mbit/s
Network Throughput	up to 350Mbit/s from all cameras • up to 350Mbit/s to all client stations • Max network throughput: 350Mbit/s for each network card
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, FTP, DHCP, DNS, DDNS, RTSP, RTP, SAMBA
Compatible Mobile Applications	NMS Mobile

PTZ

NMS IP Recorder NMS NVR 7-4U-III

PTZ Functions pan, tilt, zoom, preset commands, patterns, tours, auto-scans, focus, iris

ADDITIONAL INTERFACES

USB Ports 4 x USB 2.0, 4 x USB 3.2, 1 x USB 3.2 Type-C

OPERATING SYSTEM

Operating System	Microsoft Windows 10 IoT
Recording and Surveillance System	NMS (Novus Management System)
Additional Software	Internet Explorer
Operation Mode	Pentaplex
OSD	Polish, English, Russian, others
Control	PC mouse and keyboard (in-set included), DCZ keyboard
System Diagnostic	automatic control of: HDDs, Temperature, Fan, Network, Camera connection loss
Security	Password protection, IP filtering, MAC filtering, Limiting the number of connections

INTEGRATION

Integrated Devices Novus IP Cameras, Novus IP Recorders, Novus AHD Recorders, NMS-ANPR Software, DSC Systems, POS Systems (Posnet, Upos and other), ONVIF Devices, RTSP Devices

INSTALLATION PARAMETERS

Dimensions	482mm (W) x 178mm(H) x 505mm (D)
Weight	24 kg (without HDDs for recording)
Power Supply	built in 700W, with 230VAC input
Power consumption/heatprint	280W/230W (without HDD for recording)
Operating Temperature	5°C ~ 35°C
RACK Mount 19"	4U

Attention:

To support more than 1 RTSP stream and 1 ONVIF stream you will need special licence key.

NVSO IP Recorder NVSO 7-4U-III



KEY FEATURES



- Video and audio channels: 150
- Recording speed up to 3750 fps at 1920 x 1080
- Supports resolution up to 4000 x 3000
- Recorded stream size: 350 Mb/s in total from all cameras
- Supports up to 3 monitors simultaneously
- optional disk mounting: 6 x SATA 3,5"
- Operating system: Microsoft Windows 10 Pro
- Recording and surveillance system: NMS (Novus Management System)
- Compatible with all NOVUS IP cameras

DIMENSIONS



VIDEO

IP Camera Recording	120 channels at 1920x1080 (video+audio) using H.264 codec • 150 channels at 1920x1080 (video+audio) using H.265 codec
Maximum Supported Camera Resolution	4000x3000
Supported Codes	H.264, H.264+, H.265, H.265+, MJPEG
Supported Cameras and Protocols	Novus, Novus fisheye, ONVIF, ONVIF fisheye, RTSP, RTSP fisheye
Dualstreaming Support	yes

DISPLAY

Monitor Output	1 x HDMI 2.0b, 1 x Display Port 1.4, 1 x Dual link DVI-D (up to 3 monitors simultaneously)
Maximum Resolution	3 x 4K UltraHD

AUDIO

Audio input	1 x Line in (3,5mm), 1 x Mic in(3,5mm)
Audio Output	1 x Line (3,5mm), 1 x HDMI, 1 x Display Port
Audio Input/Output in Cameras	Supports audio input/output build in cameras

PERFORMANCE - H.264

2MPX IP Camera	Recording up to: 120 main streams (while displaying: 8 sub streams) • Display up to: 70 sub streams or 20 main streams (while recording: 70 main streams) • Playback up to: 20 main streams (while recording: 70 main streams)
4MPX IP Camera	Recording up to: 70 main streams (while displaying: 8 sub streams) • Display up to: 70 sub streams or 13 main streams (while recording: 70 main streams) • Playback up to: 13 main streams (while recording: 70 main streams)
5MPX IP Camera	Recording up to: 60 main streams (while displaying: 8 sub streams) • Display up to: 60 sub streams or 8 main streams (while recording: 60 main streams) • Playback up to: 8 main streams (while recording: 60 main streams)
8MPX IP Camera	Recording up to: 40 main streams (while displaying: 8 sub streams) • Display up to: 40 sub streams or 5 main streams (while recording: 40 main streams) • Playback up to: 5 main streams (while recording: 40 main streams)
12MPX IP Camera	Recording up to: 35 main streams (while displaying: 8 sub streams) • Display up to: 35 sub streams or 8 main streams (while recording: 35 main streams) • Playback up to: 8 main streams (while recording: 35 main streams)

PERFORMANCE - H.265

2MPX IP Camera	Recording up to: 150 main streams (while displaying: 8 sub streams) • Display up to: 55 sub streams or 15 main streams (while recording: 55 main streams) • Playback up to: 15 main streams (while recording: 55 main streams)
----------------	--

NVSO IP Recorder NVSO 7-4U-III

4MPX IP Camera	Recording up to: 100 main streams (while displaying: 8 sub streams) • Display up to: 50 sub streams or 8 main streams (while recording: 50 main streams) • Playback up to: 8 main streams (while recording: 50 main streams)
5MPX IP Camera	Recording up to: 80 main streams (while displaying: 8 sub streams) • Display up to: 60 sub streams or 5 main streams (while recording: 60 main streams) • Playback up to: 5 main streams (while recording: 60 main streams)
8MPX IP Camera	Recording up to: 70 main streams (while displaying: 8 sub streams) • Display up to: 65 sub streams or 4 main streams (while recording: 65 main streams) • Playback up to: 4 main streams (while recording: 65 main streams)
12MPX IP Camera	Recording up to: 56 main streams (while displaying: 8 sub streams) • Display up to: 32 sub streams or 4 main streams (while recording: 32 main streams) • Playback up to: 4 main streams (while recording: 32 main streams)

RECORDING

Recording Mode	Continuous, Schedule, Panic, Triggered: manually, by alarm input, motion detection, video analysis, POS, temperature alarm
Schedule	individual settings for: each camera, each day of the week, specific days (holidays etc.), configuration with an accuracy of: 15 min, possibility of combining individual recording modes
Prealarm/Postalarm	Up to: 30s / Up to: 600s

PLAYBACK

Recorded Data Search	By Date/Time, Events, "Text-in"
----------------------	---------------------------------

BACKUP

Backup Methods	USB port (HDD or Flash drive), Network
Backup File Format	JPEG, BMP, AVI, NMS

HDD

Internal storage for system	1 x SSD NVMe
Internal Storage for Recording	6 available bays for 3,5" HDD surveillance grade storage media

ALARMS

Alarm Input/output in cameras	support of alarm input and output built in cameras
Motion detection	support of motion detection built in cameras
Video Analytics	supported built in analytics in camera
Temperature alarm	support of temperature alarm built in cameras
Licence plate recognition (LPR)	support of selected image analysis functions available in the camera
System Reactions to Alarm Events	e-mail, Screen Message, Recording Activation, PTZ

NETWORK

Network Interface	1 x Ethernet - RJ45 interface, 10/100/1000 Mbit/s • 1 x Ethernet - złącze RJ45, 10/100/1000/2500 Mbit/s
Network Throughput	up to 350Mbit/s from all cameras • up to 350Mbit/s to all client stations • Max network throughput: 350Mbit/s for each network card
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, SAMBA
Compatible Mobile Applications	NMS Mobile

PTZ

NVSO IP Recorder NVSO 7-4U-III

PTZ Functions pan, tilt, zoom, preset commands, patterns, tours, auto-scans, focus, iris

ADDITIONAL INTERFACES

USB Ports 4 x USB 2.0, 4 x USB 3.2, 1 x USB 3.2 Type-C

OPERATING SYSTEM

Operating System	Microsoft Windows 10 Pro
Recording and Surveillance System	NMS (Novus Management System)
Additional Software	Internet Explorer
Operation Mode	Pentaplex
OSD	Polish, English, Russian, others
Control	PC mouse and keyboard (in-set included), DCZ keyboard
System Diagnostic	automatic control of: HDDs, Temperature, Fan, Network, Camera connection loss
Security	Password protection, IP filtering, MAC filtering, Limiting the number of connections

INTEGRATION

Integrated Devices Novus IP Cameras, Novus IP Recorders, Novus AHD Recorders, NMS-ANPR Software, DSC Systems, POS Systems (Posnet, Upos and other), ONVIF Devices, RTSP Devices

INSTALLATION PARAMETERS

Dimensions	482mm (W) x 178mm(H) x 505mm (D)
Weight	24 kg (without HDDs for recording)
Power Supply	built in 700W, with 230VAC input
Power consumption/heatprint	280W/230W (without HDD for recording)
Operating Temperature	5°C ~ 35°C
RACK Mount 19"	4U

Attention:

To support more than 1 RTSP stream and 1 ONVIF stream you will need special licence key.

NMS IP Recorder NMS NVR 3-T-III

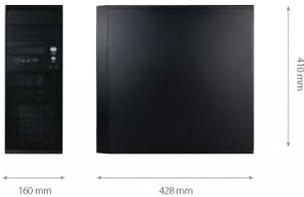


KEY FEATURES



- Video and audio channels: 140
- Recording speed up to 3500 fps at 1920 x 1080
- Supports resolution up to 4000 x 3000
- Recorded stream size: 350 Mb/s in total from all cameras
- Supports up to 3 monitors simultaneously
- optional disk mounting: 6 x SATA 3,5"
- Operating system: Microsoft Windows 10 IoT
- Recording and surveillance system: NMS (Novus Management System)
- Compatible with all NOVUS IP cameras

DIMENSIONS



VIDEO

IP Camera Recording	100 channels at 1920x1080 (video+audio) using H.264 codec • 140 channels at 1920x1080 (video+audio) using H.265 codec
Maximum Supported Camera Resolution	4000x3000
Supported Codes	H.264, H.264+, H.265, H.265+, MJPEG
Supported Cameras and Protocols	Novus, Novus fisheye, ONVIF, ONVIF fisheye, RTSP, RTSP fisheye
Dualstreaming Support	yes

DISPLAY

Monitor Output	1 x HDMI 2.0b, 1 x Display Port 1.4, 1 x Dual link DVI-D (up to 3 monitors simultaneously)
Maximum Resolution	3 x 4K UltraHD

AUDIO

Audio input	1 x Line in (3,5mm), 1 x Mic in(3,5mm)
Audio Output	1 x Line (3,5mm), 1 x HDMI, 1 x Display Port
Audio Input/Output in Cameras	Supports audio input/output build in cameras

PERFORMANCE - H.264

2MPX IP Camera	Recording up to: 100 main streams (while displaying: 8 sub streams) • Display up to: 42 sub streams or 13 main streams (while recording: 42 main streams) • Playback up to: 13 main streams (while recording: 42 main streams)
4MPX IP Camera	Recording up to: 65 main streams (while displaying: 8 sub streams) • Display up to: 40 sub streams or 7 main streams (while recording: 40 main streams) • Playback up to: 7 main streams (while recording: 40 main streams)
5MPX IP Camera	Recording up to: 60 main streams (while displaying: 8 sub streams) • Display up to: 35 sub streams or 5 main streams (while recording: 35 main streams) • Playback up to: 5 main streams (while recording: 35 main streams)
8MPX IP Camera	Recording up to: 36 main streams (while displaying: 8 sub streams) • Display up to: 32 sub streams or 3 main streams (while recording: 32 main streams) • Playback up to: 3 main streams (while recording: 32 main streams)
12MPX IP Camera	Recording up to: 32 main streams (while displaying: 8 sub streams) • Display up to: 26 sub streams or 3 main streams (while recording: 26 main streams) • Playback up to: 3 main streams (while recording: 26 main streams)

PERFORMANCE - H.265

2MPX IP Camera	Recording up to: 140 main streams (while displaying: 8 sub streams) • Display up to: 30 sub streams or 6 main streams (while recording: 30 main streams) • Playback up to: 6 main streams (while recording: 30 main streams)
----------------	---

NMS IP Recorder NMS NVR 3-T-III

4MPX IP Camera	Recording up to: 90 main streams (while displaying: 8 sub streams) • Display up to: 30 sub streams or 3 main streams (while recording: 30 main streams) • Playback up to: 3 main streams (while recording: 30 main streams)
5MPX IP Camera	Recording up to: 70 main streams (while displaying: 8 sub streams) • Display up to: 30 sub streams or 3 main streams (while recording: 30 main streams) • Playback up to: 3 main streams (while recording: 30 main streams)
8MPX IP Camera	Recording up to: 60 main streams (while displaying: 8 sub streams) • Display up to: 28 sub streams or 2 main streams (while recording: 28 main streams) • Playback up to: 2 main streams (while recording: 28 main streams)
12MPX IP Camera	Recording up to: 48 main streams (while displaying: 8 sub streams) • Display up to: 20 sub streams or 2 main streams (while recording: 20 main streams) • Playback up to: 2 main streams (while recording: 20 main streams)

RECORDING

Recording Mode	Continuous, Schedule, Panic, Triggered: manually, by alarm input, motion detection, video analysis, POS, temperature alarm
Schedule	individual settings for: each camera, each day of the week, specific days (holidays etc.), configuration with an accuracy of: 15 min, possibility of combining individual recording modes
Prealarm/Postalarm	Up to: 30s / Up to: 600s

PLAYBACK

Recorded Data Search	By Date/Time, Events, "Text-in"
----------------------	---------------------------------

BACKUP

Backup Methods	USB port (HDD or Flash drive), Network
Backup File Format	JPEG, BMP, AVI, NMS

HDD

Internal storage for system	1 x SSD NVMe
Internal Storage for Recording	6 available bays for 3,5" HDD surveillance grade storage media

ALARMS

Alarm Input/output in cameras	support of alarm input and output built in cameras
Motion detection	support of motion detection built in cameras
Video Analytics	supported built in analytics in camera
Temperature alarm	support of temperature alarm built in cameras
Licence plate recognition (LPR)	support of selected image analysis functions available in the camera
System Reactions to Alarm Events	e-mail, Screen Message, Recording Activation, PTZ

NETWORK

Network Interface	1 x Ethernet - RJ45 interface, 10/100/1000/2500 Mbit/s
Network Throughput	up to 350Mbit/s from all cameras • up to 350Mbit/s to all client stations • Max network throughput: 350Mbit/s for each network card
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, SAMBA
Compatible Mobile Applications	NMS Mobile

PTZ

PTZ Functions	pan, tilt, zoom, preset commands, patterns, tours, auto-scans, focus, iris
---------------	--

ADDITIONAL INTERFACES

USB Ports	4 x USB 2.0, 4 x USB 3.2, 1 x USB 3.2 Type-C
-----------	--

OPERATING SYSTEM

Operating System	Microsoft Windows 10 IoT
Recording and Surveillance System	NMS (Novus Management System)
Additional Software	Internet Explorer
Operation Mode	Pentaplex
OSD	Polish, English, Russian, others
Control	PC mouse and keyboard (in-set included), DCZ keyboard
System Diagnostic	automatic control of: HDDs, Temperature, Fan, Network, Camera connection loss
Security	Password protection, IP filtering, MAC filtering, Limiting the number of connections

INTEGRATION

Integrated Devices	Novus IP Cameras, Novus IP Recorders, Novus AHD Recorders, NMS-ANPR Software, DSC Systems, POS Systems (Posnet, Upos and other), ONVIF Devices, RTSP Devices
--------------------	--

INSTALLATION PARAMETERS

Dimensions	160mm (W) x 428mm(H) x 410mm (D)
Weight	10 kg (without HDDs for recording)
Power Supply	built in 700W, with 230VAC input
Power consumption/heatprint	250W/200W (without HDD for recording)
Operating Temperature	5°C ~ 35°C

Attention:

To support more than 1 RTSP stream and 1 ONVIF stream you will need special licence key.

NVSO IP Recorder NVSO 3-T-III

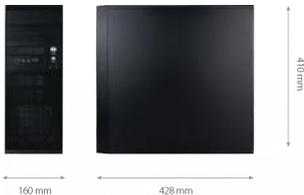


KEY FEATURES



- Video and audio channels: 140
- Recording speed up to 3500 fps at 1920 x 1080
- Supports resolution up to 4000 x 3000
- Recorded stream size: 350 Mb/s in total from all cameras
- Supports up to 3 monitors simultaneously
- optional disk mounting: 6 x SATA 3,5"
- Operating system: Microsoft Windows 10 Pro
- Recording and surveillance system: NMS (Novus Management System)
- Compatible with all NOVUS IP cameras

DIMENSIONS



VIDEO

IP Camera Recording	100 channels at 1920x1080 (video+audio) using H.264 codec • 140 channels at 1920x1080 (video+audio) using H.265 codec
Maximum Supported Camera Resolution	4000x3000
Supported Codes	H.264, H.264+, H.265, H.265+, MJPEG
Supported Cameras and Protocols	Novus, Novus fisheye, ONVIF, ONVIF fisheye, RTSP, RTSP fisheye
Dualstreaming Support	yes

DISPLAY

Monitor Output	1 x HDMI 2.0b, 1 x Display Port 1.4, 1 x Dual link DVI-D (up to 3 monitors simultaneously)
Maximum Resolution	3 x 4K UltraHD

AUDIO

Audio input	1 x Line in (3,5mm), 1 x Mic in(3,5mm)
Audio Output	1 x Line (3,5mm), 1 x HDMI, 1 x Display Port
Audio Input/Output in Cameras	Supports audio input/output build in cameras

PERFORMANCE - H.264

2MPX IP Camera	Recording up to: 100 main streams (while displaying: 8 sub streams) • Display up to: 42 sub streams or 13 main streams (while recording: 42 main streams) • Playback up to: 13 main streams (while recording: 42 main streams)
4MPX IP Camera	Recording up to: 65 main streams (while displaying: 8 sub streams) • Display up to: 40 sub streams or 7 main streams (while recording: 40 main streams) • Playback up to: 7 main streams (while recording: 40 main streams)
5MPX IP Camera	Recording up to: 60 main streams (while displaying: 8 sub streams) • Display up to: 35 sub streams or 5 main streams (while recording: 35 main streams) • Playback up to: 5 main streams (while recording: 35 main streams)
8MPX IP Camera	Recording up to: 36 main streams (while displaying: 8 sub streams) • Display up to: 32 sub streams or 3 main streams (while recording: 32 main streams) • Playback up to: 3 main streams (while recording: 32 main streams)
12MPX IP Camera	Recording up to: 32 main streams (while displaying: 8 sub streams) • Display up to: 26 sub streams or 3 main streams (while recording: 26 main streams) • Playback up to: 3 main streams (while recording: 26 main streams)

PERFORMANCE - H.265

2MPX IP Camera	Recording up to: 140 main streams (while displaying: 8 sub streams) • Display up to: 30 sub streams or 6 main streams (while recording: 30 main streams) • Playback up to: 6 main streams (while recording: 30 main streams)
----------------	---

4MPX IP Camera	Recording up to: 90 main streams (while displaying: 8 sub streams) • Display up to: 30 sub streams or 3 main streams (while recording: 30 main streams) • Playback up to: 3 main streams (while recording: 30 main streams)
5MPX IP Camera	Recording up to: 70 main streams (while displaying: 8 sub streams) • Display up to: 30 sub streams or 3 main streams (while recording: 30 main streams) • Playback up to: 3 main streams (while recording: 30 main streams)
8MPX IP Camera	Recording up to: 60 main streams (while displaying: 8 sub streams) • Display up to: 28 sub streams or 2 main streams (while recording: 28 main streams) • Playback up to: 2 main streams (while recording: 28 main streams)
12MPX IP Camera	Recording up to: 48 main streams (while displaying: 8 sub streams) • Display up to: 20 sub streams or 2 main streams (while recording: 20 main streams) • Playback up to: 2 main streams (while recording: 20 main streams)

RECORDING

Recording Mode	Continuous, Schedule, Panic, Triggered: manually, by alarm input, motion detection, video analysis, POS, temperature alarm
Schedule	individual settings for: each camera, each day of the week, specific days (holidays etc.), configuration with an accuracy of: 15 min, possibility of combining individual recording modes
Prealarm/Postalarm	Up to: 30s / Up to: 600s

PLAYBACK

Recorded Data Search	By Date/Time, Events, "Text-in"
----------------------	---------------------------------

BACKUP

Backup Methods	USB port (HDD or Flash drive), Network
Backup File Format	JPEG, BMP, AVI, NMS

HDD

Internal storage for system	1 x SSD NVMe
Internal Storage for Recording	6 available bays for 3,5" HDD surveillance grade storage media

ALARMS

Alarm Input/output in cameras	support of alarm input and output built in cameras
Motion detection	support of motion detection built in cameras
Video Analytics	supported built in analytics in camera
Temperature alarm	support of temperature alarm built in cameras
Licence plate recognition (LPR)	support of selected image analysis functions available in the camera
System Reactions to Alarm Events	e-mail, Screen Message, Recording Activation, PTZ

NETWORK

Network Interface	1 x Ethernet - RJ45 interface, 10/100/1000/2500 Mbit/s
Network Throughput	up to 350Mbit/s from all cameras • up to 350Mbit/s to all client stations • Max network throughput: 350Mbit/s for each network card
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, SAMBA
Compatible Mobile Applications	NMS Mobile

PTZ

PTZ Functions	pan, tilt, zoom, preset commands, patterns, tours, auto-scans, focus, iris
---------------	--

ADDITIONAL INTERFACES

USB Ports	4 x USB 2.0, 4 x USB 3.2, 1 x USB 3.2 Type-C
-----------	--

OPERATING SYSTEM

Operating System	Microsoft Windows 10 Pro
Recording and Surveillance System	NMS (Novus Management System)
Additional Software	Internet Explorer
Operation Mode	Pentaplex
OSD	Polish, English, Russian, others
Control	PC mouse and keyboard (in-set included), DCZ keyboard
System Diagnostic	automatic control of: HDDs, Temperature, Fan, Network, Camera connection loss
Security	Password protection, IP filtering, MAC filtering, Limiting the number of connections

INTEGRATION

Integrated Devices	Novus IP Cameras, Novus IP Recorders, Novus AHD Recorders, NMS-ANPR Software, DSC Systems, POS Systems (Posnet, Upos and other), ONVIF Devices, RTSP Devices
--------------------	--

INSTALLATION PARAMETERS

Dimensions	160mm (W) x 428mm(H) x 410mm (D)
Weight	10 kg (without HDDs for recording)
Power Supply	built in 700W, with 230VAC input
Power consumption/heatprint	250W/200W (without HDD for recording)
Operating Temperature	5°C ~ 35°C

Attention:

To support more than 1 RTSP stream and 1 ONVIF stream you will need special licence key.

NMS IP Recorder NMS NVR 3-4U-III



KEY FEATURES



- Video and audio channels: 140
- Recording speed up to 3500 fps at 1920 x 1080
- Supports resolution up to 4000 x 3000
- Recorded stream size: 350 Mb/s in total from all cameras
- Supports up to 3 monitors simultaneously
- optional disk mounting: 6 x SATA 3,5"
- Operating system: Microsoft Windows 10 IoT
- Recording and surveillance system: NMS (Novus Management System)
- Compatible with all NOVUS IP cameras

DIMENSIONS



VIDEO

IP Camera Recording	100 channels at 1920x1080 (video+audio) using H.264 codec • 140 channels at 1920x1080 (video+audio) using H.265 codec
Maximum Supported Camera Resolution	4000x3000
Supported Codes	H.264, H.264+, H.265, H.265+, MJPEG
Supported Cameras and Protocols	Novus, Novus fisheye, ONVIF, ONVIF fisheye, RTSP, RTSP fisheye
Dualstreaming Support	yes

DISPLAY

Monitor Output	1 x HDMI 2.0b, 1 x Display Port 1.4, 1 x Dual link DVI-D (up to 3 monitors simultaneously)
Maximum Resolution	3 x 4K UltraHD

AUDIO

Audio input	1 x Line in (3,5mm), 1 x Mic in(3,5mm)
Audio Output	1 x Line (3,5mm), 1 x HDMI, 1 x Display Port
Audio Input/Output in Cameras	Supports audio input/output build in cameras

PERFORMANCE - H.264

2MPX IP Camera	Recording up to: 100 main streams (while displaying: 8 sub streams) • Display up to: 42 sub streams or 13 main streams (while recording: 42 main streams) • Playback up to: 13 main streams (while recording: 42 main streams)
4MPX IP Camera	Recording up to: 65 main streams (while displaying: 8 sub streams) • Display up to: 40 sub streams or 7 main streams (while recording: 40 main streams) • Playback up to: 7 main streams (while recording: 40 main streams)
5MPX IP Camera	Recording up to: 60 main streams (while displaying: 8 sub streams) • Display up to: 35 sub streams or 5 main streams (while recording: 35 main streams) • Playback up to: 5 main streams (while recording: 35 main streams)
8MPX IP Camera	Recording up to: 36 main streams (while displaying: 8 sub streams) • Display up to: 32 sub streams or 3 main streams (while recording: 32 main streams) • Playback up to: 3 main streams (while recording: 32 main streams)
12MPX IP Camera	Recording up to: 32 main streams (while displaying: 8 sub streams) • Display up to: 26 sub streams or 3 main streams (while recording: 26 main streams) • Playback up to: 3 main streams (while recording: 26 main streams)

PERFORMANCE - H.265

2MPX IP Camera	Recording up to: 140 main streams (while displaying: 8 sub streams) • Display up to: 30 sub streams or 6 main streams (while recording: 30 main streams) • Playback up to: 6 main streams (while recording: 30 main streams)
----------------	--

NMS IP Recorder NMS NVR 3-4U-III

4MPX IP Camera	Recording up to: 90 main streams (while displaying: 8 sub streams) • Display up to: 30 sub streams or 3 main streams (while recording: 30 main streams) • Playback up to: 3 main streams (while recording: 30 main streams)
5MPX IP Camera	Recording up to: 70 main streams (while displaying: 8 sub streams) • Display up to: 30 sub streams or 3 main streams (while recording: 30 main streams) • Playback up to: 3 main streams (while recording: 30 main streams)
8MPX IP Camera	Recording up to: 60 main streams (while displaying: 8 sub streams) • Display up to: 28 sub streams or 2 main streams (while recording: 28 main streams) • Playback up to: 2 main streams (while recording: 28 main streams)
12MPX IP Camera	Recording up to: 48 main streams (while displaying: 8 sub streams) • Display up to: 20 sub streams or 2 main streams (while recording: 20 main streams) • Playback up to: 2 main streams (while recording: 20 main streams)

RECORDING

Recording Mode	Continuous, Schedule, Panic, Triggered: manually, by alarm input, motion detection, video analysis, POS, temperature alarm
Schedule	individual settings for: each camera, each day of the week, specific days (holidays etc.), configuration with an accuracy of: 15 min, possibility of combining individual recording modes
Prealarm/Postalarm	Up to: 30s / Up to: 600s

PLAYBACK

Recorded Data Search	By Date/Time, Events, "Text-in"
----------------------	---------------------------------

BACKUP

Backup Methods	USB port (HDD or Flash drive), Network
Backup File Format	JPEG, BMP, AVI, NMS

HDD

Internal storage for system	1 x SSD NVMe
Internal Storage for Recording	6 available bays for 3,5" HDD surveillance grade storage media

ALARMS

Alarm Input/output in cameras	support of alarm input and output built in cameras
Motion detection	support of motion detection built in cameras
Video Analytics	supported built in analytics in camera
Temperature alarm	support of temperature alarm built in cameras
Licence plate recognition (LPR)	support of selected image analysis functions available in the camera
System Reactions to Alarm Events	e-mail, Screen Message, Recording Activation, PTZ

NETWORK

Network Interface	1 x Ethernet - RJ45 interface, 10/100/1000/2500 Mbit/s
Network Throughput	up to 350Mbit/s from all cameras • up to 350Mbit/s to all client stations • Max network throughput: 350Mbit/s for each network card
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, DHCP, DNS, DDNS, NTP, RTSP, SAMBA
Compatible Mobile Applications	NMS Mobile

PTZ

PTZ Functions	pan, tilt, zoom, preset commands, patterns, tours, auto-scans, focus, iris
---------------	--

ADDITIONAL INTERFACES

USB Ports	4 x USB 2.0, 4 x USB 3.2, 1 x USB 3.2 Type-C
-----------	--

OPERATING SYSTEM

Operating System	Microsoft Windows 10 IoT
Recording and Surveillance System	NMS (Novus Management System)
Additional Software	Internet Explorer
Operation Mode	Pentaplex
OSD	Polish, English, Russian, others
Control	PC mouse and keyboard (in-set included), DCZ keyboard
System Diagnostic	automatic control of: HDDs, Temperature, Fan, Network, Camera connection loss
Security	Password protection, IP filtering, MAC filtering, Limiting the number of connections

INTEGRATION

Integrated Devices	Novus IP Cameras, Novus IP Recorders, Novus AHD Recorders, NMS-ANPR Software, DSC Systems, POS Systems (Posnet, Upos and other), ONVIF Devices, RTSP Devices
--------------------	--

INSTALLATION PARAMETERS

Dimensions	427mm (W) x 177mm(H) x 450mm (D)
Weight	20 kg (without HDDs for recording)
Power Supply	built in 700W, with 230VAC input
Power consumption/heatprint	250W/200W (without HDD for recording)
Operating Temperature	5°C ~ 35°C
RACK Mount 19"	4U

Attention:

To support more than 1 RTSP stream and 1 ONVIF stream you will need special licence key.

NVSO IP Recorder NVSO 3-4U-III



KEY FEATURES



- Video and audio channels: 140
- Recording speed up to 3500 fps at 1920 x 1080
- Supports resolution up to 4000 x 3000
- Recorded stream size: 350 Mb/s in total from all cameras
- Supports up to 3 monitors simultaneously
- optional disk mounting: 6 x SATA 3,5"
- Operating system: Microsoft Windows 10 Pro
- Recording and surveillance system: NMS (Novus Management System)
- Compatible with all NOVUS IP cameras

DIMENSIONS



VIDEO

IP Camera Recording	100 channels at 1920x1080 (video+audio) using H.264 codec • 140 channels at 1920x1080 (video+audio) using H.265 codec
Maximum Supported Camera Resolution	4000x3000
Supported Codes	H.264, H.264+, H.265, H.265+, MJPEG
Supported Cameras and Protocols	Novus, Novus fisheye, ONVIF, ONVIF fisheye, RTSP, RTSP fisheye
Dualstreaming Support	yes

DISPLAY

Monitor Output	1 x HDMI 2.0b, 1 x Display Port 1.4, 1 x Dual link DVI-D (up to 3 monitors simultaneously)
Maximum Resolution	3 x 4K UltraHD

AUDIO

Audio input	1 x Line in (3,5mm), 1 x Mic in(3,5mm)
Audio Output	1 x Line (3,5mm), 1 x HDMI, 1 x Display Port
Audio Input/Output in Cameras	Supports audio input/output build in cameras

PERFORMANCE - H.264

2MPX IP Camera	Recording up to: 100 main streams (while displaying: 8 sub streams) • Display up to: 42 sub streams or 13 main streams (while recording: 42 main streams) • Playback up to: 13 main streams (while recording: 42 main streams)
4MPX IP Camera	Recording up to: 65 main streams (while displaying: 8 sub streams) • Display up to: 40 sub streams or 7 main streams (while recording: 40 main streams) • Playback up to: 7 main streams (while recording: 40 main streams)
5MPX IP Camera	Recording up to: 60 main streams (while displaying: 8 sub streams) • Display up to: 35 sub streams or 5 main streams (while recording: 35 main streams) • Playback up to: 5 main streams (while recording: 35 main streams)
8MPX IP Camera	Recording up to: 36 main streams (while displaying: 8 sub streams) • Display up to: 32 sub streams or 3 main streams (while recording: 32 main streams) • Playback up to: 3 main streams (while recording: 32 main streams)
12MPX IP Camera	Recording up to: 32 main streams (while displaying: 8 sub streams) • Display up to: 26 sub streams or 3 main streams (while recording: 26 main streams) • Playback up to: 3 main streams (while recording: 26 main streams)

PERFORMANCE - H.265

2MPX IP Camera	Recording up to: 140 main streams (while displaying: 8 sub streams) • Display up to: 30 sub streams or 6 main streams (while recording: 30 main streams) • Playback up to: 6 main streams (while recording: 30 main streams)
----------------	--

NVSO IP Recorder

NVSO 3-4U-III

4MPX IP Camera	Recording up to: 90 main streams (while displaying: 8 sub streams) • Display up to: 30 sub streams or 3 main streams (while recording: 30 main streams) • Playback up to: 3 main streams (while recording: 30 main streams)
5MPX IP Camera	Recording up to: 70 main streams (while displaying: 8 sub streams) • Display up to: 30 sub streams or 3 main streams (while recording: 30 main streams) • Playback up to: 3 main streams (while recording: 30 main streams)
8MPX IP Camera	Recording up to: 60 main streams (while displaying: 8 sub streams) • Display up to: 28 sub streams or 2 main streams (while recording: 28 main streams) • Playback up to: 2 main streams (while recording: 28 main streams)
12MPX IP Camera	Recording up to: 48 main streams (while displaying: 8 sub streams) • Display up to: 20 sub streams or 2 main streams (while recording: 20 main streams) • Playback up to: 2 main streams (while recording: 20 main streams)

RECORDING

Recording Mode	Continuous, Schedule, Panic, Triggered: manually, by alarm input, motion detection, video analysis, POS, temperature alarm
Schedule	individual settings for: each camera, each day of the week, specific days (holidays etc.), configuration with an accuracy of: 15 min, possibility of combining individual recording modes
Prealarm/Postalarm	Up to: 30s / Up to: 600s

PLAYBACK

Recorded Data Search	By Date/Time, Events, "Text-in"
----------------------	---------------------------------

BACKUP

Backup Methods	USB port (HDD or Flash drive), Network
Backup File Format	JPEG, BMP, AVI, NMS

HDD

Internal storage for system	1 x SSD NVMe
Internal Storage for Recording	6 available bays for 3,5" HDD surveillance grade storage media

ALARMS

Alarm Input/output in cameras	support of alarm input and output built in cameras
Motion detection	support of motion detection built in cameras
Video Analytics	supported built in analytics in camera
Temperature alarm	support of temperature alarm built in cameras
Licence plate recognition (LPR)	support of selected image analysis functions available in the camera
System Reactions to Alarm Events	e-mail, Screen Message, Recording Activation, PTZ

NETWORK

Network Interface	1 x Ethernet - RJ45 interface, 10/100/1000/2500 Mbit/s
Network Throughput	up to 350Mbit/s from all cameras • up to 350Mbit/s to all client stations • Max network throughput: 350Mbit/s for each network card
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, SAMBA
Compatible Mobile Applications	NMS Mobile

PTZ

PTZ Functions	pan, tilt, zoom, preset commands, patterns, tours, auto-scans, focus, iris
---------------	--

ADDITIONAL INTERFACES

USB Ports	4 x USB 2.0, 4 x USB 3.2, 1 x USB 3.2 Type-C
-----------	--

OPERATING SYSTEM

Operating System	Microsoft Windows 10 Pro
Recording and Surveillance System	NMS (Novus Management System)
Additional Software	Internet Explorer
Operation Mode	Pentaplex
OSD	Polish, English, Russian, others
Control	PC mouse and keyboard (in-set included), DCZ keyboard
System Diagnostic	automatic control of: HDDs, Temperature, Fan, Network, Camera connection loss
Security	Password protection, IP filtering, MAC filtering, Limiting the number of connections

INTEGRATION

Integrated Devices	Novus IP Cameras, Novus IP Recorders, Novus AHD Recorders, NMS-ANPR Software, DSC Systems, POS Systems (Posnet, Upos and other), ONVIF Devices, RTSP Devices
--------------------	--

INSTALLATION PARAMETERS

Dimensions	427mm (W) x 177mm(H) x 450mm (D)
Weight	20 kg (without HDDs for recording)
Power Supply	built in 700W, with 230VAC input
Power consumption/heatprint	250W/200W (without HDD for recording)
Operating Temperature	5°C ~ 35°C
RACK Mount 19"	4U

Attention:

To support more than 1 RTSP stream and 1 ONVIF stream you will need special licence key.

NMS IP Recorder NMS NVR 5-4U-III



KEY FEATURES



- Video and audio channels: 150
- Recording speed up to 3750 fps at 1920 x 1080
- Supports resolution up to 4000 x 3000
- Recorded stream size: 350 Mb/s in total from all cameras
- Supports up to 3 monitors simultaneously
- optional disk mounting: 6 x SATA 3,5"
- Operating system: Microsoft Windows 10 IoT
- Recording and surveillance system: NMS (Novus Management System)
- Compatible with all NOVUS IP cameras

DIMENSIONS



VIDEO

IP Camera Recording	120 channels at 1920x1080 (video+audio) using H.264 codec • 150 channels at 1920x1080 (video+audio) using H.265 codec
Maximum Supported Camera Resolution	4000x3000
Supported Codes	H.264, H.264+, H.265, H.265+, MJPEG
Supported Cameras and Protocols	Novus, Novus fisheye, ONVIF, ONVIF fisheye, RTSP, RTSP fisheye
Dualstreaming Support	yes

DISPLAY

Monitor Output	1 x HDMI 2.0b, 1 x Display Port 1.4, 1 x Dual link DVI-D (up to 3 monitors simultaneously)
Maximum Resolution	3 x 4K UltraHD

AUDIO

Audio input	1 x Line in (3,5mm), 1 x Mic in(3,5mm)
Audio Output	1 x Line (3,5mm), 1 x HDMI, 1 x Display Port
Audio Input/Output in Cameras	Supports audio input/output build in cameras

PERFORMANCE - H.264

2MPX IP Camera	Recording up to: 120 main streams (while displaying: 8 sub streams) • Display up to: 50 sub streams or 12 main streams (while recording: 50 main streams) • Playback up to: 12 main streams (while recording: 50 main streams)
4MPX IP Camera	Recording up to: 70 main streams (while displaying: 8 sub streams) • Display up to: 45 sub streams or 9 main streams (while recording: 45 main streams) • Playback up to: 8 main streams (while recording: 45 main streams)
5MPX IP Camera	Recording up to: 60 main streams (while displaying: 8 sub streams) • Display up to: 45 sub streams or 6 main streams (while recording: 45 main streams) • Playback up to: 6 main streams (while recording: 45 main streams)
8MPX IP Camera	Recording up to: 40 main streams (while displaying: 8 sub streams) • Display up to: 40 sub streams or 4 main streams (while recording: 4 main streams) • Playback up to: 4 main streams (while recording: 40 main streams)
12MPX IP Camera	Recording up to: 35 main streams (while displaying: 8 sub streams) • Display up to: 35 sub streams or 4 main streams (while recording: 35 main streams) • Playback up to: 4 main streams (while recording: 35 main streams)

PERFORMANCE - H.265

2MPX IP Camera	Recording up to: 150 main streams (while displaying: 8 sub streams) • Display up to: 30 sub streams or 8 main streams (while recording: 30 main streams) • Playback up to: 8 main streams (while recording: 30 main streams)
----------------	---

NMS IP Recorder NMS NVR 5-4U-III

4MPX IP Camera	Recording up to: 100 main streams (while displaying: 8 sub streams) • Display up to: 30 sub streams or 4 main streams (while recording: 30 main streams) • Playback up to: 4 main streams (while recording: 30 main streams)
5MPX IP Camera	Recording up to: 80 main streams (while displaying: 8 sub streams) • Display up to: 35 sub streams or 4 main streams (while recording: 35 main streams) • Playback up to: 4 main streams (while recording: 34 main streams)
8MPX IP Camera	Recording up to: 75 main streams (while displaying: 8 sub streams) • Display up to: 35 sub streams or 2 main streams (while recording: 35 main streams) • Playback up to: 2 main streams (while recording: 35 main streams)
12MPX IP Camera	Recording up to: 56 main streams (while displaying: 8 sub streams) • Display up to: 20 sub streams or 2 main streams (while recording: 20 main streams) • Playback up to: 2 main streams (while recording: 20 main streams)

RECORDING

Recording Mode	Continuous, Schedule, Panic, Triggered: manually, by alarm input, motion detection, video analysis, POS, temperature alarm
Schedule	individual settings for: each camera, each day of the week, specific days (holidays etc.), configuration with an accuracy of: 15 min, possibility of combining individual recording modes
Prealarm/Postalarm	Up to: 30s / Up to: 600s

PLAYBACK

Recorded Data Search	By Date/Time, Events, "Text-in"
----------------------	---------------------------------

BACKUP

Backup Methods	USB port (HDD or Flash drive), Network
Backup File Format	JPEG, BMP, AVI, NMS

HDD

Internal storage for system	1 x SSD NVMe
Internal Storage for Recording	6 available bays for 3,5" HDD surveillance grade storage media

ALARMS

Alarm Input/output in cameras	support of alarm input and output built in cameras
Motion detection	support of motion detection built in cameras
Video Analytics	supported built in analytics in camera
Temperature alarm	support of temperature alarm built in cameras
Licence plate recognition (LPR)	support of selected image analysis functions available in the camera

NETWORK

Network Interface	1 x Ethernet - RJ45 interface, 10/100/1000/2500 Mbit/s
Network Throughput	up to 350Mbit/s from all cameras • up to 350Mbit/s to all client stations • Max network throughput: 350Mbit/s for each network card
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, DHCP, DNS, DDNS, NTP, RTSP, SAMBA
Compatible Mobile Applications	NMS Mobile

PTZ

PTZ Functions	pan, tilt, zoom, preset commands, patterns, tours, auto-scans, focus, iris
---------------	--

ADDITIONAL INTERFACES

USB Ports	4 x USB 2.0, 4 x USB 3.2, 1 x USB 3.2 Type-C
-----------	--

OPERATING SYSTEM

Operating System	Microsoft Windows 10 IoT
Recording and Surveillance System	NMS (Novus Management System)
Additional Software	Internet Explorer
Operation Mode	Pentaplex
OSD	Polish, English, Russian, others
Control	PC mouse and keyboard (in-set included), DCZ keyboard
System Diagnostic	automatic control of: HDDs, Temperature, Fan, Network, Camera connection loss
Security	Password protection, IP filtering, MAC filtering, Limiting the number of connections

INTEGRATION

Integrated Devices	Novus IP Cameras, Novus IP Recorders, Novus AHD Recorders, NMS-ANPR Software, DSC Systems, POS Systems (Posnet, Upos and other), ONVIF Devices, RTSP Devices
--------------------	--

INSTALLATION PARAMETERS

Dimensions	427mm (W) x 177mm(H) x 450mm (D)
Weight	20 kg (without HDDs for recording)
Power Supply	built in 700W, with 230VAC input
Power consumption/heatprint	260W/210W (without HDD for recording)
Operating Temperature	5°C ~ 35°C
RACK Mount 19"	4U

Attention:

To support more than 1 RTSP stream and 1 ONVIF stream you will need special licence key.

NVSO IP Recorder NVSO 5-4U-III



KEY FEATURES



- Video and audio channels: 150
- Recording speed up to 3750 fps at 1920 x 1080
- Supports resolution up to 4000 x 3000
- Recorded stream size: 350 Mb/s in total from all cameras
- Supports up to 3 monitors simultaneously
- optional disk mounting: 6 x SATA 3,5"
- Operating system: Microsoft Windows 10 Pro
- Recording and surveillance system: NMS (Novus Management System)
- Compatible with all NOVUS IP cameras

DIMENSIONS



VIDEO

IP Camera Recording	120 channels at 1920x1080 (video+audio) using H.264 codec • 150 channels at 1920x1080 (video+audio) using H.265 codec
Maximum Supported Camera Resolution	4000x3000
Supported Codes	H.264, H.264+, H.265, H.265+, MJPEG
Supported Cameras and Protocols	Novus, Novus fisheye, ONVIF, ONVIF fisheye, RTSP, RTSP fisheye
Dualstreaming Support	yes

DISPLAY

Monitor Output	1 x HDMI 2.0b, 1 x Display Port 1.4, 1 x Dual link DVI-D (up to 3 monitors simultaneously)
Maximum Resolution	3 x 4K UltraHD

AUDIO

Audio input	1 x Line in (3,5mm), 1 x Mic in(3,5mm)
Audio Output	1 x Line (3,5mm), 1 x HDMI, 1 x Display Port
Audio Input/Output in Cameras	Supports audio input/output build in cameras

PERFORMANCE - H.264

2MPX IP Camera	Recording up to: 120 main streams (while displaying: 8 sub streams) • Display up to: 50 sub streams or 12 main streams (while recording: 50 main streams) • Playback up to: 12 main streams (while recording: 50 main streams)
4MPX IP Camera	Recording up to: 70 main streams (while displaying: 8 sub streams) • Display up to: 45 sub streams or 8 main streams (while recording: 45 main streams) • Playback up to: 8 main streams (while recording: 45 main streams)
5MPX IP Camera	Recording up to: 60 main streams (while displaying: 8 sub streams) • Display up to: 45 sub streams or 6 main streams (while recording: 45 main streams) • Playback up to: 6 main streams (while recording: 45 main streams)
8MPX IP Camera	Recording up to: 40 main streams (while displaying: 8 sub streams) • Display up to: 40 sub streams or 4 main streams (while recording: 40 main streams) • Playback up to: 4 main streams (while recording: 40 main streams)
12MPX IP Camera	Recording up to: 35 main streams (while displaying: 8 sub streams) • Display up to: 35 sub streams or 4 main streams (while recording: 35 main streams) • Playback up to: 4 main streams (while recording: 35 main streams)

PERFORMANCE - H.265

2MPX IP Camera	Recording up to: 150 main streams (while displaying: 8 sub streams) • Display up to: 30 sub streams or 8 main streams (while recording: 30 main streams) • Playback up to: 8 main streams (while recording: 30 main streams)
----------------	---

NVSO IP Recorder

NVSO 5-4U-III

4MPX IP Camera	Recording up to: 100 main streams (while displaying: 8 sub streams) • Display up to: 30 sub streams or 4 main streams (while recording: 30 main streams) • Playback up to: 4 main streams (while recording: 30 main streams)
5MPX IP Camera	Recording up to: 80 main streams (while displaying: 8 sub streams) • Display up to: 35 sub streams or 4 main streams (while recording: 35 main streams) • Playback up to: 4 main streams (while recording: 35 main streams)
8MPX IP Camera	Recording up to: 75 main streams (while displaying: 8 sub streams) • Display up to: 35 sub streams or 2 main streams (while recording: 35 main streams) • Playback up to: 2 main streams (while recording: 35 main streams)
12MPX IP Camera	Recording up to: 56 main streams (while displaying: 8 sub streams) • Display up to: 20 sub streams or 2 main streams (while recording: 20 main streams) • Playback up to: 2 main streams (while recording: 20 main streams)

RECORDING

Recording Mode	Continuous, Schedule, Panic, Triggered: manually, by alarm input, motion detection, video analysis, POS, temperature alarm
Schedule	individual settings for: each camera, each day of the week, specific days (holidays etc.), configuration with an accuracy of: 15 min, possibility of combining individual recording modes
Prealarm/Postalarm	Up to: 30s / Up to: 600s

PLAYBACK

Recorded Data Search	By Date/Time, Events, "Text-in"
----------------------	---------------------------------

BACKUP

Backup Methods	USB port (HDD or Flash drive), Network
Backup File Format	JPEG, BMP, AVI, NMS

HDD

Internal storage for system	1 x SSD NVMe
Internal Storage for Recording	6 available bays for 3,5" HDD surveillance grade storage media

ALARMS

Alarm Input/output in cameras	support of alarm input and output built in cameras
Motion detection	support of motion detection built in cameras
Video Analytics	supported built in analytics in camera
Temperature alarm	support of temperature alarm built in cameras
Licence plate recognition (LPR)	support of selected image analysis functions available in the camera
System Reactions to Alarm Events	e-mail, Screen Message, Recording Activation, PTZ

NETWORK

Network Interface	1 x Ethernet - RJ45 interface, 10/100/1000/2500 Mbit/s
Network Throughput	up to 350Mbit/s from all cameras • up to 350Mbit/s to all client stations • Max network throughput: 350Mbit/s for each network card
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, SAMBA
Compatible Mobile Applications	NMS Mobile

PTZ

PTZ Functions	pan, tilt, zoom, preset commands, patterns, tours, auto-scans, focus, iris
---------------	--

ADDITIONAL INTERFACES

USB Ports	4 x USB 2.0, 4 x USB 3.2, 1 x USB 3.2 Type-C
-----------	--

OPERATING SYSTEM

Operating System	Microsoft Windows 10 Pro
Recording and Surveillance System	NMS (Novus Management System)
Additional Software	Internet Explorer
Operation Mode	Pentaplex
OSD	Polish, English, Russian, others
Control	PC mouse and keyboard (in-set included), DCZ keyboard
System Diagnostic	automatic control of: HDDs, Temperature, Fan, Network, Camera connection loss
Security	Password protection, IP filtering, MAC filtering, Limiting the number of connections

INTEGRATION

Integrated Devices	Novus IP Cameras, Novus IP Recorders, Novus AHD Recorders, NMS-ANPR Software, DSC Systems, POS Systems (Posnet, Upos and other), ONVIF Devices, RTSP Devices
--------------------	--

INSTALLATION PARAMETERS

Dimensions	427mm (W) x 177mm(H) x 450mm (D)
Weight	20 kg (without HDDs for recording)
Power Supply	built in 700W, with 230VAC input
Power consumption/heatprint	260W/210W (without HDD for recording)
Operating Temperature	5°C ~ 35°C
RACK Mount 19"	4U

Attention:

To support more than 1 RTSP stream and 1 ONVIF stream you will need special licence key.

NMS IP Recorder

NMS NVR 5-T-III



KEY FEATURES



- Video and audio channels: 150
- Recording speed up to 3750 fps at 1920 x 1080
- Supports resolution up to 4000 x 3000
- Recorded stream size: 350 Mb/s in total from all cameras
- Supports up to 3 monitors simultaneously
- optional disk mounting: 6 x SATA 3,5"
- Operating system: Microsoft Windows 10 IoT
- Recording and surveillance system: NMS (Novus Management System)
- Compatible with all NOVUS IP cameras
- Anti-vibration bracket in-set included

DIMENSIONS



VIDEO

IP Camera Recording	120 channels at 1920x1080 (video+audio) using H.264 codec • 150 channels at 1920x1080 (video+audio) using H.265 codec
Maximum Supported Camera Resolution	4000x3000
Supported Codes	H.264, H.264+, H.265, H.265+, MJPEG
Supported Cameras and Protocols	Novus, Novus fisheye, ONVIF, ONVIF fisheye, RTSP, RTSP fisheye
Dualstreaming Support	yes

DISPLAY

Monitor Output	1 x HDMI 2.0b, 1 x Display Port 1.4, 1 x Dual link DVI-D (up to 3 monitors simultaneously)
Maximum Resolution	3 x 4K UltraHD

AUDIO

Audio input	1 x Line in (3,5mm), 1 x Mic in(3,5mm)
Audio Output	1 x Line (3,5mm), 1 x HDMI, 1 x Display Port
Audio Input/Output in Cameras	Supports audio input/output build in cameras

PERFORMANCE - H.264

2MPX IP Camera	Recording up to: 120 main streams (while displaying: 8 sub streams) • Display up to: 50 sub streams or 12 main streams (while recording: 50 main streams) • Playback up to: 12 main streams (while recording: 50 main streams)
4MPX IP Camera	Recording up to: 70 main streams (while displaying: 8 sub streams) • Display up to: 45 sub streams or 8 main streams (while recording: 45 main streams) • Playback up to: 8 main streams (while recording: 45 main streams)
5MPX IP Camera	Recording up to: 60 main streams (while displaying: 8 sub streams) • Display up to: 45 sub streams or 6 main streams (while recording: 45 main streams) • Playback up to: 6 main streams (while recording: 45 main streams)
8MPX IP Camera	Recording up to: 40 main streams (while displaying: 8 sub streams) • Display up to: 40 sub streams or 4 main streams (while recording: 40 main streams) • Playback up to: 4 main streams (while recording: 40 main streams)
12MPX IP Camera	Recording up to: 35 main streams (while displaying: 8 sub streams) • Display up to: 35 sub streams or 4 main streams (while recording: 35 main streams) • Playback up to: 4 main streams (while recording: 35 main streams)

PERFORMANCE - H.265

2MPX IP Camera	Recording up to: 150 main streams (while displaying: 8 sub streams) • Display up to: 30 sub streams or 8 main streams (while recording: 30 main streams) • Playback up to: 8 main streams (while recording: 30 main streams)
----------------	---

NMS IP Recorder NMS NVR 5-T-III

4MPX IP Camera	Recording up to: 100 main streams (while displaying: 8 sub streams) • Display up to: 30 sub streams or 4 main streams (while recording: 30 main streams) • Playback up to: 4 main streams (while recording: 30 main streams)
5MPX IP Camera	Recording up to: 80 main streams (while displaying: 8 sub streams) • Display up to: 35 sub streams or 4 main streams (while recording: 35 main streams) • Playback up to: 4 main streams (while recording: 35 main streams)
8MPX IP Camera	Recording up to: 75 main streams (while displaying: 8 sub streams) • Display up to: 35 sub streams or 2 main streams (while recording: 35 main streams) • Playback up to: 2 main streams (while recording: 35 main streams)
12MPX IP Camera	Recording up to: 56 main streams (while displaying: 8 sub streams) • Display up to: 20 sub streams or 2 main streams (while recording: 20 main streams) • Playback up to: 2 main streams (while recording: 20 main streams)

RECORDING

Recording Mode	Continuous, Schedule, Panic, Triggered: manually, by alarm input, motion detection, video analysis, POS, temperature alarm
Schedule	individual settings for: each camera, each day of the week, specific days (holidays etc.), configuration with an accuracy of: 15 min, possibility of combining individual recording modes
Prealarm/Postalarm	Up to: 30s / Up to: 600s

PLAYBACK

Recorded Data Search	By Date/Time, Events, "Text-in"
----------------------	---------------------------------

BACKUP

Backup Methods	USB port (HDD or Flash drive), Network
Backup File Format	JPEG, BMP, AVI, NMS

HDD

Internal storage for system	1 x SSD NVMe
Internal Storage for Recording	6 available bays for 3,5" HDD surveillance grade storage media

ALARMS

Alarm Input/output in cameras	support of alarm input and output built in cameras
Motion detection	support of motion detection built in cameras
Video Analytics	supported built in analytics in camera
Temperature alarm	support of temperature alarm built in cameras
Licence plate recognition (LPR)	support of selected image analysis functions available in the camera
System Reactions to Alarm Events	e-mail, Screen Message, Recording Activation, PTZ

NETWORK

Network Interface	1 x Ethernet - RJ45 interface, 10/100/1000/2500 Mbit/s
Network Throughput	up to 350Mbit/s from all cameras • up to 350Mbit/s to all client stations • Max network throughput: 350Mbit/s for each network card
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, SAMBA
Compatible Mobile Applications	NMS Mobile

PTZ

PTZ Functions	pan, tilt, zoom, preset commands, patterns, tours, auto-scans, focus, iris
---------------	--

ADDITIONAL INTERFACES

USB Ports	4 x USB 2.0, 4 x USB 3.2, 1 x USB 3.2 Type-C
-----------	--

OPERATING SYSTEM

Operating System	Microsoft Windows 10 IoT
Recording and Surveillance System	NMS (Novus Management System)
Additional Software	Internet Explorer
Operation Mode	Pentaplex
OSD	Polish, English, Russian, others
Control	PC mouse and keyboard (in-set included), DCZ keyboard
System Diagnostic	automatic control of: HDDs, Temperature, Fan, Network, Camera connection loss
Security	Password protection, IP filtering, MAC filtering, Limiting the number of connections

INTEGRATION

Integrated Devices	Novus IP Cameras, Novus IP Recorders, Novus AHD Recorders, NMS-ANPR Software, DSC Systems, POS Systems (Posnet, Upos and other), ONVIF Devices, RTSP Devices
--------------------	--

INSTALLATION PARAMETERS

Dimensions	160mm (W) x 428mm(H) x 410mm (D)
Weight	10 kg (without HDDs for recording)
Power Supply	built in 700W, with 230VAC input
Power consumption/heatprint	260W/210W (without HDD for recording)
Operating Temperature	5°C ~ 35°C

Attention:

To support more than 1 RTSP stream and 1 ONVIF stream you will need special licence key.

NVSO IP Recorder NVSO 5-T-III

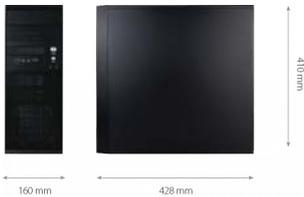


KEY FEATURES



- Video and audio channels: 150
- Recording speed up to 3750 fps at 1920 x 1080
- Supports resolution up to 4000 x 3000
- Recorded stream size: 350 Mb/s in total from all cameras
- Supports up to 3 monitors simultaneously
- optional disk mounting: 6 x SATA 3,5"
- Operating system: Microsoft Windows 10 Pro
- Recording and surveillance system: NMS (Novus Management System)
- Compatible with all NOVUS IP cameras

DIMENSIONS



VIDEO

IP Camera Recording	120 channels at 1920x1080 (video+audio) using H.264 codec • 150 channels at 1920x1080 (video+audio) using H.265 codec
Maximum Supported Camera Resolution	4000x3000
Supported Codes	H.264, H.264+, H.265, H.265+, MJPEG
Supported Cameras and Protocols	Novus, Novus fisheye, ONVIF, ONVIF fisheye, RTSP, RTSP fisheye
Dualstreaming Support	yes

DISPLAY

Monitor Output	1 x HDMI 2.0b, 1 x Display Port 1.4, 1 x Dual link DVI-D (up to 3 monitors simultaneously)
Maximum Resolution	3 x 4K UltraHD

AUDIO

Audio input	1 x Line in (3,5mm), 1 x Mic in(3,5mm)
Audio Output	1 x Line (3,5mm), 1 x HDMI, 1 x Display Port
Audio Input/Output in Cameras	Supports audio input/output build in cameras

PERFORMANCE - H.264

2MPX IP Camera	Recording up to: 120 main streams (while displaying: 8 sub streams) • Display up to: 50 sub streams or 12 main streams (while recording: 50 main streams) • Playback up to: 12 main streams (while recording: 50 main streams)
4MPX IP Camera	Recording up to: 70 main streams (while displaying: 8 sub streams) • Display up to: 45 sub streams or 8 main streams (while recording: 45 main streams) • Playback up to: 8 main streams (while recording: 45 main streams)
5MPX IP Camera	Recording up to: 60 main streams (while displaying: 8 sub streams) • Display up to: 45 sub streams or 6 main streams (while recording: 45 main streams) • Playback up to: 6 main streams (while recording: 45 main streams)
8MPX IP Camera	Recording up to: 40 main streams (while displaying: 8 sub streams) • Display up to: 40 sub streams or 4 main streams (while recording: 40 main streams) • Playback up to: 4 main streams (while recording: 40 main streams)
12MPX IP Camera	Recording up to: 35 main streams (while displaying: 8 sub streams) • Display up to: 35 sub streams or 4 main streams (while recording: 35 main streams) • Playback up to: 4 main streams (while recording: 35 main streams)

PERFORMANCE - H.265

2MPX IP Camera	Recording up to: 150 main streams (while displaying: 8 sub streams) • Display up to: 30 sub streams or 8 main streams (while recording: 30 main streams) • Playback up to: 8 main streams (while recording: 30 main streams)
----------------	---

4MPX IP Camera	Recording up to: 100 main streams (while displaying: 8 sub streams) • Display up to: 30 sub streams or 4 main streams (while recording: 30 main streams) • Playback up to: 4 main streams (while recording: 30 main streams)
5MPX IP Camera	Recording up to: 80 main streams (while displaying: 8 sub streams) • Display up to: 35 sub streams or 4 main streams (while recording: 35 main streams) • Playback up to: 4 main streams (while recording: 35 main streams)
8MPX IP Camera	Recording up to: 75 main streams (while displaying: 8 sub streams) • Display up to: 35 sub streams or 2 main streams (while recording: 35 main streams) • Playback up to: 2 main streams (while recording: 35 main streams)
12MPX IP Camera	Recording up to: 56 main streams (while displaying: 8 sub streams) • Display up to: 20 sub streams or 2 main streams (while recording: 20 main streams) • Playback up to: 2 main streams (while recording: 20 main streams)

RECORDING

Recording Mode	Continuous, Schedule, Panic, Triggered: manually, by alarm input, motion detection, video analysis, POS, temperature alarm
Schedule	individual settings for: each camera, each day of the week, specific days (holidays etc.), configuration with an accuracy of: 15 min, possibility of combining individual recording modes
Prealarm/Postalarm	Up to: 30s / Up to: 600s

PLAYBACK

Recorded Data Search	By Date/Time, Events, "Text-in"
----------------------	---------------------------------

BACKUP

Backup Methods	USB port (HDD or Flash drive), Network
Backup File Format	JPEG, BMP, AVI, NMS

HDD

Internal storage for system	1 x SSD NVMe
Internal Storage for Recording	6 available bays for 3,5" HDD surveillance grade storage media

ALARMS

Alarm Input/output in cameras	support of alarm input and output built in cameras
Motion detection	support of motion detection built in cameras
Video Analytics	supported built in analytics in camera
Temperature alarm	support of temperature alarm built in cameras
Licence plate recognition (LPR)	support of selected image analysis functions available in the camera
System Reactions to Alarm Events	e-mail, Screen Message, Recording Activation, PTZ

NETWORK

Network Interface	1 x Ethernet - RJ45 interface, 10/100/1000/2500 Mbit/s
Network Throughput	up to 350Mbit/s from all cameras • up to 350Mbit/s to all client stations • Max network throughput: 350Mbit/s for each network card
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DNS, DDNS, NTP, RTSP, SAMBA
Compatible Mobile Applications	NMS Mobile

PTZ

PTZ Functions	pan, tilt, zoom, preset commands, patterns, tours, auto-scans, focus, iris
---------------	--

ADDITIONAL INTERFACES

USB Ports	4 x USB 2.0, 4 x USB 3.2, 1 x USB 3.2 Type-C
-----------	--

OPERATING SYSTEM

Operating System	Microsoft Windows 10 Pro
Recording and Surveillance System	NMS (Novus Management System)
Additional Software	Internet Explorer
Operation Mode	Pentaplex
OSD	Polish, English, Russian, others
Control	PC mouse and keyboard (in-set included), DCZ keyboard
System Diagnostic	automatic control of: HDDs, Temperature, Fan, Network, Camera connection loss
Security	Password protection, IP filtering, MAC filtering, Limiting the number of connections

INTEGRATION

Integrated Devices	Novus IP Cameras, Novus IP Recorders, Novus AHD Recorders, NMS-ANPR Software, DSC Systems, POS Systems (Posnet, Upos and other), ONVIF Devices, RTSP Devices
--------------------	--

INSTALLATION PARAMETERS

Dimensions	160mm (W) x 428mm(H) x 410mm (D)
Weight	10 kg (without HDDs for recording)
Power Supply	built in 700W, with 230VAC input
Power consumption/heatprint	260W/210W (without HDD for recording)
Operating Temperature	5°C ~ 35°C

Attention:

To support more than 1 RTSP stream and 1 ONVIF stream you will need special licence key.

NMS IP Recorder

NMS NVR 7-T-III



KEY FEATURES



- Video and audio channels: 150
- Recording speed up to 3750 fps at 1920 x 1080
- Supports resolution up to 4000 x 3000
- Recorded stream size: 350 Mb/s in total from all cameras
- Supports up to 3 monitors simultaneously
- optional disk mounting: 6 x SATA 3,5"
- Operating system: Microsoft Windows 10 IoT
- Recording and surveillance system: NMS (Novus Management System)
- Compatible with all NOVUS IP cameras

DIMENSIONS



VIDEO

IP Camera Recording	120 channels at 1920x1080 (video+audio) using H.264 codec • 150 channels at 1920x1080 (video+audio) using H.265 codec
Maximum Supported Camera Resolution	4000x3000
Supported Codes	H.264, H.264+, H.265, H.265+, MJPEG
Supported Cameras and Protocols	Novus, Novus fisheye, ONVIF, ONVIF fisheye, RTSP, RTSP fisheye
Dualstreaming Support	yes

DISPLAY

Monitor Output	1 x HDMI 2.0b, 1 x Display Port 1.4, 1 x Dual link DVI-D (up to 3 monitors simultaneously)
Maximum Resolution	3 x 4K UltraHD

AUDIO

Audio input	1 x Line in (3,5mm), 1 x Mic in(3,5mm)
Audio Output	1 x Line (3,5mm), 1 x HDMI, 1 x Display Port
Audio Input/Output in Cameras	Supports audio input/output build in cameras

PERFORMANCE - H.264

2MPX IP Camera	Recording up to: 120 main streams (while displaying: 8 sub streams) • Display up to: 70 sub streams or 20 main streams (while recording: 70 main streams) • Playback up to: 20 main streams (while recording: 70 main streams)
4MPX IP Camera	Recording up to: 70 main streams (while displaying: 8 sub streams) • Display up to: 70 sub streams or 13 main streams (while recording: 70 main streams) • Playback up to: 13 main streams (while recording: 70 main streams)
5MPX IP Camera	Recording up to: 60 main streams (while displaying: 8 sub streams) • Display up to: 60 sub streams or 8 main streams (while recording: 60 main streams) • Playback up to: 8 main streams (while recording: 30 main streams)
8MPX IP Camera	Recording up to: 40 main streams (while displaying: 8 sub streams) • Display up to: 40 sub streams or 5 main streams (while recording: 40 main streams) • Playback up to: 5 main streams (while recording: 40 main streams)
12MPX IP Camera	Recording up to: 35 main streams (while displaying: 8 sub streams) • Display up to: 35 sub streams or 8 main streams (while recording: 35 main streams) • Playback up to: 8 main streams (while recording: 35 main streams)

PERFORMANCE - H.265

2MPX IP Camera	Recording up to: 150 main streams (while displaying: 8 sub streams) • Display up to: 55 sub streams or 15 main streams (while recording: 55 main streams) • Playback up to: 15 main streams (while recording: 55 main streams)
----------------	---

NMS IP Recorder NMS NVR 7-T-III

4MPX IP Camera	Recording up to: 100 main streams (while displaying: 8 sub streams) • Display up to: 50 sub streams or 8 main streams (while recording: 50 main streams) • Playback up to: 8 main streams (while recording: 50 main streams)
5MPX IP Camera	Recording up to: 80 main streams (while displaying: 8 sub streams) • Display up to: 60 sub streams or 5 main streams (while recording: 60 main streams) • Playback up to: 5 main streams (while recording: 60 main streams)
8MPX IP Camera	Recording up to: 70 main streams (while displaying: 8 sub streams) • Display up to: 65 sub streams or 4 main streams (while recording: 65 main streams) • Playback up to: 4 main streams (while recording: 65 main streams)
12MPX IP Camera	Recording up to: 56 main streams (while displaying: 8 sub streams) • Display up to: 32 sub streams or 4 main streams (while recording: 32 main streams) • Playback up to: 4 main streams (while recording: 32 main streams)

RECORDING

Recording Mode	Continuous, Schedule, Panic, Triggered: manually, by alarm input, motion detection, video analysis, POS, temperature alarm
Schedule	individual settings for: each camera, each day of the week, specific days (holidays etc.), configuration with an accuracy of: 15 min, possibility of combining individual recording modes
Prealarm/Postalarm	Up to: 30s / Up to: 600s

PLAYBACK

Recorded Data Search	By Date/Time, Events, "Text-in"
----------------------	---------------------------------

BACKUP

Backup Methods	USB port (HDD or Flash drive)
Backup File Format	JPEG, BMP, AVI, NMS

HDD

Internal storage for system	1 x SSD NVMe
Internal Storage for Recording	6 available bays for 3,5" HDD surveillance grade storage media

ALARMS

Alarm Input/output in cameras	support of alarm input and output built in cameras
Motion detection	support of motion detection built in cameras
Video Analytics	supported built in analytics in camera
Temperature alarm	support of temperature alarm built in cameras
Licence plate recognition (LPR)	support of selected image analysis functions available in the camera
System Reactions to Alarm Events	e-mail, Screen Message, Recording Activation, PTZ

NETWORK

Network Interface	1 x Ethernet - RJ45 interface, 10/100/1000 Mbit/s • 1 x Ethernet - złącze RJ45, 10/100/1000/2500 Mbit/s
Network Throughput	up to 350Mbit/s from all cameras • up to 350Mbit/s to all client stations • Max network throughput: 350Mbit/s for each network card
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, SAMBA
Compatible Mobile Applications	NMS Mobile

PTZ

NMS IP Recorder NMS NVR 7-T-III

PTZ Functions pan, tilt, zoom, preset commands, patterns, tours, auto-scans, focus, iris

ADDITIONAL INTERFACES

USB Ports 4 x USB 2.0, 4 x USB 3.2, 1 x USB 3.2 Type-C

OPERATING SYSTEM

Operating System	Microsoft Windows 10 IoT
Recording and Surveillance System	NMS (Novus Management System)
Additional Software	Internet Explorer
Operation Mode	Pentaplex
OSD	Polish, English, Russian, others
Control	PC mouse and keyboard (in-set included), DCZ keyboard
System Diagnostic	automatic control of: HDDs, Temperature, Fan, Network, Camera connection loss
Security	Password protection, IP filtering, MAC filtering, Limiting the number of connections

INTEGRATION

Integrated Devices Novus IP Cameras, Novus IP Recorders, Novus AHD Recorders, NMS-ANPR Software, DSC Systems, POS Systems (Posnet, Upos and other), ONVIF Devices, RTSP Devices

INSTALLATION PARAMETERS

Dimensions	185mm (W) x 408mm(H) x 475mm (D)
Weight	10 kg (without HDDs for recording)
Power Supply	built in 700W, with 230VAC input
Power consumption/heatprint	280W/230W (without HDD for recording)
Operating Temperature	5°C ~ 35°C

Attention:

To support more than 1 RTSP stream and 1 ONVIF stream you will need special licence key.

NMS IP Recorder NVS0 7-T-III



KEY FEATURES



- Video and audio channels: 150
- Recording speed up to 3750 fps at 1920 x 1080
- Supports resolution up to 4000 x 3000
- Recorded stream size: 350 Mb/s in total from all cameras
- Supports up to 3 monitors simultaneously
- optional disk mounting: 6 x SATA 3,5"
- Operating system: Microsoft Windows 10 Pro
- Recording and surveillance system: NMS (Novus Management System)
- Compatible with all NOVUS IP cameras

DIMENSIONS



VIDEO

IP Camera Recording	120 channels at 1920x1080 (video+audio) using H.264 codec • 150 channels at 1920x1080 (video+audio) using H.265 codec
Maximum Supported Camera Resolution	4000x3000
Supported Codes	H.264, H.264+, H.265, H.265+, MJPEG
Supported Cameras and Protocols	Novus, Novus fisheye, ONVIF, ONVIF fisheye, RTSP, RTSP fisheye
Dualstreaming Support	yes

DISPLAY

Monitor Output	1 x HDMI 2.0b, 1 x Display Port 1.4, 1 x Dual link DVI-D (up to 3 monitors simultaneously)
Maximum Resolution	3 x 4K UltraHD

AUDIO

Audio input	1 x Line in (3,5mm), 1 x Mic in(3,5mm)
Audio Output	1 x Line (3,5mm), 1 x HDMI, 1 x Display Port
Audio Input/Output in Cameras	Supports audio input/output build in cameras

PERFORMANCE - H.264

2MPX IP Camera	Recording up to: 120 main streams (while displaying: 8 sub streams) • Display up to: 70 sub streams or 20 main streams (while recording: 70 main streams) • Playback up to: 20 main streams (while recording: 70 main streams)
4MPX IP Camera	Recording up to: 70 main streams (while displaying: 8 sub streams) • Display up to: 70 sub streams or 13 main streams (while recording: 70 main streams) • Playback up to: 13 main streams (while recording: 70 main streams)
5MPX IP Camera	Recording up to: 60 main streams (while displaying: 8 sub streams) • Display up to: 60 sub streams or 8 main streams (while recording: 60 main streams) • Playback up to: 8 main streams (while recording: 60 main streams)
8MPX IP Camera	Recording up to: 40 main streams (while displaying: 8 sub streams) • Display up to: 40 sub streams or 5 main streams (while recording: 40 main streams) • Playback up to: 5 main streams (while recording: 40 main streams)
12MPX IP Camera	Recording up to: 35 main streams (while displaying: 8 sub streams) • Display up to: 35 sub streams or 8 main streams (while recording: 35 main streams) • Playback up to: 8 main streams (while recording: 35 main streams)

PERFORMANCE - H.265

2MPX IP Camera	Recording up to: 150 main streams (while displaying: 8 sub streams) • Display up to: 55 sub streams or 15 main streams (while recording: 55 main streams) • Playback up to: 15 main streams (while recording: 55 main streams)
----------------	---

4MPX IP Camera	Recording up to: 100 main streams (while displaying: 8 sub streams) • Display up to: 50 sub streams or 8 main streams (while recording: 50 main streams) • Playback up to: 8 main streams (while recording: 50 main streams)
5MPX IP Camera	Recording up to: 80 main streams (while displaying: 8 sub streams) • Display up to: 60 sub streams or 5 main streams (while recording: 60 main streams) • Playback up to: 5 main streams (while recording: 60 main streams)
8MPX IP Camera	Recording up to: 70 main streams (while displaying: 8 sub streams) • Display up to: 65 sub streams or 4 main streams (while recording: 65 main streams) • Playback up to: 4 main streams (while recording: 65 main streams)
12MPX IP Camera	Recording up to: 56 main streams (while displaying: 8 sub streams) • Display up to: 32 sub streams or 4 main streams (while recording: 32 main streams) • Playback up to: 4 main streams (while recording: 32 main streams)

RECORDING

Recording Mode	Continuous, Schedule, Panic, Triggered: manually, by alarm input, motion detection, video analysis, POS, temperature alarm
Schedule	individual settings for: each camera, each day of the week, specific days (holidays etc.), configuration with an accuracy of: 15 min, possibility of combining individual recording modes
Prealarm/Postalarm	Up to: 30s / Up to: 600s

PLAYBACK

Recorded Data Search	By Date/Time, Events, "Text-in"
----------------------	---------------------------------

BACKUP

Backup Methods	USB port (HDD or Flash drive), Network
Backup File Format	JPEG, BMP, AVI, NMS

HDD

Internal storage for system	1 x SSD NVMe
Internal Storage for Recording	6 available bays for 3,5" HDD surveillance grade storage media

ALARMS

Alarm Input/output in cameras	support of alarm input and output built in cameras
Motion detection	support of motion detection built in cameras
Video Analytics	supported built in analytics in camera
Temperature alarm	support of temperature alarm built in cameras
Licence plate recognition (LPR)	support of selected image analysis functions available in the camera
System Reactions to Alarm Events	e-mail, Screen Message, Recording Activation, PTZ

NETWORK

Network Interface	1 x Ethernet - RJ45 interface, 10/100/1000 Mbit/s • 1 x Ethernet - złącze RJ45, 10/100/1000/2500 Mbit/s
Network Throughput	up to 350Mbit/s from all cameras • up to 350Mbit/s to all client stations • Max network throughput: 350Mbit/s for each network card
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, SAMBA
Compatible Mobile Applications	NMS Mobile

PTZ

NMS IP Recorder NVSO 7-T-III

PTZ Functions	pan, tilt, zoom, preset commands, patterns, tours, auto-scans, focus, iris
---------------	--

ADDITIONAL INTERFACES

USB Ports	4 x USB 2.0, 4 x USB 3.2, 1 x USB 3.2 Type-C
-----------	--

OPERATING SYSTEM

Operating System	Microsoft Windows 10 Pro
Recording and Surveillance System	NMS (Novus Management System)
Additional Software	Internet Explorer
Operation Mode	Pentaplex
OSD	Polish, English, Russian, others
Control	PC mouse and keyboard (in-set included), DCZ keyboard
System Diagnostic	automatic control of: HDDs, Temperature, Fan, Network, Camera connection loss
Security	Password protection, IP filtering, MAC filtering, Limiting the number of connections

INTEGRATION

Integrated Devices	Novus IP Cameras, Novus IP Recorders, Novus AHD Recorders, NMS-ANPR Software, DSC Systems, POS Systems (Posnet, Upos and other), ONVIF Devices, RTSP Devices
--------------------	--

INSTALLATION PARAMETERS

Dimensions	185mm (W) x 408mm(H) x 475mm (D)
Weight	10 kg (without HDDs for recording)
Power Supply	built in 700W, with 230VAC input
Power consumption/heatprint	280W/230W (without HDD for recording)
Operating Temperature	5°C ~ 35°C

Attention:

To support more than 1 RTSP stream and 1 ONVIF stream you will need special licence key.

NMS IP Recorder NMS NVR X-4U-III

PRO SERIES



KEY FEATURES



- Video and audio channels: 200
- Supports resolution up to 4000 x 3000
- Recorded stream size: 450 Mb/s in total from all cameras
- Supports up to 3 monitors simultaneously
- optional disk mounting: 8 x SATA 3,5"
- External arrays support
- Operating system: Microsoft Windows 10 IoT
- Recording and surveillance system: NMS (Novus Management System)
- Compatible with all NOVUS IP cameras

DIMENSIONS



VIDEO

IP Camera Recording	160 channels at 1920x1080 (video+audio) using H.264 codec • 200 channels at 1920x1080 (video+audio) using H.265 codec
Maximum Supported Camera Resolution	4000x3000
Supported Codes	H.264, H.264+, H.265, H.265+, MJPEG
Supported Cameras and Protocols	Novus, Novus fisheye, ONVIF, ONVIF fisheye, RTSP, RTSP fisheye
Dualstreaming Support	yes

DISPLAY

Monitor Output	1 x HDMI 2.0b, 1 x Dual link-DVI, 1 x Display Port 1.2 (up to 3 monitors simultaneously)
Maximum Resolution	3 x 4K UltraHD

AUDIO

Audio Output	1 x HDMI, 1 x Display Port
--------------	----------------------------

PERFORMANCE - H.264

2MPX IP Camera	Recording up to: 160 main streams (while displaying: 8 sub streams) • Display up to: 60 sub streams or 20 main streams (while recording: 80 main streams) • Playback up to: 20 main streams (while recording: 80 main streams)
4MPX IP Camera	Recording up to: 120 main streams (while displaying: 8 sub streams) • Display up to: 50 sub streams or 13 main streams (while recording: 80 main streams) • Playback up to: 13 main streams (while recording: 80 main streams)
5MPX IP Camera	Recording up to: 100 main streams (while displaying: 8 sub streams) • Display up to: 40 sub streams or 8 main streams (while recording: 80 main streams) • Playback up to: 8 main streams (while recording: 80 main streams)
8MPX IP Camera	Recording up to: 80 main streams (while displaying: 8 sub streams) • Display up to: 30 sub streams or 5 main streams (while recording: 60 main streams) • Playback up to: 5 main streams (while recording: 60 main streams)
12MPX IP Camera	Recording up to: 80 main streams (while displaying: 8 sub streams) • Display up to: 25 sub streams or 4 main streams (while recording: 50 main streams) • Playback up to: 4 main streams (while recording: 50 main streams)

PERFORMANCE - H.265

2MPX IP Camera	Recording up to: 200 main streams (while displaying: 8 sub streams) • Display up to: 60 sub streams or 20 main streams (while recording: 80 main streams) • Playback up to: 20 main streams (while recording: 80 main streams)
4MPX IP Camera	Recording up to: 160 main streams (while displaying: 8 sub streams) • Display up to: 40 sub streams or 9 main streams (while recording: 80 main streams) • Playback up to: 9 main streams (while recording: 80 main streams)

NMS IP Recorder

NMS NVR X-4U-III

5MPX IP Camera	Recording up to: 120 main streams (while displaying: 8 sub streams) • Display up to: 35 sub streams or 4 main streams (while recording: 70 main streams) • Playback up to: 4 main streams (while recording: 70 main streams)
8MPX IP Camera	Recording up to: 90 main streams (while displaying: 8 sub streams) • Display up to: 25 sub streams or 4 main streams (while recording: 70 main streams) • Playback up to: 4 main streams (while recording: 70 main streams)
12MPX IP Camera	Recording up to: 90 main streams (while displaying: 8 sub streams) • Display up to: 16 sub streams or 4 main streams (while recording: 50 main streams) • Playback up to: 4 main streams (while recording: 50 main streams)

RECORDING

Recording Mode	Continuous, Schedule, Panic, Triggered: manually, by alarm input, motion detection, video analysis, POS, temperature alarm
Schedule	individual settings for: each camera, each day of the week, specific days (holidays etc.), configuration with an accuracy of: 15 min, possibility of combining individual recording modes
Prealarm/Postalarm	Up to: 30s / Up to: 600s

PLAYBACK

Recorded Data Search	By Date/Time, Events, "Text-in", Image Analysis Events
----------------------	--

BACKUP

Backup Methods	USB port (HDD or Flash drive), Network
Backup File Format	JPEG, BMP, AVI, NMS

HDD

Internal storage for system	1 x SSD NVMe
Internal Storage for Recording	8 available bays for 3,5" HDD surveillance grade storage media

ALARMS

Alarm Input/output in cameras	support of alarm input and output built in cameras
Motion detection	support of motion detection built in cameras
Video Analytics	supported built in analytics in camera
Temperature alarm	support of temperature alarm built in cameras
Licence plate recognition (LPR)	support of selected image analysis functions available in the camera

NETWORK

Network Interface	2 x Ethernet - RJ45 interface, 10/100/1000 Mbit/s
Network Throughput	up to 450Mbit/s from all cameras • up to 450Mbit/s to all client stations • Max network throughput: 450Mbit/s for each network card
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, SAMBA
Compatible Mobile Applications	NMS Mobile

PTZ

PTZ Functions	pan, tilt, zoom, preset commands, patterns, tours, auto-scans, focus, iris
---------------	--

ADDITIONAL INTERFACES

USB Ports	4 x USB 3.2 • 2 x USB 2.0
-----------	---------------------------

OPERATING SYSTEM

NMS IP Recorder NMS NVR X-4U-III

Operating System	Microsoft Windows 10 IoT
Recording and Surveillance System	NMS (Novus Management System)
Additional Software	NMS, Internet Explorer
Operation Mode	Pentaplex
OSD	Polish, English, Russian, others
Control	PC mouse and keyboard (in-set included), DCZ keyboard
System Diagnostic	automatic control of: HDDs, Temperature, Fan, Network, Camera connection loss
Security	Password protection, IP filtering, MAC filtering, Limiting the number of connections

INTEGRATION

Integrated Devices	Novus IP Cameras, Novus IP Recorders, Novus AHD Recorders, NMS-ANPR Software, DSC Systems, POS Systems (Posnet, Upos and other), ONVIF Devices, RTSP Devices
--------------------	--

INSTALLATION PARAMETERS

Dimensions	178mm (W) x 452mm(H) x 648mm (D)
Weight	28 kg (without HDD)
Power Supply	built in 700W, with 230VAC input
Power consumption/heatprint	350W/280W (without HDD for recording)
Operating Temperature	5°C ~ 35°C
RACK Mount 19"	4U

* To support more than two monitors it is required to use Display Port output.

** Available with dual streaming mode.

*** Function capability depends on used devices and communication protocols.

**** List of compatible HDD models and maximum of their capacities is available in section DOWNLOADABLE FILES.

NMS IP Recorder NMS NVR X-2U-III



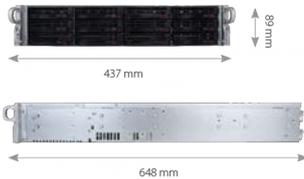
PRO SERIES

KEY FEATURES



- Video and audio channels: 200
- Supports resolution up to 4000 x 3000
- Recorded stream size: 450 Mb/s in total from all cameras
- Supports up to 3 monitors simultaneously
- optional disk mounting: 12 x SATA 3,5"
- RAID controller protects recordings
- External arrays support
- Operating system: Microsoft Windows 10 IoT
- Recording and surveillance system: NMS (Novus Management System)
- Compatible with all NOVUS IP cameras
- Redundant PSUs: 2

DIMENSIONS



VIDEO

IP Camera Recording	160 channels at 1920x1080 (video+audio) using H.264 codec • 200 channels at 1920x1080 (video+audio) using H.265 codec
Maximum Supported Camera Resolution	4000x3000
Supported Codes	H.264, H.264+, H.265, H.265+, MJPEG
Supported Cameras and Protocols	Novus, Novus fisheye, ONVIF, ONVIF fisheye, RTSP, RTSP fisheye
Dualstreaming Support	yes

DISPLAY

Monitor Output	3 x Mini Display Port 1.2, (up to 3 monitors simultaneously)
Maximum Resolution	3 x 4K UltraHD

AUDIO

Audio Output	3 x Mini Display Port 1.2
--------------	---------------------------

PERFORMANCE - H.264

2MPX IP Camera	Recording up to: 160 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 160 main streams) • Playback up to: 8 main streams (while recording: 160 main streams)
4MPX IP Camera	Recording up to: 120 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 120 main streams) • Playback up to: 8 main streams (while recording: 120 main streams)
5MPX IP Camera	Recording up to: 100 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 100 main streams) • Playback up to: 8 main streams (while recording: 8 main streams)
8MPX IP Camera	Recording up to: 80 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 6 main streams (while recording: 80 main streams) • Playback up to: 6 main streams (while recording: 80 main streams)
12MPX IP Camera	Recording up to: 80 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 4 main streams (while recording: 80 main streams) • Playback up to: 4 main streams (while recording: 80 main streams)

PERFORMANCE - H.265

2MPX IP Camera	Recording up to: 200 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 200 main streams) • Playback up to: 8 main streams (while recording: 200 main streams)
4MPX IP Camera	Recording up to: 160 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 160 main streams) • Playback up to: 8 main streams (while recording: 160 main streams)

NMS IP Recorder NMS NVR X-2U-III

5MPX IP Camera	Recording up to: 120 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 4 main streams (while recording: 120 main streams) • Playback up to: 4 main streams (while recording: 120 main streams)
8MPX IP Camera	Recording up to: 90 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 4 main streams (while recording: 90 main streams) • Playback up to: 4 main streams (while recording: 90 main streams)
12MPX IP Camera	Recording up to: 90 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 4 main streams (while recording: 90 main streams) • Playback up to: 4 main streams (while recording: 90 main streams)

RECORDING

Recording Mode	Continuous, Schedule, Panic, Triggered: manually, by alarm input, motion detection, video analysis, POS, temperature alarm
Schedule	individual settings for: each camera, each day of the week, specific days (holidays etc.), configuration with an accuracy of: 15 min, possibility of combining individual recording modes
Prealarm/Postalarm	Up to: 30s / Up to: 600s

PLAYBACK

Recorded Data Search	By Date/Time, Events, "Text-in", Image Analysis Events
----------------------	--

BACKUP

Backup Methods	USB port (HDD or Flash drive), Network
Backup File Format	JPEG, BMP, AVI, NMS

HDD

Internal storage for system	1 x SSD NVMe
Internal Storage for Recording	12 available bays for 3,5" HDD surveillance grade storage media
RAID Redundancy	RAID types: RAID 0, RAID 1, RAID 5, RAID 6

ALARMS

Alarm Input/output in cameras	support of alarm input and output built in cameras
Motion detection	support of motion detection built in cameras
Video Analytics	supported built in analytics in camera
Temperature alarm	support of temperature alarm built in cameras
Licence plate recognition (LPR)	support of selected image analysis functions available in the camera

NETWORK

Network Interface	2 x Ethernet - RJ45 interface, 10/100/1000 Mbit/s
Network Throughput	up to 450Mbit/s from all cameras • up to 450Mbit/s to all client stations • Max network throughput: 450Mbit/s for each network card
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DNS, DDNS, NTP, RTSP, SAMBA
Compatible Mobile Applications	NMS Mobile

PTZ

PTZ Functions	pan, tilt, zoom, preset commands, patterns, tours, auto-scans, focus, iris
---------------	--

ADDITIONAL INTERFACES

USB Ports	4 x USB 3.2 • 2 x USB 2.0
-----------	---------------------------

OPERATING SYSTEM

Operating System	Microsoft Windows 10 IoT
Recording and Surveillance System	NMS (Novus Management System)
Additional Software	NMS, Internet Explorer
Operation Mode	Pentaplex
OSD	Polish, English, Russian, others
Control	PC mouse and keyboard (in-set included), DCZ keyboard
System Diagnostic	automatic control of: HDDs, Temperature, Fan, Network, Camera connection loss
Security	Password protection, IP filtering, MAC filtering, Limiting the number of connections

INTEGRATION

Integrated Devices	Novus IP Cameras, Novus IP Recorders, Novus AHD Recorders, NMS-ANPR Software, DSC Systems, POS Systems (Posnet, Upos and other), ONVIF Devices, RTSP Devices
--------------------	--

INSTALLATION PARAMETERS

Dimensions	437mm (W) x 89mm(H) x 648mm (D)
Weight	24 kg (with HDDs)
Power Supply	built in 2 x redundant power supply 230VAC input with 960W power each
Power consumption/heatprint	490W/400W (without HDD for recording)
Operating Temperature	5°C ~ 35°C
RACK Mount 19"	2U

Attention: To support more than 1 RTSP stream and 1 ONVIF stream you will need special licence key.

NMS IP Recorder NMS NVR X-2U-III-24TB



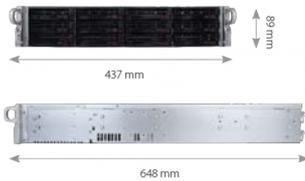
PRO SERIES

KEY FEATURES



- Video and audio channels: 200
- Supports resolution up to 4000 x 3000
- Recorded stream size: 450 Mb/s in total from all cameras
- Supports up to 3 monitors simultaneously
- Built-in HDDs: 12 x 2 TB server-dedicated SAS for 24/7 recording
- RAID controller protects recordings
- External arrays support
- Operating system: Microsoft Windows 10 IoT
- Recording and surveillance system: NMS (Novus Management System)
- Compatible with all NOVUS IP cameras
- Redundant PSUs: 2

DIMENSIONS



VIDEO

IP Camera Recording	160 channels at 1920x1080 (video+audio) using H.264 codec • 200 channels at 1920x1080 (video+audio) using H.265 codec
Maximum Supported Camera Resolution	4000x3000
Supported Codes	H.264, H.264+, H.265, H.265+, MJPEG
Supported Cameras and Protocols	Novus, Novus fisheye, ONVIF, ONVIF fisheye, RTSP, RTSP fisheye
Dualstreaming Support	yes

DISPLAY

Monitor Output	3 x Mini Display Port 1.2, (up to 3 monitors simultaneously)
Maximum Resolution	3 x 4K UltraHD

AUDIO

Audio Output	3 x Mini Display Port 1.2
--------------	---------------------------

PERFORMANCE - H.264

2MPX IP Camera	Recording up to: 160 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 160 main streams) • Playback up to: 8 main streams (while recording: 160 main streams)
4MPX IP Camera	Recording up to: 120 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 120 main streams) • Playback up to: 8 main streams (while recording: 120 main streams)
5MPX IP Camera	Recording up to: 100 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 100 main streams) • Playback up to: 8 main streams (while recording: 8 main streams)
8MPX IP Camera	Recording up to: 80 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 6 main streams (while recording: 80 main streams) • Playback up to: 6 main streams (while recording: 80 main streams)
12MPX IP Camera	Recording up to: 80 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 4 main streams (while recording: 80 main streams) • Playback up to: 4 main streams (while recording: 80 main streams)

PERFORMANCE - H.265

2MPX IP Camera	Recording up to: 200 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 200 main streams) • Playback up to: 8 main streams (while recording: 200 main streams)
4MPX IP Camera	Recording up to: 160 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 160 main streams) • Playback up to: 8 main streams (while recording: 160 main streams)

NMS IP Recorder

NMS NVR X-2U-III-24TB

5MPX IP Camera	Recording up to: 120 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 4 main streams (while recording: 120 main streams) • Playback up to: 4 main streams (while recording: 120 main streams)
8MPX IP Camera	Recording up to: 90 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 4 main streams (while recording: 90 main streams) • Playback up to: 4 main streams (while recording: 90 main streams)
12MPX IP Camera	Recording up to: 90 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 4 main streams (while recording: 90 main streams) • Playback up to: 4 main streams (while recording: 90 main streams)

RECORDING

Recording Mode	Continuous, Schedule, Panic, Triggered: manually, by alarm input, motion detection, video analysis, POS, temperature alarm
Schedule	individual settings for: each camera, each day of the week, specific days (holidays etc.), configuration with an accuracy of: 15 min, possibility of combining individual recording modes
Prealarm/Postalarm	Up to: 30s / Up to: 600s

PLAYBACK

Recorded Data Search	By Date/Time, Events, "Text-in", Image Analysis Events
----------------------	--

BACKUP

Backup Methods	USB port (HDD or Flash drive), Network
Backup File Format	JPEG, BMP, AVI, NMS

HDD

Internal storage for system	1 x SSD NVMe
Internal Storage for Recording	12 x 2TB SAS 3,5" 2TB surveillance grade server storage media
RAID Redundancy	RAID types: RAID 0, RAID 1, RAID 5, RAID 6

ALARMS

Alarm Input/output in cameras	support of alarm input and output built in cameras
Motion detection	support of motion detection built in cameras
Video Analytics	supported built in analytics in camera
Temperature alarm	support of temperature alarm built in cameras
Licence plate recognition (LPR)	support of selected image analysis functions available in the camera

NETWORK

Network Interface	2 x Ethernet - RJ45 interface, 10/100/1000 Mbit/s
Network Throughput	up to 450Mbit/s from all cameras • up to 450Mbit/s to all client stations • Max network throughput: 450Mbit/s for each network card
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DNS, DDNS, NTP, RTSP, SAMBA
Compatible Mobile Applications	NMS Mobile

PTZ

PTZ Functions	pan, tilt, zoom, preset commands, patterns, tours, auto-scans, focus, iris
---------------	--

ADDITIONAL INTERFACES

USB Ports	4 x USB 3.2 • 2 x USB 2.0
-----------	---------------------------

NMS IP Recorder NMS NVR X-2U-III-24TB

OPERATING SYSTEM

Operating System	Microsoft Windows 10 IoT
Recording and Surveillance System	NMS (Novus Management System)
Additional Software	NMS, Internet Explorer
Operation Mode	Pentaplex
OSD	Polish, English, Russian, others
Control	PC mouse and keyboard (in-set included), DCZ keyboard
System Diagnostic	automatic control of: HDDs, Temperature, Fan, Network, Camera connection loss
Security	Password protection, IP filtering, MAC filtering, Limiting the number of connections

INTEGRATION

Integrated Devices	Novus IP Cameras, Novus IP Recorders, Novus AHD Recorders, NMS-ANPR Software, DSC Systems, POS Systems (Posnet, Upos and other), ONVIF Devices, RTSP Devices
--------------------	--

INSTALLATION PARAMETERS

Dimensions	437mm (W) x 89mm(H) x 648mm (D)
Weight	24 kg (with HDDs)
Power Supply	built in 2 x redundant power supply 230VAC input with 960W power each
Power consumption/heatprint	490W/400W (without HDD for recording)
Operating Temperature	5°C ~ 35°C
RACK Mount 19"	2U

Attention: To support more than 1 RTSP stream and 1 ONVIF stream you will need special licence key.

NMS IP Recorder NMS NVR X-2U-III-48TB



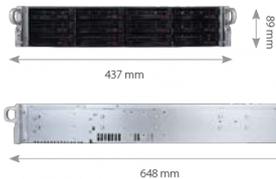
PRO SERIES

KEY FEATURES



- Video and audio channels: 200
- Supports resolution up to 4000 x 3000
- Recorded stream size: 450 Mb/s in total from all cameras
- Supports up to 3 monitors simultaneously
- Built-in HDDs: 12 x 4 TB server-dedicated SAS for 24/7 recording
- RAID controller protects recordings
- External arrays support
- Operating system: Microsoft Windows 10 IoT
- Recording and surveillance system: NMS (Novus Management System)
- Compatible with all NOVUS IP cameras
- Redundant PSUs: 2

DIMENSIONS



VIDEO

IP Camera Recording	160 channels at 1920x1080 (video+audio) using H.264 codec • 200 channels at 1920x1080 (video+audio) using H.265 codec
Maximum Supported Camera Resolution	4000x3000
Supported Codes	H.264, H.264+, H.265, H.265+, MJPEG
Supported Cameras and Protocols	Novus, Novus fisheye, ONVIF, ONVIF fisheye, RTSP, RTSP fisheye
Dualstreaming Support	yes

DISPLAY

Monitor Output	3 x Mini Display Port 1.2, (up to 3 monitors simultaneously)
Maximum Resolution	3 x 4K UltraHD

AUDIO

Audio Output	3 x Mini Display Port 1.2
--------------	---------------------------

PERFORMANCE - H.264

2MPX IP Camera	Recording up to: 160 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 160 main streams) • Playback up to: 8 main streams (while recording: 160 main streams)
4MPX IP Camera	Recording up to: 120 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 120 main streams) • Playback up to: 8 main streams (while recording: 120 main streams)
5MPX IP Camera	Recording up to: 100 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 100 main streams) • Playback up to: 8 main streams (while recording: 8 main streams)
8MPX IP Camera	Recording up to: 80 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 6 main streams (while recording: 80 main streams) • Playback up to: 6 main streams (while recording: 80 main streams)
12MPX IP Camera	Recording up to: 80 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 4 main streams (while recording: 80 main streams) • Playback up to: 4 main streams (while recording: 80 main streams)

PERFORMANCE - H.265

2MPX IP Camera	Recording up to: 200 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 200 main streams) • Playback up to: 8 main streams (while recording: 200 main streams)
4MPX IP Camera	Recording up to: 160 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 160 main streams) • Playback up to: 8 main streams (while recording: 160 main streams)

NMS IP Recorder

NMS NVR X-2U-III-48TB

5MPX IP Camera	Recording up to: 120 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 4 main streams (while recording: 120 main streams) • Playback up to: 4 main streams (while recording: 120 main streams)
8MPX IP Camera	Recording up to: 90 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 4 main streams (while recording: 90 main streams) • Playback up to: 4 main streams (while recording: 90 main streams)
12MPX IP Camera	Recording up to: 90 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 4 main streams (while recording: 90 main streams) • Playback up to: 4 main streams (while recording: 90 main streams)

RECORDING

Recording Mode	Continuous, Schedule, Panic, Triggered: manually, by alarm input, motion detection, video analysis, POS, temperature alarm
Schedule	individual settings for: each camera, each day of the week, specific days (holidays etc.), configuration with an accuracy of: 15 min, possibility of combining individual recording modes
Prealarm/Postalarm	Up to: 30s / Up to: 600s

PLAYBACK

Recorded Data Search	By Date/Time, Events, "Text-in", Image Analysis Events
----------------------	--

BACKUP

Backup Methods	USB port (HDD or Flash drive), Network
Backup File Format	JPEG, BMP, AVI, NMS

HDD

Internal storage for system	1 x SSD NVMe
Internal Storage for Recording	12 x 4TB SAS 3,5" 4TB surveillance grade server storage media
RAID Redundancy	RAID types: RAID 0, RAID 1, RAID 5, RAID 6

ALARMS

Alarm Input/output in cameras	support of alarm input and output built in cameras
Motion detection	support of motion detection built in cameras
Video Analytics	supported built in analytics in camera
Temperature alarm	support of temperature alarm built in cameras
Licence plate recognition (LPR)	support of selected image analysis functions available in the camera

NETWORK

Network Interface	2 x Ethernet - RJ45 interface, 10/100/1000 Mbit/s
Network Throughput	up to 450Mbit/s from all cameras • up to 450Mbit/s to all client stations • Max network throughput: 450Mbit/s for each network card
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DNS, DDNS, NTP, RTSP, SAMBA
Compatible Mobile Applications	NMS Mobile

PTZ

PTZ Functions	pan, tilt, zoom, preset commands, patterns, tours, auto-scans, focus, iris
---------------	--

ADDITIONAL INTERFACES

USB Ports	4 x USB 3.2 • 2 x USB 2.0
-----------	---------------------------

NMS IP Recorder

NMS NVR X-2U-III-48TB

OPERATING SYSTEM

Operating System	Microsoft Windows 10 IoT
Recording and Surveillance System	NMS (Novus Management System)
Additional Software	NMS, Internet Explorer
Operation Mode	Pentaplex
OSD	Polish, English, Russian, others
Control	PC mouse and keyboard (in-set included), DCZ keyboard
System Diagnostic	automatic control of: HDDs, Temperature, Fan, Network, Camera connection loss
Security	Password protection, IP filtering, MAC filtering, Limiting the number of connections

INTEGRATION

Integrated Devices	Novus IP Cameras, Novus IP Recorders, Novus AHD Recorders, NMS-ANPR Software, DSC Systems, POS Systems (Posnet, Upos and other), ONVIF Devices, RTSP Devices
--------------------	--

INSTALLATION PARAMETERS

Dimensions	437mm (W) x 89mm(H) x 648mm (D)
Weight	24 kg (with HDDs)
Power Supply	built in 2 x redundant power supply 230VAC input with 960W power each
Power consumption/heatprint	490W/400W (without HDD for recording)
Operating Temperature	5°C ~ 35°C
RACK Mount 19"	2U

Attention: To support more than 1 RTSP stream and 1 ONVIF stream you will need special licence key.

NMS IP Recorder NMS NVR X-2U-III-72TB



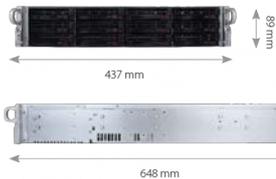
PRO SERIES

KEY FEATURES



- Video and audio channels: 200
- Supports resolution up to 4000 x 3000
- Recorded stream size: 450 Mb/s in total from all cameras
- Supports up to 3 monitors simultaneously
- Built-in HDDs: 12 x 6 TB server-dedicated SAS for 24/7 recording
- RAID controller protects recordings
- External arrays support
- Operating system: Microsoft Windows 10 IoT
- Recording and surveillance system: NMS (Novus Management System)
- Compatible with all NOVUS IP cameras
- Redundant PSUs: 2

DIMENSIONS



VIDEO

IP Camera Recording	160 channels at 1920x1080 (video+audio) using H.264 codec • 200 channels at 1920x1080 (video+audio) using H.265 codec
Maximum Supported Camera Resolution	4000x3000
Supported Codes	H.264, H.264+, H.265, H.265+, MJPEG
Supported Cameras and Protocols	Novus, Novus fisheye, ONVIF, ONVIF fisheye, RTSP, RTSP fisheye
Dualstreaming Support	yes

DISPLAY

Monitor Output	3 x Mini Display Port 1.2, (up to 3 monitors simultaneously)
Maximum Resolution	3 x 4K UltraHD

AUDIO

Audio Output	3 x Mini Display Port 1.2
--------------	---------------------------

PERFORMANCE - H.264

2MPX IP Camera	Recording up to: 160 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 160 main streams) • Playback up to: 8 main streams (while recording: 160 main streams)
4MPX IP Camera	Recording up to: 120 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 120 main streams) • Playback up to: 8 main streams (while recording: 120 main streams)
5MPX IP Camera	Recording up to: 100 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 100 main streams) • Playback up to: 8 main streams (while recording: 8 main streams)
8MPX IP Camera	Recording up to: 80 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 6 main streams (while recording: 80 main streams) • Playback up to: 6 main streams (while recording: 80 main streams)
12MPX IP Camera	Recording up to: 80 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 4 main streams (while recording: 80 main streams) • Playback up to: 4 main streams (while recording: 80 main streams)

PERFORMANCE - H.265

2MPX IP Camera	Recording up to: 200 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 200 main streams) • Playback up to: 8 main streams (while recording: 200 main streams)
4MPX IP Camera	Recording up to: 160 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 160 main streams) • Playback up to: 8 main streams (while recording: 160 main streams)

NMS IP Recorder

NMS NVR X-2U-III-72TB

5MPX IP Camera	Recording up to: 120 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 4 main streams (while recording: 120 main streams) • Playback up to: 4 main streams (while recording: 120 main streams)
8MPX IP Camera	Recording up to: 90 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 4 main streams (while recording: 90 main streams) • Playback up to: 4 main streams (while recording: 90 main streams)
12MPX IP Camera	Recording up to: 90 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 4 main streams (while recording: 90 main streams) • Playback up to: 4 main streams (while recording: 90 main streams)

RECORDING

Recording Mode	Continuous, Schedule, Panic, Triggered: manually, by alarm input, motion detection, video analysis, POS, temperature alarm
Schedule	individual settings for: each camera, each day of the week, specific days (holidays etc.), configuration with an accuracy of: 15 min, possibility of combining individual recording modes
Prealarm/Postalarm	Up to: 30s / Up to: 600s

PLAYBACK

Recorded Data Search	By Date/Time, Events, "Text-in", Image Analysis Events
----------------------	--

BACKUP

Backup Methods	USB port (HDD or Flash drive), Network
Backup File Format	JPEG, BMP, AVI, NMS

HDD

Internal storage for system	1 x SSD NVMe
Internal Storage for Recording	12 x 6TB SAS 3,5" 6TB surveillance grade server storage media
RAID Redundancy	RAID types: RAID 0, RAID 1, RAID 5, RAID 6

ALARMS

Alarm Input/output in cameras	support of alarm input and output built in cameras
Motion detection	support of motion detection built in cameras
Video Analytics	supported built in analytics in camera
Temperature alarm	support of temperature alarm built in cameras
Licence plate recognition (LPR)	support of selected image analysis functions available in the camera

NETWORK

Network Interface	2 x Ethernet - RJ45 interface, 10/100/1000 Mbit/s
Network Throughput	up to 450Mbit/s from all cameras • up to 450Mbit/s to all client stations • Max network throughput: 450Mbit/s for each network card
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DNS, DDNS, NTP, RTSP, SAMBA
Compatible Mobile Applications	NMS Mobile

PTZ

PTZ Functions	pan, tilt, zoom, preset commands, patterns, tours, auto-scans, focus, iris
---------------	--

ADDITIONAL INTERFACES

USB Ports	4 x USB 3.2 • 2 x USB 2.0
-----------	---------------------------

NMS IP Recorder NMS NVR X-2U-III-72TB

OPERATING SYSTEM

Operating System	Microsoft Windows 10 IoT
Recording and Surveillance System	NMS (Novus Management System)
Additional Software	NMS, Internet Explorer
Operation Mode	Pentaplex
OSD	Polish, English, Russian, others
Control	PC mouse and keyboard (in-set included), DCZ keyboard
System Diagnostic	automatic control of: HDDs, Temperature, Fan, Network, Camera connection loss
Security	Password protection, IP filtering, MAC filtering, Limiting the number of connections

INTEGRATION

Integrated Devices	Novus IP Cameras, Novus IP Recorders, Novus AHD Recorders, NMS-ANPR Software, DSC Systems, POS Systems (Posnet, Upos and other), ONVIF Devices, RTSP Devices
--------------------	--

INSTALLATION PARAMETERS

Dimensions	437mm (W) x 89mm(H) x 648mm (D)
Weight	24 kg (with HDDs)
Power Supply	built in 2 x redundant power supply 230VAC input with 960W power each
Power consumption/heatprint	490W/400W (without HDD for recording)
Operating Temperature	5°C ~ 35°C
RACK Mount 19"	2U

Attention: To support more than 1 RTSP stream and 1 ONVIF stream you will need special licence key.

NMS IP Recorder NMS NVR X-2U-III-96TB



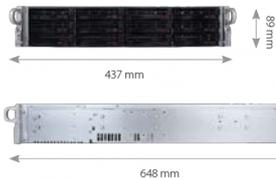
PRO SERIES

KEY FEATURES



- Video and audio channels: 200
- Supports resolution up to 4000 x 3000
- Recorded stream size: 450 Mb/s in total from all cameras
- Supports up to 3 monitors simultaneously
- Built-in HDDs: 12 x 8 TB server-dedicated SAS for 24/7 recording
- RAID controller protects recordings
- External arrays support
- Operating system: Microsoft Windows 10 IoT
- Recording and surveillance system: NMS (Novus Management System)
- Compatible with all NOVUS IP cameras
- Redundant PSUs: 2

DIMENSIONS



VIDEO

IP Camera Recording	160 channels at 1920x1080 (video+audio) using H.264 codec • 200 channels at 1920x1080 (video+audio) using H.265 codec
Maximum Supported Camera Resolution	4000x3000
Supported Codes	H.264, H.264+, H.265, H.265+, MJPEG
Supported Cameras and Protocols	Novus, Novus fisheye, ONVIF, ONVIF fisheye, RTSP, RTSP fisheye
Dualstreaming Support	yes

DISPLAY

Monitor Output	3 x Mini Display Port 1.2, (up to 3 monitors simultaneously)
Maximum Resolution	3 x 4K UltraHD

AUDIO

Audio Output	3 x Mini Display Port 1.2
--------------	---------------------------

PERFORMANCE - H.264

2MPX IP Camera	Recording up to: 160 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 160 main streams) • Playback up to: 8 main streams (while recording: 160 main streams)
4MPX IP Camera	Recording up to: 120 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 120 main streams) • Playback up to: 8 main streams (while recording: 120 main streams)
5MPX IP Camera	Recording up to: 100 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 100 main streams) • Playback up to: 8 main streams (while recording: 8 main streams)
8MPX IP Camera	Recording up to: 80 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 6 main streams (while recording: 80 main streams) • Playback up to: 6 main streams (while recording: 80 main streams)
12MPX IP Camera	Recording up to: 80 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 4 main streams (while recording: 80 main streams) • Playback up to: 4 main streams (while recording: 80 main streams)

PERFORMANCE - H.265

2MPX IP Camera	Recording up to: 200 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 200 main streams) • Playback up to: 8 main streams (while recording: 200 main streams)
4MPX IP Camera	Recording up to: 160 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 160 main streams) • Playback up to: 8 main streams (while recording: 160 main streams)

NMS IP Recorder

NMS NVR X-2U-III-96TB

5MPX IP Camera	Recording up to: 120 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 4 main streams (while recording: 120 main streams) • Playback up to: 4 main streams (while recording: 120 main streams)
8MPX IP Camera	Recording up to: 90 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 4 main streams (while recording: 90 main streams) • Playback up to: 4 main streams (while recording: 90 main streams)
12MPX IP Camera	Recording up to: 90 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 4 main streams (while recording: 90 main streams) • Playback up to: 4 main streams (while recording: 90 main streams)

RECORDING

Recording Mode	Continuous, Schedule, Panic, Triggered: manually, by alarm input, motion detection, video analysis, POS, temperature alarm
Schedule	individual settings for: each camera, each day of the week, specific days (holidays etc.), configuration with an accuracy of: 15 min, possibility of combining individual recording modes
Prealarm/Postalarm	Up to: 30s / Up to: 600s

PLAYBACK

Recorded Data Search	By Date/Time, Events, "Text-in", Image Analysis Events
----------------------	--

BACKUP

Backup Methods	USB port (HDD or Flash drive), Network
Backup File Format	JPEG, BMP, AVI, NMS

HDD

Internal storage for system	1 x SSD NVMe
Internal Storage for Recording	12 x 8TB SAS 3,5" 8TB surveillance grade server storage media
RAID Redundancy	RAID types: RAID 0, RAID 1, RAID 5, RAID 6

ALARMS

Alarm Input/output in cameras	support of alarm input and output built in cameras
Motion detection	support of motion detection built in cameras
Video Analytics	supported built in analytics in camera
Temperature alarm	support of temperature alarm built in cameras
Licence plate recognition (LPR)	support of selected image analysis functions available in the camera

NETWORK

Network Interface	2 x Ethernet - RJ45 interface, 10/100/1000 Mbit/s
Network Throughput	up to 450Mbit/s from all cameras • up to 450Mbit/s to all client stations • Max network throughput: 450Mbit/s for each network card
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DNS, DDNS, NTP, RTSP, SAMBA
Compatible Mobile Applications	NMS Mobile

PTZ

PTZ Functions	pan, tilt, zoom, preset commands, patterns, tours, auto-scans, focus, iris
---------------	--

ADDITIONAL INTERFACES

USB Ports	4 x USB 3.2 • 2 x USB 2.0
-----------	---------------------------

NMS IP Recorder NMS NVR X-2U-III-96TB

OPERATING SYSTEM

Operating System	Microsoft Windows 10 IoT
Recording and Surveillance System	NMS (Novus Management System)
Additional Software	NMS, Internet Explorer
Operation Mode	Pentaplex
OSD	Polish, English, Russian, others
Control	PC mouse and keyboard (in-set included), DCZ keyboard
System Diagnostic	automatic control of: HDDs, Temperature, Fan, Network, Camera connection loss
Security	Password protection, IP filtering, MAC filtering, Limiting the number of connections

INTEGRATION

Integrated Devices	Novus IP Cameras, Novus IP Recorders, Novus AHD Recorders, NMS-ANPR Software, DSC Systems, POS Systems (Posnet, Upos and other), ONVIF Devices, RTSP Devices
--------------------	--

INSTALLATION PARAMETERS

Dimensions	437mm (W) x 89mm(H) x 648mm (D)
Weight	24 kg (with HDDs)
Power Supply	built in 2 x redundant power supply 230VAC input with 960W power each
Power consumption/heatprint	490W/400W (without HDD for recording)
Operating Temperature	5°C ~ 35°C
RACK Mount 19"	2U

Attention: To support more than 1 RTSP stream and 1 ONVIF stream you will need special licence key.

NMS IP Recorder NMS NVR X-2U-III-120TB



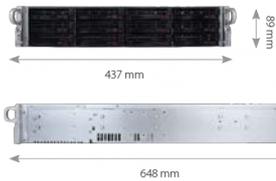
PRO SERIES

KEY FEATURES



- Video and audio channels: 200
- Supports resolution up to 4000 x 3000
- Recorded stream size: 450 Mb/s in total from all cameras
- Supports up to 3 monitors simultaneously
- Built-in HDDs: 12 x 10 TB server-dedicated SAS for 24/7 recording
- RAID controller protects recordings
- External arrays support
- Operating system: Microsoft Windows 10 IoT
- Recording and surveillance system: NMS (Novus Management System)
- Compatible with all NOVUS IP cameras
- Redundant PSUs: 2

DIMENSIONS



VIDEO

IP Camera Recording	160 channels at 1920x1080 (video+audio) using H.264 codec • 200 channels at 1920x1080 (video+audio) using H.265 codec
Maximum Supported Camera Resolution	4000x3000
Supported Codes	H.264, H.264+, H.265, H.265+, MJPEG
Supported Cameras and Protocols	Novus, Novus fisheye, ONVIF, ONVIF fisheye, RTSP, RTSP fisheye
Dualstreaming Support	yes

DISPLAY

Monitor Output	3 x Mini Display Port 1.2, (up to 3 monitors simultaneously)
Maximum Resolution	3 x 4K UltraHD

AUDIO

Audio Output	3 x Mini Display Port 1.2
--------------	---------------------------

PERFORMANCE - H.264

2MPX IP Camera	Recording up to: 160 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 160 main streams) • Playback up to: 8 main streams (while recording: 160 main streams)
4MPX IP Camera	Recording up to: 120 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 120 main streams) • Playback up to: 8 main streams (while recording: 120 main streams)
5MPX IP Camera	Recording up to: 100 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 100 main streams) • Playback up to: 8 main streams (while recording: 8 main streams)
8MPX IP Camera	Recording up to: 80 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 6 main streams (while recording: 80 main streams) • Playback up to: 6 main streams (while recording: 80 main streams)
12MPX IP Camera	Recording up to: 80 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 4 main streams (while recording: 80 main streams) • Playback up to: 4 main streams (while recording: 80 main streams)

PERFORMANCE - H.265

2MPX IP Camera	Recording up to: 200 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 200 main streams) • Playback up to: 8 main streams (while recording: 200 main streams)
4MPX IP Camera	Recording up to: 160 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 160 main streams) • Playback up to: 8 main streams (while recording: 160 main streams)

NMS IP Recorder

NMS NVR X-2U-III-120TB

5MPX IP Camera	Recording up to: 120 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 4 main streams (while recording: 120 main streams) • Playback up to: 4 main streams (while recording: 120 main streams)
8MPX IP Camera	Recording up to: 90 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 4 main streams (while recording: 90 main streams) • Playback up to: 4 main streams (while recording: 90 main streams)
12MPX IP Camera	Recording up to: 90 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 4 main streams (while recording: 90 main streams) • Playback up to: 4 main streams (while recording: 90 main streams)

RECORDING

Recording Mode	Continuous, Schedule, Panic, Triggered: manually, by alarm input, motion detection, video analysis, POS, temperature alarm
Schedule	individual settings for: each camera, each day of the week, specific days (holidays etc.), configuration with an accuracy of: 15 min, possibility of combining individual recording modes
Prealarm/Postalarm	Up to: 30s / Up to: 600s

PLAYBACK

Recorded Data Search	By Date/Time, Events, "Text-in", Image Analysis Events
----------------------	--

BACKUP

Backup Methods	USB port (HDD or Flash drive), Network
Backup File Format	JPEG, BMP, AVI, NMS

HDD

Internal storage for system	1 x SSD NVMe
Internal Storage for Recording	12 x 10TB SAS 3,5" 10TB surveillance grade server storage media
RAID Redundancy	RAID types: RAID 0, RAID 1, RAID 5, RAID 6

ALARMS

Alarm Input/output in cameras	support of alarm input and output built in cameras
Motion detection	support of motion detection built in cameras
Video Analytics	supported built in analytics in camera
Temperature alarm	support of temperature alarm built in cameras
Licence plate recognition (LPR)	support of selected image analysis functions available in the camera

NETWORK

Network Interface	2 x Ethernet - RJ45 interface, 10/100/1000 Mbit/s
Network Throughput	up to 450Mbit/s from all cameras • up to 450Mbit/s to all client stations • Max network throughput: 450Mbit/s for each network card
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DNS, DDNS, NTP, RTSP, SAMBA
Compatible Mobile Applications	NMS Mobile

PTZ

PTZ Functions	pan, tilt, zoom, preset commands, patterns, tours, auto-scans, focus, iris
---------------	--

ADDITIONAL INTERFACES

USB Ports	4 x USB 3.2 • 2 x USB 2.0
-----------	---------------------------

NMS IP Recorder NMS NVR X-2U-III-120TB

OPERATING SYSTEM

Operating System	Microsoft Windows 10 IoT
Recording and Surveillance System	NMS (Novus Management System)
Additional Software	NMS, Internet Explorer
Operation Mode	Pentaplex
OSD	Polish, English, Russian, others
Control	PC mouse and keyboard (in-set included), DCZ keyboard
System Diagnostic	automatic control of: HDDs, Temperature, Fan, Network, Camera connection loss
Security	Password protection, IP filtering, MAC filtering, Limiting the number of connections

INTEGRATION

Integrated Devices	Novus IP Cameras, Novus IP Recorders, Novus AHD Recorders, NMS-ANPR Software, DSC Systems, POS Systems (Posnet, Upos and other), ONVIF Devices, RTSP Devices
--------------------	--

INSTALLATION PARAMETERS

Dimensions	437mm (W) x 89mm(H) x 648mm (D)
Weight	24 kg (with HDDs)
Power Supply	built in 2 x redundant power supply 230VAC input with 960W power each
Power consumption/heatprint	490W/400W (without HDD for recording)
Operating Temperature	5°C ~ 35°C
RACK Mount 19"	2U

Attention: To support more than 1 RTSP stream and 1 ONVIF stream you will need special licence key.

NMS IP Recorder NMS NVR X-2U-III-144TB

PRO SERIES

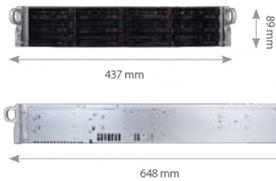


KEY FEATURES



- Video and audio channels: 200
- Supports resolution up to 4000 x 3000
- Recorded stream size: 450 Mb/s in total from all cameras
- Supports up to 3 monitors simultaneously
- Built-in HDDs: 12 x 12 TB server-dedicated SAS for 24/7 recording
- RAID controller protects recordings
- External arrays support
- Operating system: Microsoft Windows 10 IoT
- Recording and surveillance system: NMS (Novus Management System)
- Compatible with all NOVUS IP cameras
- Redundant PSUs: 2

DIMENSIONS



VIDEO

IP Camera Recording	160 channels at 1920x1080 (video+audio) using H.264 codec • 200 channels at 1920x1080 (video+audio) using H.265 codec
Maximum Supported Camera Resolution	4000x3000
Supported Codes	H.264, H.264+, H.265, H.265+, MJPEG
Supported Cameras and Protocols	Novus, Novus fisheye, ONVIF, ONVIF fisheye, RTSP, RTSP fisheye
Dualstreaming Support	yes

DISPLAY

Monitor Output	3 x Mini Display Port 1.2, (up to 3 monitors simultaneously)
Maximum Resolution	3 x 4K UltraHD

AUDIO

Audio Output	3 x Mini Display Port 1.2
--------------	---------------------------

PERFORMANCE - H.264

2MPX IP Camera	Recording up to: 160 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 160 main streams) • Playback up to: 8 main streams (while recording: 160 main streams)
4MPX IP Camera	Recording up to: 120 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 120 main streams) • Playback up to: 8 main streams (while recording: 120 main streams)
5MPX IP Camera	Recording up to: 100 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 100 main streams) • Playback up to: 8 main streams (while recording: 8 main streams)
8MPX IP Camera	Recording up to: 80 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 6 main streams (while recording: 80 main streams) • Playback up to: 6 main streams (while recording: 80 main streams)
12MPX IP Camera	Recording up to: 80 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 4 main streams (while recording: 80 main streams) • Playback up to: 4 main streams (while recording: 80 main streams)

PERFORMANCE - H.265

2MPX IP Camera	Recording up to: 200 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 200 main streams) • Playback up to: 8 main streams (while recording: 200 main streams)
4MPX IP Camera	Recording up to: 160 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 160 main streams) • Playback up to: 8 main streams (while recording: 160 main streams)

NMS IP Recorder

NMS NVR X-2U-III-144TB

5MPX IP Camera	Recording up to: 120 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 4 main streams (while recording: 120 main streams) • Playback up to: 4 main streams (while recording: 120 main streams)
8MPX IP Camera	Recording up to: 90 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 4 main streams (while recording: 90 main streams) • Playback up to: 4 main streams (while recording: 90 main streams)
12MPX IP Camera	Recording up to: 90 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 4 main streams (while recording: 90 main streams) • Playback up to: 4 main streams (while recording: 90 main streams)

RECORDING

Recording Mode	Continuous, Schedule, Panic, Triggered: manually, by alarm input, motion detection, video analysis, POS, temperature alarm
Schedule	individual settings for: each camera, each day of the week, specific days (holidays etc.), configuration with an accuracy of: 15 min, possibility of combining individual recording modes
Prealarm/Postalarm	Up to: 30s / Up to: 600s

PLAYBACK

Recorded Data Search	By Date/Time, Events, "Text-in", Image Analysis Events
----------------------	--

BACKUP

Backup Methods	USB port (HDD or Flash drive), Network
Backup File Format	JPEG, BMP, AVI, NMS

HDD

Internal storage for system	1 x SSD NVMe
Internal Storage for Recording	12 x 12TB SAS 3,5" 12TB surveillance grade server storage media
RAID Redundancy	RAID types: RAID 0, RAID 1, RAID 5, RAID 6

ALARMS

Alarm Input/output in cameras	support of alarm input and output built in cameras
Motion detection	support of motion detection built in cameras
Video Analytics	supported built in analytics in camera
Temperature alarm	support of temperature alarm built in cameras
Licence plate recognition (LPR)	support of selected image analysis functions available in the camera

NETWORK

Network Interface	2 x Ethernet - RJ45 interface, 10/100/1000 Mbit/s
Network Throughput	up to 450Mbit/s from all cameras • up to 450Mbit/s to all client stations • Max network throughput: 450Mbit/s for each network card
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DNS, DDNS, NTP, RTSP, SAMBA
Compatible Mobile Applications	NMS Mobile

PTZ

PTZ Functions	pan, tilt, zoom, preset commands, patterns, tours, auto-scans, focus, iris
---------------	--

ADDITIONAL INTERFACES

USB Ports	4 x USB 3.2 • 2 x USB 2.0
-----------	---------------------------

NMS IP Recorder NMS NVR X-2U-III-144TB

OPERATING SYSTEM

Operating System	Microsoft Windows 10 IoT
Recording and Surveillance System	NMS (Novus Management System)
Additional Software	NMS, Internet Explorer
Operation Mode	Pentaplex
OSD	Polish, English, Russian, others
Control	PC mouse and keyboard (in-set included), DCZ keyboard
System Diagnostic	automatic control of: HDDs, Temperature, Fan, Network, Camera connection loss
Security	Password protection, IP filtering, MAC filtering, Limiting the number of connections

INTEGRATION

Integrated Devices	Novus IP Cameras, Novus IP Recorders, Novus AHD Recorders, NMS-ANPR Software, DSC Systems, POS Systems (Posnet, Upos and other), ONVIF Devices, RTSP Devices
--------------------	--

INSTALLATION PARAMETERS

Dimensions	437mm (W) x 89mm(H) x 648mm (D)
Weight	24 kg (with HDDs)
Power Supply	built in 2 x redundant power supply 230VAC input with 960W power each
Power consumption/heatprint	490W/400W (without HDD for recording)
Operating Temperature	5°C ~ 35°C
RACK Mount 19"	2U

Attention: To support more than 1 RTSP stream and 1 ONVIF stream you will need special licence key.

NMS IP Recorder NMS NVR X-2U-III-168TB



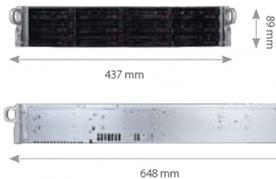
PRO SERIES

KEY FEATURES



- Video and audio channels: 200
- Supports resolution up to 4000 x 3000
- Recorded stream size: 450 Mb/s in total from all cameras
- Supports up to 3 monitors simultaneously
- Built-in HDDs: 12 x 14 TB server-dedicated SAS for 24/7 recording
- RAID controller protects recordings
- External arrays support
- Operating system: Microsoft Windows 10 IoT
- Recording and surveillance system: NMS (Novus Management System)
- Compatible with all NOVUS IP cameras
- Redundant PSUs: 2

DIMENSIONS



VIDEO

IP Camera Recording	160 channels at 1920x1080 (video+audio) using H.264 codec • 200 channels at 1920x1080 (video+audio) using H.265 codec
Maximum Supported Camera Resolution	4000x3000
Supported Codes	H.264, H.264+, H.265, H.265+, MJPEG
Supported Cameras and Protocols	Novus, Novus fisheye, ONVIF, ONVIF fisheye, RTSP, RTSP fisheye
Dualstreaming Support	yes

DISPLAY

Monitor Output	3 x Mini Display Port 1.2, (up to 3 monitors simultaneously)
Maximum Resolution	3 x 4K UltraHD

AUDIO

Audio Output	3 x Mini Display Port 1.2
--------------	---------------------------

PERFORMANCE - H.264

2MPX IP Camera	Recording up to: 160 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 160 main streams) • Playback up to: 8 main streams (while recording: 160 main streams)
4MPX IP Camera	Recording up to: 120 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 120 main streams) • Playback up to: 8 main streams (while recording: 120 main streams)
5MPX IP Camera	Recording up to: 100 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 100 main streams) • Playback up to: 8 main streams (while recording: 8 main streams)
8MPX IP Camera	Recording up to: 80 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 6 main streams (while recording: 80 main streams) • Playback up to: 6 main streams (while recording: 80 main streams)
12MPX IP Camera	Recording up to: 80 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 4 main streams (while recording: 80 main streams) • Playback up to: 4 main streams (while recording: 80 main streams)

PERFORMANCE - H.265

2MPX IP Camera	Recording up to: 200 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 200 main streams) • Playback up to: 8 main streams (while recording: 200 main streams)
4MPX IP Camera	Recording up to: 160 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 160 main streams) • Playback up to: 8 main streams (while recording: 160 main streams)

NMS IP Recorder

NMS NVR X-2U-III-168TB

5MPX IP Camera	Recording up to: 120 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 4 main streams (while recording: 120 main streams) • Playback up to: 4 main streams (while recording: 120 main streams)
8MPX IP Camera	Recording up to: 90 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 4 main streams (while recording: 90 main streams) • Playback up to: 4 main streams (while recording: 90 main streams)
12MPX IP Camera	Recording up to: 90 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 4 main streams (while recording: 90 main streams) • Playback up to: 4 main streams (while recording: 90 main streams)

RECORDING

Recording Mode	Continuous, Schedule, Panic, Triggered: manually, by alarm input, motion detection, video analysis, POS, temperature alarm
Schedule	individual settings for: each camera, each day of the week, specific days (holidays etc.), configuration with an accuracy of: 15 min, possibility of combining individual recording modes
Prealarm/Postalarm	Up to: 30s / Up to: 600s

PLAYBACK

Recorded Data Search	By Date/Time, Events, "Text-in", Image Analysis Events
----------------------	--

BACKUP

Backup Methods	USB port (HDD or Flash drive), Network
Backup File Format	JPEG, BMP, AVI, NMS

HDD

Internal storage for system	1 x SSD NVMe
Internal Storage for Recording	12 x 14TB SAS 3,5" 14TB surveillance grade server storage media
RAID Redundancy	RAID types: RAID 0, RAID 1, RAID 5, RAID 6

ALARMS

Alarm Input/output in cameras	support of alarm input and output built in cameras
Motion detection	support of motion detection built in cameras
Video Analytics	supported built in analytics in camera
Temperature alarm	support of temperature alarm built in cameras
Licence plate recognition (LPR)	support of selected image analysis functions available in the camera

NETWORK

Network Interface	2 x Ethernet - RJ45 interface, 10/100/1000 Mbit/s
Network Throughput	up to 450Mbit/s from all cameras • up to 450Mbit/s to all client stations • Max network throughput: 450Mbit/s for each network card
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DNS, DDNS, NTP, RTSP, SAMBA
Compatible Mobile Applications	NMS Mobile

PTZ

PTZ Functions	pan, tilt, zoom, preset commands, patterns, tours, auto-scans, focus, iris
---------------	--

ADDITIONAL INTERFACES

USB Ports	4 x USB 3.2 • 2 x USB 2.0
-----------	---------------------------

NMS IP Recorder

NMS NVR X-2U-III-168TB

OPERATING SYSTEM

Operating System	Microsoft Windows 10 IoT
Recording and Surveillance System	NMS (Novus Management System)
Additional Software	NMS, Internet Explorer
Operation Mode	Pentaplex
OSD	Polish, English, Russian, others
Control	PC mouse and keyboard (in-set included), DCZ keyboard
System Diagnostic	automatic control of: HDDs, Temperature, Fan, Network, Camera connection loss
Security	Password protection, IP filtering, MAC filtering, Limiting the number of connections

INTEGRATION

Integrated Devices	Novus IP Cameras, Novus IP Recorders, Novus AHD Recorders, NMS-ANPR Software, DSC Systems, POS Systems (Posnet, Upos and other), ONVIF Devices, RTSP Devices
--------------------	--

INSTALLATION PARAMETERS

Dimensions	437mm (W) x 89mm(H) x 648mm (D)
Weight	24 kg (with HDDs)
Power Supply	built in 2 x redundant power supply 230VAC input with 960W power each
Power consumption/heatprint	490W/400W (without HDD for recording)
Operating Temperature	5°C ~ 35°C
RACK Mount 19"	2U

Attention: To support more than 1 RTSP stream and 1 ONVIF stream you will need special licence key.

NMS IP Recorder NMS NVR X-2U-III-192TB



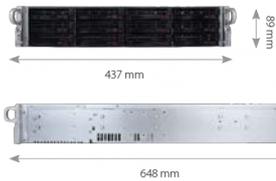
PRO SERIES

KEY FEATURES



- Video and audio channels: 200
- Supports resolution up to 4000 x 3000
- Recorded stream size: 450 Mb/s in total from all cameras
- Supports up to 3 monitors simultaneously
- Built-in HDDs: 12 x 16 TB server-dedicated SAS for 24/7 recording
- RAID controller protects recordings
- External arrays support
- Operating system: Microsoft Windows 10 IoT
- Recording and surveillance system: NMS (Novus Management System)
- Compatible with all NOVUS IP cameras
- Redundant PSUs: 2

DIMENSIONS



VIDEO

IP Camera Recording	160 channels at 1920x1080 (video+audio) using H.264 codec • 200 channels at 1920x1080 (video+audio) using H.265 codec
Maximum Supported Camera Resolution	4000x3000
Supported Codes	H.264, H.264+, H.265, H.265+, MJPEG
Supported Cameras and Protocols	Novus, Novus fisheye, ONVIF, ONVIF fisheye, RTSP, RTSP fisheye
Dualstreaming Support	yes

DISPLAY

Monitor Output	3 x Mini Display Port 1.2, (up to 3 monitors simultaneously)
Maximum Resolution	3 x 4K UltraHD

AUDIO

Audio Output	3 x Mini Display Port 1.2
--------------	---------------------------

PERFORMANCE - H.264

2MPX IP Camera	Recording up to: 160 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 160 main streams) • Playback up to: 8 main streams (while recording: 160 main streams)
4MPX IP Camera	Recording up to: 120 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 120 main streams) • Playback up to: 8 main streams (while recording: 120 main streams)
5MPX IP Camera	Recording up to: 100 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 100 main streams) • Playback up to: 8 main streams (while recording: 8 main streams)
8MPX IP Camera	Recording up to: 80 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 6 main streams (while recording: 80 main streams) • Playback up to: 6 main streams (while recording: 80 main streams)
12MPX IP Camera	Recording up to: 80 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 4 main streams (while recording: 80 main streams) • Playback up to: 4 main streams (while recording: 80 main streams)

PERFORMANCE - H.265

2MPX IP Camera	Recording up to: 200 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 200 main streams) • Playback up to: 8 main streams (while recording: 200 main streams)
4MPX IP Camera	Recording up to: 160 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 160 main streams) • Playback up to: 8 main streams (while recording: 160 main streams)

NMS IP Recorder

NMS NVR X-2U-III-192TB

5MPX IP Camera	Recording up to: 120 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 4 main streams (while recording: 120 main streams) • Playback up to: 4 main streams (while recording: 120 main streams)
8MPX IP Camera	Recording up to: 90 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 4 main streams (while recording: 90 main streams) • Playback up to: 4 main streams (while recording: 90 main streams)
12MPX IP Camera	Recording up to: 90 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 4 main streams (while recording: 90 main streams) • Playback up to: 4 main streams (while recording: 90 main streams)

RECORDING

Recording Mode	Continuous, Schedule, Panic, Triggered: manually, by alarm input, motion detection, video analysis, POS, temperature alarm
Schedule	individual settings for: each camera, each day of the week, specific days (holidays etc.), configuration with an accuracy of: 15 min, possibility of combining individual recording modes
Prealarm/Postalarm	Up to: 30s / Up to: 600s

PLAYBACK

Recorded Data Search	By Date/Time, Events, "Text-in", Image Analysis Events
----------------------	--

BACKUP

Backup Methods	USB port (HDD or Flash drive), Network
Backup File Format	JPEG, BMP, AVI, NMS

HDD

Internal storage for system	1 x SSD NVMe
Internal Storage for Recording	12 x 16TB SAS 3,5" 16TB surveillance grade server storage media
RAID Redundancy	RAID types: RAID 0, RAID 1, RAID 5, RAID 6

ALARMS

Alarm Input/output in cameras	support of alarm input and output built in cameras
Motion detection	support of motion detection built in cameras
Video Analytics	supported built in analytics in camera
Temperature alarm	support of temperature alarm built in cameras
Licence plate recognition (LPR)	support of selected image analysis functions available in the camera

NETWORK

Network Interface	2 x Ethernet - RJ45 interface, 10/100/1000 Mbit/s
Network Throughput	up to 450Mbit/s from all cameras • up to 450Mbit/s to all client stations • Max network throughput: 450Mbit/s for each network card
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DNS, DDNS, NTP, RTSP, SAMBA
Compatible Mobile Applications	NMS Mobile

PTZ

PTZ Functions	pan, tilt, zoom, preset commands, patterns, tours, auto-scans, focus, iris
---------------	--

ADDITIONAL INTERFACES

USB Ports	4 x USB 3.2 • 2 x USB 2.0
-----------	---------------------------

NMS IP Recorder

NMS NVR X-2U-III-192TB

OPERATING SYSTEM

Operating System	Microsoft Windows 10 IoT
Recording and Surveillance System	NMS (Novus Management System)
Additional Software	NMS, Internet Explorer
Operation Mode	Pentaplex
OSD	Polish, English, Russian, others
Control	PC mouse and keyboard (in-set included), DCZ keyboard
System Diagnostic	automatic control of: HDDs, Temperature, Fan, Network, Camera connection loss
Security	Password protection, IP filtering, MAC filtering, Limiting the number of connections

INTEGRATION

Integrated Devices	Novus IP Cameras, Novus IP Recorders, Novus AHD Recorders, NMS-ANPR Software, DSC Systems, POS Systems (Posnet, Upos and other), ONVIF Devices, RTSP Devices
--------------------	--

INSTALLATION PARAMETERS

Dimensions	437mm (W) x 89mm(H) x 648mm (D)
Weight	24 kg (with HDDs)
Power Supply	built in 2 x redundant power supply 230VAC input with 960W power each
Power consumption/heatprint	490W/400W (without HDD for recording)
Operating Temperature	5°C ~ 35°C
RACK Mount 19"	2U

Attention: To support more than 1 RTSP stream and 1 ONVIF stream you will need special licence key.

NMS IP Recorder

NMS NVR X-2U-III-216TB



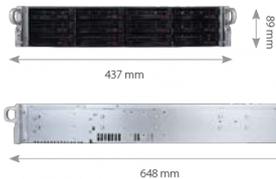
PRO SERIES

KEY FEATURES



- Video and audio channels: 200
- Supports resolution up to 4000 x 3000
- Recorded stream size: 450 Mb/s in total from all cameras
- Supports up to 3 monitors simultaneously
- Built-in HDDs: 12 x 18 TB server-dedicated SAS for 24/7 recording
- RAID controller protects recordings
- External arrays support
- Operating system: Microsoft Windows 10 IoT
- Recording and surveillance system: NMS (Novus Management System)
- Compatible with all NOVUS IP cameras
- Redundant PSUs: 2

DIMENSIONS



VIDEO

IP Camera Recording	160 channels at 1920x1080 (video+audio) using H.264 codec • 200 channels at 1920x1080 (video+audio) using H.265 codec
Maximum Supported Camera Resolution	4000x3000
Supported Codes	H.264, H.264+, H.265, H.265+, MJPEG
Supported Cameras and Protocols	Novus, Novus fisheye, ONVIF, ONVIF fisheye, RTSP, RTSP fisheye
Dualstreaming Support	yes

DISPLAY

Monitor Output	3 x Mini Display Port 1.2, (up to 3 monitors simultaneously)
Maximum Resolution	3 x 4K UltraHD

AUDIO

Audio Output	3 x Mini Display Port 1.2
--------------	---------------------------

PERFORMANCE - H.264

2MPX IP Camera	Recording up to: 160 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 160 main streams) • Playback up to: 8 main streams (while recording: 160 main streams)
4MPX IP Camera	Recording up to: 120 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 120 main streams) • Playback up to: 8 main streams (while recording: 120 main streams)
5MPX IP Camera	Recording up to: 100 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 100 main streams) • Playback up to: 8 main streams (while recording: 8 main streams)
8MPX IP Camera	Recording up to: 80 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 6 main streams (while recording: 80 main streams) • Playback up to: 6 main streams (while recording: 80 main streams)
12MPX IP Camera	Recording up to: 80 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 4 main streams (while recording: 80 main streams) • Playback up to: 4 main streams (while recording: 80 main streams)

PERFORMANCE - H.265

2MPX IP Camera	Recording up to: 200 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 200 main streams) • Playback up to: 8 main streams (while recording: 200 main streams)
4MPX IP Camera	Recording up to: 160 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 160 main streams) • Playback up to: 8 main streams (while recording: 160 main streams)

NMS IP Recorder

NMS NVR X-2U-III-216TB

5MPX IP Camera	Recording up to: 120 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 4 main streams (while recording: 120 main streams) • Playback up to: 4 main streams (while recording: 120 main streams)
8MPX IP Camera	Recording up to: 90 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 4 main streams (while recording: 90 main streams) • Playback up to: 4 main streams (while recording: 90 main streams)
12MPX IP Camera	Recording up to: 90 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 4 main streams (while recording: 90 main streams) • Playback up to: 4 main streams (while recording: 90 main streams)

RECORDING

Recording Mode	Continuous, Schedule, Panic, Triggered: manually, by alarm input, motion detection, video analysis, POS, temperature alarm
Schedule	individual settings for: each camera, each day of the week, specific days (holidays etc.), configuration with an accuracy of: 15 min, possibility of combining individual recording modes
Prealarm/Postalarm	Up to: 30s / Up to: 600s

PLAYBACK

Recorded Data Search	By Date/Time, Events, "Text-in", Image Analysis Events
----------------------	--

BACKUP

Backup Methods	USB port (HDD or Flash drive), Network
Backup File Format	JPEG, BMP, AVI, NMS

HDD

Internal storage for system	1 x SSD NVMe
Internal Storage for Recording	12 x 18TB SAS 3,5" 18TB surveillance grade server storage media
RAID Redundancy	RAID types: RAID 0, RAID 1, RAID 5, RAID 6

ALARMS

Alarm Input/output in cameras	support of alarm input and output built in cameras
Motion detection	support of motion detection built in cameras
Video Analytics	supported built in analytics in camera
Temperature alarm	support of temperature alarm built in cameras
Licence plate recognition (LPR)	support of selected image analysis functions available in the camera

NETWORK

Network Interface	2 x Ethernet - RJ45 interface, 10/100/1000 Mbit/s
Network Throughput	up to 450Mbit/s from all cameras • up to 450Mbit/s to all client stations • Max network throughput: 450Mbit/s for each network card
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DNS, DDNS, NTP, RTSP, SAMBA
Compatible Mobile Applications	NMS Mobile

PTZ

PTZ Functions	pan, tilt, zoom, preset commands, patterns, tours, auto-scans, focus, iris
---------------	--

ADDITIONAL INTERFACES

USB Ports	4 x USB 3.2 • 2 x USB 2.0
-----------	---------------------------

NMS IP Recorder NMS NVR X-2U-III-216TB

OPERATING SYSTEM

Operating System	Microsoft Windows 10 IoT
Recording and Surveillance System	NMS (Novus Management System)
Additional Software	NMS, Internet Explorer
Operation Mode	Pentaplex
OSD	Polish, English, Russian, others
Control	PC mouse and keyboard (in-set included), DCZ keyboard
System Diagnostic	automatic control of: HDDs, Temperature, Fan, Network, Camera connection loss
Security	Password protection, IP filtering, MAC filtering, Limiting the number of connections

INTEGRATION

Integrated Devices	Novus IP Cameras, Novus IP Recorders, Novus AHD Recorders, NMS-ANPR Software, DSC Systems, POS Systems (Posnet, Upos and other), ONVIF Devices, RTSP Devices
--------------------	--

INSTALLATION PARAMETERS

Dimensions	437mm (W) x 89mm(H) x 648mm (D)
Weight	24 kg (with HDDs)
Power Supply	built in 2 x redundant power supply 230VAC input with 960W power each
Power consumption/heatprint	490W/400W (without HDD for recording)
Operating Temperature	5°C ~ 35°C
RACK Mount 19"	2U

Attention: To support more than 1 RTSP stream and 1 ONVIF stream you will need special licence key.

NMS IP Recorder NMS NVR X-2U-III-240TB



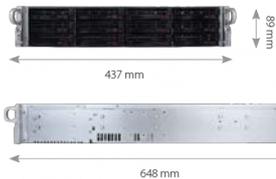
PRO SERIES

KEY FEATURES



- Video and audio channels: 200
- Supports resolution up to 4000 x 3000
- Recorded stream size: 450 Mb/s in total from all cameras
- Supports up to 3 monitors simultaneously
- Built-in HDDs: 12 x 20 TB server-dedicated SAS for 24/7 recording
- RAID controller protects recordings
- External arrays support
- Operating system: Microsoft Windows 10 IoT
- Recording and surveillance system: NMS (Novus Management System)
- Compatible with all NOVUS IP cameras
- Redundant PSUs: 2

DIMENSIONS



VIDEO

IP Camera Recording	160 channels at 1920x1080 (video+audio) using H.264 codec • 200 channels at 1920x1080 (video+audio) using H.265 codec
Maximum Supported Camera Resolution	4000x3000
Supported Codes	H.264, H.264+, H.265, H.265+, MJPEG
Supported Cameras and Protocols	Novus, Novus fisheye, ONVIF, ONVIF fisheye, RTSP, RTSP fisheye
Dualstreaming Support	yes

DISPLAY

Monitor Output	3 x Mini Display Port 1.2, (up to 3 monitors simultaneously)
Maximum Resolution	3 x 4K UltraHD

AUDIO

Audio Output	3 x Mini Display Port 1.2
--------------	---------------------------

PERFORMANCE - H.264

2MPX IP Camera	Recording up to: 160 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 160 main streams) • Playback up to: 8 main streams (while recording: 160 main streams)
4MPX IP Camera	Recording up to: 120 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 120 main streams) • Playback up to: 8 main streams (while recording: 120 main streams)
5MPX IP Camera	Recording up to: 100 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 100 main streams) • Playback up to: 8 main streams (while recording: 8 main streams)
8MPX IP Camera	Recording up to: 80 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 6 main streams (while recording: 80 main streams) • Playback up to: 6 main streams (while recording: 80 main streams)
12MPX IP Camera	Recording up to: 80 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 4 main streams (while recording: 80 main streams) • Playback up to: 4 main streams (while recording: 80 main streams)

PERFORMANCE - H.265

2MPX IP Camera	Recording up to: 200 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 200 main streams) • Playback up to: 8 main streams (while recording: 200 main streams)
4MPX IP Camera	Recording up to: 160 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 8 main streams (while recording: 160 main streams) • Playback up to: 8 main streams (while recording: 160 main streams)

NMS IP Recorder

NMS NVR X-2U-III-240TB

5MPX IP Camera	Recording up to: 120 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 4 main streams (while recording: 120 main streams) • Playback up to: 4 main streams (while recording: 120 main streams)
8MPX IP Camera	Recording up to: 90 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 4 main streams (while recording: 90 main streams) • Playback up to: 4 main streams (while recording: 90 main streams)
12MPX IP Camera	Recording up to: 90 main streams (while displaying: 8 sub streams) • Display up to: 8 sub streams or 4 main streams (while recording: 90 main streams) • Playback up to: 4 main streams (while recording: 90 main streams)

RECORDING

Recording Mode	Continuous, Schedule, Panic, Triggered: manually, by alarm input, motion detection, video analysis, POS, temperature alarm
Schedule	individual settings for: each camera, each day of the week, specific days (holidays etc.), configuration with an accuracy of: 15 min, possibility of combining individual recording modes
Prealarm/Postalarm	Up to: 30s / Up to: 600s

PLAYBACK

Recorded Data Search	By Date/Time, Events, "Text-in", Image Analysis Events
----------------------	--

BACKUP

Backup Methods	USB port (HDD or Flash drive), Network
Backup File Format	JPEG, BMP, AVI, NMS

HDD

Internal storage for system	1 x SSD NVMe
Internal Storage for Recording	12 x 20TB SAS 3,5" 20TB surveillance grade server storage media
RAID Redundancy	RAID types: RAID 0, RAID 1, RAID 5, RAID 6

ALARMS

Alarm Input/output in cameras	support of alarm input and output built in cameras
Motion detection	support of motion detection built in cameras
Video Analytics	supported built in analytics in camera
Temperature alarm	support of temperature alarm built in cameras
Licence plate recognition (LPR)	support of selected image analysis functions available in the camera

NETWORK

Network Interface	2 x Ethernet - RJ45 interface, 10/100/1000 Mbit/s
Network Throughput	up to 450Mbit/s from all cameras • up to 450Mbit/s to all client stations • Max network throughput: 450Mbit/s for each network card
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DNS, DDNS, NTP, RTSP, SAMBA
Compatible Mobile Applications	NMS Mobile

PTZ

PTZ Functions	pan, tilt, zoom, preset commands, patterns, tours, auto-scans, focus, iris
---------------	--

ADDITIONAL INTERFACES

USB Ports	4 x USB 3.2 • 2 x USB 2.0
-----------	---------------------------

NMS IP Recorder

NMS NVR X-2U-III-240TB

OPERATING SYSTEM

Operating System	Microsoft Windows 10 IoT
Recording and Surveillance System	NMS (Novus Management System)
Additional Software	NMS, Internet Explorer
Operation Mode	Pentaplex
OSD	Polish, English, Russian, others
Control	PC mouse and keyboard (in-set included), DCZ keyboard
System Diagnostic	automatic control of: HDDs, Temperature, Fan, Network, Camera connection loss
Security	Password protection, IP filtering, MAC filtering, Limiting the number of connections

INTEGRATION

Integrated Devices	Novus IP Cameras, Novus IP Recorders, Novus AHD Recorders, NMS-ANPR Software, DSC Systems, POS Systems (Posnet, Upos and other), ONVIF Devices, RTSP Devices
--------------------	--

INSTALLATION PARAMETERS

Dimensions	437mm (W) x 89mm(H) x 648mm (D)
Weight	24 kg (with HDDs)
Power Supply	built in 2 x redundant power supply 230VAC input with 960W power each
Power consumption/heatprint	490W/400W (without HDD for recording)
Operating Temperature	5°C ~ 35°C
RACK Mount 19"	2U

Attention: To support more than 1 RTSP stream and 1 ONVIF stream you will need special licence key.

11

SOFTWARE FOR MONITORING VIDEO IP NMS



NMS licence for 4 x RTSP/HTTP channels

NMS - 4 x RTSP/HTTP



NMS licence dongle

A license in the form of a hardware USB key enabling connection of 4 devices following the RTSP/HTTP protocol to NMS NVR recorders and NMS software installed on a PC.

NMS licence for 8 x RTSP/HTTP channels

NMS - 8 x RTSP/HTTP



NMS licence dongle

A license in the form of a hardware USB key enabling connection of 8 devices following the RTSP/HTTP protocol to NMS NVR recorders and NMS software installed on a PC.

NMS licence for 16 x RTSP/HTTP channels

NMS - 16 x RTSP/HTTP

PRO SERIES



NMS licence dongle

A license in the form of a hardware USB key enabling connection of 16 devices following the RTSP/HTTP protocol to NMS NVR recorders and NMS software installed on a PC.

NMS licence for 4 x ONVIF channels

NMS - 4 x ONVIF



NMS licence dongle

A license in the form of a hardware USB key enabling connection of 4 devices following the ONVIF protocol to NMS NVR recorders and NMS software installed on a PC.

NMS licence for 8 x ONVIF channels

NMS - 8 x ONVIF



NMS licence dongle

A license in the form of a hardware USB key enabling connection of 8 devices following the ONVIF protocol to NMS NVR recorders and NMS software installed on a PC.

NMS licence for 16 x ONVIF channels

NMS - 16 x ONVIF

PRO SERIES



NMS licence dongle

A license in the form of a hardware USB key enabling connection of 16 devices following the ONVIF protocol to NMS NVR recorders and NMS software installed on a PC.

12

**NETWORK
SWITCHES**



AAT SYSTEMY BEZPIECZEŃSTWA sp. z o.o.
431 Pulawska St, 02-801 Warsaw, Poland, phone +48 22 546 05 46, fax +48 22 546 05 01
www.aat.pl

4-port PoE+ Switch NVS-3304SP



KEY FEATURES

- 4 x 100Mb/s PoE+
- 2 x 100Mb/s UPLINK

DIMENSIONS



GENERAL

Device Type PoE+ Switch

NETWORK

Ports	PoE+ Ports: 4 x 10Mb/s / 100Mb/s (at the same time the number of available ports on the PoE + mode, limited by capacity power supply) • UPLINK ports: 2 x 10Mb/s / 100Mb/s
PoE standards	IEEE802.3 af, IEEE802.3 at
PoE modes	Endspan (1,2+ / 3,6-)
Switching capacity	1.2 Gb/s
Protocols Support	IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-TX
MAC ADDRESS list	1K

FUNCTIONS

CCTV	Extended mode switch that increases transmission range and PoE up to 150 - 250m (Using 10 Mb/s bandwidth)
Additional operating modes	Extended
Surge protection	yes

INSTALLATION PARAMETERS

Case	Metal, color navy blue
Dimensions (mm)	102 (W) x 22 (H) x 75 (L)
Weight	300 g
Power Supply	53 VDC (power supply 100 ~ 240 VAC/53 VDC included)
Power Consumption	60 W
Power Efficiency	55 W for ports 1 to 4, up to 30 W for one port
Operating Temperature	0°C ~ 40°C
Relative humidity	0÷85% (non condensing)

Maximum ranges depend on cable quality, interference and camera model. The ranges were determined in laboratory conditions. For information on the exact ranges for a given camera connection and switches please contact support or perform tests in the real environment of the future operation of the devices.

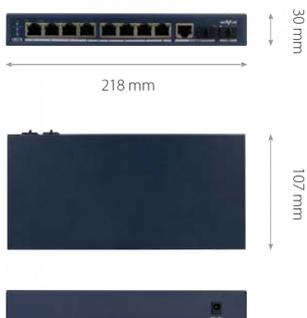
8-port PoE+ Switch NVS-3208SP



KEY FEATURES

- 8 x 100Mb/s PoE+
- 1 x 1000Mb/s UPLINK, 2 x 1000Mb/s SFP UPLINK

DIMENSIONS



GENERAL

Device Type PoE+ Switch

NETWORK

Ports	PoE+ Ports: 8 x 10Mb/s / 100Mb/s (at the same time the number of available ports on the PoE + mode, limited by capacity power supply) • Optical UPLINK ports: 1 x SFP • Uplink Combo x 1 :SFP(1Gb/s) + RJ45(1Gb/s)
PoE standards	IEEE802.3 af, IEEE802.3 at
PoE modes	Endspan (1,2+ / 3,6-)
Switching capacity	5.6 Gb/s
Protocols Support	IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-TX, IEEE 802.3x
MAC ADDRESS list	4K

INSTALLATION PARAMETERS

Case	Metal, color navy blue
Dimensions (mm)	218 (W) x 30 (H) x 107 (L)
Weight	600 g
Power Supply	53 VDC (power supply 100 ~ 240 VAC/53 VDC included)
Power Consumption	120 W
Power Efficiency	115 W for ports 1 to 8, up to 30 W for one port
Operating Temperature	0°C ~ 40°C

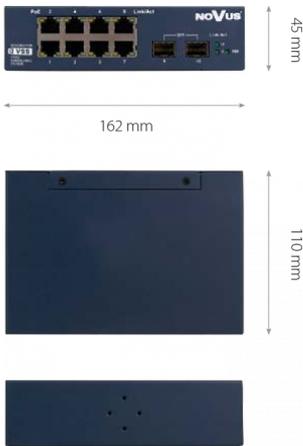
Hardened 8-port PoE+ Switch NVS-3208SP-EH



KEY FEATURES

- 8 x 100Mb/s PoE+
- 2 x 1000Mb/s SFP UPLINK
- Operating temperature: -40°C ÷ 70°C

DIMENSIONS



GENERAL

Device Type Hardened PoE+ switch

NETWORK

Ports	PoE+ Ports: 8 x 10Mb/s / 100Mb/s (at the same time the number of available ports on the PoE + mode, limited by capacity power supply) • Optical UPLINK ports: 2 x SFP
PoE standards	IEEE802.3 af, IEEE802.3 at
PoE modes	Endspan (1,2+ / 3,6-)
Switching capacity	5.6 Gb/s
Protocols Support	IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-TX, IEEE 802.3x
MAC ADDRESS list	4K

INSTALLATION PARAMETERS

Case	Metal, color navy blue, enclosure with possibility to mount on DIN TH35 rail
Dimensions (mm)	162 (W) x 110 (H) x 45 (L)
Weight	700 g
Power Supply	48 VDC (power supply 100 ~ 240 VAC/48 VDC Included)
Power Consumption	144 W
Power Efficiency	130 W for ports 1 to 8, up to 30 W for one port
Operating Temperature	-40°C ~ 70°C

8-port PoE+ Switch NVS-3308SP



KEY FEATURES

- 8 x 100Mb/s PoE+
- 2 x 1000Mb/s UPLINK, 2 x 1000Mb/s SFP UPLINK

DIMENSIONS



GENERAL

Device Type PoE+ Switch

NETWORK

Ports	PoE+ Ports: 8 x 10Mb/s / 100Mb/s (at the same time the number of available ports on the PoE + mode, limited by capacity power supply) • Uplink Combo x 2 :SFP(1Gb/s) + RJ45(1Gb/s)
PoE standards	IEEE802.3 af, IEEE802.3 at
PoE modes	Endspan (1,2+ / 3,6-)
Switching capacity	5.6 Gb/s
Protocols Support	IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-TX, IEEE 802.3ab 1000BASE-T, IEEE 802.3z 1000BASE-SX\LX
MAC ADDRESS list	4K

FUNCTIONS

CCTV	Extended mode switch that increases transmission range and PoE up to 150 - 250m (Using 10 Mb/s bandwidth)
Additional operating modes	VLAN, Extended

INSTALLATION PARAMETERS

RACK Mount 19"	1U
Case	Metal, color navy blue
Dimensions (mm)	270 (W) x 44 (H) x 180 (L)
Weight	1.2 kg
Power Supply	100 ~ 240 VAC, 50/60Hz
Power Consumption	130 W
Power Efficiency	120 W for ports 1 to 8, up to 30 W for one port
Operating Temperature	0°C ~ 40°C

8-port PoE + switch with the possibility of mounting on a DIN rail

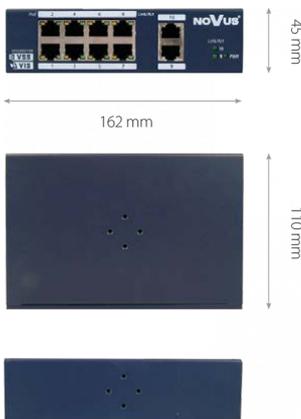
NVS-3308SP-DIN



KEY FEATURES

- 8 x 100Mb/s PoE+
- 2 x 1000Mb/s UPLINK
- Operating temperature: 0°C ÷ 40°C

DIMENSIONS



GENERAL

Device Type PoE+ Switch

NETWORK

Ports	PoE+ Ports: 8 x 10Mb/s / 100Mb/s (at the same time the number of available ports on the PoE + mode, limited by capacity power supply) • Ports RJ-45 UPLINK 1Gb/s: 2
PoE standards	IEEE802.3 af, IEEE802.3 at
PoE modes	Endspan (1,2+ / 3,6-)
Switching capacity	5.6 Gb/s
Protocols Support	IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-TX, IEEE 802.3x
MAC ADDRESS list	4K

INSTALLATION PARAMETERS

Case	Metal, color navy blue, enclosure with possibility to mount on DIN TH35 rail
Dimensions (mm)	162 (W) x 110 (H) x 45 (L)
Weight	700 g
Power Supply	48 - 56VDC
Power Consumption	120 W
Power Efficiency	114 W for ports 1 to 8, up to 30 W for one port
Operating Temperature	0°C ~ 40°C

Note that for the device to work properly, you need to buy a power supply with parameters in accordance with the specification.

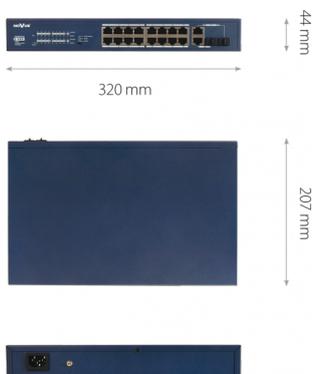
16-port PoE+ Switch NVS-3316SP



KEY FEATURES

- 16 x 100Mb/s PoE+
- 2 x 1000Mb/s UPLINK, 2 x 1000Mb/s SFP UPLINK

DIMENSIONS



GENERAL

Device Type PoE+ Switch

NETWORK

Ports	PoE+ Ports: 16 x 10Mb/s / 100Mb/s (the number of ports simultaneously operating with PoE + mode is limited by PoE budget) • Uplink Combo x 2 :SFP(1Gb/s) + RJ45(1Gb/s)
PoE standards	IEEE802.3 af, IEEE802.3 at
PoE modes	Endspan (1,2+ / 3,6-)
Switching capacity	7.2 Gb/s
Protocols Support	IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-TX, IEEE 802.3ab 1000BASE-T, IEEE 802.3z 1000BASE-SX\LX
MAC ADDRESS list	16K

FUNCTIONS

CCTV	Extended mode switch that increases the data and power transmission distance up to 200m (Using 10 Mb/s bandwidth)
Additional operating modes	VLAN, Extended

INSTALLATION PARAMETERS

RACK Mount 19"	1U
Case	Metal, color navy blue
Dimensions (mm)	320 (W) x 44 (H) x 207 (L)
Weight	2.4 kg
Input Voltage	100 ~ 240 VAC, 50/60Hz
Power Consumption	210 W (maximum)
PoE Budget	200 W for ports 1 to 16, up to 30 W for one port
Operating Temperature	0°C ~ 40°C

16-port PoE+ Managed Switch NVS-5116SP



KEY FEATURES

- 16 x 100Mb/s PoE+
- 2 x 1000Mb/s UPLINK, 4 x 1000Mb/s SFP UPLINK
- Operating temperature: 0°C ÷ 40°C

DIMENSIONS



GENERAL

Device Type PoE+ Managed Switch

NETWORK

Ports	PoE+ Ports: 16 x 10Mb/s / 100Mb/s (at the same time the number of available ports on the PoE + mode, limited by capacity power supply) • UPLINK SFP port 1Gb/s x2 • Uplink Combo x 2 :SFP(1Gb/s) + RJ45(1Gb/s)
PoE standards	IEEE802.3 af, IEEE802.3 at
PoE modes	Endspan (1,2+ / 3,6-)
Switching capacity	11.2 Gb/s
Protocols Support	IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-TX, IEEE 802.3ab 1000BASE-T, IEEE 802.3z 1000BASE-SX/LX, IEEE 802.3x, IEEE 802.1p CoS, IEEE 802.1D spanning tree protocol, IEEE 802.1s multiple tree protocol, IEEE 802.1ad LACP aggregation, IEEE 802.1Q VLAN tagging
Additional network features	VLAN, IGMP snooping, bandwidth management
QoS support	yes
CoS support	yes
Jumbo frame (bytes)	2K
MAC ADDRESS list	8K

FUNCTIONS

Buttons	1 button to device reset
Surge protection	yes

INSTALLATION PARAMETERS

RACK Mount 19"	1U
Case	Metal, color navy blue
Dimensions (mm)	200 (W) x 44 (H) x 440 (L)
Weight	2.9 kg
Power Supply	100 ~ 240 VAC, 50/60Hz
Power Consumption	270 W
Power Efficiency	250 W for ports 1 to 16, up to 30 W for one port
Operating Temperature	0°C ~ 40°C

The values was achieved in a test environment. In different environment this value can change due to interferences or influence of other devices.

24-port PoE+ Managed Switch NVS-5124SP



KEY FEATURES

- 24 x 100Mb/s PoE+
- 2 x 1000Mb/s UPLINK, 4 x 1000Mb/s SFP UPLINK
- Operating temperature: 0°C ÷ 40°C

DIMENSIONS



GENERAL

Device Type PoE+ Managed Switch

NETWORK

Ports	PoE+ Ports: 24 x 10Mb/s / 100Mb/s (at the same time the number of available ports on the PoE + mode, limited by capacity power supply) • UPLINK SFP port 1Gb/s x2 • Uplink Combo x 2 :SFP(1Gb/s) + RJ45(1Gb/s)
PoE standards	IEEE802.3 af, IEEE802.3 at
PoE modes	Endspan (1,2+ / 3,6-)
Switching capacity	12.8 Gb/s
Protocols Support	IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-TX, IEEE 802.3ab 1000BASE-T, IEEE 802.3z 1000BASE-SX\LX, IEEE 802.3x, IEEE 802.1p CoS, IEEE 802.1D spanning tree protocol, IEEE 802.1s multiple tree protocol, IEEE 802.1ad LACP aggregation, IEEE 802.1Q VLAN tagging
Additional network features	VLAN, IGMP snooping, bandwidth management
QoS support	yes
CoS support	yes
Jumbo frame (bytes)	2K
MAC ADDRESS list	8K

FUNCTIONS

Buttons	1 button to device reset
Surge protection	yes

INSTALLATION PARAMETERS

RACK Mount 19"	1U
Case	Metal, color navy blue
Dimensions (mm)	200 (W) x 44 (H) x 440 (L)
Weight	3.2 kg
Power Supply	100 ~ 240 VAC, 50/60Hz
Power Consumption	400 W
Power Efficiency	370 W for ports 1 to 24, up to 30 W for one port
Operating Temperature	0°C ~ 40°C

The values was achieved in a test environment. In different environment this value can change due to interferences or influence of other devices.

13

NETWORK ACCESSORIES



AAT SYSTEMY BEZPIECZEŃSTWA sp. z o.o.
431 Puławska St, 02-801 Warsaw, Poland, phone +48 22 546 05 46, fax +48 22 546 05 01
www.aat.pl

SFP Module NV-02SFP/S



KEY FEATURES

- 1 x 1000Mb/s LC

GENERAL

Device Type SFP Module

NETWORK

Speed transmission	1 Gb/s
Transmit Wavelength	1310 nm
Receiver Sensitivity	-24 dBm
Emission Light Power	-9 dBm ~ -3 dBm
Transmission medium	Single-Mode fiber 9/125 um
Connector type	Duplex LC(UPC)

INSTALLATION PARAMETERS

Dimensions (mm)	13.7 (W) x 56.6 (H) x 12.4 (L)
Weight	17 g
Operating Temperature	0°C ~ 70°C

SFP Module NV-03SFP/M



KEY FEATURES

- 1 x 1000Mb/s LC

GENERAL

Device Type SFP Module

NETWORK

Speed transmission	1 Gb/s
Transmit Wavelength	850 nm
Receiver Sensitivity	-24 dBm
Emission Light Power	-9 dBm ~ -3 dBm
Transmission medium	Multi-Mode fiber 50/125 um
Connector type	Duplex LC(UPC)

INSTALLATION PARAMETERS

Dimensions (mm)	13.7 (W) x 56.6 (H) x 12.4 (L)
Weight	17 g
Operating Temperature	0°C ~ 70°C

PoE Extender NV-101EP



KEY FEATURES

- 1 x 1000Mb/s PoE

DIMENSIONS



GENERAL

Device Type PoE Extender

NETWORK

PoE standards IEEE802.3 af, IEEE802.3 at

PoE modes Endspan (1,2+ / 3,6-)

Protocols Support IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-TX, IEEE 802.3ab 1000BASE-T

Transmission range The maximum transmission range using 1 x NVS-101EP is 200m, maximum power output: 25W • The maximum transmission range using 2 x NVS-101EP is 300m, maximum power output: 20W

Connector type Hermetic RJ45 connector

INSTALLATION PARAMETERS

Case Metal, color black

Dimensions (mm) 45 (W) x 45 (H) x 205 (L)

Weight 250 g

Power Supply 48 - 56VDC

Power Consumption 30 W

Power Efficiency 25 W

Operating Temperature -25°C ~ 55°C

Maximum ranges depend on cable quality, interference and camera model. The ranges were determined in laboratory conditions. For information on the exact ranges for a given camera connection and switches please contact support or perform tests in the real environment of the future operation of the devices.

PoE Injector

NV-8000PS/HP



KEY FEATURES

- 1 x 1000Mb/s High PoE

GENERAL

Device Type High PoE injector

NETWORK

Transmission Distance 1 ports in PoE mode: 100 m
PoE standards IEEE802.3 af, IEEE802.3 at
PoE modes Endspan (1,2+ / 3,6-), Midspan (4,5+ / 7,8-)
Surge protection Maximum voltage: 3kV

INSTALLATION PARAMETERS

Case Metal, color black
Dimensions (mm) 71 (W) x 37 (H) x 185 (L)
Weight 480 g
Power Supply 100 ~ 240 VAC, 50/60Hz
Power Consumption 64 W
Power Efficiency 60 W
Operating Temperature -20°C ~ 60°C
Connector Input: 1 x RJ45 / Output 1 x RJ45

Transmission distance values was achieved in a test environment. In different environment this value can change due to interferences or influence of other devices.

LOOK AT OUR YT CHANNEL  YouTube

SEE HOW OUR SOLUTIONS
WORK IN PRACTICE!



WWW.AAT.PL/YOUTUBE



USE OUR SPECIALISTS
KNOWLEDGE

ENTER AND SUBSCRIBE

www.aat.pl/youtube



AAT SYSTEMY BEZPIECZEŃSTWA sp. z o.o.

431 Pulawska St, 02-801 Warsaw, Poland, phone +48 22 546 05 46, fax +48 22 546 05 01

www.aat.pl



MULTISTANDARD SYSTEMS

AHD, CVI, TVI, 960H

D1

MULTISTANDARD CAMERAS



AAT SYSTEMY BEZPIECZEŃSTWA sp. z o.o.

431 Pulawska St, 02-801 Warsaw, Poland, phone +48 22 546 05 46, fax +48 22 546 05 01

www.aat.pl

Classic AHD Multistandard Camera NVAHD-2DN5100MC-1

5000
AHD SERIES



KEY FEATURES

MULTI
STANDARD



- D/N function - IR cut filter
- resolution 1080p
- multistandard: AHD, CVI, TVI, 960H
- Min. Illumination from 0.0001 lx

DIMENSIONS



IMAGE

Image Sensor	CMOS sensor 1/2.9" SONY
Operating mode	AHD 1080p, TVI 1080p, CVI 1080p, analog 960H
Number of Effective Pixels	1920 (H) x 1080 (V)
Resolution	1080p
Min. Illumination	0.1 lx/F1.4 - color mode • 0.05 lx/F1.4 - B/W mode • 0.005 lx/F1.4 - color mode (DSS) • 0.0001 lx/F1.4 - B/W mode (DSS)
S/N Ratio	> 52 dB (AGC off)
Electronic Shutter	auto/manual: 1/25 s ~ 1/50000 s (AHD),
Digital Slow Shutter (DSS)	up to 30x
High Light Compensation (HLC)	yes
Wide Dynamic Range (WDR)	yes
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes

LENS

Compatible Mount Type	C, CS
Iris Mode	D

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual
Switching Level Adjustment	yes
Switching Delay	0 ~ 60 s

OTHER FUNCTIONS

OSD	languages: Polish, English, Russian, others
Privacy Zones	4
Motion Detection	yes
Image Processing	180° image rotation, sharpening, mirror effect
Remote control	Yes (COAX protocol)

INTERFACES

Video Output	BNC, 1.0 Vp-p, 75 Ohm
--------------	-----------------------

INSTALLATION PARAMETERS

Dimensions (mm)	58 (W) x 62 (H) x 125 (L)
Weight	0.34 kg
Enclosure	aluminium, white



Classic AHD Multistandard Camera **NVAHD-2DN5100MC-1**

Power Supply	12 VDC
Power Consumption	1.1 W
Operating Temperature	-30°C ~ 40°C

* *Lens not included*



Classic AHD Multistandard Camera NVAHD-2DN5100MC-3

5000
AHD SERIES



KEY FEATURES

MULTI
STANDARD



- D/N function - IR cut filter
- resolution 1080p
- multistandard: AHD, CVI, TVI, 960H
- Min. Illumination from 0.0001 lx

DIMENSIONS



IMAGE

Image Sensor	CMOS sensor 1/2.9" SONY
Operating mode	AHD 1080p, TVI 1080p, CVI 1080p, analog 960H
Number of Effective Pixels	1920 (H) x 1080 (V)
Resolution	1080p
Min. Illumination	0.1 lx/F1.4 - color mode • 0.05 lx/F1.4 - B/W mode • 0.005 lx/F1.4 - color mode (DSS) • 0.0001 lx/F1.4 - B/W mode (DSS)
S/N Ratio	> 52 dB (AGC off)
Electronic Shutter	auto/manual: 1/25 s ~ 1/50000 s (AHD), 1/50 s ~ 1/50000 s (analog 960H)
Digital Slow Shutter (DSS)	up to 30x
High Light Compensation (HLC)	yes
Wide Dynamic Range (WDR)	yes
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes

LENS

Compatible Mount Type	C, CS
Iris Mode	D

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual
Switching Level Adjustment	yes
Switching Delay	0 ~ 60 s

OTHER FUNCTIONS

OSD	languages: Polish, English, Russian, others
Privacy Zones	4
Motion Detection	yes
Image Processing	180° image rotation, sharpening, mirror effect
Remote control	Yes (COAX protocol)

INTERFACES

Video Output	BNC, 1.0 Vp-p, 75 Ohm
--------------	-----------------------

INSTALLATION PARAMETERS

Dimensions (mm)	58 (W) x 62 (H) x 125 (L)
Weight	0.39 kg



Classic AHD Multistandard Camera **NVAHD-2DN5100MC-3**

Enclosure	aluminium, white
Power Supply	100 ~ 230 VAC
Power Consumption	2.3 W
Operating Temperature	-30°C ~ 40°C

** Remote controller type: NV-RCUTC-35HD / Lens not included*



Dome AHD Multistandard Camera NVAHD-2DN5102MD/IR-1

5000
AHD SERIES



KEY FEATURES



- D/N function - IR cut filter
- resolution 1080p
- Lens: varifocal, f=2.8 ~ 12 mm/F1.4
- Smart IR function
- Extended IR LED life
- multistandard: AHD, CVI, TVI, 960H
- Min. Illumination from 0.0001 lx (0 lx, IR on)
- IR LED, range up to 15 m

DIMENSIONS



IMAGE

Image Sensor	CMOS sensor 1/2.9" SONY
Operating mode	AHD 1080p, TVI 1080p, CVI 1080p, analog 960H
Number of Effective Pixels	1920 (H) x 1080 (V)
Resolution	1080p
Min. Illumination	0.1 lx/F1.4 - color mode • 0.05 lx/F1.4 - B/W mode • 0.005 lx/F1.4 - color mode (DSS) • 0.0001 lx/F1.4 - B/W mode (DSS) • 0 lx (IR on) - B/W mode
S/N Ratio	> 52 dB (AGC off)
Electronic Shutter	auto/manual: 1/25 s ~ 1/50000 s (AHD),
Digital Slow Shutter (DSS)	up to 30x
High Light Compensation (HLC)	yes
Wide Dynamic Range (WDR)	yes
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes

LENS

Lens Type	varifocal, f=2.8 ~ 12 mm/F1.4
-----------	-------------------------------

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual
Switching Level Adjustment	yes
Switching Delay	0 ~ 60 s
Visible Light Sensor	yes

OTHER FUNCTIONS

OSD	languages: Polish, English, Russian, others
Privacy Zones	4
Motion Detection	yes
Image Processing	180° image rotation, sharpening, mirror effect
Remote control	Yes (COAX protocol)

IR LED

LED Number	24
Range	15 m
Angle	120°

INTERFACES

Dome AHD Multistandard Camera NVAHD-2DN5102MD/IR-1

Video Output BNC, 1.0 Vp-p, 75 Ohm

INSTALLATION PARAMETERS

Dimensions (mm) 112 (Φ) x 87 (H)

Weight 0.17 kg

Enclosure plastic, white

Power Supply 12 VDC

Power Consumption 1 W • 2.7 W (IR on)

Operating Temperature -30°C ~ 40°C

** Note: UTC functionality available on cameras with serial numbers starting from: 150611xxxx
Remote controller type: NV-RCUTC-35HD*

Vandal Proof AHD Multistandard Camera NHDC-2VE-6101



6000 VSS MULTI HD

KEY FEATURES

**MULTI
STANDARD**



- D/N function - IR cut filter
- resolution 1080p
- Lens: fixed focal, f=2.8 mm/F2.2
- Smart IR function
- multistandard: AHD, CVI, TVI, 960H
- IR LED, range up to 30 m

DIMENSIONS



IMAGE

Image Sensor	CMOS sensor 1/2.7" SUPERPIX
Operating mode	AHD 1080p, AHD 720p, TVI 1080p, TVI 720p, CVI 1080p, CVI 720p, analog 960H
Number of Effective Pixels	1920 (H) x 1080 (V)
Resolution	1080p
Min. Illumination	0 lx (IR on) - B/W mode
S/N Ratio	> 52 dB (AGC off)
Electronic Shutter	auto/manual: 1/50 s ~ 1/100000 s
Wide Dynamic Range (WDR)	yes
Digital Noise Reduction (DNR)	2D

LENS

Lens Type	fixed focal, f=2.8 mm/F2.2
-----------	----------------------------

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual
Visible Light Sensor	yes

OTHER FUNCTIONS

OSD	languages: English, others
Image Processing	Defective Pixel Correction (DPC), sharpening
Remote control	Yes (COAX protocol)

IR LED

LED Number	1
Range	30 m
Smart IR	yes (software support)

INTERFACES

Video Output	BNC, 1.0 Vp-p, 75 Ohm
--------------	-----------------------

INSTALLATION PARAMETERS

Dimensions (mm)	95 (Ø) x 83 (H)
Weight	0.4 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	vandalproof aluminium, white
Power Supply	12 VDC



Vandal Proof AHD Multistandard Camera **NHDC-2VE-6101**

Power Consumption	1 W • 4 W (IR on)
Operating Temperature	-30°C ~ 50°C
Humidity	max. 90%, relative (non-condensing)



Vandal Proof AHD Multistandard Camera NHDC-2VE-6302



6000 VSS MULTI HD

KEY FEATURES

**MULTI
STANDARD**



- D/N function - IR cut filter
- resolution 1080p
- Lens: varifocal, f=2.8 ~ 12 mm/F1.4
- Smart IR function
- multistandard: AHD, CVI, TVI, 960H
- IR LED, range up to 50 m

DIMENSIONS



IMAGE

Image Sensor	CMOS sensor 1/2.9" SMARTSENS
Operating mode	AHD 1080p, AHD 720p, TVI 1080p, TVI 720p, CVI 1080p, CVI 720p, analog 960H
Number of Effective Pixels	1920 (H) x 1080 (V)
Resolution	1080p
Min. Illumination	0 lx (IR on) - B/W mode
S/N Ratio	> 52 dB (AGC off)
Electronic Shutter	auto/manual: 1/50 s ~ 1/100000 s
Wide Dynamic Range (WDR)	yes
Digital Noise Reduction (DNR)	2D, 3D

LENS

Lens Type	varifocal, f=2.8 ~ 12 mm/F1.4
-----------	-------------------------------

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual
Visible Light Sensor	yes

OTHER FUNCTIONS

OSD	languages: English, others
Image Processing	180° image rotation, sharpening
Remote control	Yes (COAX protocol)

IR LED

LED Number	2
Range	50 m

INTERFACES

Video Output	BNC, 1.0 Vp-p, 75 Ohm
--------------	-----------------------

INSTALLATION PARAMETERS

Dimensions (mm)	112 (Φ) x 100 (H)
Weight	0.62 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	vandalproof aluminium, white
Power Supply	12 VDC
Power Consumption	1 W • 4 W (IR on)



Vandal Proof AHD Multistandard Camera NHDC-2VE-6302

Operating Temperature	-30°C ~ 50°C
Humidity	max. 90%, relative (non-condensing)

** Note: UTC functionality available on cameras with serial numbers starting from: 150611xxxx
Remote controller type: NV-RCUTC-35HD*



Bullet AHD Multistandard Camera

NHDC-2H-6101

6000 VSS MULTI HD



KEY FEATURES



- D/N function - IR cut filter
- resolution 1080p
- Lens: fixed focal, f=2.8 mm/F2.2
- Smart IR function
- multistandard: AHD, CVI, TVI, 960H
- IR LED, range up to 30 m

DIMENSIONS



IMAGE

Image Sensor	CMOS sensor 1/2.7" SUPERPIX
Operating mode	AHD 1080p, AHD 720p, TVI 1080p, TVI 720p, CVI 1080p, CVI 720p, analog 960H
Number of Effective Pixels	1920 (H) x 1080 (V)
Resolution	1080p
Min. Illumination	0 lx (IR on) - B/W mode
S/N Ratio	> 52 dB (AGC off)
Electronic Shutter	auto/manual: 1/50 s ~ 1/100000 s
Wide Dynamic Range (WDR)	yes
Digital Noise Reduction (DNR)	2D

LENS

Lens Type	fixed focal, f=2.8 mm/F2.2
-----------	----------------------------

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual
Visible Light Sensor	yes

OTHER FUNCTIONS

OSD	languages: English, others
Image Processing	Defective Pixel Correction (DPC), sharpening
Remote control	Yes (COAX protocol)

IR LED

LED Number	1
Range	30 m
Smart IR	yes (software support)

INTERFACES

Video Output	BNC, 1.0 Vp-p, 75 Ohm
--------------	-----------------------

INSTALLATION PARAMETERS

Dimensions (mm)	with bracket: 75 (W) x 75 (H) x 170 (L)
Weight	0.37 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	aluminium, white, fully cable managed wall mount bracket in-set included
Power Supply	12 VDC



Bullet AHD Multistandard Camera NHDC-2H-6101

Power Consumption	1 W • 4 W (IR on)
Operating Temperature	-30°C ~ 50°C
Humidity	max. 90%, relative (non-condensing)



Bullet AHD Multistandard Camera

NHDC-2H-6101L



KEY FEATURES



- D/N function - IR cut filter
- resolution 1080p
- Lens: fixed focal, f=2.8 mm/F2.2
- Smart IR function
- multistandard: AHD, CVI, TVI, 960H
- IR LED, range up to 20 m

DIMENSIONS



IMAGE

Image Sensor	CMOS sensor 1/2.7" SUPERPIX
Operating mode	AHD 1080p, AHD 720p, TVI 1080p, TVI 720p, CVI 1080p, CVI 720p, analog 960H
Number of Effective Pixels	1920 (H) x 1080 (V)
Resolution	1080p
Min. Illumination	0 lx (IR on) - B/W mode
S/N Ratio	> 52 dB (AGC off)
Electronic Shutter	auto/manual: 1/50 s ~ 1/100000 s
Wide Dynamic Range (WDR)	yes
Digital Noise Reduction (DNR)	2D

LENS

Lens Type	fixed focal, f=2.8 mm/F2.2
-----------	----------------------------

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual
Visible Light Sensor	yes

OTHER FUNCTIONS

OSD	languages: English, others
Image Processing	Defective Pixel Correction (DPC), sharpening
Remote control	Yes (COAX protocol)

IR LED

LED Number	1
Range	20 m
Smart IR	yes (software support)

INTERFACES

Video Output	BNC, 1.0 Vp-p, 75 Ohm
--------------	-----------------------

INSTALLATION PARAMETERS

Dimensions (mm)	with bracket: 75 (W) x 75 (H) x 170 (L)
Weight	0.25 kg
Degree of Protection	IP 66 (details in the user's manual)
Enclosure	plastic, white, fully cable managed wall mount bracket in-set included
Power Supply	12 VDC



Bullet AHD Multistandard Camera NHDC-2H-6101L

Power Consumption	1 W • 4 W (IR on)
Operating Temperature	-30°C ~ 50°C
Humidity	max. 90%, relative (non-condensing)



Bullet AHD Multistandard Camera NHDC-2H-6302

6000 VSS MULTI HD



KEY FEATURES



- D/N function - IR cut filter
- resolution 1080p
- Lens: varifocal, f=2.8 ~ 12 mm/F1.4
- Smart IR function
- multistandard: AHD, CVI, TVI, 960H
- IR LED, range up to 50 m

DIMENSIONS



IMAGE

Image Sensor	CMOS sensor 1/2.9" SMARTSENS
Operating mode	AHD 1080p, AHD 720p, TVI 1080p, TVI 720p, CVI 1080p, CVI 720p, analog 960H
Number of Effective Pixels	1920 (H) x 1080 (V)
Resolution	1080p
Min. Illumination	0 lx (IR on) - B/W mode
S/N Ratio	> 52 dB (AGC off)
Electronic Shutter	auto/manual: 1/50 s ~ 1/100000 s
Wide Dynamic Range (WDR)	yes
Digital Noise Reduction (DNR)	2D, 3D

LENS

Lens Type	varifocal, f=2.8 ~ 12 mm/F1.4
-----------	-------------------------------

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual
Visible Light Sensor	yes

OTHER FUNCTIONS

OSD	languages: English, others
Image Processing	Defective Pixel Correction (DPC), sharpening
Remote control	Yes (COAX protocol)

IR LED

LED Number	2
Range	50 m
Smart IR	yes (software support)

INTERFACES

Video Output	BNC, 1.0 Vp-p, 75 Ohm
--------------	-----------------------

INSTALLATION PARAMETERS

Dimensions (mm)	with bracket: 81 (W) x 81 (H) x 220 (L)
Weight	0.61 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	aluminium, white, fully cable managed wall mount bracket in-set included
Power Supply	12 VDC



Bullet AHD Multistandard Camera NHDC-2H-6302

Power Consumption	1 W • 4 W (IR on)
Operating Temperature	-30°C ~ 50°C
Humidity	max. 90%, relative (non-condensing)



Vandal Proof AHD Multistandard Camera NHDC-5VE-5101



5000 VSS MULTI HD

KEY FEATURES

**MULTI
STANDARD**



- D/N function - IR cut filter
- resolution 5MPX
- Lens: fixed focal, f=3.6 mm/F2.0
- Smart IR function
- multistandard: AHD, CVI, TVI, 960H
- IR LED, range up to 15 m

DIMENSIONS



IMAGE

Image Sensor	CMOS sensor 1/2.9" SMARTSENS
Operating mode	AHD 1080p, TVI 1080p, CVI 1080p, analog 960H, AHD 4MPX, AHD 5MPX, TVI 4MPX, TVI 5MPX, CVI 4MPX
Number of Effective Pixels	2592 (H) x 1944 (V)
Resolution	5MPX
Min. Illumination	0 lx (IR on) - B/W mode
S/N Ratio	> 52 dB (AGC off)
Electronic Shutter	auto: 1/50 s ~ 1/100000 s
Wide Dynamic Range (WDR)	yes
Digital Noise Reduction (DNR)	2D

LENS

Lens Type	fixed focal, f=3.6 mm/F2.0
-----------	----------------------------

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual
Visible Light Sensor	yes

OTHER FUNCTIONS

OSD	languages: English, others
Image Processing	Defective Pixel Correction (DPC), sharpening
Remote control	Yes (COAX protocol)

IR LED

LED Number	18
Range	15 m
Smart IR	yes (software support)

INTERFACES

Video Output	BNC, 1.0 Vp-p, 75 Ohm
--------------	-----------------------

INSTALLATION PARAMETERS

Dimensions (mm)	94 (Φ) x 80 (H)
Weight	0.4 kg
Degree of Protection	IP 66 (details in the user's manual)
Enclosure	vandalproof aluminium, white
Power Supply	12 VDC



Vandal Proof AHD Multistandard Camera **NHDC-5VE-5101**

Power Consumption	2.5 W • 5.5 W (IR on)
Operating Temperature	-30°C ~ 40°C
Humidity	max. 90%, relative (non-condensing)



Vandal Proof AHD Multistandard Camera NHDC-5VE-5102



5000 VSS MULTI HD

KEY FEATURES

**MULTI
STANDARD**



- D/N function - IR cut filter
- resolution 5MPX
- Lens: varifocal, f=2.7 ~ 13.5 mm/F1.8
- Smart IR function
- multistandard: AHD, CVI, TVI, 960H
- IR LED, range up to 20 m

DIMENSIONS



IMAGE

Image Sensor	CMOS sensor 1/2.9" SMARTSENS
Operating mode	AHD 1080p, TVI 1080p, CVI 1080p, analog 960H, AHD 4MPX, AHD 5MPX, TVI 4MPX, TVI 5MPX, CVI 4MPX
Number of Effective Pixels	2592 (H) x 1944 (V)
Resolution	5MPX
Min. Illumination	0 lx (IR on) - B/W mode
S/N Ratio	> 52 dB (AGC off)
Electronic Shutter	auto: 1/50 s ~ 1/100000 s
Wide Dynamic Range (WDR)	yes
Digital Noise Reduction (DNR)	2D

LENS

Lens Type	varifocal, f=2.7 ~ 13.5 mm/F1.8
-----------	---------------------------------

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual
Visible Light Sensor	yes

OTHER FUNCTIONS

OSD	languages: English, others
Image Processing	Defective Pixel Correction (DPC), sharpening
Remote control	Yes (COAX protocol)

IR LED

LED Number	24
Range	20 m
Smart IR	yes (software support)

INTERFACES

Video Output	BNC, 1.0 Vp-p, 75 Ohm
--------------	-----------------------

INSTALLATION PARAMETERS

Dimensions (mm)	120 (Φ) x 100 (H)
Weight	0.6 kg
Degree of Protection	IP 66 (details in the user's manual)
Enclosure	vandalproof aluminium, white
Power Supply	12 VDC



Vandal Proof AHD Multistandard Camera **NHDC-5VE-5102**

Power Consumption	2.5 W • 6.5 W (IR on)
Operating Temperature	-30°C ~ 40°C
Humidity	max. 90%, relative (non-condensing)



Bullet AHD Multistandard Camera NHDC-5H-5101

5000 VSS MULTI HD



KEY FEATURES



- D/N function - IR cut filter
- resolution 5MPX
- Lens: fixed focal, f=3.6 mm/F2.0
- Smart IR function
- multistandard: AHD, CVI, TVI, 960H
- IR LED, range up to 20 m

DIMENSIONS



IMAGE

Image Sensor	CMOS sensor 1/2.9" SMARTSENS
Operating mode	AHD 1080p, TVI 1080p, CVI 1080p, analog 960H, AHD 4MPX, AHD 5MPX, TVI 4MPX, TVI 5MPX, CVI 4MPX
Number of Effective Pixels	2592 (H) x 1944 (V)
Resolution	5MPX
Min. Illumination	0 lx (IR on) - B/W mode
S/N Ratio	> 52 dB (AGC off)
Electronic Shutter	auto: 1/50 s ~ 1/100000 s
Wide Dynamic Range (WDR)	yes
Digital Noise Reduction (DNR)	2D

LENS

Lens Type	fixed focal, f=3.6 mm/F2.0
-----------	----------------------------

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual
Visible Light Sensor	yes

OTHER FUNCTIONS

OSD	languages: English, others
Image Processing	Defective Pixel Correction (DPC), sharpening
Remote control	Yes (COAX protocol)

IR LED

LED Number	24
Range	20 m
Smart IR	yes (software support)

INTERFACES

Video Output	BNC, 1.0 Vp-p, 75 Ohm
--------------	-----------------------

INSTALLATION PARAMETERS

Dimensions (mm)	with bracket: 70 (Φ) x 175 (L)
Weight	0.5 kg
Degree of Protection	IP 66 (details in the user's manual)
Enclosure	aluminium, white, fully cable managed wall mount bracket in-set included
Power Supply	12 VDC



Bullet AHD Multistandard Camera NHDC-5H-5101

Power Consumption	2.5 W • 6.5 W (IR on)
Operating Temperature	-30°C ~ 40°C
Humidity	max. 90%, relative (non-condensing)



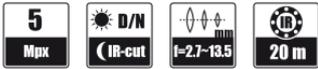
Bullet AHD Multistandard Camera NHDC-5H-5102

5000 VSS
MULTI HD



KEY FEATURES

**MULTI
STANDARD**



- D/N function - IR cut filter
- resolution 5MPX
- Lens: varifocal, f=2.7 ~ 13.5 mm/F1.8
- Smart IR function
- multistandard: AHD, CVI, TVI, 960H
- IR LED, range up to 20 m

DIMENSIONS



IMAGE

Image Sensor	CMOS sensor 1/2.9" SMARTSENS
Operating mode	AHD 1080p, TVI 1080p, CVI 1080p, analog 960H, AHD 4MPX, AHD 5MPX, TVI 4MPX, TVI 5MPX, CVI 4MPX
Number of Effective Pixels	2592 (H) x 1944 (V)
Resolution	5MPX
Min. Illumination	0 lx (IR on) - B/W mode
S/N Ratio	> 52 dB (AGC off)
Electronic Shutter	auto: 1/50 s ~ 1/100000 s
Wide Dynamic Range (WDR)	yes
Digital Noise Reduction (DNR)	2D

LENS

Lens Type	varifocal, f=2.7 ~ 13.5 mm/F1.8
-----------	---------------------------------

DAY/NIGHT

Switching Type	mechanical IR cut filter
Switching Mode	auto, manual
Visible Light Sensor	yes

OTHER FUNCTIONS

OSD	languages: English, others
Image Processing	Defective Pixel Correction (DPC), sharpening
Remote control	Yes (COAX protocol)

IR LED

LED Number	24
Range	20 m
Smart IR	yes (software support)

INTERFACES

Video Output	BNC, 1.0 Vp-p, 75 Ohm
--------------	-----------------------

INSTALLATION PARAMETERS

Dimensions (mm)	with bracket: 80 (W) x 80 (H) x 220 (L)
Weight	0.6 kg
Degree of Protection	IP 66 (details in the user's manual)
Enclosure	aluminium, white, fully cable managed wall mount bracket in-set included
Power Supply	12 VDC



Bullet AHD Multistandard Camera NHDC-5H-5102

Power Consumption	2.5 W • 6.5 W (IR on)
Operating Temperature	-30°C ~ 40°C
Humidity	max. 90%, relative (non-condensing)



Special Purpose AHD Multistandard Camera

NVAHD-2ATM-4011



KEY FEATURES



- D/N function - electronic
- resolution 1080p
- Lens: fixed focal, f=3.7 mm/F2.5
- multistandard: AHD, CVI, TVI, 960H
- Min. Illumination: 0.001 lx

DIMENSIONS



24 mm



36 mm

36 mm

IMAGE

Image Sensor	CMOS sensor 1/2.9"
Operating mode	AHD 1080p, TVI 1080p, CVI 1080p, analog 960H
Number of Effective Pixels	1985 (H) x 1105 (V)
Resolution	1080p
Min. Illumination	0.001 lx/F2.5 - color mode
S/N Ratio	> 52 dB (AGC off)
Electronic Shutter	auto/manual: 1/25 s ~ 1/50000 s
Digital Slow Shutter (DSS)	up to 30x
Wide Dynamic Range (WDR)	yes
Digital Noise Reduction (DNR)	2D, 3D
Defog Function (F-DNR)	yes

LENS

Lens Type	pinhole, f=3.7 mm/F2.5
-----------	------------------------

DAY/NIGHT

Switching Type	electronic D/N function
Switching Mode	auto, manual
Switching Level Adjustment	yes
Switching Delay	0 ~ 60 s

OTHER FUNCTIONS

OSD	languages: Polish, English, Russian, others
Privacy Zones	4
Motion Detection	yes
Image Processing	180° image rotation, mirror effect, negative, picture-freeze
Remote control	Yes (COAX protocol)

INTERFACES

Video Output	BNC, 1.0 Vp-p, 75 Ohm
--------------	-----------------------

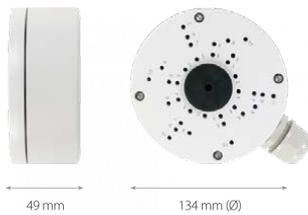
INSTALLATION PARAMETERS

Dimensions (mm)	36 (W) x 36 (H) x 24 (L) - sensor module
Weight	0.07 kg
Power Supply	12 VDC
Power Consumption	1 W
Operating Temperature	-30°C ~ 45°C

Wall/ceiling mount bracket indoor/outdoor NVB-4005JB



DIMENSIONS

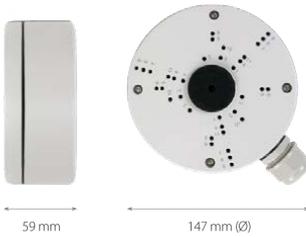


Type	wall/ceiling mount adapter with cable gland, indoor/outdoor
Application	selected 4000 and 6000 IP series models of camera (detailed list of compatible cameras and other products can be found on the website in the file in the "Downloads" tab)
Material	aluminium
Color	white
Load Capacity	3 kg
Dimensions (mm)	134 ϕ x 59 (height)
Weight	0.42 kg

Wall/ceiling mount bracket indoor/outdoor NVB-4000JB



DIMENSIONS



Type	wall/ceiling mount adapter with cable gland, indoor/outdoor
Application	4000 series IP cameras and also 3000 series AHD cameras (detailed compatibility list available as a file to download in section "Downloadable Files")
Material	aluminium
Color	white
Load Capacity	3 kg
Dimensions (mm)	147 ϕ x 59 (height)
Weight	0.45 kg

Wall/ceiling mount bracket indoor/outdoor NVB-8005JB



DIMENSIONS



Type	wall/ceiling mount bracket, indoor/outdoor
Application	Selected 8000 and 5000 series models of camera (detailed list of compatible cameras and other products can be found on the website in the file in the "Downloads" tab)
Material	aluminium
Color	white
Load Capacity	4 kg
Degree of Protection	IP 66
Dimensions (mm)	142 ϕ x 51 (height)
Weight	0.6 kg

Wall/ceiling mount bracket indoor/outdoor NVB-5300JB



DIMENSIONS



Type	wall/ceiling mount adapter with cable gland, indoor/outdoor
Application	5000 series AHD cameras (detailed compatibility list available as a file to download in section "Downloadable Files")
Material	aluminium
Color	white
Load Capacity	3 kg
Dimensions (mm)	93 ϕ x 47 (height)
Weight	0.25 kg

Wall mount adapter

NVB-5100JBS



Type	wall mount adapter
Application	5000 series AHD cameras (detailed compatibility list available as a file to download in section "Downloadable Files")
Material	aluminium
Color	white
Degree of Protection	IP 66
Dimensions (mm)	86.4 (W) x 146 (H) x 55 (D)
Weight	0.3 kg

Wall mount adapter

NVB-5100JBB



Type	wall mount adapter
Application	5000 series AHD cameras (detailed compatibility list available as a file to download in section "Downloadable Files")
Material	aluminium
Color	white
Degree of Protection	IP 66
Dimensions (mm)	121.4 (W) x 204 (H) x 56 (D)
Weight	0.6 kg

Compatibility with NVAHD-xDN5102H, NVAHD-xDN5101H, NVAHD-xDN5104H, NVAHD-1DN5301H cameras only with S/N from 161007001

Pole mount adapter

NVB-5100PA



Type	pole mount adapter
Application	3000, 6000 and 7000 series IP cameras and 5000 series AHD cameras (detailed compatibility list available as a file to download in section "Downloadable Files")
Material	aluminium
Color	white
Load Capacity	5 kg
Dimensions (mm)	120 (W) x 120 (H)
Weight	0.3 kg

Wall mount bracket, indoor/outdoor

NVB-5100VB

Type	wall mount cable-managed bracket, indoor/outdoor
Application	5000 series AHD cameras (detailed compatibility list available as a file to download in section "Downloadable Files")
Material	aluminium
Color	white
Load Capacity	15 kg
Dimensions (mm)	98 (W) x 70 (H) x 183 (L)
Weight	0.26 kg

02

MULTISTANDARD CAMERAS SPEED DOME



03

MULTISTANDARD SIGNAL TRANSMISSION



AAT SYSTEMY BEZPIECZEŃSTWA sp. z o.o.

431 Pulawska St, 02-801 Warsaw, Poland, phone +48 22 546 05 46, fax +48 22 546 05 01

www.aat.pl

Passive video transmitter/receiver

NVPT-131VTP-HD



GENERAL

Device Type	video transmitter and receiver set
-------------	------------------------------------

VIDEO TRANSMISSION

Video Input/Output	1 x BNC, 1.0 Vp-p, 75 Ohm
AHD 720p Signal Transmission Distance	Up to 300 m (with passive receivers)
AHD 1080p Signal Transmission Distance	Up to 300 m (with passive receivers)
AHD 5MPX Signal Transmission Distance	do 300 m (with passive receivers)

COMMUNICATION BETWEEN TRANSMITTER AND RECEIVER

Connector	Clamp connector
Cable Type	CAT 5/5E/6 UTP Cable

INSTALLATION PARAMETERS

Operating Temperature	0°C~55°C
Dimensions (mm)	32 (W) x 20 (H) x 65 (L)
Weight	Transmitter: 25 g, Receiver: 25 g
Case	Plastic, black

The transmission parameters are valid for devices from the serial number: 41216210801

D4

**HYBRID
RECORDERS**
(MULTISTANDARD AND IP)



AAT SYSTEMY BEZPIECZEŃSTWA sp. z o.o.
431 Puławska St, 02-801 Warsaw, Poland, phone +48 22 546 05 46, fax +48 22 546 05 01
www.aat.pl

Multistandard AHD Recorder NHDR-4104-H1



4000

VSS
HYBRID

KEY FEATURES



- Video channels: 4, audio channels: 4
- Recording speed: up to 120 fps (AHD), up to 180 fps (IP)
- Internal HDDs mount: up to 1
- Monitor outputs: 3 (2 x main, 1 x spot)
- Supports HD analog cameras (720p, 1080p, 4MPX, 5MPX)
- Supports AHD, TVI, CVI cameras
- IP cameras support (hybrid mode)
- Intelligent image analysis
- PIR cameras support

DIMENSIONS



VIDEO

Video Input	4 x BNC
Operating mode	AHD 5Mpx, TVI 5Mpx, CVI 4Mpx, analog 960H
Monitor Output	main (split screen, full screen, sequence): 1 x HDMI (4K UltraHD), 1 x VGA (FullHD) • spot: 1 x BNC
IP Streams	DVR mode: 4 x BNC + 0 x IP • hybrid mode: 4 x BNC + 2 x IP • IP mode: 0 x BNC + 6 x IP
Supported IP resolution	max. 2592 x 1944

AUDIO

Audio Input/Output	4 x RCA (Line-in)/1 x HDMI, 1 x RCA
--------------------	-------------------------------------

RECORDING

Compression	H.264, H.265
Recording Speed	120 fps (960 x 576 - 960H) • 120 fps (1280 x 720 - HD) • 60 fps (1920 x 1080 - FullHD) • 64 fps (1280 x 1440 - 4Mpx Lite) • 48 fps (1280 x 1944 - 5Mpx Lite)
IP recording speed	hybrid mode: 60fps • IP mode: 180fps
IP stream size	hybrid mode: 8 Mb/s in total from all IP cameras • IP mode: 24 Mb/s in total from all IP cameras
Recording Mode	continuous, triggered by: REC/PANIC button, alarm input, motion detection, PIR alarm, image analysis
Schedule	individual settings for: each camera, each day of the week, configuration with an accuracy of: 30 min, possibility of combining individual recording modes
Prealarm/postalarm	up to 3 s/up to 5 min

PLAYBACK

Playback speed	120 fps
IP playback speed	120 fps
Recorded Data Search	by date/time, events, image analysis events, motion in a defined area, tags

BACKUP

Backup Methods	USB port (HDD or Flash memory), network
Backup File Format	JPG, BMP, PNG, MP4, AVI

STORAGE

Internal storage	available mount: 1 x HDD 3.5" SATA
Total Internal Capacity	10 TB

ALARM

Alarm Input/Output	4/1 relay type
--------------------	----------------

Multistandard AHD Recorder

NHDR-4104-H1

IP Camera Alarm Input/Output	supports IP camera's alarm input/output
Motion Detection	30 x 44 grid, individual settings of sensitivity, PIR cameras support
System Reaction to Alarm Events	buzzer, e-mail, alarm output activation, screen message, recording activation, PTZ, Full Screen, FTP picture upload, FTP video upload, picture to Cloud, video to Cloud

INTELLIGENT IMAGE ANALYSIS

Number of channels	4 x BNC, 6 x IP (4000 Serie)
Supported functions for analog cameras	Exception, Line cross, Zone entrance, Pedestrian detection, Sound detection
Supported functions for IP cameras	Exception, Line cross, Zone entrance, Abandoned object, Object disappearance, Face detection, Pedestrian detection, Cross counting, Sound detection

NETWORK

Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, HTTPS, FTP, DHCP, DNS, DDNS, NTP, SNTP, RTSP, UPnP, SNMP, SMTP, P2P
PC/MAC Software	NMS, Internet Explorer, NHDR-5000 Viewer/NHDR-5000 Viewer
Mobile applications	RxCamView (iPhone, Android)
Max. Number of Connections with DVR	20 (live monitoring: 20, playback: 1, configuration: 20)
Bandwidth	48 Mb/s in total to all client workstations

PTZ

PTZ Ports	1 x RS-485
PTZ Protocols	Pelco-D, Pelco-P
PTZ Functions	pan/tilt/zoom, preset commands, patterns

COAX

COAX Functions	menu, zoom, focus, PTZ
----------------	------------------------

AUXILIARY INTERFACES

USB Ports	2 x USB 2.0
-----------	-------------

OPERATING SYSTEM

Operating System	Linux
OSD	languages: Polish, English, Russian, others
Control	PC mouse and IR remote controller (in-set included), network, NV-KBD50 keyboard
System Diagnostic	automatic control of: HDDs, camera connection loss
Security	password protection, IP filtering

INSTALLATION PARAMETERS

Dimensions (mm)	300 (W) x 53 (H) x 227 (D)
Weight	1.1 kg (without HDD)
Power Supply	12 VDC (100 ~ 240 VAC/12 VDC PSU in-set included)
Power Consumption	20 W (with 1 HDD)
Operating Temperature	-10°C ~ 55°C



Multistandard AHD Recorder NHDR-4104-H1

The recorder is dedicated to work with AHD cameras, Novus 4000 series IP cameras and achieves the best functionality with them. In case of work with IP cameras intelligent image analysis, dualstream mode, PTZ control, motion detection and alarm inputs / outputs functions depend on the functionality of the IP camera and the capabilities of the communication protocol. Detailed data on camera compatibility with recorders and compatible hard drives can be found in the compatibility tables available in the DOWNLOADABLE FILES tab.

Display and playback speeds are achieved using dual stream.

The recording speed of analog cameras may be limited during playback.



Multistandard AHD Recorder NHDR-4108-H1



4000 VSS HYBRID

KEY FEATURES



- Video channels: 8, audio channels: 8
- Recording speed: up to 240 fps (AHD), up to 360 fps (IP)
- Internal HDDs mount: up to 1
- Monitor outputs: 3 (2 x main, 1 x spot)
- Supports HD analog cameras (720p, 1080p, 4MPX, 5MPX)
- Supports AHD, TVI, CVI cameras
- IP cameras support (hybrid mode)
- Intelligent image analysis
- PIR cameras support

DIMENSIONS



VIDEO

Video Input	8 x BNC
Operating mode	AHD 5Mpx, TVI 5Mpx, CVI 4Mpx, analog 960H
Monitor Output	main (split screen, full screen, sequence): 1 x HDMI (4K UltraHD), 1 x VGA (FullHD) • spot: 1 x BNC
IP Streams	DVR mode: 8 x BNC + 0 x IP • hybrid mode: 8 x BNC + 4 x IP • IP mode: 0 x BNC + 12 x IP
Supported IP resolution	max. 2592 x 1944

AUDIO

Audio Input/Output	8 x RCA (Line-in)/1 x HDMI, 1 x RCA
--------------------	-------------------------------------

RECORDING

Compression	H.264, H.265
Recording Speed	240 fps (960 x 576 - 960H) • 240 fps (1280 x 720 - HD) • 120 fps (1920 x 1080 - FullHD) • 144 fps (1280 x 1440 - 4Mpx Lite) • 120 fps (1280 x 1944 - 5Mpx Lite)
IP recording speed	hybrid mode: 120fps • IP mode: 360fps
IP stream size	hybrid mode: 16 Mb/s in total from all IP cameras • IP mode: 48 Mb/s in total from all IP cameras
Recording Mode	continuous, triggered by: REC/PANIC button, alarm input, motion detection, PIR alarm, image analysis
Schedule	individual settings for: each camera, each day of the week, configuration with an accuracy of: 30 min, possibility of combining individual recording modes
Prealarm/postalarm	up to 3 s/up to 5 min

PLAYBACK

Playback speed	240 fps
IP playback speed	240 fps
Recorded Data Search	by date/time, events, image analysis events, motion in a defined area, tags

BACKUP

Backup Methods	USB port (HDD or Flash memory), network
Backup File Format	JPG, BMP, PNG, MP4, AVI

STORAGE

Internal storage	available mount: 1 x HDD 3.5" SATA
Total Internal Capacity	10 TB

ALARM

Alarm Input/Output	8/1 relay type
--------------------	----------------

Multistandard AHD Recorder

NHDR-4108-H1

IP Camera Alarm Input/Output	supports IP camera's alarm input/output
Motion Detection	30 x 44 grid, individual settings of sensitivity, PIR cameras support
System Reaction to Alarm Events	buzzer, e-mail, alarm output activation, screen message, recording activation, PTZ, Full Screen, FTP picture upload, FTP video upload, picture to Cloud, video to Cloud

INTELLIGENT IMAGE ANALYSIS

Number of channels	8 x BNC, 12 x IP (4000 Serie)
Supported functions for analog cameras	Exception, Line cross, Zone entrance, Pedestrian detection, Sound detection
Supported functions for IP cameras	Exception, Line cross, Zone entrance, Abandoned object, Object disappearance, Face detection, Pedestrian detection, Cross counting, Sound detection

NETWORK

Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, HTTPS, FTP, DHCP, DNS, DDNS, NTP, SNTP, RTSP, UPnP, SNMP, SMTP, P2P
PC/MAC Software	NMS, Internet Explorer, NHDR-5000 Viewer/NHDR-5000 Viewer
Mobile applications	RxCamView (iPhone, Android)
Max. Number of Connections with DVR	20 (live monitoring: 20, playback: 1, configuration: 20)
Bandwidth	64 Mb/s in total to all client workstations

PTZ

PTZ Ports	1 x RS-485
PTZ Protocols	Pelco-D, Pelco-P
PTZ Functions	pan/tilt/zoom, preset commands, patterns

COAX

COAX Functions	menu, zoom, focus, PTZ
----------------	------------------------

AUXILIARY INTERFACES

USB Ports	2 x USB 2.0
-----------	-------------

OPERATING SYSTEM

Operating System	Linux
OSD	languages: Polish, English, Russian, others
Control	PC mouse and IR remote controller (in-set included), network, NV-KBD50 keyboard
System Diagnostic	automatic control of: HDDs, camera connection loss
Security	password protection, IP filtering

INSTALLATION PARAMETERS

Dimensions (mm)	300 (W) x 53 (H) x 227 (D)
Weight	1.1 kg (without HDD)
Power Supply	12 VDC (100 ~ 240 VAC/12 VDC PSU in-set included)
Power Consumption	20 W (with 1 HDD)
Operating Temperature	-10°C ~ 55°C



Multistandard AHD Recorder **NHDR-4108-H1**

The recorder is dedicated to work with AHD cameras, Novus 4000 series IP cameras and achieves the best functionality with them. In case of work with IP cameras intelligent image analysis, dualstream mode, PTZ control, motion detection and alarm inputs / outputs functions depend on the functionality of the IP camera and the capabilities of the communication protocol. Detailed data on camera compatibility with recorders and compatible hard drives can be found in the compatibility tables available in the DOWNLOADABLE FILES tab.

Display and playback speeds are achieved using dual stream.

The recording speed of analog cameras may be limited during playback.



Multistandard AHD Recorder NHDR-4116-H2



4000 VSS HYBRID

KEY FEATURES



- Video channels: 16, audio channels: 16
- Recording speed: up to 480 fps (AHD), up to 600 fps (IP)
- Internal HDDs mount: up to 2
- Monitor outputs (main): 3
- Supports HD analog cameras (720p, 1080p, 4MPX, 5MPX)
- Supports AHD, TVI, CVI cameras
- IP cameras support (hybrid mode)
- Intelligent image analysis
- PIR cameras support

DIMENSIONS



VIDEO

Video Input	16 x BNC
Operating mode	AHD 5Mpx, TVI 5Mpx, CVI 4Mpx, analog 960H
Monitor Output	main (split screen, full screen, sequence): 1 x HDMI (4K UltraHD), 1 x VGA (FullHD) • spot: 1 x BNC
IP Streams	DVR mode: 16 x BNC + 0 x IP • hybrid mode: 16 x BNC + 4 x IP • IP mode: 0 x BNC + 20 x IP
Supported IP resolution	max. 2592 x 1944

AUDIO

Audio Input/Output	16 x RCA (Line-in)/1 x HDMI, 1 x RCA
--------------------	--------------------------------------

RECORDING

Compression	H.264, H.265
Recording Speed	480 fps (960 x 576 - 960H) • 480 fps (1280 x 720 - HD) • 240 fps (1920 x 1080 - FullHD) • 256 fps (1280 x 1440 - 4Mpx Lite) • 192 fps (1280 x 1944 - 5Mpx Lite)
IP recording speed	hybrid mode: 120fps • IP mode: 600fps
IP stream size	hybrid mode: 16 Mb/s in total from all IP cameras • IP mode: 80 Mb/s in total from all IP cameras
Recording Mode	continuous, triggered by: REC/PANIC button, alarm input, motion detection, PIR alarm, image analysis
Schedule	individual settings for: each camera, each day of the week, configuration with an accuracy of: 30 min, possibility of combining individual recording modes
Prealarm/postalarm	up to 3 s/up to 5 min

PLAYBACK

Playback speed	240 fps
IP playback speed	240 fps
Recorded Data Search	by date/time, events, image analysis events, motion in a defined area, tags

BACKUP

Backup Methods	USB port (HDD or Flash memory), network
Backup File Format	JPG, BMP, PNG, MP4, AVI

STORAGE

Internal storage	available mount: 2 x HDD 3.5" SATA
Total Internal Capacity	16 TB
External storage	Network HDD (NFS or SMB/CIFS)
Total External Capacity	64 TB

Multistandard AHD Recorder NHDR-4116-H2

ALARM

Alarm Input/Output	16/1 relay type
IP Camera Alarm Input/Output	supports IP camera's alarm input/output
Motion Detection	30 x 44 grid, individual settings of sensitivity, PIR cameras support
System Reaction to Alarm Events	buzzer, e-mail, alarm output activation, screen message, recording activation, PTZ, Full Screen, FTP picture upload, FTP video upload, picture to Cloud, video to Cloud

INTELLIGENT IMAGE ANALYSIS

Supported functions	Exception, Line cross, Zone entrance, Abandoned object, Object disappearance, Face detection, Pedestrian detection, Cross counting, Sound detection
Number of channels	0 x BNC, 24 x IP (2000 and 4000 Serie)

NETWORK

Network Interface	1 x Ethernet - RJ-45 interface, 10/100/1000 Mbit/s
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, HTTPS, FTP, DHCP, DNS, DDNS, NTP, SNTP, RTSP, UPnP, SNMP, SMTP, P2P, HTML5
PC/MAC Software	NMS, Internet Explorer, NHDR-5000 Viewer, Firefox, Chrome, Opera, Edge/Safari, NHDR-5000 Viewer
Mobile applications	RxCamView (iPhone, Android)
Number of Simultaneous Connections	up to 32 users, each user up to 5 devices
Bandwidth	96 Mb/s in total to all client workstations

PTZ

PTZ Ports	1 x RS-485
PTZ Protocols	Pelco-D, Pelco-P
PTZ Functions	pan/tilt/zoom, preset commands, patterns

COAX

COAX Functions	menu, zoom, focus, PTZ
----------------	------------------------

AUXILIARY INTERFACES

USB Ports	1 x USB 3.0, 1 x USB 2.0
-----------	--------------------------

OPERATING SYSTEM

Operating System	Linux
OSD	languages: Polish, English, Russian, others
Control	PC mouse and IR remote controller (in-set included), network, NV-KBD50 keyboard
System Diagnostic	automatic control of: HDDs, camera connection loss
Security	password protection, IP filtering

INSTALLATION PARAMETERS

Dimensions (mm)	378 (W) x 50 (H) x 340 (D)
Weight	2.5 kg (without HDDs)
Power Supply	12 VDC (100 ~ 240 VAC/12 VDC PSU in-set included)
Power Consumption	30 W (with 2 HDDs)
Operating Temperature	-10°C ~ 55°C



Multistandard AHD Recorder NHDR-4116-H2

The recorder is dedicated to work with AHD cameras, Novus 4000 series IP cameras and achieves the best functionality with them. In case of work with IP cameras intelligent image analysis, dualstream mode, PTZ control, motion detection and alarm inputs / outputs functions depend on the functionality of the IP camera and the capabilities of the communication protocol. Detailed data on camera compatibility with recorders and compatible hard drives can be found in the compatibility tables available in the DOWNLOADABLE FILES tab.

Display and playback speeds are achieved using dual stream.

The recording speed of analog cameras may be limited during playback.



Multistandard AHD Recorder NHDR-4116AHD



4000

VSS
HYBRID

KEY FEATURES



- Video channels: 16, audio channels: 16
- Recording speed: up to 480 fps (AHD), up to 720 fps (IP)
- Internal HDDs mount: up to 2
- Monitor outputs (main): 2
- Supports HD analog cameras (720p, 1080p, 4MPX, 5MPX)
- Supports AHD, TVI, CVI cameras
- IP cameras support (hybrid mode)
- Intelligent image analysis
- PIR cameras support
- Supports POS devices

DIMENSIONS



VIDEO

Video Input	16 x BNC
Operating mode	AHD 5Mpx, TVI 5Mpx, CVI 4Mpx, analog 960H
Monitor Output	main (split screen, full screen, sequence): 1 x HDMI (4K UltraHD), 1 x VGA (FullHD)
IP Streams	DVR mode: 16 x BNC + 0 x IP • hybrid mode: 16 x BNC + 8 x IP • IP mode: 0 x BNC + 24 x IP
Supported IP resolution	max. 2592 x 1944

AUDIO

Audio Input/Output	16 x RCA (Line-in)/1 x HDMI, 1 x RCA
--------------------	--------------------------------------

RECORDING

Compression	H.264, H.265
Recording Speed	480 fps (1280 x 720 - HD) • 240 fps (1920 x 1080 - FullHD) • 288 fps (1280 x 1440 - 4Mpx Lite) • 240 fps (1280 x 1944 - 5Mpx Lite) • 128 fps (2560 x 1440 - 4Mpx)
IP recording speed	hybrid mode: 240fps • IP mode: 720fps
IP stream size	hybrid mode: 32 Mb/s in total from all IP cameras • IP mode: 96 Mb/s in total from all IP cameras
Recording Mode	continuous, triggered by: REC/PANIC button, alarm input, motion detection, PIR alarm
Schedule	individual settings for: each camera, each day of the week, configuration with an accuracy of: 30 min, possibility of combining individual recording modes
Prealarm/postalarm	up to 3 s/up to 5 min

PLAYBACK

Playback speed	480 fps
IP playback speed	480 fps
Recorded Data Search	by date/time, events, image analysis events, motion in a defined area, tags

BACKUP

Backup Methods	USB port (HDD or Flash memory), network
Backup File Format	JPG, BMP, PNG, MP4, AVI

STORAGE

Internal storage	available mount: 2 x HDD 3.5" SATA
Total Internal Capacity	28 TB

ALARM

Alarm Input/Output	16/1 relay type
--------------------	-----------------

Multistandard AHD Recorder

NHDR-4116AHD

Motion Detection	36 x 44 grid, individual settings of sensitivity, PIR cameras support
System Reaction to Alarm Events	buzzer, e-mail, alarm output activation, screen message, recording activation, PTZ, Full Screen, FTP picture upload, FTP video upload, picture to Cloud, video to Cloud

INTELLIGENT IMAGE ANALYSIS

Supported functions	Exception, Line cross, Zone entrance, Abandoned object, Object disappearance, Face detection, Pedestrian detection, Cross counting, Sound detection
Number of channels	0 x BNC, 24 x IP (2000 and 4000 Serie)

NETWORK

Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Network Protocols Support	HTTP, TCP/IP, IPv4, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, UPnP, SNMP, SMTP, P2P
PC/MAC Software	NMS, Internet Explorer, NHDR-5000 Viewer/NHDR-5000 Viewer
Mobile applications	RxCamView (iPhone, Android)
Max. Number of Connections with DVR	20 (live monitoring: 20, playback: 1, configuration: 20)
Bandwidth	96 Mb/s in total to all client workstations

PTZ

PTZ Ports	1 x RS-485
PTZ Protocols	Pelco-D, Pelco-P
PTZ Functions	pan/tilt/zoom, preset commands, patterns

COAX

COAX Functions	menu, zoom, focus, PTZ
----------------	------------------------

POS

Number of POS channels	4
POS Interface	Ethernet, RS485
POS Functions	display text on the video, keyword search, export text with the video

AUXILIARY INTERFACES

USB Ports	1 x USB 3.0 1 x USB 2.0
-----------	-------------------------

OPERATING SYSTEM

Operating System	Linux
OSD	languages: Polish, English, Russian, others
Control	PC mouse and IR remote controller (in-set included), network, NV-KBD50 keyboard
System Diagnostic	automatic control of: HDDs, camera connection loss
Security	password protection, IP filtering

INSTALLATION PARAMETERS

Dimensions (mm)	378 (W) x 50 (H) x 340 (D)
Weight	2.5 kg (without HDDs)
Power Supply	12 VDC (100 ~ 240 VAC/12 VDC PSU in-set included)
Power Consumption	30 W (with 2 HDDs)
Operating Temperature	-10°C ~ 55°C

Multistandard AHD Recorder NHDR-4304-H1



4000

VSS
HYBRID

KEY FEATURES



- Video channels: 4, audio channels: 4
- Recording speed: up to 120 fps (AHD), up to 180 fps (IP)
- Internal HDDs mount: up to 1
- Monitor outputs: 3 (2 x main, 1 x spot)
- Supports HD analog cameras (720p, 1080p, 4MPX, 5MPX, 8MPX)
- Supports AHD, TVI, CVI cameras
- IP cameras support (hybrid mode)
- Intelligent image analysis
- PIR cameras support

DIMENSIONS



VIDEO

Video Input	4 x BNC
Operating mode	AHD 8Mpx, TVI 8Mpx, CVI 8Mpx, analog 960H
Monitor Output	main (split screen, full screen, sequence): 1 x HDMI (4K UltraHD), 1 x VGA (FullHD) • spot: 1 x BNC
IP Streams	DVR mode: 4 x BNC + 0 x IP • hybrid mode: 4 x BNC + 2 x IP • IP mode: 0 x BNC + 6 x IP
Supported IP resolution	max. 3840 x 2160

AUDIO

Audio Input/Output	4 x RCA (Line-in)/1 x HDMI, 1 x RCA
--------------------	-------------------------------------

RECORDING

Compression	H.264, H.265
Recording Speed	120 fps (1280 x 720 - HD) • 120 fps (1920 x 1080 - FullHD) • 60 fps (2560 x 1440 - 4Mpx) • 48 fps (2560 x 1944 - 5Mpx) • 28 fps (3840 x 2160 - 8Mpx)
IP recording speed	hybrid mode: 60fps • IP mode: 180fps
IP stream size	hybrid mode: 12 Mb/s in total from all IP cameras • IP mode: 36 Mb/s in total from all IP cameras
Recording Mode	continuous, triggered by: REC/PANIC button, alarm input, motion detection, PIR alarm, image analysis
Schedule	individual settings for: each camera, each day of the week, configuration with an accuracy of: 30 min, possibility of combining individual recording modes
Prealarm/postalarm	up to 3 s/up to 5 min

PLAYBACK

Playback speed	120 fps
IP playback speed	120 fps
Recorded Data Search	by date/time, events, image analysis events, motion in a defined area, tags

BACKUP

Backup Methods	USB port (HDD or Flash memory), network
Backup File Format	JPG, BMP, PNG, MP4, AVI

STORAGE

Internal storage	available mount: 1 x HDD 3.5" SATA
Total Internal Capacity	10 TB

ALARM

Alarm Input/Output	4/1 relay type
--------------------	----------------

Multistandard AHD Recorder

NHDR-4304-H1

IP Camera Alarm Input/Output	supports IP camera's alarm input/output
Motion Detection	30 x 44 grid, individual settings of sensitivity, PIR cameras support
System Reaction to Alarm Events	buzzer, e-mail, alarm output activation, screen message, recording activation, PTZ, Full Screen, FTP picture upload, FTP video upload, picture to Cloud, video to Cloud

INTELLIGENT IMAGE ANALYSIS

Number of channels	4 x BNC, 6 x IP (4000 Serie)
Supported functions for analog cameras	Exception, Line cross, Zone entrance, Pedestrian detection, Sound detection
Supported functions for IP cameras	Exception, Line cross, Zone entrance, Abandoned object, Object disappearance, Face detection, Pedestrian detection, Cross counting, Sound detection

NETWORK

Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, HTTPS, FTP, DHCP, DNS, DDNS, NTP, SNTP, RTSP, UPnP, SNMP, SMTP, P2P
PC/MAC Software	NMS, Internet Explorer, NHDR-5000 Viewer/NHDR-5000 Viewer
Mobile applications	RxCamView (iPhone, Android)
Max. Number of Connections with DVR	20 (live monitoring: 20, playback: 1, configuration: 20)
Bandwidth	48 Mb/s in total to all client workstations

PTZ

PTZ Ports	1 x RS-485
PTZ Protocols	Pelco-D, Pelco-P
PTZ Functions	pan/tilt/zoom, preset commands, patterns

COAX

COAX Functions	menu, zoom, focus, PTZ
----------------	------------------------

AUXILIARY INTERFACES

USB Ports	2 x USB 2.0
-----------	-------------

OPERATING SYSTEM

Operating System	Linux
OSD	languages: Polish, English, Russian, others
Control	PC mouse and IR remote controller (in-set included), network, NV-KBD50 keyboard
System Diagnostic	automatic control of: HDDs, camera connection loss
Security	password protection, IP filtering

INSTALLATION PARAMETERS

Dimensions (mm)	300 (W) x 53 (H) x 227 (D)
Weight	1.1 kg (without HDD)
Power Supply	12 VDC (100 ~ 240 VAC/12 VDC PSU in-set included)
Power Consumption	20 W (with 1 HDD)
Operating Temperature	-10°C ~ 55°C



Multistandard AHD Recorder NHDR-4304-H1

The recorder is dedicated to work with AHD cameras, Novus 4000 series IP cameras and achieves the best functionality with them. In case of work with IP cameras intelligent image analysis, dualstream mode, PTZ control, motion detection and alarm inputs / outputs functions depend on the functionality of the IP camera and the capabilities of the communication protocol. Detailed data on camera compatibility with recorders and compatible hard drives can be found in the compatibility tables available in the DOWNLOADABLE FILES tab.

Display and playback speeds are achieved using dual stream.

The recording speed of analog cameras may be limited during playback.

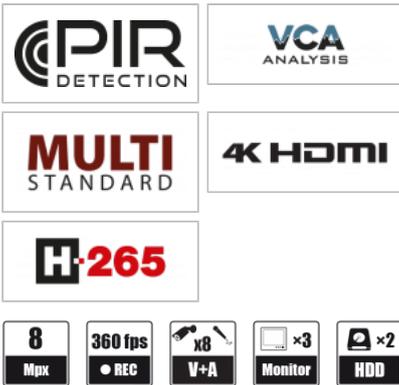


Multistandard AHD Recorder NHDR-4308-H2



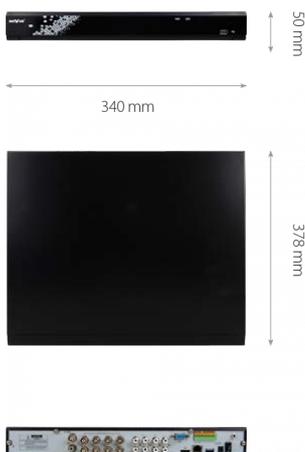
4000 VSS HYBRID

KEY FEATURES



- Video channels: 8, audio channels: 8
- Recording speed: up to 240 fps (AHD), up to 360 fps (IP)
- Internal HDDs mount: up to 2
- Monitor outputs: 3 (2 x main, 1 x spot)
- Supports HD analog cameras (720p, 1080p, 4MPX, 5MPX, 8MPX)
- Supports AHD, TVI, CVI cameras
- IP cameras support (hybrid mode)
- Intelligent image analysis
- PIR cameras support

DIMENSIONS



VIDEO

Video Input	8 x BNC
Operating mode	AHD 8Mpx, TVI 8Mpx, CVI 8Mpx, analog 960H
Monitor Output	main (split screen, full screen, sequence): 1 x HDMI (4K UltraHD), 1 x VGA (FullHD) • spot: 1 x BNC
IP Streams	DVR mode: 8 x BNC + 0 x IP • hybrid mode: 8 x BNC + 4 x IP • IP mode: 0 x BNC + 12 x IP
Supported IP resolution	max. 3840 x 2160

AUDIO

Audio Input/Output	8 x RCA (Line-in)/1 x HDMI, 1 x RCA
--------------------	-------------------------------------

RECORDING

Compression	H.264, H.265
Recording Speed	240 fps (1280 x 720 - HD) • 240 fps (1920 x 1080 - FullHD) • 120 fps (2560 x 1440 - 4Mpx) • 96 fps (2560 x 1944 - 5Mpx) • 56 fps (3840 x 2160 - 8Mpx)
IP recording speed	hybrid mode: 120fps • IP mode: 360fps
IP stream size	hybrid mode: 24 Mb/s in total from all IP cameras • IP mode: 72 Mb/s in total from all IP cameras
Recording Mode	continuous, triggered by: REC/PANIC button, alarm input, motion detection, PIR alarm, image analysis
Schedule	individual settings for: each camera, each day of the week, configuration with an accuracy of: 30 min, possibility of combining individual recording modes
Prealarm/postalarm	up to 3 s/up to 5 min

PLAYBACK

Playback speed	240 fps
IP playback speed	240 fps
Recorded Data Search	by date/time, events, image analysis events, motion in a defined area, tags

BACKUP

Backup Methods	USB port (HDD or Flash memory), network
Backup File Format	JPG, BMP, PNG, MP4, AVI

STORAGE

Internal storage	available mount: 2 x HDD 3.5" SATA
Total Internal Capacity	16 TB

ALARM

Alarm Input/Output	8/1 relay type
--------------------	----------------

Multistandard AHD Recorder

NHDR-4308-H2

IP Camera Alarm Input/Output	supports IP camera's alarm input/output
Motion Detection	30 x 44 grid, individual settings of sensitivity, PIR cameras support
System Reaction to Alarm Events	buzzer, e-mail, alarm output activation, screen message, recording activation, PTZ, Full Screen, FTP picture upload, FTP video upload, picture to Cloud, video to Cloud

INTELLIGENT IMAGE ANALYSIS

Number of channels	8 x BNC, 12 x IP (4000 Serie)
Supported functions for analog cameras	Exception, Line cross, Zone entrance, Sound detection
Supported functions for IP cameras	Exception, Line cross, Zone entrance, Abandoned object, Object disappearance, Face detection, Pedestrian detection, Cross counting, Sound detection

NETWORK

Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, HTTPS, FTP, DHCP, DNS, DDNS, NTP, SNTP, RTSP, UPnP, SNMP, SMTP, P2P
PC/MAC Software	NMS, Internet Explorer, NHDR-5000 Viewer/NHDR-5000 Viewer
Mobile applications	RxCamView (iPhone, Android)
Max. Number of Connections with DVR	20 (live monitoring: 20, playback: 1, configuration: 20)
Bandwidth	72 Mb/s in total to all client workstations

PTZ

PTZ Ports	1 x RS-485
PTZ Protocols	Pelco-D, Pelco-P
PTZ Functions	pan/tilt/zoom, preset commands, patterns

COAX

COAX Functions	menu, zoom, focus, PTZ
----------------	------------------------

AUXILIARY INTERFACES

USB Ports	1 x USB 3.0 1 x USB 2.0
-----------	-------------------------

OPERATING SYSTEM

Operating System	Linux
OSD	languages: Polish, English, Russian, others
Control	PC mouse and IR remote controller (in-set included), network, NV-KBD50 keyboard
System Diagnostic	automatic control of: HDDs, camera connection loss
Security	password protection, IP filtering

INSTALLATION PARAMETERS

Dimensions (mm)	378 (W) x 50 (H) x 340 (D)
Weight	2.5 kg (without HDDs)
Power Supply	12 VDC (100 ~ 240 VAC/12 VDC PSU in-set included)
Power Consumption	30 W (with 2 HDDs)
Operating Temperature	-10°C ~ 55°C



Multistandard AHD Recorder NHDR-4308-H2

The recorder is dedicated to work with AHD cameras, Novus 4000 series IP cameras and achieves the best functionality with them. In case of work with IP cameras intelligent image analysis, dualstream mode, PTZ control, motion detection and alarm inputs / outputs functions depend on the functionality of the IP camera and the capabilities of the communication protocol. Detailed data on camera compatibility with recorders and compatible hard drives can be found in the compatibility tables available in the DOWNLOADABLE FILES tab.

Display and playback speeds are achieved using dual stream.

The recording speed of analog cameras may be limited during playback.



Multistandard AHD Recorder NHDR-6004-H1-II



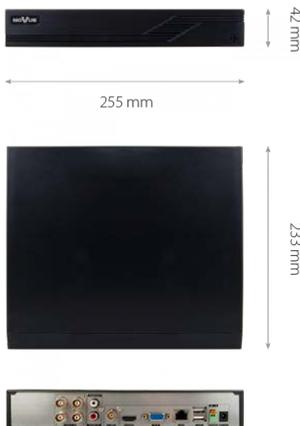
6000 VSS
HYBRID

KEY FEATURES



- Video channels: 4, audio channels: 1
- Recording speed: up to 120 fps (AHD), up to 60 fps (IP)
- Internal HDDs mount: up to 1
- Monitor outputs: 3 (2 x main, 1 x spot)
- Supports HD analog cameras (720p, 1080p, 4MPX, 5MPX)
- Supports AHD, TVI, CVI cameras
- IP cameras support (hybrid mode)
- Intelligent image analysis

DIMENSIONS



VIDEO

Video Input	4 x BNC
Operating mode	AHD 5Mpx, TVI 5Mpx, CVI 5Mpx, analog 960H
Monitor Output	main (split screen, full screen, sequence): 1 x HDMI (FullHD), 1 x VGA (FullHD), 1 x BNC • spot: 1 x BNC interchangeably to main output (only analog cameras for spot display)
IP Streams	hybrid mode: 4 x BNC + 2 x IP
Supported IP resolution	max. 2592 x 1944

AUDIO

Audio Input/Output	1 x RCA (Line-in)/1 x HDMI, 1 x RCA
--------------------	-------------------------------------

RECORDING

Compression	H.264, H.265
Recording Speed	120 fps (1280 x 720 - HD) • 120 fps (960 x 1080 - 1080p Lite) • 60 fps (1920 x 1080 - FullHD) • 60 fps (1280 x 1440 - 4Mpx Lite) • 40 fps (1280 x 1944 - 5Mpx Lite)
IP recording speed	hybrid mode: 60fps
IP stream size	hybrid mode: 16 Mb/s in total from all IP cameras
Recording Mode	continuous, triggered by: REC/PANIC button, motion detection, image analysis
Schedule	individual settings for: each camera, each day of the week, configuration with an accuracy of: 1 min, possibility of combining individual recording modes
Prealarm/postalarm	up to 5 s/up to 10 min

PLAYBACK

Playback speed	120 fps
IP playback speed	60 fps
Recorded Data Search	by date/time, events, image analysis events, motion in a defined area, tags

BACKUP

Backup Methods	USB port (HDD or Flash memory), network
Backup File Format	AVI, RPAS (player included)

STORAGE

Internal storage	available mount: 1 x HDD 3.5" SATA
Total Internal Capacity	10 TB

ALARM

Motion Detection	18 x 22 grid, individual settings of sensitivity
------------------	--

Multistandard AHD Recorder

NHDR-6004-H1-II

System Reaction to Alarm Events buzzer, e-mail, recording activation, PTZ, Full Screen

INTELLIGENT IMAGE ANALYSIS

Number of channels	4 x BNC, 2 x IP (6000 Serie)
Supported functions for analog cameras	Line cross, Zone entrance
Supported functions for IP cameras	Object detection, Exception, Line cross, Zone entrance

NETWORK

Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Network Protocols Support	HTTP, TCP/IP, IPv4, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, UPnP, PPPoE, SMTP, P2P
PC/MAC Software	NMS, Internet Explorer, N Control 6000/N Control 6000
Mobile applications	SuperLive Plus (iPhone, Android)
Max. Number of Connections with DVR	5 (live monitoring: 5, playback: 5, configuration: 5) , live monitoring up to 10 mainstreams, 24 substreams, playback up to 5 streams
Bandwidth	40 Mb/s in total to all client workstations

PTZ

PTZ Ports	1 x RS-485
PTZ Protocols	Pelco-D, Pelco-P
PTZ Functions	pan/tilt/zoom, preset commands, patterns

COAX

COAX Functions	menu, zoom, focus, PTZ
----------------	------------------------

AUXILIARY INTERFACES

USB Ports	2 x USB 2.0
-----------	-------------

OPERATING SYSTEM

Operating System	Linux
OSD	languages: Polish, English, Russian, others
Control	IR remote controller, PC mouse (in-set included), network
System Diagnostic	automatic control of: HDDs, camera connection loss
Security	password protection, IP filtering

INSTALLATION PARAMETERS

Dimensions (mm)	255 (W) x 42 (H) x 222 (D)
Weight	0.69 kg (without HDD)
Power Supply	12 VDC (100 ~ 240 VAC/12 VDC PSU in-set included)
Power Consumption	20 W (with 1 HDD)
Operating Temperature	-10°C ~ 50°C

The recorder is dedicated to work with AHD cameras, Novus 6000 series IP cameras and achieves the best functionality with them. In case of work with IP cameras intelligent image analysis, dualstream mode, PTZ control, motion detection and alarm inputs / outputs functions depend on the functionality of the IP camera and the capabilities of the communication protocol. Detailed data on camera compatibility with recorders and compatible hard drives can be found in the compatibility tables available in the **DOWNLOADABLE FILES** tab.

Display and playback speeds are achieved using dual stream.

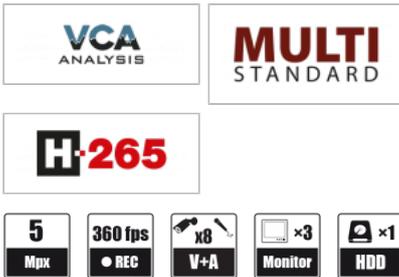
The recording speed of analog cameras may be limited during playback.

Multistandard AHD Recorder NHDR-6008-H1-II



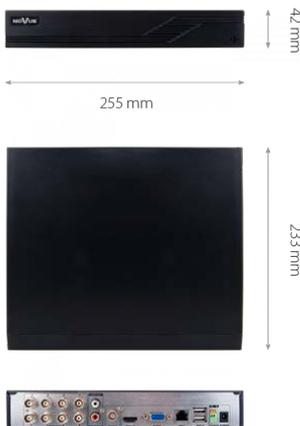
6000 VSS HYBRID

KEY FEATURES



- Video channels: 8, audio channels: 1
- Recording speed: up to 240 fps (AHD), up to 120 fps (IP)
- Internal HDDs mount: up to 1
- Monitor outputs: 3 (2 x main, 1 x spot)
- Supports HD analog cameras (720p, 1080p, 4MPX, 5MPX)
- Supports AHD, TVI, CVI cameras
- IP cameras support (hybrid mode)
- Intelligent image analysis

DIMENSIONS



VIDEO

Video Input	8 x BNC
Operating mode	AHD 5Mpx, TVI 5Mpx, CVI 5Mpx, analog 960H
Monitor Output	main (split screen, full screen, sequence): 1 x HDMI (FullHD), 1 x VGA (FullHD), 1 x BNC • spot: 1 x BNC interchangeably to main output
IP Streams	hybrid mode: 8 x BNC + 4 x IP
Supported IP resolution	max. 2592 x 1944

AUDIO

Audio Input/Output	1 x RCA (Line-in)/1 x HDMI, 1 x RCA
--------------------	-------------------------------------

RECORDING

Compression	H.264, H.265
Recording Speed	240 fps (1280 x 720 - HD) • 240 fps (960 x 1080 - 1080p Lite) • 120 fps (1920 x 1080 - FullHD) • 120 fps (1280 x 1440 - 4Mpx Lite) • 80 fps (1280 x 1944 - 5Mpx Lite)
IP recording speed	hybrid mode: 120fps
IP stream size	hybrid mode: 32 Mb/s in total from all IP cameras
Recording Mode	continuous, triggered by: REC/PANIC button, alarm input, motion detection, image analysis
Schedule	individual settings for: each camera, each day of the week, configuration with an accuracy of: 1 min, possibility of combining individual recording modes
Prealarm/postalarm	up to 5 s/up to 10 min

PLAYBACK

Playback speed	240 fps
IP playback speed	120 fps
Recorded Data Search	by date/time, events, image analysis events, motion in a defined area, tags

BACKUP

Backup Methods	USB port (HDD or Flash memory), network
Backup File Format	AVI, RPAS (player included)

STORAGE

Internal storage	available mount: 1 x HDD 3.5" SATA
Total Internal Capacity	10 TB

ALARM

Motion Detection	18 x 22 grid, individual settings of sensitivity
System Reaction to Alarm Events	buzzer, e-mail, recording activation, PTZ, Full Screen

INTELLIGENT IMAGE ANALYSIS

Number of channels	8 x BNC, 4 x IP (6000 Serie)
Supported functions for analog cameras	Line cross, Zone entrance
Supported functions for IP cameras	Object detection, Exception, Line cross, Zone entrance

NETWORK

Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Network Protocols Support	HTTP, TCP/IP, IPv4, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, UPnP, PPPoE, SMTP, P2P
PC/MAC Software	NMS, Internet Explorer, N Control 6000/N Control 6000
Mobile applications	SuperLive Plus (iPhone, Android)
Max. Number of Connections with DVR	5 (live monitoring: 5, playback: 5, configuration: 5) , live monitoring up to 16 mainstreams, 48 substreams, playback up to 8 streams
Bandwidth	60 Mb/s in total to all client workstations

PTZ

PTZ Ports	1 x RS-485
PTZ Protocols	Pelco-D, Pelco-P
PTZ Functions	pan/tilt/zoom, preset commands, patterns

COAX

COAX Functions	menu, zoom, focus, PTZ
----------------	------------------------

AUXILIARY INTERFACES

USB Ports	2 x USB 2.0
-----------	-------------

OPERATING SYSTEM

Operating System	Linux
OSD	languages: Polish, English, Russian, others
Control	IR remote controller, PC mouse (in-set included), network
System Diagnostic	automatic control of: HDDs, camera connection loss
Security	password protection, IP filtering

INSTALLATION PARAMETERS

Dimensions (mm)	255 (W) x 42 (H) x 233 (D)
Weight	0.77 kg (without HDD)
Power Supply	12 VDC (100 ~ 240 VAC/12 VDC PSU in-set included)
Power Consumption	20 W (with 1 HDD)
Operating Temperature	-10°C ~ 50°C

The recorder is dedicated to work with AHD cameras, Novus 6000 series IP cameras and achieves the best functionality with them. In case of work with IP cameras intelligent image analysis, dualstream mode, PTZ control, motion detection and alarm inputs / outputs functions depend on the functionality of the IP camera and the capabilities of the communication protocol. Detailed data on camera compatibility with recorders and compatible hard drives can be found in the compatibility tables available in the **DOWNLOADABLE FILES** tab.

Display and playback speeds are achieved using dual stream.

The recording speed of analog cameras may be limited during playback.

Multistandard AHD Recorder NHDR-6116-H2-II



6000 VSS HYBRID

KEY FEATURES



- Video channels: 16, audio channels: 8
- Recording speed: up to 480 fps (AHD), up to 480 fps (IP)
- Internal HDDs mount: up to 2
- Monitor outputs: 3 (2 x main, 1 x spot)
- Supports HD analog cameras (720p, 1080p, 4MPX, 5MPX)
- Supports AHD, TVI, CVI cameras
- IP cameras support (hybrid mode)
- Intelligent image analysis

DIMENSIONS



VIDEO

Video Input	16 x BNC
Operating mode	AHD 5Mpx, TVI 5Mpx, CVI 5Mpx, analog 960H
Monitor Output	main (split screen, full screen, sequence): 1 x HDMI (FullHD), 1 x VGA (FullHD), 1 x BNC • spot: 1 x BNC interchangeably to main output
IP Streams	hybrid mode: 16 x BNC + 8 x IP • IP mode: 8 x BNC + 16 x IP
Supported IP resolution	max. 2592 x 1944

AUDIO

Audio Input/Output	8 x RCA (Line-in)/1 x HDMI, 1 x RCA
--------------------	-------------------------------------

RECORDING

Compression	H.264, H.265
Recording Speed	480 fps (1280 x 720 - HD) • 480 fps (960 x 1080 - 1080p Lite) • 240 fps (1920 x 1080 - FullHD) • 240 fps (1280 x 1440 - 4Mpx Lite) • 160 fps (1280 x 1944 - 5Mpx Lite)
IP recording speed	hybrid mode: 240fps • IP mode: 480fps
IP stream size	hybrid mode: 32 Mb/s in total from all IP cameras • IP mode: 64 Mb/s in total from all IP cameras
Recording Mode	continuous, triggered by: REC/PANIC button, alarm input, motion detection, image analysis
Schedule	individual settings for: each camera, each day of the week, configuration with an accuracy of: 1 min, possibility of combining individual recording modes
Prealarm/postalarm	up to 5 s/up to 10 min

PLAYBACK

Playback speed	480 fps
IP playback speed	480 fps
Recorded Data Search	by date/time, events, image analysis events, motion in a defined area, tags

BACKUP

Backup Methods	USB port (HDD or Flash memory), network
Backup File Format	AVI, RPAS (player included)

STORAGE

Internal storage	available mount: 2 x HDD 3.5" SATA
Total Internal Capacity	16 TB

ALARM

Alarm Input/Output	16/4 relay type
--------------------	-----------------

Multistandard AHD Recorder

NHDR-6116-H2-II

Motion Detection	18 x 22 grid, individual settings of sensitivity
System Reaction to Alarm Events	buzzer, e-mail, alarm output activation, recording activation, PTZ, Full Screen

INTELLIGENT IMAGE ANALYSIS

Supported functions for analog cameras	Line cross, Zone entrance
Supported functions for IP cameras	Object detection, Exception, Line cross, Zone entrance

NETWORK

Network Interface	1 x Ethernet - RJ-45 interface, 10/100/1000 Mbit/s
Network Protocols Support	HTTP, TCP/IP, IPv4, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, UPnP, PPPoE, SMTP, P2P, HTML5
PC/MAC Software	NMS, Internet Explorer, Firefox, Chrome, Opera, N Control 6000, Edge/Safari, N Control 6000
Mobile applications	SuperLive Plus (iPhone, Android)
Number of Simultaneous Connections	up to 10 (live monitoring: 10, playback: 10, configuration: 10) , live monitoring up to 28 mainstreams, 96 substreams, playback up to 8 streams
Bandwidth	96 Mb/s in total to all client workstations

PTZ

PTZ Ports	1 x RS-485
PTZ Protocols	Pelco-D, Pelco-P
PTZ Functions	pan/tilt/zoom, preset commands, patterns

COAX

COAX Functions	menu, zoom, focus, PTZ
----------------	------------------------

AUXILIARY INTERFACES

USB Ports	1 x USB 2.0, 1 x USB 3.0
-----------	--------------------------

OPERATING SYSTEM

Operating System	Linux
OSD	languages: Polish, English, Russian, others
Control	IR remote controller, PC mouse (in-set included), network
System Diagnostic	automatic control of: HDDs, camera connection loss
Security	password protection, IP filtering

INSTALLATION PARAMETERS

Dimensions (mm)	380 (W) x 45 (H) x 268 (D)
RACK Mount 19"	1U
Weight	1.72 kg (without HDD)
Power Supply	12 VDC (100 ~ 240 VAC/12 VDC PSU in-set included)
Power Consumption	48 W (with 2 HDDs)
Operating Temperature	-10°C ~ 50°C

Multistandard AHD Recorder NHDR-6016-H1



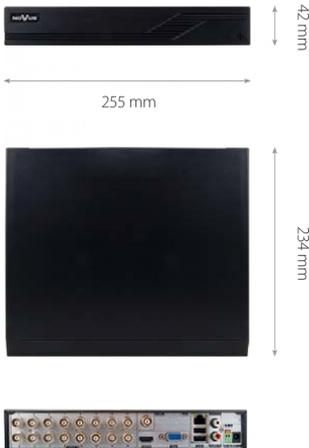
6000 VSS
HYBRID

KEY FEATURES



- Video channels: 16, audio channels: 1
- Recording speed: up to 480 fps (AHD), up to 480 fps (IP)
- Internal HDDs mount: up to 1
- Monitor outputs: 3 (2 x main, 1 x spot)
- Supports HD analog cameras (720p, 1080p, 4MPX, 5MPX)
- Supports AHD, TVI, CVI cameras
- IP cameras support (hybrid mode)
- Intelligent image analysis

DIMENSIONS



VIDEO

Video Input	16 x BNC
Operating mode	AHD 5Mpx, TVI 5Mpx, CVI 5Mpx, analog 960H
Monitor Output	main (split screen, full screen, sequence): 1 x HDMI (FullHD), 1 x VGA (FullHD), 1 x BNC • spot: 1 x BNC interchangeably to main output
IP Streams	hybrid mode: 16 x BNC + 8 x IP • IP mode: 8 x BNC + 16 x IP
Supported IP resolution	max. 2592 x 1944

AUDIO

Audio Input/Output	1 x RCA (Line-in)/1 x HDMI, 1 x RCA
--------------------	-------------------------------------

RECORDING

Compression	H.264, H.265
Recording Speed	480 fps (1280 x 720 - HD) • 480 fps (960 x 1080 - 1080p Lite) • 240 fps (1920 x 1080 - FullHD) • 240 fps (1280 x 1440 - 4Mpx Lite) • 160 fps (1280 x 1944 - 5Mpx Lite)
IP recording speed	hybrid mode: 240fps • IP mode: 480fps
IP stream size	hybrid mode: 32 Mb/s in total from all IP cameras • IP mode: 64 Mb/s in total from all IP cameras
Recording Mode	continuous, triggered by: REC/PANIC button, motion detection, image analysis
Schedule	individual settings for: each camera, each day of the week, configuration with an accuracy of: 1 min, possibility of combining individual recording modes
Prealarm/postalarm	up to 5 s/up to 10 min

PLAYBACK

Playback speed	480 fps
IP playback speed	480 fps
Recorded Data Search	by date/time, events, image analysis events, motion in a defined area, tags

BACKUP

Backup Methods	USB port (HDD or Flash memory), network
Backup File Format	AVI, RPAS (player included)

STORAGE

Internal storage	available mount: 1 x HDD 3.5" SATA
Total Internal Capacity	8 TB

ALARM

Motion Detection	18 x 22 grid, individual settings of sensitivity
------------------	--

Multistandard AHD Recorder

NHDR-6016-H1

System Reaction to Alarm Events buzzer, e-mail, recording activation, PTZ, Full Screen

INTELLIGENT IMAGE ANALYSIS

Supported functions for analog cameras Object detection, Line cross

Supported functions for IP cameras Object detection, Exception, Line cross, Zone entrance

NETWORK

Network Interface 1 x Ethernet - RJ-45 interface, 10/100 Mbit/s

Network Protocols Support HTTP, TCP/IP, IPv4, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, UPnP, PPPoE, SMTP, P2P

PC/MAC Software NMS, Internet Explorer, NVR-6000 Viewer, N Control 6000/N Control 6000

Mobile applications SuperLive Plus (iPhone, Android)

Max. Number of Connections with DVR 10 (live monitoring: 10, playback: 8, configuration: 10) , live monitoring up to 28 mainstreams, 96 substreams, playback up to 8 streams

Bandwidth 80 Mb/s in total to all client workstations

PTZ

PTZ Ports 1 x RS-485

PTZ Protocols Pelco-D, Pelco-P

PTZ Functions pan/tilt/zoom, preset commands, patterns

COAX

COAX Functions menu, zoom, focus, PTZ

AUXILIARY INTERFACES

USB Ports 2 x USB 2.0

OPERATING SYSTEM

Operating System Linux

OSD languages: Polish, English, Russian, others

Control IR remote controller, PC mouse (in-set included), network

System Diagnostic automatic control of: HDDs, camera connection loss

Security password protection, IP filtering

INSTALLATION PARAMETERS

Dimensions (mm) 255 (W) x 42 (H) x 234 (D)

Weight 0.92 kg (without HDD)

Power Supply 12 VDC (100 ~ 240 VAC/12 VDC PSU in-set included)

Power Consumption 20 W (with 1 HDD)

Operating Temperature -10°C ~ 50°C

The recorder is dedicated to work with AHD cameras, Novus 3000 and 6000 series IP cameras and achieves the best functionality with them. In case of work with IP cameras intelligent image analysis, dualstream mode, PTZ control, motion detection and alarm inputs / outputs functions depend on the functionality of the IP camera and the capabilities of the communication protocol. Detailed data on camera compatibility with recorders and compatible hard drives can be found in the compatibility tables available in the DOWNLOADABLE FILES tab.

Display and playback speeds are achieved using dual stream.

The recording speed of analog cameras may be limited during playback.

05

IR LED ILLUMINATORS



IR LED Illuminator NV-IR60/150LED



KEY FEATURES



KEY FEATURES

- outdoor range up to 150 m
- 60° LED angle
- Extended IR LED life
- Adjustable IR LED intensity
- Adjustable visible light sensor sensitivity
- Weatherproof enclosure

DIMENSIONS



IR LED

LED Number	20 High Power LEDs
Range	150 m
Angle	60°
Wavelength	850 nm

INSTALLATION PARAMETERS

Dimensions (mm)	127 (W) x 205 (H) x 135 (L)
Weight	1.64 kg
Enclosure	aluminium, black, in-set included: bracket
Power Supply	12 VDC/24 VAC
Power Consumption	45 W
Operating Temperature	-35°C ~ 50°C
Degree of Protection	IP 66

IR LED Illuminator NV-IR60/80LED



KEY FEATURES



KEY FEATURES

- range up to 80 m
- 60° LED angle
- visible light sensor
- Weatherproof enclosure

DIMENSIONS



IR LED

LED Number	147 diodes
Range	80 m
Angle	60°
Wavelength	850 nm

INSTALLATION PARAMETERS

Dimensions (mm)	157 ϕ x 228 (length)
Weight	2.4 kg
Enclosure	aluminium, black, in-set included: bracket
Power Supply	12 VDC/24 VAC
Power Consumption	17W at 12VDC, 30W at 24VAC
Operating Temperature	-30°C ~ 40°C
Degree of Protection	IP 66

IR LED Illuminator NV-IR120/40LED



KEY FEATURES



KEY FEATURES

- range up to 40 m
- 120° LED angle
- visible light sensor
- Weatherproof enclosure

DIMENSIONS



IR LED

LED Number	147 diodes
Range	40 m
Angle	120°
Wavelength	850 nm

INSTALLATION PARAMETERS

Dimensions (mm)	157 ϕ x 228 (length)
Weight	2.4 kg
Enclosure	aluminium, black, in-set included: bracket
Power Supply	12 VDC/24 VAC
Power Consumption	17W at 12VDC, 30W at 24VAC
Operating Temperature	-30°C ~ 40°C
Degree of Protection	IP 66

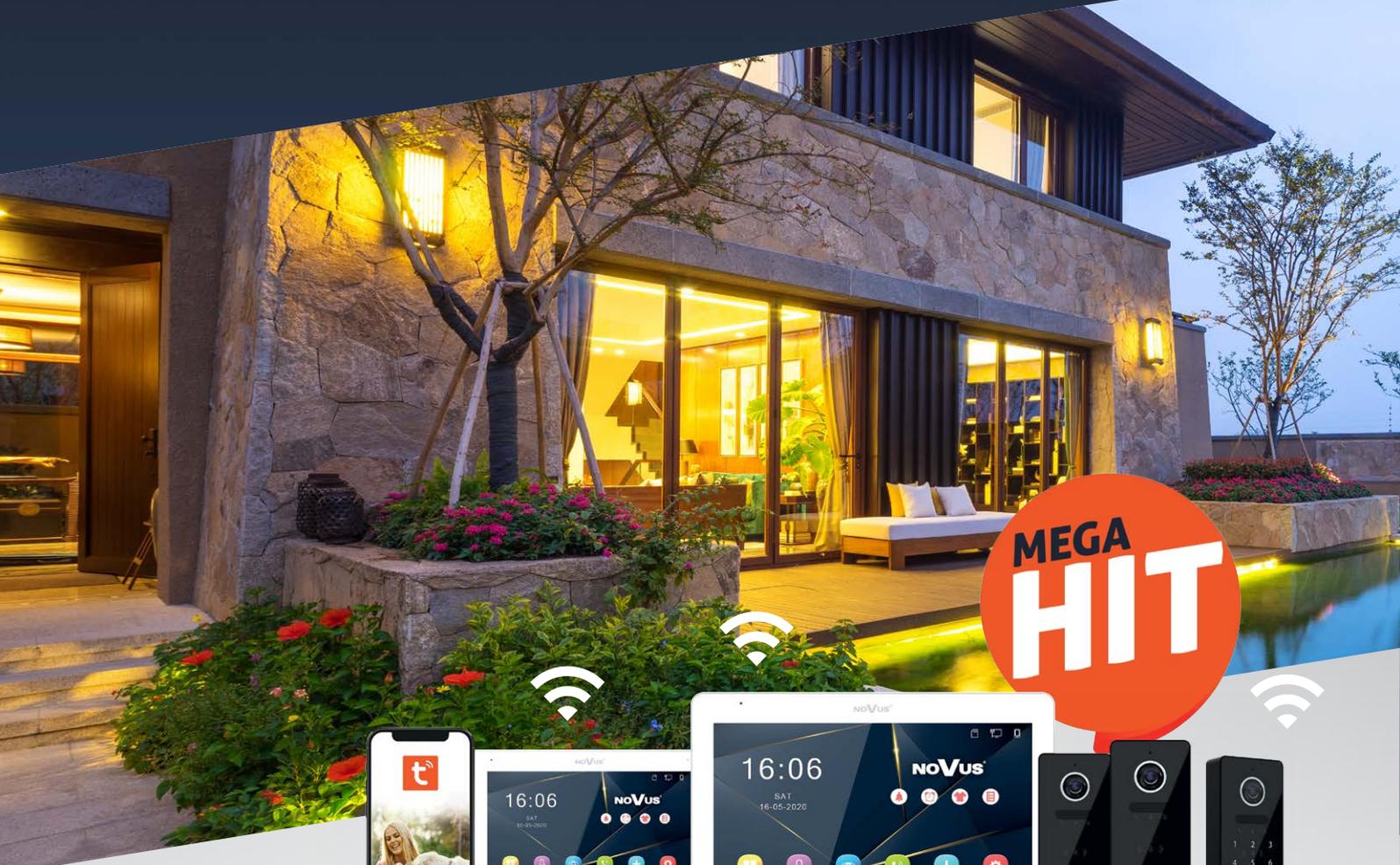


IP VIDEO INTERCOMMS

noVus®

IP VIDEO INTERCOMS

Sense of safety



VIDEO INTERCOM
100
SERIES



The perfect solution
for single-family houses!

Professional and modern

NOVUS video-intercom system



AAT SYSTEMY BEZPIECZEŃSTWA sp. z o.o.

431 Pulawska St, 02-801 Warsaw, Poland, phone +48 22 546 05 46, fax +48 22 546 05 01

www.aat.pl

BENEFITS

HYBRID SYSTEM

Clean and convenient installation without forging or laying wires. The NVE-EPV101KPWIFI monitors and panel support Wi-Fi technology, so they can work in a wireless network.

CAMERAS PREVIEW

Integration with the VSS system allows to display up to 8 video streams which can be viewed through the TuYa Smart APP.

DVR FUNCTION

Once detected, the monitors or panel * will record video for 1 minute followed by one minute pause. After another detection occurs, the system will record video for 1 minute. Only the first 4 streams added to the monitor can be recorded. Streams 5-8 can only be previewed.

REGISTRATION OF GUESTS

Are you not at home? Have you disabled call redirection to the app? The system will save a video or photo of the person who tried to visit you.

MESSAGE FOR CUSTOMERS

Do you run a home business and finally have a vacation? Record a message to your clients that will be played from the speaker of the entry panel!

HIGH QUALITY AUDIO

Enjoy clear sound and hassle-free conversation with the visitor!

NIGHT MODE

Schedule the hours for the monitor to work in the evening and never again a loud bell will wake up the whole house at midnight.

POSSIBILITY OF PERSONALIZATION

Do you have a favorite picture and you like the type of music you choose? Set a photo as the background and a song as your panel ringtone.

ADDITIONAL FEATURES

User monitor is not only a video-intercom, it can display the time or your favorite photos uploaded to SD card.

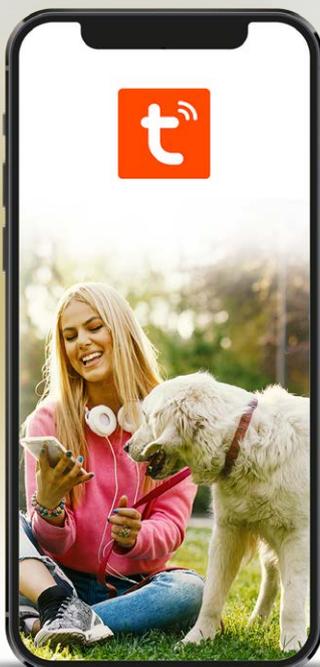


MOBILE APP

- > **redirecting calls** z from panels to the application and the possibility of talking to guests
- > **playback of recordings from the internal memory** of monitors or panels*
- > **door, gate contro**
- > **preview from panels and IP cameras** with the possibility of saving photos and recording videos
- > **PUSH alarm notifications** for motion detection function

*NVE-EPV101KPWIFI

**Wherever you are, whatever you are doing,
use the mobile app
to see who is going to visit you!**



More info on website
wideodomofouy.aat.pl



IP User monitor NVE-MV107WIFI



NVE-MV107WIFI villa user monitor is an elegant and aesthetically made device designed for installation in a residential or office. A large 7" color screen and an intuitive menu allows quick and convenient use of its functions. In addition to the basic functions (camera image display, door opening), the on-screen menu also allows you to view and delete voice messages, photos and videos as well as play music. Internal memory of the device allows you to save up to 100 photos. The built-in loudspeaker and microphone facilitate operation and communication with the guest. Communication with another user is also possible thanks to the intercom function. The optionally connection of eight cameras can create a simple VSS system enriched with motion detections.

Included:

- IP User monitor
- wall bracket compatible with electric box 60 mm
- 2x fixing screws and expansion bolts
- RJ45 adapter with cable
- short manual

Device type	IP Indoor monitor
Display	LCD TFT
Resolution	1024 x 600 px
Diagonal	7"
Video coding	H.265 (default); H.264
Power supply input	15 V DC
PoE	48 V DC (802.3af)
Power consumption	530mA 8 W (Max.)
Ringbell output	NO Relay (4 A / 36 V DC/AC)
Port LAN	1 x 10M / 100M Ethernet
Wi-Fi	Dual Band 2,4 GHz/5 GHz (IEEE 802.11 a/b/g/n)
Additional functions	SD card slot, volume control, monitoring of the view from cameras, intercom calls, voice mail, photos and video recording, mobile application via WIFI, doorbell, Status LED
Dimensions	188 x 136 x 22 mm
Weight	380g
Operating temperature	from -10 to 50 °C
Color	Signal White (RAL9003)

IP User monitor

NVE-MV110WIFI



NVE-MV110WIFI villa user monitor is an elegant and aesthetically made device designed for installation in a residential or office. A large 10,1 "color screen and an intuitive menu allows quick and convenient use of its functions. In addition to the basic functions (camera image display, door opening), the on-screen menu also allows you to view and delete voice messages, photos and videos as well as play music. Internal memory of the device allows you to save up to 100 photos. The built-in loudspeaker and microphone facilitate operation and communication with the guest. Communication with another user is also possible thanks to the intercom function. The optionally connection of eight cameras can create a simple VSS system enriched with motion detections.

Included:

- IP User monitor
- wall bracket compatible with electric box 60 mm
- 2x fixing screws and expansion bolts
- RJ45 adapter with cable
- short manual

Device type	IP Indoor monitor
Display	LCD TFT
Resolution	1024 x 600 px
Diagonal	10"
Video coding	H.265 (default); H.264
Power supply input	15 V DC
PoE	48 V DC (802.3af)
Power consumption	530mA 8 W (Max.)
Ringbell output	NO Relay (4 A / 36 V DC/AC)
Port LAN	1 x 10M / 100M Ethernet
Wi-Fi	Dual Band 2,4 GHz/5 GHz (IEEE 802.11 a/b/g/n)
Additional functions	SD card slot, volume control, monitoring of the view from cameras, intercom calls, voice mail, photos and video recording, mobile application via WIFI, doorbell, Status LED
Dimensions	255 x 180 x 21 mm
Weight	732g
Operating temperature	from -10 to 50 °C
Color	Signal White (RAL9003)

IP Entrance panel

NVE-EPV101P



NVE-EPV101P villa entrance panel is an elegant and aesthetic device designed for outdoor use, e.g. in front of the entrance to the property. It allows to easily communicate with the owner of the house using the bell button and the built-in color camera. IR illumination allows trouble-free use of the panel also at night. The built-in Unique 125 kHz proximity card reader allows to create a simple access control and facilitates the daily use of the system. Support for two relays allows to control both the wicket and the gate.

Included:

- IP Entrance panel
- wall bracket
- 2x fixing screws and expansion bolts
- inner hexagon screw
- allen wrench
- 3x proximity tag
- RJ45 adapter
- nameplate sticker
- thimble
- short manual

Device type	IP Entrance panel
Number of users	1
Sensor	CMOS HD 2 MPx
Resolution	1920 x 1080 px
View angle	120 °
Video coding	H.265 (default); H.264
Power supply input	15 V DC
PoE	48 V DC (802.3af)
Power consumption	300mA 4,5 W (Max.)
Lock output	NO Relay (4 A / 36 V DC/AC)
Gate output	NO Relay (4 A / 36 V DC/AC)
Port LAN	1 x 10M / 100M Ethernet
Wi-Fi	No
Standalone mode	No
Card reader format	Unique
Number of cards supported	100
Numeric keyboard	No
Access Code	No
Additional functions	LED IR, mounting on an angular bracket, Status LEDs

Dimensions	154 x 55 x 21 mm
Weight	375g
Protection code	IP66
Operating temperature	from -40 to 60 °C
Color	Graphite black (RAL9011)

IP Entrance panel

NVE-EPV102P



NVE-EPV102P villa entrance panel is an elegant and aesthetic device designed for outdoor use, e.g. in front of the entrance to the property. It allows to easily communicate with the homeowners using the bell button and the built-in color camera. IR illumination allows trouble-free use of the panel also at night. The built-in Unique 125 kHz proximity card reader allows to create a simple access control and facilitates the daily use of the system. Support for two relays allows to control both the wicket and the gate.

Included:

- IP Entrance panel
- wall bracket
- 2x fixing screws and expansion bolts
- inner hexagon screw
- allen wrench
- 3x proximity tag
- RJ45 adapter
- nameplate sticker
- thimble
- short manual

Device type	IP Entrance panel
Number of users	2
Sensor	CMOS HD 2 MPx
Resolution	1920 x 1080 px
View angle	120 °
Video coding	H.265 (default); H.264
Power supply input	15 V DC
PoE	48 V DC (802.3af)
Power consumption	300mA 4,5 W (Max.)
Lock output	NO Relay (4 A / 36 V DC/AC)
Gate output	NO Relay (4 A / 36 V DC/AC)
Port LAN	1 x 10M / 100M Ethernet
Wi-Fi	No
Standalone mode	No
Card reader format	Unique
Number of cards supported	100
Numeric keyboard	No
Access Code	No
Additional functions	LED IR, mounting on an angular bracket, Status LEDs

Dimensions	154 x 55 x 21 mm
Weight	380g
Protection code	IP66
Operating temperature	from -40 to 60 °C
Color	Graphite black (RAL9011)

IP/WIFI Entrance panel

NVE-EPV101KPWIFI



NVE-EPV101KPWIFI villa entrance panel is an elegant and aesthetic device designed for outdoor use, e.g. in front of the entrance to the property. It allows to easily communicate with the owner of the house using the bell button and the built-in color camera. IR illumination allows trouble-free use of the panel also at night. The built-in Unique 125 kHz proximity card reader and the numeric keypad allows to create a simple access control and facilitate the daily use of the system. Support for two relays allows to control both the wicket and the gate. The third relay allows to connect an additional bell. Thanks to the use of WiFi technology, the panel can also work autonomously with the Tuya Smart application and / or wirelessly with subscriber monitors.

Included:

- IP Entrance panel
- WIFI antenna
- wall bracket
- 2x fixing screws and expansion bolts
- inner hexagon screw
- allen wrench
- 3x proximity tag
- RJ45 adapter
- nameplate sticker
- thimble
- short manual

Device type	IP Entrance panel
Number of users	1
Sensor	CMOS HD 2 MPx
Resolution	1920 x 1080 px
View angle	120 °
Video coding	H.265 (default); H.264
Power supply input	15 V DC
Power consumption	300mA 4,5 W (Max.)
Lock output	NO Relay (4 A / 36 V DC/AC)
Gate output	NO Relay (4 A / 36 V DC/AC)
Ringbell output	NO Relay (4 A / 36 V DC/AC)
Port LAN	1 x 10M / 100M Ethernet
Wi-Fi	Dual Band 2,4 GHz/5 GHz (IEEE 802.11 a/b/g/n)
Standalone mode	Yes
Card reader format	Unique
Number of cards supported	100
Numeric keyboard	Yes

Access Code	Yes
Additional functions	LED IR, mobile application via WIFI, mounting on an angular bracket, Status LEDs, Stand alone mode
Dimensions	154 x 55 x 21 mm
Weight	380g
Protection code	IP66
Operating temperature	from -40 to 60 °C
Color	Graphite black (RAL9011)

noVus®



VIDEO INTERCOMS

Sense of safety!

**ONLY A FEW DEVICES
ENDLESS POSSIBILITIES OF EXPANSION**

**QUICK AND EASY SYSTEM SCALING
THANKS TO IP TECHNOLOGY**



MOBILE APP

- > call forward from monitors to app and possibility of voice chat with guests
- > control of door/wicket and gate
- > preview image of entrance panel's cameras with possibility of saving photos and recording videos
- > alarm Push notifications



see how it works



AAT SYSTEMY BEZPIECZEŃSTWA sp. z o.o.

431 Pulawska St, 02-801 Warsaw, Poland, phone +48 22 546 05 46, fax +48 22 546 05 01

www.aat.pl



The **NVE-M200** IP user monitor is an elegant and aesthetically made device designed for installation in a residential or office space. The large color screen and intuitive menu allows quick and convenient use of its functions. In addition to the basic functions (camera image display, door opening), the on-screen menu also allows you to view and delete messages and photos. The device's basic memory allows you to save up to 100 photos or 10 videos. Built-in speaker and microphone facilitate operation and communication with guests, security of the building or other premises. Communication with another subscriber is also possible by receiving and sending text messages entered from the keyboard displayed on the screen. The door opening command from the icon on the screen can be additionally password protected. Optionally eight input lines can create a simple alarm system enriched with images from cameras. The subscriber is armed / disarmed by means of an icon on the screen. The alarm is signaled locally and on the security monitor. Disabling the alarm requires a special password.

Device type	Indoor monitor
Display	LCD TFT
Resolution	1024 x 600 px
Diagonal	7"
Power supply input	12 V DC
PoE	48 V DC (standard PoE)
Additional functions	alarm functions, SD card slot, volume control, monitoring of the view from cameras, intercom calls, text messages, voice mail, photos and video recording
Power consumption	300mA
Operating temperature	from -10 to 55 °C
Dimensions	210 x 140 x 20 mm

IP user monitor NVE-M200WIFI



The **NVE-M200** IP user monitor is an elegant and aesthetically made device designed for installation in a residential or office space. The large color screen and intuitive menu allows quick and convenient use of its functions. In addition to the basic functions (camera image display, door opening), the on-screen menu also allows you to view and delete messages and photos. The device's basic memory allows you to save up to 100 photos or 10 videos. Built-in speaker and microphone facilitate operation and communication with guests, security of the building or other premises. Communication with another subscriber is also possible by receiving and sending text messages entered from the keyboard displayed on the screen. The door opening command from the icon on the screen can be additionally password protected. Optionally eight input lines can create a simple alarm system enriched with images from cameras. The subscriber is armed / disarmed by means of an icon on the screen. The alarm is signaled locally, on the security monitor and by PUSH notifications through mobile app. Disabling the alarm requires a special password.

Device type	Indoor monitor
Display	LCD TFT
Resolution	1024 x 600 px
Diagonal	7"
Power supply input	12 V DC
PoE	48 V DC (standard PoE)
Additional functions	alarm functions, additional door panel, SD card slot, volume control, monitoring of the view from cameras, intercom calls, text messages, voice mail, photos and video recording, mobile application via WIFI
Power consumption	300mA
Operating temperature	from -10 to 55 °C
Dimensions	210 x 140 x 20 mm

IP Guard monitor

NVE-GM200



The **NVE-GM200** IP guard monitor is an elegant and aesthetically made device designed for installation in a building's security room or housing estate. The large color screen and intuitive menu allows quick and convenient use of its functions. In addition to the basic functions (camera image display, door opening), the on-screen menu also allows you to view and delete messages and photos. The device's basic memory allows you to save up to 100 photos. Built-in speaker and microphone facilitate operation and communication with the guest or a selected apartment. Communication with the selected abonent is also possible by receiving and sending text messages entered from the keyboard displayed on the screen.

Device type	Security Monitor
Display	LCD TFT
Resolution	800 x 480 px
Diagonal	7"
Power supply input	12 V DC
PoE	18 V DC (only NVE-SW200-7P)
Additional functions	volume control, mounting on a stand, monitoring of alarm functions, monitoring of the view from cameras, text messages
Power consumption	300mA
Operating temperature	from -10 to 55 °C
Dimensions	326 x 206 x 56 mm

IP entrance panel

NVE-EP200

The NVE-EP200 IP entrance panel is intended for installation before entering a housing estate or a staircase in a building. Large, readable and integrated keyboard with an interface for an intuitive user to choose how to use the connection to the location or security of the object. Depending on the location of the panel menu available on the list, you can choose the block number (to enter the building) or change the premises (to enter the staircase). LED backlight allows for trouble-free use of the panel also at night. Recessed in the walls of the housing provides an esthetic appearance, resistance to vandalism and IP64 protection, useful for long periods of use.

Device type	Entrance panel
Display	LCD TFT
Resolution	320 x 240 px
View angle	128 °
Diagonal	7"
Card reader format	Unique
Additional functions	LED, vandal-proof housing, flush mounting
Power consumption	180mA
Operating temperature	from -40 to 55 °C
Protection code	IP64
IK Rating	IK07
Dimensions	318 x 130 x 51 mm
Sensor	Color camera 2Mpx

sPoE Switch

NVE-SW200-7P



The **NVE-SW200-7P** switch is a device intended for communication of other NVE system devices, i.e. input panels with monitors. Seven ports allow you to connect and power with sPoE 18VDC a group of devices and an additional UP-LINK port allows you to connect another switch if needed.

Device type	sPoE network switch
Additional functions	DIN rail mounting
Operating temperature	from 0 to 40 °C
Dimensions	178 x 115 x 53 mm
Ports	sPoE: 7 x 10/100Mb/s, UPLINK: 1 x 10/100Mb/s
Weight	262g

8-port PoE + switch with the possibility of mounting on a DIN rail

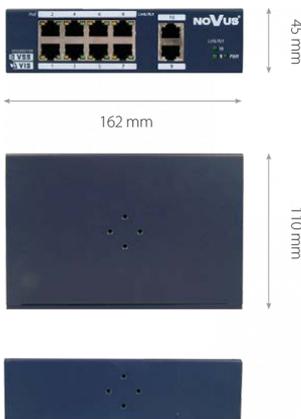
NVS-3308SP-DIN



KEY FEATURES

- 8 x 100Mb/s PoE+
- 2 x 1000Mb/s UPLINK
- Operating temperature: 0°C ÷ 40°C

DIMENSIONS



GENERAL

Device Type PoE+ Switch

NETWORK

Ports	PoE+ Ports: 8 x 10Mb/s / 100Mb/s (at the same time the number of available ports on the PoE + mode, limited by capacity power supply) • Ports RJ-45 UPLINK 1Gb/s: 2
PoE standards	IEEE802.3 af, IEEE802.3 at
PoE modes	Endspan (1,2+ / 3,6-)
Switching capacity	5.6 Gb/s
Protocols Support	IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-TX, IEEE 802.3x
MAC ADDRESS list	4K

INSTALLATION PARAMETERS

Case	Metal, color navy blue, enclosure with possibility to mount on DIN TH35 rail
Dimensions (mm)	162 (W) x 110 (H) x 45 (L)
Weight	700 g
Power Supply	48 - 56VDC
Power Consumption	120 W
Power Efficiency	114 W for ports 1 to 8, up to 30 W for one port
Operating Temperature	0°C ~ 40°C

Note that for the device to work properly, you need to buy a power supply with parameters in accordance with the specification.

Power supply

NVE-PS200



The **NVE-PS200** power supply is a device designed to power the other components of the NVE series system through the sPOE switches - NVE-SW200-7P. The impulse converter guarantees economical operation of the device. Convenient DIN rail mounting allows quick installation in one housing with switch NVE-SW200-7P. Several types of security guarantee safe operation.

Device type	Impulse power supply
Additional functions	DIN rail mounting
Operating temperature	from 0 to 50 °C
Dimensions	140 x 97 x 58 mm
Weight	355g
Input voltage	~100/240V @1.7A 50-60Hz
Output Voltage	18VDC
Output current	3A
Continuous power	63W
Protection	Overvoltage, Overload, Short circuit, Thermal

noVus[®]

Housing for surface mounting with a
rainshield for the NVE-EP200 panel

NVE-EPCOV-SUR



Housing for surface mounting with a rainshield, with oil painting aluminium alloy material. Intended for NVE-EP200 entrance panel.



noVus[®]

Frame for flush mounting with rainshield for
NVE-EP200 panel

NVE-EPCOV-FLUSH



Frame for flush mounting with rainshield, with oil painting aluminium alloy material. Intended for NVE-EP200 entrance panel.



noVus[®]

Bracket for mounting a user monitor with a
Ø60 flush-mounted gang box

NVE-MBRK



The NVE-MBRK bracket is designed for mounting a user monitor with the use of a Ø60 flush-mounted one-gang box. The one-gang box provides space for the RJ45 connector of the user monitor. The bracket allows to install the user monitor without the requirement to drill additional holes for mounting screws.





WWW.AAT.PL/EN

WWW.NOVUSCCTV.COM/EN