

## 8 MPX IP camera with Deep Learning-based image analysis and active deterrence

### NVIP-8H-4511/FWLAD

4000 VSS IP



#### KEY FEATURES



- Resolution: 8 MPX (4K Ultra HD)
- Lens: fixed focal, f=2.8 mm/F1.0
- active deterrence
- D/N function - IR cut filter
- Video content analysis based on Deep Learning
- microSD card support
- two-way audio
- Min. Illumination: 0.007 lx (0 lx, IR on)
- IR LED, range up to 25 m
- white LED illuminator, range up to 20 m
- "Two way power" - when connected to a PoE switch, it allows to power the low power receiver from the camera's power socket

#### COMPLIANCE



#### DIMENSIONS

The camera is dedicated to work with NOVUS 4000 series recorders. Detailed data can be found in the compatibility table available in the **DOWNLOADABLE FILES** tab.

#### IMAGE

Image Sensor	8 MPX CMOS sensor 1/2.7" SmartSens
Number of Effective Pixels	3840 (H) x 2160 (V)
Min. Illumination	0.007 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
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes

#### LENS

Lens Type	fixed focal, f=2.8 mm/F1.0
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#### DORI

DORI (Detection, Observation, Recognition, Identification)	for f = 2.8mm - D: 74.7m, O: 30m, R: 15m, I: 7.5m
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#### DAY/NIGHT

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

#### NETWORK

Stream Resolution	3840 x 2160 (4K Ultra HD), 3072 x 1728, 2560 x 1440 (QHD), 2592 x 1520, 2592 x 1944, 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 each resolution
Multistreaming Mode	number of streams: 3 (main stream, sub stream, third stream)
Video/Audio Compression	H.264, H.264+, H.265, H.265+/G.711
Number of Simultaneous Connections	max. 3 connections, (max. 40 streams in total)
Bandwidth	30 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, RTP, UPnP, SNMP, SMTP, P2P, HTML5
ONVIF Protocol Support	Profile G/S/T/M

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Camera Configuration	from Internet Explorer, Edge, Firefox, Chrome, Safari browser • languages: Polish, English, and others
Compatible Software	NOVUS MANAGEMENT SYSTEM VSS, NOVUS MANAGEMENT SYSTEM AC
Mobile applications	RxCamView (iPhone, Android)

#### VIDEO ANALYTICS

Functions	abandoned object, object disappearance, line cross, zone violation, multi loiter, face detection, cross counting, heat map, queue length detection, objects distinguishing, target counting by area
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#### OTHER FUNCTIONS

Privacy Zones	4 video mask type: single color
Motion Detection	yes
Region of interest (ROI)	8
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, push notification, active deterrent functions
Deterrent	white LEDs, steady/flashing light, red and blue LEDs, flashing light, • audio signaling device (siren), built-in speaker (custom voice messages)
Restoring default settings	via web browser, using reset button

#### IR LED

LED Number	1
Range	25 m
Smart IR	yes (hardware support)

#### WHITE LIGHT ILLUMINATOR

LED Number	2, warm white color
Range	20 m
Smart Light	yes (hardware support)

#### INTERFACES

Audio Input/Output	built-in microphone/speaker
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) 71 (Φ) x 150 (dł.)
Weight	0.36 kg
Degree of Protection	IP 66 (details in the user's manual)
Enclosure	aluminium, white, fully cable managed wall mount bracket in-set included • enclosure type: 4H-B
Power Supply	12 VDC, PoE (IEEE 802.3af, Class 3)
Surge protection	TVS 4000 V
Power Consumption	2.5 W • 3.8 W (IR illuminator on) • 5.3 W (white light illuminator on) • 7 W (active deterrence functions enabled)



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Operating Temperature	-35°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)

