# **NoVus**

# IP Camera with video content analysis based on Deep Learning

### **NVIP-4V-6511/F**





#### **KEY FEATURES**























•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

 $\bullet \mathsf{WDR} \mathsf{\ with\ double\ scan\ sensor}$ 

•Min. Illumination: 0.005 lx (0 lx, IR on)

•IR LED, range up to 20 m

#### **DIMENSIONS**







The camera is dedicated to work with NOVUS 6000 series recorders. Detailed data can be found in the compatibility table available in the  $\ensuremath{\mathsf{DOWNLOADABLE}}$  FILES tab.

### **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**

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

#### **DAY/NIGHT**

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





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Profile G/S

**Network Protocols Support** 

**ONVIF Protocol Support** 

HTTP, TCP/IP, IPv4, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DDNS, NTP, RTSP, UPnP, SNMP, QoS/DSCP, IEEE 802.1X, PPPoE, SMTP, RTCP, ICMP, Unicast, SSL/TLS

Camera Configuration	from Internet Explorer browser • languages: Polish, English, Russian, and others
Compatible Software	NOVUS MANAGEMENT SYSTEM VSS, NOVUS MANAGEMENT SYSTEM AC, N Control 6000
Mobile applications	SuperLive Plus (iPhone, Android)
VIDEO ANALYTICS	
Functions	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
OTHER FUNCTIONS	
Privacy Zones	4 video mask type: single color or 1 video mask type: mosaic
Motion Detection	yes
Region of interest (ROI)	8
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
	via web browser, using reset button, via NMS IPTool software
IR LED	via web browser, using reset button, via NMS IPTool software
IR LED LED Number	
IR LED LED Number Range	2
IR LED  LED Number  Range  Smart IR	2 20 m
IR LED  LED Number  Range  Smart IR  INTERFACES	2 20 m yes (software support)
IR LED  LED Number  Range  Smart IR  INTERFACES  Audio Input/Output	2 20 m yes (software support)  1 x Jack (3.5 mm)/- • built-in microphone
IR LED  LED Number  Range  Smart IR  INTERFACES  Audio Input/Output  Network Interface	2 20 m yes (software support)
IR LED LED Number Range Smart IR INTERFACES Audio Input/Output Network Interface Memory Card Slot	2 20 m  yes (software support)  1 x Jack (3.5 mm)/- • built-in microphone  1 x Ethernet - RJ-45 interface, 10/100 Mbit/s microSD - capacity up to 128GB
IR LED  LED Number  Range  Smart IR  INTERFACES  Audio Input/Output  Network Interface  Memory Card Slot  INSTALLATION PARAMETERS	2 20 m yes (software support)  1 x Jack (3.5 mm)/- • built-in microphone 1 x Ethernet - RJ-45 interface, 10/100 Mbit/s microSD - capacity up to 128GB
IR LED  LED Number  Range  Smart IR  INTERFACES  Audio Input/Output  Network Interface  Memory Card Slot  INSTALLATION PARAMETERS  Dimensions (mm)	2 20 m yes (software support)  1 x Jack (3.5 mm)/- • built-in microphone 1 x Ethernet - RJ-45 interface, 10/100 Mbit/s microSD - capacity up to 128GB  5 110 (Φ) x 60 (H)
IR LED  LED Number  Range  Smart IR  INTERFACES  Audio Input/Output  Network Interface  Memory Card Slot  INSTALLATION PARAMETERS  Dimensions (mm)  Weight	2 20 m yes (software support)  1 x Jack (3.5 mm)/- • built-in microphone  1 x Ethernet - RJ-45 interface, 10/100 Mbit/s microSD - capacity up to 128GB  S 110 (Φ) x 60 (H) 0.4 kg
IR LED  LED Number  Range  Smart IR  INTERFACES  Audio Input/Output  Network Interface  Memory Card Slot  INSTALLATION PARAMETERS  Dimensions (mm)  Weight  Degree of Protection	2 20 m yes (software support)  1 x Jack (3.5 mm)/- • built-in microphone  1 x Ethernet - RJ-45 interface, 10/100 Mbit/s microSD - capacity up to 128GB  S  110 (Φ) x 60 (H)  0.4 kg IP 66 (details in the user's manual)
IR LED  LED Number  Range  Smart IR  INTERFACES  Audio Input/Output  Network Interface  Memory Card Slot  INSTALLATION PARAMETERS  Dimensions (mm)  Weight  Degree of Protection  Enclosure	2 20 m yes (software support)  1 x Jack (3.5 mm)/- • built-in microphone 1 x Ethernet - RJ-45 interface, 10/100 Mbit/s microSD - capacity up to 128GB  S  110 (Φ) x 60 (H) 0.4 kg IP 66 (details in the user's manual) vandalproof, IK10 impact rating, aluminium, white
IR LED  LED Number  Range  Smart IR  INTERFACES  Audio Input/Output  Network Interface  Memory Card Slot  INSTALLATION PARAMETERS  Dimensions (mm)  Weight  Degree of Protection  Enclosure  Power Supply	2 20 m yes (software support)  1 x Jack (3.5 mm)/- • built-in microphone 1 x Ethernet - RJ-45 interface, 10/100 Mbit/s microSD - capacity up to 128GB  S  110 (Φ) x 60 (H) 0.4 kg IP 66 (details in the user's manual) vandalproof, IK10 impact rating, aluminium, white 12 VDC, PoE (IEEE 802.3af, Class 3)
IR LED  LED Number  Range  Smart IR  INTERFACES  Audio Input/Output  Network Interface  Memory Card Slot  INSTALLATION PARAMETERS  Dimensions (mm)  Weight  Degree of Protection  Enclosure  Power Supply  Surge protection	2 20 m yes (software support)  1 x Jack (3.5 mm)/- • built-in microphone 1 x Ethernet - RJ-45 interface, 10/100 Mbit/s microSD - capacity up to 128GB  S  110 (Φ) x 60 (H)  0.4 kg IP 66 (details in the user's manual) vandalproof, IK10 impact rating, aluminium, white 12 VDC, PoE (IEEE 802.3af, Class 3) TVS 4000 V
Restoring default settings  IR LED  LED Number  Range  Smart IR  INTERFACES  Audio Input/Output  Network Interface  Memory Card Slot  INSTALLATION PARAMETERS  Dimensions (mm)  Weight  Degree of Protection  Enclosure  Power Supply  Surge protection  Power Consumption  Operating Temperature	2 20 m yes (software support)  1 x Jack (3.5 mm)/- • built-in microphone 1 x Ethernet - RJ-45 interface, 10/100 Mbit/s microSD - capacity up to 128GB  S  110 (Φ) x 60 (H) 0.4 kg IP 66 (details in the user's manual) vandalproof, IK10 impact rating, aluminium, white 12 VDC, PoE (IEEE 802.3af, Class 3)





