



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

NVIP-8H-4511/FWLAD



## FUNCTIONS



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.

<b>Image</b>	
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
<b>Lens</b>	
Lens Type	fixed focal, f=2.8 mm/F1.0
<b>DORI</b>	
DORI (Detection, Observation, Recognition, Identification)	for f = 2.8mm - D: 74.7m, O: 30m, R: 15m, I: 7.5m
<b>Day/Night</b>	
Switching Type	mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Delay	1 – 36 s
<b>Network</b>	
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 Mbit/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
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)
<b>Video Analytics</b>	
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
<b>Other functions</b>	
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
<b>IR LED</b>	
LED Number	1
Range	25 m
Smart IR	yes (hardware support)
<b>White light illuminator</b>	
LED Number	2, warm white color
Range	20 m
Smart Light	yes (hardware support)
<b>Interfaces</b>	
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
<b>Installation parameters</b>	
Dimensions (mm)	with bracket: 71 (Φ) x 150 (L) 71 (Φ) x 150 (dl.)

## COMPLIANCE



## 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

## DIMENSIONS



71 mm (∅)



71 mm (∅)



150 mm

Weight	0.36 kg
Degree of Protection	IP 66 (details in the user's manual)
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)
Operating Temperature	-35°C ~ 60°C
Humidity	max. 95% relative (non-condensing)