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

NVIP-8VE-4501P/WLAD



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.

Image	
Image Sensor	8 MPX CMOS sensor 1/2.8" SONY STARVIS
Number of Effective Pixels	3840 (H) x 2160 (V)
Min. Illumination	0.04 lx/F2.4 - 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)	3D
Highlight Compensation (HLC)	yes
Back Light Compensation (BLC)	yes
Reduction of image flicker (Antiflicker)	yes
Lens	
Lens Type	fixed focal, f=2.0 mm/F2.4
DORI	
DORI (Detection, Observation, Recognition, Identification)	for f = 2.0mm - D: 58m, O: 23m, R: 11.6m, I: 6m
Day/Night	
Mode	day/night switching: mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Network	
Stream Resolution	3840 x 2160 (4K Ultra HD), 3072 x 1728, 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)
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. 10 streams in total)
Bandwidth	40 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, RTMP
ONVIF Protocol Support	Profile G/S/T/M
Camera Configuration	from Edge, Firefox, Chrome, Safari browser languages: Polish, English, Russian, and others
Compatible Software	NOVUS MANAGEMENT SYSTEM VSS
Mobile applications	ipGO 4 (iPhone, Android)
Video Analytics	
Functions	tamper, abandoned object, object disappearance, line cross, zone entrance, zone exit, zone violation, multi loiter, pedestrian detection, cross counting, heat map, queue length detection, objects distinguishing, vehicle detection, intrusion detection
Other functions	
Privacy Zones	6 video mask type: single color
Motion Detection	yes
Region of interest (ROI)	8
Audio Detection	decline detection, rise detection, rare sound detection
Image Processing	180˚ image rotation, corridor mode, 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, push notification, active deterrent functions
Determent	white LEDs, steady/flashing light, red and blue LEDs, flashing light, audio signaling device (siren)
Restoring default settings	via web browser, using reset button
IR LED	
LED Number	2
Range	25 m
Smart IR	yes (hardware support)
White light illuminator	
LED Number	2, warm white color
Range	15 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)	116 (Φ) x 98 (H)

COMPLIANCE

KEY FEATURES

- Resolution: 8 MPX (4K Ultra HD)
- Lens: fixed focal, f=2.0 mm/F2.4
- 180° horizontal viewing angle
- 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: 0.04 lx (0 lx, IR on)
- IR LED, range up to 25 m
- white LED illuminator, range up to 15 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



98 mm

116 mm (Ø)



Weight	0.6 kg
Degree of Protection	IP 67 (details in the user's manual)
Enclosure	vandalproof, aluminium, white enclosure type: 4VE-M
Power Supply	12 VDC, PoE (IEEE 802.3af, Class 3)
Surge protection	TVS 4000 V
Power Consumption	3 W, 5 W (IR illuminator on), 5 W (white light illuminator on), 7 W (active deterrence functions enabled)
Operating Temperature	-35°C ~ 60°C
Humidity	max. 95%, relative (non-condensing)