

5MPX IP camera with motorzoom lens, Deep Learning-based image analysis and active deterrence

### NVIP-5VE-4512M/FWLAD



4000 VSS

#### **KEY FEATURES**

INSERVICES INSERVICE INSERVICE





•Resolution: 5 MPX

+Lens: motorized, auto-focus function, f=2.8  $\sim$  12 mm/F1.2

•support for Chrome, Firefox, Opera, Safari browsers •D/N function - IR cut filter

•Video content analysis based on Deep Learning •Licence plate recognition (LPR)

- •microSD card support
- •WDR with double scan sensor
- •two-way audio
- •Min. Illumination: 0.003 lx (0 lx, IR on)
- •IR LED, range up to 30 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

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 Sensor	5 MPX CMOS sensor 1/2.7" SmartSens
Number of Effective Pixels	2880 (H) x 1620 (V)
Min. Illumination	0.003 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)
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/F1.2
Auto-focus	zoom trigger, manual trigger
DORI	
DORI (Detection, Observation, Recognition, Identification)	for f = 2.8mm - D: 56m, O: 22.4m, R: 11.2m, I: 5.6m • for f = 12mm D: 240m, O: 96m, R: 48m, I: 24m
DAY/NIGHT	
Mode	day/night switching: mechanical IR cut filter
Switching Mode	auto, manual
Switching Level Adjustment	yes
Switching Schedule	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	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 Connecti	onsmax. 10
Bitrate	for H.264 : 8 kbps - 8192 kbps • for H.265 : 8 kbps - 8192 kbps







128 mm

135 mm (Ø)



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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, Opera, 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	tamper, abandoned object, object disappearance, line cross, zone entrance, zone exit, multi loiter, face detection, pedestrian detection, cross counting, heat map, queue length detection, objects distinguishing, vehicle detection, intrusion detection, smart motion detection with objects distinguishing
OTHER FUNCTIONS	
Security	video encryption, IEEE 802.1X support, HTTPS support, MAC/IP address filtering, force change of default password
Privacy Zones	4 video mask type: single color
Motion Detection	yes
Region of interest (ROI)	8
Audio Detection	yes
Image Processing	$180^\circ$ 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, HTTP notification, active deterrent functions
Determent	white LEDs, steady/flashing light, red and blue LEDs, flashing light, • audio signaling device (siren), built-in speaker (predefined or custom voice messages)
Restoring default settings	via web browser, using reset button
LICENCE PLATE RECOGNITION	(IPR)
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
Data recorded in the camera base	recognition date/time, number of recognised licence plate, image of recognised licence plate, presence on the "white list" or "black list"
Reactions for the licence plate recognition	e-mail with attachment, saving file on FTP server
IR LED	
LED Number	2
Range	30 m
Smart IR	yes (hardware support)
WHITE LIGHT ILLUMINATOR	
	2, warm white color
LED Number	2, warm white color
LED Number Range	20 m
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# NoVus

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Memory Card SlotmicroSD - capacity up to 256GBINSTALLATION PARAMETERSDimensions (mm)135 (Φ) x 128 (H)Weight0.9 kgDegree of ProtectionIP 67 (details in the user's manual)Enclosurevandalproof, aluminium, white • enclosure type:Power Supply12 VDC, PoE (IEEE 802.3af, Klasa 3)Surge protectionTVS 4000 VPower Consumption2 W • 5 W (IR illuminator on) • 5 W (white light i	
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(active deterrence functions enabled)	luminator on) • 6 W
Operating Temperature -35°C ~ 60°C	
Humidity max. 90%, relative (non-condensing)	

A memory card is required for the license plate recognition functions to work. AAT SYSTEMY BEZPIECZEŃSTWA sp. z o.o. hereby declares, that this NOVUS product does not contain any components or technologies manufactured by the entities mentioned in the Section 889 of the National Defense Authorization Act (NDAA) for Fiscal Year 2019

