### **NoVus**

#### Vandal Proof IP Camera with Motor-zoom Lens

#### **NVIP-5VE-4502M**





#### **KEY FEATURES**























- •Lens: motorized, auto-focus function, f=2.8  $\sim$  12 mm/F1.8
- •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: 0.03 lx (0 lx, IR on)
- •IR LED, range up to 45 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	
Image Sensor	5 MPX CMOS sensor 1/2.7" SmartSens
Number of Effective Pixels	2880 (H) x 1620 (V)
Min. Illumination	0.03 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), 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**

Lens Type	motorized, f=2.8 ~ 12 mm/F1.8
Auto-focus	zoom trigger, manual trigger

#### **DORI**

DORI (Detection, Observation,	for f = 2.8mm - D: 56m, O: 22.4m, R: 11m, I: 5.6m • for f = 12mm -
Recognition, Identification)	D: 240m, O: 96m, R: 48m, I: 24m

#### **DAY/NIGHT**

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

#### **NETWORK**

THE I TOTAL	
Stream Resolution	2880 x 1620, 2560 x 1440 (QHD), 2304 x 1296, 1920 x 1080 (Full HD), 2048 x 1536 (QXGA), 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
Video/Audio Compression	H.264, H.264+, H.265, H.265+/G.711
Number of Simultaneous Conne	ectionsmax. 10



### **NOVUS**



128 mm

135 mm (Ø)



# Vandal Proof IP Camera with Motor-zoom Lens NVIP-5VE-4502M

Bandwidth	60 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, RTP, UPnP, SNMP, SMTP, P2P, HTML5
Camera Configuration	from Internet Explorer, Firefox, Chrome, Opera, Safari browser • languages: Polish, English, Russian, 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 entrance, zone exit, zone violation, 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	
Privacy Zones	4 video mask type: single color
Motion Detection	yes
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
Restoring default settings	via web browser, using reset button
LICENCE PLATE RECOGNITION	(LPR)
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	4
Range	45 m
Smart IR	yes (hardware support)
INTERFACES	
Audio Input/Output	1 x RCA/1 x RCA
Audio Input/Output  Network Interface	1 x RCA/1 x RCA 1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
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Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Network Interface  Memory Card Slot	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Network Interface Memory Card Slot INSTALLATION PARAMETERS	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s microSD - capacity up to 256GB
Network Interface Memory Card Slot  INSTALLATION PARAMETERS  Dimensions (mm)	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s microSD - capacity up to 256GB  135 (Φ) x 128 (H)
Network Interface Memory Card Slot  INSTALLATION PARAMETERS Dimensions (mm) Weight	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s microSD - capacity up to 256GB  135 (Φ) x 128 (H)  0.9 kg
Network Interface Memory Card Slot  INSTALLATION PARAMETERS  Dimensions (mm)  Weight  Degree of Protection	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s microSD - capacity up to 256GB  135 (Φ) x 128 (H)  0.9 kg IP 66 (details in the user's manual)





## Vandal Proof IP Camera with Motor-zoom Lens NVIP-5VE-4502M

Surge protection	TVS 4000 V
Power Consumption	3 W • 6 W (IR illuminator on)
Operating Temperature	-30°C ~ 55°C
Humidity	max. 95%, relative (non-condensing)

A memory card is required for the license plate recognition function to work. License plate recognition and face detection functions are available for cameras with firmware  $V31.35.8.2.3\_xxxx$  and newer.

