



# Vandal Proof IP Camera with Motor-zoom Lens

NVIP-5VE-4502M



## 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.

## COMPLIANCE



## KEY FEATURES

- Resolution: 5 MPX
- Lens: motorized, auto-focus function, f=2.8 ~ 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

## DIMENSIONS

| 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,<br>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, Recognition, Identification) | for f = 2.8mm - D: 56m, O: 22.4m, R: 11m, I: 5.6m<br>for f = 12mm - 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  |  |
| 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 Connections                         | max. 10  |
| 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<br>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, multi loiter, face detection, cross counting, heat map, queue length detection, 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  |
| Network Interface  | 1 x Ethernet - RJ-45 interface, 10/100 Mbit/s  |
| Memory Card Slot   | microSD - capacity up to 256GB   |
| Installation parameters                                    |  |
| Dimensions (mm)  | 135 (Ø) x 128 (H)  |
| Weight   | 0.9 kg   |
| Degree of Protection                                       | IP 66 (details in the user's manual)   |
| Enclosure  | vandalproof, aluminium, white<br>enclosure type: 4VE-B   |



|                       |                                     |
|-----------------------|-------------------------------------|
| Power Supply          | 12 VDC, PoE (IEEE 802.3af, Class 3) |
| Surge protection      | TVS 4000 V                          |
| Power Consumption     | 3 W,<br>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.*

128 mm

135 mm (Ø)

