

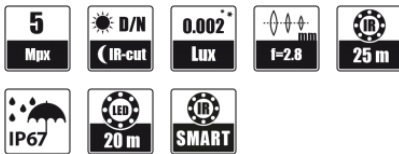
5 MPX IP camera with Deep Learning-based image analysis and active deterrence

NVIP-5H-4511/FWLAD

4000 VSS IP



KEY FEATURES



- Resolution: 5 MPX
- Lens: fixed focal, f=2.8 mm/F1.0
- active deterrence
- 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: 0.002 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

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 Sensor | 5 MPX CMOS sensor 1/2.7" SmartSens |
| Number of Effective Pixels | 2880 (H) x 1620 (V) |
| Min. Illumination | 0.002 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 (double scan sensor), 120dB |
| Digital Noise Reduction (DNR) | 2D, 3D |
| Highlight Compensation (HLC) | yes |
| Back Light Compensation (BLC) | yes |
| Reduction of image flicker (Antiflicker) | yes |

LENS

| | |
|-----------|----------------------------|
| Lens Type | fixed focal, f=2.8 mm/F1.0 |
|-----------|----------------------------|

DORI

| | |
|--|---|
| DORI (Detection, Observation, Recognition, Identification) | for f = 2.8mm - D: 56m, O: 22.4m, R: 11m, I: 5.6m |
|--|---|

DAY/NIGHT

| | |
|-----------------|---|
| Mode | day/night switching: mechanical IR cut filter |
| Switching Mode | auto, manual, time |
| Switching Delay | 1 ~ 36 s |

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 Connections | max. 3 connections, (max. 40 streams in total) |
| Bandwidth | 30 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 |
| ONVIF Protocol Support | Profile G/S/T/M |

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| | |
|----------------------|--|
| 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 | ipGO 4 (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, counting objects in the area, smart motion detection with objects distinguishing |
|-----------|--|

OTHER FUNCTIONS

| | |
|---------------------------------|---|
| Security | video encryption, HTTPS support, IP and/or MAC 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 | 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, saving in the cloud storage, push notification, active deterrent functions |
| Determent | 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 |

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, saving a file in the cloud |

IR LED

| | |
|------------|------------------------|
| LED Number | 1 |
| Range | 25 m |
| Smart IR | yes (hardware support) |

WHITE LIGHT ILLUMINATOR

| | |
|-------------|------------------------|
| LED Number | 2, warm white color |
| Range | 20 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 |

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Memory Card Slot microSD - capacity up to 256GB

INSTALLATION PARAMETERS

| | |
|-----------------------|--|
| Dimensions (mm) | with bracket: 71 (Φ) x 150 (L) |
| Weight | 0.36 kg |
| Degree of Protection | IP 67 (details in the user's manual) |
| Enclosure | aluminium, white, fully cable managed wall mount bracket in-set included • enclosure type: 4H-B |
| Power Supply | 12 VDC, PoE (IEEE 802.3af, Class 3) |
| Surge protection | TVS 4000 V |
| Power Consumption | 2.1 W • 3.4 W (IR illuminator on) • 4.6 W (white light illuminator on) • 6 W (active deterrence functions enabled) |
| Operating Temperature | -35°C ~ 60°C |
| Humidity | max. 95%, relative (non-condensing) |