# IP Camera with video content analysis based on Deep Learning

## NVIP-4V-6511/F



## KEY FEATURES

- Resolution: 4 MPX
- Lens: fixed focal, f=2.8 mm/F1.6
- Human/Vehicle Object Classification
- D/N function - IR cut filter
- Video content analysis based on Deep Learning
- microSD card support
- WDR with double scan sensor
- Min. Illumination: 0.005 lx (0 lx, IR on)
- IR LED, range up to 20 m

## DIMENSIONS




**The camera is dedicated to work with NOVUS 6000 series recorders. Detailed data can be found in the compatibility table available in the DOWNLOADABLE FILES tab.**

### IMAGE

| | |
|---|---|
| Image Sensor | 4 MPX CMOS sensor 1/3” SmartSens |
| Number of Effective Pixels | 2592 (H) x 1520 (V) |
| Min. Illumination | 0.005 lx/F1.6 - color mode • 0 lx (IR on) - B/W mode |
| Electronic Shutter | auto/manual: 1/3 s ~ 1/100000 s |
| Digital Slow Shutter (DSS) | up to 1/3 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 | fixed focal, f=2.8 mm/F1.6 |

### DAY/NIGHT

| | |
|---|---|
| Mode | day/night switching: mechanical IR cut filter |
| Switching Mode | auto, manual, time |
| Switching Level Adjustment | yes |
| Switching Delay | 2 ~ 120 s |
| Switching Schedule | yes |
| Visible Light Sensor | yes |

### NETWORK

| | |
|---|---|
| Stream Resolution | 2560 x 1440 (QHD), 2592 x 1520, 2304 x 1296, 1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 320 x 240 (QVGA), 480 x 240 |
| Frame Rate | 30 fps for • 60 fps for and lower resolutions |
| Multistreaming Mode | number of streams: 3 |
| Video/Audio Compression | H.264, H.264+, H.264 Smart, H.265, H.265+, H.265 Smart, MJPEG/G.711 |
| Number of Simultaneous Connections | max. 10 |
| Bandwidth | 60 Mb/s in total |

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| | |
|---|---|
| Network Protocols Support | HTTP, TCP/IP, IPv4, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DDNS, NTP, RTSP, UPnP, SNMP, QoS/DSCP, IEEE 802.1X, PPPoE, SMTP, RTCP, ICMP, Unicast, SSL/TLS |
| ONVIF Protocol Support | Profile G/S |
| Camera Configuration | from Internet Explorer browser • languages: Polish, English, Russian, and others |
| Compatible Software | NOVUS MANAGEMENT SYSTEM VSS, NOVUS MANAGEMENT SYSTEM AC, N Control 6000 |
| Mobile applications | SuperLive Plus (iPhone, Android) |

### VIDEO ANALYTICS

| | |
|---|---|
| Functions | tamper, abandoned object, object disappearance, line cross, zone entrance, zone exit, object counting, face detection, detection of people not wearing masks, pedestrian detection, cross counting, scene change, video blurred, video color cast, objects distinguishing, people counting, vehicle detection, vehicle counting |

### OTHER FUNCTIONS

| | |
|---|---|
| Privacy Zones | 4 video mask type: single color or 1 video mask type: mosaic |
| Motion Detection | yes |
| Region of interest (ROI) | 8 |
| Image Processing | 180˚ image rotation, sharpening, mirror effect, corridor mode, vertical flip, horizontal flip, lens distortion correction |
| Prealarm/Postalarm | up to 6 s/up to 120 s |
| System Reaction to Alarm Events | e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card |
| Restoring default settings | via web browser, using reset button, via NMS IPTool software |

### IR LED

| | |
|---|---|
| LED Number | 2 |
| Range | 20 m |
| Smart IR | yes (software support) |

### INTERFACES

| | |
|---|---|
| Audio Input/Output | 1 x Jack (3.5 mm)/- • built-in microphone |
| Network Interface | 1 x Ethernet - RJ-45 interface, 10/100 Mbit/s |
| Memory Card Slot | microSD - capacity up to 128GB |

### INSTALLATION PARAMETERS

| | |
|---|---|
| Dimensions (mm) | 110 (Φ) x 60 (H) |
| Weight | 0.4 kg |
| Degree of Protection | IP 66 (details in the user's manual) |
| Enclosure | vandalproof, IK10 impact rating, aluminium, white |
| Power Supply | 12 VDC, PoE (IEEE 802.3af, Class 3) |
| Surge protection | TVS 4000 V |
| Power Consumption | 4 W • 6 W (IR illuminator on) |
| Operating Temperature | -30°C ~ 60°C |
| Humidity | max. 95%, relative (non-condensing) |

*The camera creates a fully functional face recognition system when used with selected NOVUS IP 6000 series recorders (models with "F" in the name).*