# 4 MPX IP Camera with video content analysis based on Deep Learning

## NVIP-4D-6502M/F-II



**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.**

### KEY FEATURES

- Resolution: 4 MPX
- Lens: motorized, auto-iris and auto-focus function, f=2.8 ~ 12 mm/F1.3
- built-in microphone
- D/N function - IR cut filter
- Video content analysis based on Deep Learning
- 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

### COMPLIANCE

### DIMENSIONS

### IMAGE

| | |
|---|---|
| Image Sensor | 4 MPX CMOS sensor 1/3” SmartSens |
| Number of Effective Pixels | 2688 (H) x 1520 (V) |
| Min. Illumination | 0.003 lx/F1.3 - color mode • 0 lx (IR on) - B/W mode |
| Electronic Shutter | auto: 1/2 s ~ 1/100000 s |
| Digital Slow Shutter (DSS) | up to 1/2 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, auto-iris function, f=2.8 ~ 12 mm/F1.3 |

### DORI

| | |
|---|---|
| DORI (Detection, Observation, Recognition, Identification) | for f = 2.8mm - D: 58m, O: 23m, R: 11m, I: 5m • for f = 12mm - D: 205m, O: 82m, R: 41m, I: 20m |

### 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 each resolution |
| Multistreaming Mode | number of streams: 3 |
| Video/Audio Compression | H.264, H.264+, H.265, H.265+, MJPEG/G.711 |
| Number of Simultaneous Connections | max. 10 |

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122 mm (Ø)



| | |
|---|---|
| Bitrate | for H.264 : 128 kbps - 8192 kbps • for H.265 : 64 kbps - 7168 kbps |
| Network Protocols Support | HTTP, TCP/IP, IPv4, IPv4/v6, UDP, HTTPS, FTP, DHCP, DDNS, NTP, RTSP, RTP, UPnP, SNMP, QoS, IEEE 802.1X, PPPoE, SMTP, RTCP, HTML5, RTMP, SFTP, HTTP POST |
| Camera Configuration | from Edge, Firefox, Chrome, Opera, Safari browser • languages: Polish, English, and others |
| Compatible Software | NOVUS MANAGEMENT SYSTEM VSS, NOVUS MANAGEMENT SYSTEM AC, N Control 6000 |
| Mobile applications | ipGO 6 (iPhone, Android) |

### VIDEO ANALYTICS

| | |
|---|---|
| Functions | abandoned object, object disappearance, line cross, zone entrance, zone exit, zone violation, loiter, face detection, cross counting, heat map, scene change, video blurred, video color cast, counting objects in the area, video metadata, illegal parking detection • ability to run multiple image analysis functions simultaneously |

### OTHER FUNCTIONS

| | |
|---|---|
| Security | video encryption, IEEE 802.1X support, HTTPS support, Basic authorization for HTTP/RTSP, Digest authorization for HTTP/RTSP, IP and/or MAC address filtering, force change of default password |
| Privacy Zones | 4 video mask type: single color or 4 video mask type: mosaic |
| Motion Detection | yes |
| Region of interest (ROI) | 8 |
| Audio Detection | yes |
| 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 | 4 |
| Range | 30 m |
| Smart IR | yes (software support) |

### INTERFACES

| | |
|---|---|
| Audio Input/Output | 1 x Jack (3.5 mm)/1 x Jack (3.5 mm) • built-in microphone |
| Alarm Input/Output | 1 (NO/NC)/1 relay type (max. 12VDC/300mA) |
| Network Interface | 1 x Ethernet - RJ-45 interface, 10/100 Mbit/s |
| Memory Card Slot | microSD - capacity up to 256GB |

### INSTALLATION PARAMETERS

| | |
|---|---|
| Dimensions (mm) | 122 (Φ) x 96 (H) |
| Weight | 0.38 kg |
| Enclosure | plastic, white |
| Power Supply | 12 VDC, PoE (IEEE 802.3af, Class 3) |
| Surge protection | TVS 4000 V |
| Power Consumption | 6 W • 9 W (IR illuminator on) |
| Operating Temperature | -10°C ~ 40°C |

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| | |
|---|---|
| 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). The above specifications apply to cameras with a software version newer than or equal to 5.1.4.*