# 4MPX PTZ dome IP camera with face recognition and object tracking

**NVIP-4SD-6510/3/F**



## KEY FEATURES

- •Resolution: 4 MPX
- •Lens: motorized varifocal, AI and AF function, optical zoom 3x, f=3.18 ~ 7.42 mm/F1.6 ~ 2.7
- •D/N function - IR cut filter
- •Auto Tracking
- •Video content analysis based on Deep Learning
- •microSD card support
- •two-way audio
- •Min. Illumination: 0.004 lx (0 lx, IR on)
- •IR LED, range up to 20 m

## COMPLIANCE

## 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 1/2.7" SmartSens |
| Min. Illumination | 0.02 lx/F1.6 - color mode • 0.004 lx/F1.6 - B/W mode • 0 lx (IR on) - B/W mode |
| S/N Ratio | > 52 dB (AGC off) |
| Electronic Shutter | auto/manual: 1/25 s ~ 1/25000 s |
| Wide Dynamic Range (WDR) | yes |
| Digital Noise Reduction (DNR) | 3D |
| Highlight Compensation (HLC) | yes |
| Back Light Compensation (BLC) | yes |
| Reduction of image flicker (Antiflicker) | yes |
| Digital zoom | 8x |

## LENS

| | |
|---|---|
| Optical Zoom | 3x |
| Lens Type | motorized, auto-iris function, f=3.18 ~ 7.42 mm/F1.6 ~ F2.7 |
| Auto-focus | zoom trigger, day/night mode trigger, manual trigger |

## DORI

| | |
|---|---|
| DORI (Detection, Observation, Recognition, Identification) | for f = 3.18mm - D: 62.8m, O: 24.9m, R: 12.56m, I: 6.28m • for f = 7.42mm - D: 148.4m, O: 58.89m, R: 29.68m, I: 14.84m |

## DAY/NIGHT

| | |
|---|---|
| Mode | day/night switching: mechanical IR cut filter |
| Switching Mode | auto, manual, time |
| Switching Level Adjustment | yes |
| Switching Delay | 10 ~ 360 s |

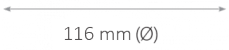
## NETWORK

| | |
|---|---|
| Stream Resolution | 2688 x 1520, 2560 x 1440 (QHD), 1920 x 1080 (Full HD), 2048 x 1536 (QXGA), 1280 x 960, 1280 x 720 (HD), 704 x 576, 640 x 480 (VGA), 352 x 288 (CIF) |
| 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+, MJPEG/G.711 |
| Number of Simultaneous Connections | max. 7 |

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| | |
|---|---|
| Bitrate | for H.264 : 128 kbps - 8192 kbps • for H.265 : 64 kbps - 7168 kbps |
| Network Protocols Support | HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, RTP, UPnP, SNMP, QoS, IEEE 802.1X, PPPoE, SMTP, RTCP, ICMP, SSL/TLS, HTML5, RTMP |
| ONVIF Protocol Support | Profile G/S/T |
| 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) |

### PTZ

| | |
|---|---|
| Preset Commands | 360 including 21 special (function) presets |
| Tours | 8 (up to 16 presets per tour) |
| Tilt/Pan Range | 15° ~ 90°/0° ~ 355° |
| Pan/Tilt Speed | up to 80°/s (proportional to zoom) |
| Preset Speed | up to 80°/s |

### VIDEO ANALYTICS

| | |
|---|---|
| Functions | auto tracking linked to Video Content Analysis (VCA) functions, tamper, line cross, zone entrance, zone exit, scene change, video blurred, video color cast, objects distinguishing, face recognition, comparing faces, intrusion detection |

### OTHER FUNCTIONS

| | |
|---|---|
| Security | video encryption, configuration encryption, IEEE 802.1X support, HTTPS support, IP and/or MAC address filtering, force change of default password |
| Privacy Zones | 8 video mask type: single color |
| Motion Detection | yes |
| Image Processing | sharpening, vertical flip, horizontal flip |
| Prealarm/Postalarm | up to 6 s/up to 120 s |
| System Reaction to Alarm Events | e-mail with attachment, saving file on FTP server, saving file on SD card, alarm output activation, object tracking |
| Restoring default settings | via web browser, using reset button, via NMS IPTool software |

### IR LED

| | |
|---|---|
| LED Number | 4 |
| Range | 20 m |
| Smart IR | yes (hardware 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) | 116 (Φ) x 82 (H) |
| Weight | 0.5 kg |
| Degree of Protection | IP 67 (details in the user's manual) |

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## NVIP-4SD-6510/3/F

| | |
|---|---|
| Enclosure | vandalproof, IK10 impact rating, aluminium, white, poly-carbonate bubble • enclosure type: 6V-SD |
| Power Supply | 12 VDC, PoE (IEEE 802.3af, Class 3) |
| Surge protection | TVS 6000 V |
| Power Consumption | 5 W • 12 W (IR illuminator on) |
| Operating Temperature | -30°C ~ 60°C |
| Cold start temperature | -20°C |
| Humidity | max. 90%, relative (non-condensing) |

*The camera has the ability to autonomously recognize and compare faces, but it can also be part of the face recognition system, working with selected NOVUS 6000 series IP recorders (models with "F" in the name).*