# Thermal IP Bullet Camera

NVIP-H-8545/T




## FUNCTIONS

NDAA · INGENIUS PLUS · FIRE DETECTION · THERMO VISION · H.265 · f=50 · 0.12 Mpx · 40 mK · IP66

## COMPLIANCE

ONVIF · GMST

## KEY FEATURES

- lens: thermal fixed focal length, f=50 mm/F1.0
- built-in microphone
- Video content analysis based on Deep Learning
- SD card support
- Temperature Measurment
- Temperature Alarm
- Ability to observe in total darkness
- two-way audio

## DIMENSIONS




| | |
|---|---|
| **Image - Thermal Module** | |
| Image Sensor | Uncooled FPA Microbolometer |
| Number of Effective Pixels | 384 (H) x 288 (V) |
| Pixel Size | 17 µm |
| Spectral Range | 8 - 14 µm |
| Thermal Sensitivity | 40 mK |
| Thermovision Modes | White Hot, Black Hot, Rainbow, Ironbow, HSV, Autumn, Bone, Cool, Copper, Fire Hot, Pink, Spring, Summer, Winter, Jet, Flame, Rosebengal |
| Detection Temperature Range | -20°C ~ 150°C |
| Digital Noise Reduction (DNR) | 2D, 3D |
| **Lens - Thermal Module** | |
| Lens Type | fixed focal length, f=50 mm/F1.0 |
| DRI (Detection, Recognition, Identification) | people: D - 1471m, R - 368m, I - 184m<br>vehicles: D - 4510m, R - 1127m, I - 564m |
| Object Detection Range | 294m - fire (for object size 0.2x0.2 m) |
| Temperature measurement range | 118m (for object size 0.2x0.2 m) |
| **Image** | |
| Defog Function (F-DNR) | yes |
| **Network** | |
| Stream Resolution | 1280 x 720 (HD), 704 x 576, 352 x 240, 384 x 288 |
| Frame Rate | 30 fps for each resolution |
| Multistreaming Mode | number of streams: 2 (main stream, sub stream) |
| Video/Audio Compression | H.264, H.265, MJPEG/G.711, RAW_PCM |
| Number of Simultaneous Connections | max. 10 |
| Bitrate | for H.264 : 100 kbps - 8000 kbps<br>for H.265 : 100 kbps - 8000 kbps |
| Network Protocols Support | HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, Multicast, FTP, DHCP, DNS, DDNS, NTP, RTSP, RTP, UPnP, SNMP, QoS, IEEE 802.1X, PPPoE, SMTP, RTCP, ICMP, HTML5, HTTP POST |
| Communication protocols support | MODBUS |
| ONVIF Protocol Support | Profile G/S/T/M |
| Camera Configuration | from Edge, Firefox, Chrome, Opera browser<br>languages: Polish, English, and others |
| Compatible Software | NOVUS MANAGEMENT SYSTEM VSS, N Control 8000 |
| **Video Analytics** | |
| Functions | line cross, zone entrance, zone exit, zone violation, double line cross, multi loiter, wrong direction, objects distinguishing, people counting, smoker detection, fire detection, smart motion detection with objects distinguishing |
| **Other functions** | |
| Temperature Measurement | yes |
| Temperature Alarm | yes |
| Temperature Measurement Zones | 20 polygon, line, point |
| Temperature Measurement Accuracy | +-2°C / +-2% |
| Security | IEEE 802.1X support, 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 |
| Image Processing | vertical flip, horizontal flip |
| Prealarm/Postalarm | -/up to 86400 s |
| System Reaction to Alarm Events | e-mail with attachment, saving file on FTP server, saving file on SD card, alarm output activation, playback of the audio message |
| Determent | built-in speaker (predefined or custom voice messages) |
| Restoring default settings | using reset button |
| **Interfaces** | |
| Video Output | CVBS, 1.0 Vp-p, 75 Ohm |
| Audio Input/Output | 1/1<br>built-in microphone/speaker |
| Alarm Input/Output | 2 (NO/NC)/2 relay type (max. 12VDC/300mA) |
| Control Input/Output | RS-485 |
| Network Interface | 1 x Ethernet - RJ-45 interface, 10/100 Mbit/s |
| Memory Card Slot | SD - capacity up to 1000GB |
| **Installation parameters** | |
| Dimensions (mm) | with bracket: 110 (Φ) x 388 (L) |
| Weight | 1.9 kg |
| Degree of Protection | IP 66 (details in the user's manual) |
| Enclosure | aluminium, white, fully cable managed wall mount bracket in-set included<br>enclosure type: 4H-B |
| Power Supply | 12 VDC, 24 VAC, PoE (IEEE 802.3af, Class 3) |
| Power Consumption | 4.5 W |
| Operating Temperature | -40°C ~ 60°C |
| Humidity | max. 90%, relative (non-condensing) |

*Note: DRI parameters (Detection, Recognition, Identification) are for reference only and actual distances may differ from those given depending on environmental conditions. Optimal detection, recognition, and identification distances are calculated according to Johnson's criteria: - Detection range: to distinguish an object from the background, the object must be at least 1.5 pixels in size. - Recognition range: to classify an object (animal, human, vehicle, etc.), the object must be at least 6 pixels in size. - Identification range: to identify and describe an object in detail, the object must be at least 12 pixels in size.*