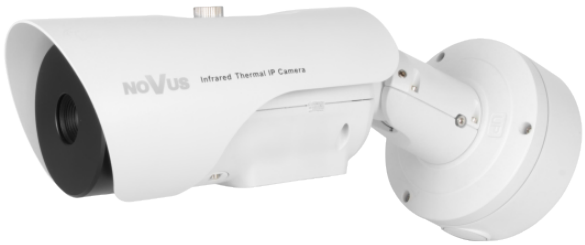
Thermal IP Bullet Camera

NVIP-H-8545/T



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

COMPLIANCE

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 • 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 • 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 • languages: Polish, English, and others
Compatible Software	NOVUS MANAGEMENT SYSTEM VSS, N Control 8000

VIDEO ANALYTICS

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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 • 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 • 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.