### NOVUS

## **Bullet IP Camera**

### NVIP-5H-4501





#### **KEY FEATURES**



















- •Resolution: 5 MPX
- •Lens: fixed focal, f=2.8 mm/F1.6
- ·support for Chrome, Firefox, Opera, Safari browsers
- •D/N function IR cut filter
- •Video content analysis based on Deep Learning
- •Licence plate recognition (LPR) microSD card support
- •WDR with double scan sensor
- •Min. Illumination: 0.03 lx (0 lx, IR on)
- •IR LED, range up to 30 m
- •"Two way power" when connected to a PoE switch, it allows to power the low power receiver from the camera's power socket

#### **COMPATIBILITY**



#### **DIMENSIONS**



The camera is dedicated to work with NOVUS 4000 series recorders. Detailed data can be found in the compatibility table available in the  $\ensuremath{\mathsf{DOWNLOADABLE}}$  FILES tab.

#### **IMAGE**

Image Sensor	5 MPX CMOS sensor 1/2.7" SmartSens
Number of Effective Pixels	2880 (H) x 1620 (V)
Min. Illumination	0.03 lx/F1.2 - color mode • 0 lx (IR on) - B/W mode
Electronic Shutter	auto/manual: 1/5 s ~ 1/20000 s
Digital Slow Shutter (DSS)	up to 1/5 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**

Switching Type	mechanical IR cut filter	
Switching Mode	auto, manual, time	
Switching Delay	1 ~ 36 s	
Visible Light Sensor	yes	

Stream Resolution	2880 x 1620, 2560 x 1440 (QHD), 2304 x 1296, 1920 x 1080 (Ful HD), 1280 x 720 (HD), 640 x 480 (VGA), 320 x 240 (QVGA)
Frame Rate	30 fps for each resolution
Multistreaming Mode	3 streams (main stream, sub stream, third stream)
Video/Audio Compression	H.264, H.264+, H.265, H.265+/G.711
Number of Simultaneous Conne	ctionsmax. 7 connections, (max. 20 streams in total)
Bandwidth	30 Mb/s in total
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, RTP, UPnP, SMTP, P2P, HTML5
Camera Configuration	from Internet Explorer, Firefox, Chrome, Opera, Safari browser • languages: Polish, English, Russian, and others





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Compatible Software	NOVUS MANAGEMENT SYSTEM VSS, NOVUS MANAGEMENT SYSTEM AC
Mobile applications	RxCamView (iPhone, Android)
OTHER FUNCTIONS	
Privacy Zones	4 video mask type: single color
Motion Detection	yes
Region of interest (ROI)	8
Audio Detection	yes
Video Content Analysis (VCA)	abandoned object, object disappearance, line cross, zone entrance, zone exit, multi loiter, face detection, cross counting, heat map, queue length detection, objects distinguishing
Image Processing	$180^{\circ}$ image rotation, corridor mode, vertical flip, horizontal flip
Prealarm/Postalarm	up to 5 s/up to 30 s
System Reaction to Alarm Events	e-mail with attachment, saving file on FTP server, saving file on SD card, saving in the cloud storage, push notification
Restoring default settings	via web browser, using reset button
LICENCE PLATE RECOGNITION	(LPR)
Autonomous operation mode	yes - recognition function implemented in the camera
Capacity of License Plate Database	up to 10000 license plates, on all lists.
Types of recognized number plates	all countries of the European Union
Data recorded in the camera base	recognition date/time, number of recognised licence plate, image of recognised licence plate, presence on the "white list" or "black list"
Reactions for the licence plate recognition	e-mail with attachment, saving file on FTP server
IR LED	2
LED Number	2
Range	30 m
Smart IR	yes (hardware support)
INTERFACES	
Audio Input/Output	
Network Interface	built-in microphone
	built-in microphone  1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	<u>'</u>
Memory Card Slot  INSTALLATION PARAMETERS	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
,	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
INSTALLATION PARAMETERS	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s microSD - capacity up to 256GB
INSTALLATION PARAMETERS Dimensions (mm)	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s microSD - capacity up to 256GB with bracket: 71 (Φ) x 150 (L)
INSTALLATION PARAMETERS Dimensions (mm) Weight	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s microSD - capacity up to 256GB with bracket: 71 (Φ) x 150 (L) 0.4 kg
INSTALLATION PARAMETERS Dimensions (mm) Weight Degree of Protection	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s microSD - capacity up to 256GB with bracket: 71 (Φ) x 150 (L) 0.4 kg IP 66 (details in the user's manual) aluminium, white, fully cable managed wall mount bracket in-set
INSTALLATION PARAMETERS Dimensions (mm) Weight Degree of Protection Enclosure	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s microSD - capacity up to 256GB  with bracket: 71 (Φ) x 150 (L)  0.4 kg  IP 66 (details in the user's manual) aluminium, white, fully cable managed wall mount bracket in-set included
INSTALLATION PARAMETERS  Dimensions (mm)  Weight  Degree of Protection  Enclosure  Power Supply	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s microSD - capacity up to 256GB  with bracket: 71 (Φ) x 150 (L)  0.4 kg  IP 66 (details in the user's manual) aluminium, white, fully cable managed wall mount bracket in-set included  12 VDC, PoE (IEEE 802.3af, Class 3)
INSTALLATION PARAMETERS Dimensions (mm) Weight Degree of Protection Enclosure Power Supply Surge protection	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s microSD - capacity up to 256GB  with bracket: 71 (Φ) x 150 (L)  0.4 kg IP 66 (details in the user's manual) aluminium, white, fully cable managed wall mount bracket in-set included  12 VDC, PoE (IEEE 802.3af, Class 3) TVS 4000 V







# Bullet IP Camera NVIP-5H-4501

A memory card is required for the license plate recognition function to work. License plate recognition and face detection functions are available for cameras with firmware V31.35.8.2.3\_xxxx and newer.

