# NoVus

# **IP Motor-zoom Camera with** video content analysis based on Deep Learning

NVIP-4H-6522M/F-II





#### FUNCTIONS



















## **KEY FEATURES**

- •Resolution: 4 MPX
  •Lens: motorized, auto-focus function, f=2.8 ~ 12 mm/F1.3
- •Human/Vehicle Object Classification
- •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 70 m

## DIMENSIONS





101 mm





280 mm

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 1/3" 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/manual: 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, f=2.8 ~ 12 mm/F1.3
	Auto-focus	zoom trigger, day/night mode trigger, manual trigger
	Day/Night Day/Night	
	Switching Type	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	$2592\times1520, 2560\times1440$ (QHD), $2304\times1296, 1920\times1080$ (Full HD), $1280\times720$ (HD), $640\times480$ (VGA), $480\times240, 320\times240$ (QVGA)
	Frame Rate	30 fps for each resolution, 60 fps for 1920 $\times$ 1080 (Full HD) and lower resolutions
	Multistreaming Mode	3 streams
	Video/Audio Compression	H.264, H.264+, H.265, H.265+, MJPEG/G.711
	Number of Simultaneous Connections	max. 10
	Bandwidth	50 Mb/s in total
	Network Protocols Support	HTTP, IPv4, IPv4/v6, UDP, HTTPS, FTP, DHCP, DDNS, NTP, RTSP, RTP, UPnP, SNMP, QoS, IEEE 802.1X, PPPOE, SMTP, RTCP, RTMP
	ONVIF Protocol Support	Profile S/G/T
	Camera Configuration	from Internet Explorer, Firefox, Chrome, Opera, Edge browser languages: Polish, English, and others
	Camera Configuration Compatible Software	from Internet Explorer, Firefox, Chrome, Opera, Edge browser languages: Polish, English, and others NMS, N Control 6000
		languages: Polish, English, and others
	Compatible Software	languages: Polish, English, and others NMS, N Control 6000
90	Compatible Software Mobile applications	languages: Polish, English, and others NMS, N Control 6000
80 mn	Compatible Software Mobile applications Other functions	languages: Polish, English, and others NMS, N Control 6000  SuperLive Plus (IPhone, Android)
80 mm	Compatible Software Mobile applications  Other functions Privacy Zones	languages: Polish, English, and others NMS, N. Control 6000  SuperLive Plus (IPhone, Android)  4 video mask type: single color or 4 video mask type: mosaic
80 80	Compatible Software Mobile applications Other functions Privacy Zones Motion Detection	languages: Polish, English, and others NMS, N. Control 6000  SuperLive Plus (iPhone, Android)  4 video mask type: single color or 4 video mask type: mosaic yes
80 mm	Compatible Software Mobile applications Other functions Privacy Zones Motion Detection Region of interest (ROI) Video Content Analysis (VCA)	languages: Polish, English, and others NMS, N Control 6000 SuperLive Plus (IPhone, Android)  4 video mask type: single color or 4 video mask type: mosaic yes 8 tamper, abandoned object, object disappearance, line cross, zone entrance, zone exit, object counting, face detection, detection of people not wearing masks, cross counting, heat map, Scene Change, Video Blurred, Video Color Cast, objects distinguishing, people counting, vehicle counting, intrusion detection, target counting by area 90° image rotation, 180° image rotation, sharpening, mirror effect, corridor mode, vertical flip, horizontal flip, lersd distortion correction
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80 mm	Compatible Software Mobile applications  Other functions  Privacy Zones Motion Detection Region of interest (ROI)  Video Content Analysis (VCA)  Image Processing  Prealarm/Postalarm  System Reaction to Alarm Events	languages: Polish, English, and others  NMS, N Control 6000  SuperLive Plus (IPhone, Android)  4 video mask type: single color or 4 video mask type: mosaic  yes  8  tamper, abandaned object, object disappaarance, line cross, zone entrance, zone exit, object counting, face detection, detection of people not wearing masks, cross counting, heat map, Scene Change, Video Burred, Video Color Cast, objects distinguishing, people counting, vehicle counting, intrusion detection, target  90° image rotation, 180° image rotation, sharpening, mirror effect, corridor mode, vertical flip, horizontal flip, lens distortion correction  up to 6 s/up to 120 s  e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card, alarm output activation
80 mm	Compatible Software Mobile applications  Other functions  Privacy Zones  Motion Detection  Region of interest (ROI)  Video Content Analysis (VCA)  Image Processing  Prealarm/Postalarm  System Reaction to Alarm Events  Restoring default settings	languages: Polish, English, and others NMS, N Control 6000  SuperLive Plus (IPhone, Android)  4 video mask type: single color or 4 video mask type: mosaic yes  8 tamper, abandoned object, object disappearance, line cross, zone entrance, zone exit, object counting, face detection, detection of people not wearing masks, cross counting, heat map, Scene Change, Video Blurred, Video Color Cast, objects distinguishing, people counting, vehicle counting, intrusion detection, target counting by area  90° image rotation, 180° image rotation, sharpening, mirror effect, corridor mode, vertical flip, horizontal flip, lens distortion correction up to 6 s/up to 120 s
80	Compatible Software Mobile applications Other functions Privacy Zones Motion Detection Region of interest (ROI)  Video Content Analysis (VCA)  Image Processing Prealarm/Postalarm System Reaction to Alarm Events Restoring default settings IR LED	languages: Polish, English, and others  NMS, N Control 6000  SuperLive Plus (IPhone, Android)  4 video mask type: single color or 4 video mask type: mosaic  yes  8  tamper, abandaned object, object disappaarance, line cross, zone entrance, zone exit, object counting, face detection, detection of people not wearing masks, cross counting, heat map, Scene Change, Video Burred, Video Color Cast, objects distinguishing, people counting, vehicle counting, intrusion detection, target  90° image rotation, 180° image rotation, sharpening, mirror effect, corridor mode, vertical flip, horizontal flip, lens distortion correction  up to 6 s/up to 120 s  e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card, alarm output activation
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80 mm	Compatible Software Mobile applications  Other functions  Privacy Zones Motion Detection Region of interest (ROI)  Video Content Analysis (VCA)  Image Processing  Prealarm/Postalarm System Reaction to Alarm Events Restoring default settings  IR LED  LED Number Range	languages: Polish, English, and others NMS, N Control 6000 SuperLive Plus (IPhone, Android)  4 video mask type: single color or 4 video mask type: mosaic yes 8 tamper, abandoned object, object disappearance, line cross, zone entrance, zone exit, object counting, face detection, detection of people not wearing masks, cross counting, heat map, Scene Change, Video Blurred, Video Color Cast, objects distinguishing, people counting, vehicle counting, intrusion detection, target counting by area 90° image rotation, 180° image rotation, sharpening, mirror effect, corridor mode, vertical flip, horizontal flip, lens distortion correction up to 6 s/up to 120 o e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card, alarm output activation via web browser, using reset button, via NMS IPTool software
80	Compatible Software Mobile applications  Other functions  Privacy Zones Motion Detection Region of interest (ROI)  Video Content Analysis (VCA)  Image Processing  Prealarm/Postalarm System Reaction to Alarm Events Restoring default settings  IR LED  LED Number Range Smart IR	languages: Polish, English, and others NMS, N Control 6000 SuperLive Plus (IPhone, Android) 4 video mask type: single color or 4 video mask type: mosaic yes 8 tamper, abandoned object, object disappearance, line cross, zone entrance, zone exit, object counting, face detection, detection of people not wearing masks, cross counting, heat map, Scene Change, Video Blurred, Video Color Cast, objects distinguishing, people counting, vehicle counting, intrusion detection, target counting by area 9 of image rotation, 180° image rotation, sharpening, mirror effect, corridor mode, vertical flip, horizontal flip, lens distortion correction up to 6 s/up to 120 s e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card, alarm output activation via web browser, using reset button, via NMS IPTool software
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80 mm	Compatible Software Mobile applications Other functions Pilvacy Zones Motion Detection Region of interest (ROI)  Video Content Analysis (VCA) Image Processing Prealarm/Postalarm System Reaction to Alarm Events Restoring default settings IR LED LED Number Range Smart IR Interfaces Video Output Audio Input/Output Network Interface	languages: Polish, English, and others NMS, N Control 6000 SuperLive Plus (IPhone, Android)  4 video mask type: single color or 4 video mask type: mosaic yes 8 tamper, abandoned object, object disappearance, line cross, zone entrance, zone exit, object counting, face detection, detection of people not wearing masks, cross counting, heat map, Scene Change, video Blurred, Video Color Cast, objects distingshing, people counting, where counting, interior effect, corridor mode, vertical flip, horizontal flip, lens distortion correction up to 6 s/up to 120 s e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card, alarm output activation via web browser, using reset button, via NMS IPTool software  4 70 m yes (software support)  BNC, 1.0 Vp-p, 75 Ohm 1 x Jack (3.5 mm)/1 x Jack (3.5 mm) 1 (NO/NC)/1 relay type (max. 12VDC/300mA) 1 x Ethernet - RI-45 interface, 10/100 Mbit/s
80 mm	Compatible Software Mobile applications Other functions Privacy Zones Motion Detection Region of interest (ROI)  Video Content Analysis (VCA)  Image Processing Prealarm/Postalarm System Reaction to Alarm Events Restoring default settings IR LED  LED Number Range Smart IR Interfaces Video Output Audio Input/Output Alarm Input/Output Memory Card Slot	languages: Polish, English, and others  NMS, N Control 6000  SuperLive Plus (IPhone, Android)  4 video mask type: single color or 4 video mask type: mosaic  yes  8  tamper, abandoned object object disappearance, line cross, zone entrance, zone exit, object counting, face detection, detection of people not wearing masks, cross counting, heat map, Scene Change, Video Blurned, Video Color Cast, objects distinguishing, people counting, heat map, Scene Change, Video Blurned, Video Color Cast, objects distinguishing, people counting, entraide counting, intrusion detection, target counting by area  90' image rotation, 180' image rotation, sharpening, mirror effect, corridor mode, vertical flip, horizontal flip, lens distortion correction  up to 6 s/up to 120 s  e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card, alarm output activation via web browser, using reset button, via NMS IPTool software  4  70 m  yes (software support)  BNC, 1.0 Vp-p, 75 Ohm  1 x Jack (3.5 mm) 1 x Jack (3.5 mm)  1 (NO/NC)1 relay type (max. 12VDC/300mA)
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80 mm	Compatible Software Mobile applications  Other functions  Privacy Zones Motion Detection Region of interest (ROI)  Video Content Analysis (VCA)  Image Processing  Prealarm/Postalarm System Reaction to Alarm Events Restoring default settings IR LED  LED Number Range Smart IR  Interfaces Video Output Audio Input/Output Alarm Input/Output Alarm Input/Output Alarm Input/Output Network Interface Memony Card Slot Installation parameters Dimensions (mm)	languages: Polish, English, and others  NMS, N Control 6000  SuperLive Plus (IPhone, Android)  4 video mask type: single color or 4 video mask type: mosaic  yes  8  tamper, abandoned object, object disappearance, line cross, zone entrance, zone exit, object counting, face detection, detection of people not wearing masks, cross counting, heat map, Scene Change, Video Blurred, Video Color Cast, objects distinguishing, people counting, vehicle counting, intrusion detection, target counting by area  90° image rotation, 180° image rotation, sharpening, mirror effect, corridor mode, vertical flip, horizontal flip, lens distortion correction  yto 6 s/up to 120 s  e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card, alarm output activation via web browser, using reset button, via NMS IPTool software  4  70 m  yes (software support)  BNC, 1.0 Vp-p, 75 Ohm  1 x Jack (3.5 mm)/1 x Jack (3.5 mm)  1 (NO/NC)/I relay type (max. 12VDC/300mA)  1 x Ethernet - RJ-45 interface, 10/100 Mbit/s microSD - capacity up to 256GB
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80 mm	Compatible Software Mobile applications Other functions Privacy Zones Motion Detection Region of interest (ROI) Video Content Analysis (VCA) Image Processing Prealarm/Postalarm System Reaction to Alarm Events Restoring default settings IR LED LED Number Range Smart IR Interfaces Video Output Audio Input/Output Alarm Input/Output Alarm Input/Output Alarm Input/Output Insterface Memory Card Slot Insterface Memory Card Slot Insterlation parameters Dimensions (mm) Weight Degree of Protection	languages: Polish, English, and others NMS, N Control 6000  SuperLive Plus (IPhone, Android)  4 video mask type: single color or 4 video mask type: mosaic yes 8 tamper, abandoned object, object disappearance, line cross, zone entrance, zone exit, object counting, face detection, detection of people not wearing masks, cross counting, heat map, Scene Change, Video Blurred, Video Color Cast, objects distinguishing, people counting, vehicle counting, intrusion detection, target counting by area 90° image rotation, 180° image rotation, sharpening, mirror effect, corridor mode, vertical flip, horizontal flip, lens distortion correction up to 6 s/up to 120 s e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card, alarm output activation via web browser, using reset button, via NMS IPTool software  4 70 m yes (software support)  BNC, 1.0 Vp-p, 75 Ohm 1 x Jack (3.5 mm)/1 x Jack (3.5 mm) 1 x Jack (3.5 mm)/2 x Jack (3.5 mm) 1 x Ethemet - Ry 45 interface, 10100 Mbit/s microSD - capacity up to 256GB  with bracket: 101 (W) x 89 (H) x 280 (L) 1.1 kg IP 67 (details in the user's manual)
80 mm	Compatible Software Mobile applications Other functions Privacy Zones Mobine Detection Region of interest (ROI) Video Content Analysis (VCA) Image Processing Prealarm/Postalarm System Reaction to Alarm Events Restoring default settings IR LED LED Number Range Smart IR Interfaces Video Output Audio Input/Output Audio Input/Output Alarm Input/Output Alarm Input/Output Alarm Input/Output Alarm Input/Output Alarm Input/Output Alarm Input/Output Installation parameters Dimensions (mm) Weight Degree of Protection Enclosure	languages: Polish, English, and others  NMS, N Control 6000  SuperLive Plus (IPhone, Android)  4 video mask type: single color or 4 video mask type: mosaic yes  8  tamper, abandoned object, object disappearance, line cross, zone entrance, zone exit, object counting, face detection, detection of people not wearing masks, cross counting, heat map, Scene Change, Video Blurred, Video Color Cast, objects distinguishing, people counting, vehicle counting, intrusion detection, target counting by are distortion correction up to 6 s/up to 120 s  e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card, alarm output activation via web browser, using reset button, via NMS IPTool software  4  70 m  yes (software support)  BNC, 1.0 Vp-p, 75 Ohm  1 x Jack (3.5 mm)1 x Jacks (3.5 mm) 1 (NONC)I relay type (max. 12VDC/300mA) 1 x Ethernet - RI-45 interface, 10/100 Mbit/s microSD - capacity up to 256GB  with bracket: 101 (W) x 89 (H) x 280 (L) 1.1 kg 19 67 (details in the user's manual) aluminium, white, fully cable managed wall mount bracket in-set included , IK10 impact rating
90	Compatible Software Mobile applications Other functions Privacy Zones Motion Detection Region of interest (ROI) Video Content Analysis (VCA) Image Processing Prealarm/Postalarm System Reaction to Alarm Events Restoring default settings IR LED LED Number Range Smart IR Interfaces Video Output Audio Input/Output Alarm Input/Output Alarm Input/Output Alarm Input/Output Insterface Memory Card Slot Insterface Memory Card Slot Insterlation parameters Dimensions (mm) Weight Degree of Protection	languages: Polish, English, and others NMS, N Control 6000  SuperLive Plus (IPhone, Android)  4 video mask type: single color or 4 video mask type: mosaic yes 8 tamper, abandoned object, object disappearance, line cross, zone entrance, zone exit, object counting, face detection, detection of people not wearing masks, cross counting, heat map, Scene Change, Video Blurred, Video Color Cast, objects distinguishing, people counting, vehicle counting, intrusion detection, target counting by area 90° image rotation, 180° image rotation, sharpening, mirror effect, corridor mode, vertical flip, horizontal flip, lens distortion correction up to 6 s/up to 120 s e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card, alarm output activation via web browser, using reset button, via NMS IPTool software  4 70 m yes (software support)  BNC, 1.0 Vp-p, 75 Ohm 1 x Jack (3.5 mm)/1 x Jack (3.5 mm) 1 x Jack (3.5 mm)/2 x Jack (3.5 mm) 1 x Ethemet - Ry 45 interface, 10100 Mbit/s microSD - capacity up to 256GB  with bracket: 101 (W) x 89 (H) x 280 (L) 1.1 kg IP 67 (details in the user's manual)

Surge protection	TVS 4000 V
Power Consumption	7.5 W, 11 W (IR illuminator on)
Operating Temperature	-30°C ~ 60°C
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).