## NoVus



### 4 MPX IP Camera with video content analysis based on Deep Learning

Image

NVIP-4V-6511/F-II

# 6000 Vss

#### FUNCTIONS



#### KEY FEATURES

•Resolution: 4 MPX •Lens: fixed focal, f=2.8 mm/F1.6 •built-in microphone •D/N function - IR cut filter •Video content analysis based on Deep Learning •microSD card support •WDR with double scan sensor •Min. Illumination: 0.005 lx (0 lx, IR on) •IR LED, range up to 20 m

#### DIMENSIONS



58 mm

110 mm (Ø)



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 Sensor	4 MPX CMOS sensor 1/3" SmartSens
Number of Effective Pixels	2688 (H) × 1520 (V)
Min. Illumination	0.005 lx/F1.6 - color mode, 0 lx (IR on) - B/W mode
Electronic Shutter	auto: 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)	ves
Reduction of image flicker (Antiflicker)	yes
Lens	, <del></del>
Lens Type	fixed focal. f=2.8 mm/F1.6
	Tixed Tocal, T=2.8 mm/F1.6
DORI	
DORI (Detection, Observation, Recognition, Identification)	for f = 2.8mm - D: 60.69m, O: 24.28m, R: 12.14m, I: 6.07m
Day/Night	
Mode	day/night switching: mechanical IR cut filter
Switching Mode	auto, manual, time
Switching Level Adjustment	yes
Switching Delay	2 ~ 120 s
Switching Schedule	yes
Visible Light Sensor	ves
Network	· · · · · · · · · · · · · · · · · · ·
Stream Resolution	2560 x 1440 (QHD), 2592 x 1520, 2304 x 1296, 1920 x 1080 (Full HD), 1280 x 720 (HD), 640 x 480 (VGA), 320 x 240 (QVGA), 480 x 240
Multistreaming Mode	number of streams: 3
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
	HTTP, TCP/IP, IPv4, IPv4/v6, UDP, HTTPS, FTP, DHCP, DDNS, NTP, RTSP, RTP, UPnP, SNMP, QoS, IEEE 802.1X,
Network Protocols Support	PPPOE, SMTP, RTCP, HTMLS, RTMP, HTTP POST from Internet Explorer, Chrome, Opera, Safari browser
Camera Configuration	languages: Polish, English, and others
Compatible Software	NOVUS MANAGEMENT SYSTEM VSS, NOVUS MANAGEMENT SYSTEM AC, N Control 6000
Mobile applications	ipGO 6 (iPhone, Android)
Mobile applications	
Mobile applications Video Analytics	ipGO 6 (IPhone, Android) tamper, abandoned object, object disappearance, line cross, zone entrance, zone exit, object counting, face detection, detection of people not wearing masks, pedestrian detection, cross counting, heat map, scene change, video blurred, video color cast, objects distinguishing, people counting, which counting, intrusion
Mobile applications Video Analytics Functions	ipGO 6 (IPhone, Android) tamper, abandoned object, object disappearance, line cross, zone entrance, zone exit, object counting, face detection, detection of people not wearing masks, pedestrian detection, cross counting, heat map, scene change, video blurred, video color cast, objects distinguishing, people counting, vehicle counting, intrusion detection, video metadata
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Mobile applications Video Analytics Functions Other functions Privacy Zones Motion Detection Region of Interest (ROI) Image Processing	ipGO 6 (IPhone, Android) tamper, abandoned object, object disappearance, line cross, zone entrance, zone exit, object counting, face detection, detection of people not wearing masks, pedestrian detection, cross counting, heat map, scene change, video blurred, video color cast, objects distinguishing, people counting, vehicle counting, intrusion detection, video mask type: single color or 4 video mask type: mosaic yes 8 180° image rotation, sharpening, mirror effect, corridor mode, vertical flip, horizontal flip, lens distortion
Mobile applications Video Analytics Functions Other functions Privacy Zones Motion Detection Region of Interest (ROI) Image Processing Prealarm/Postalarm	ipGO 6 (IPhone, Android)  tamper, abandoned object, object disappearance, line cross, zone entrance, zone exit, object counting, face detection, detection of people not wearing masks, pedestrian detection, cross counting, heat map, scene change, video blurred, video color cast, objects distinguishing, people counting, vehicle counting, intrusion detection, video metadata  4 video mask type: single color or 4 video mask type: mosaic yes 8 180° image rotation, sharpening, mirror effect, corridor mode, vertical flip, horizontal flip, lens distortion correction
Video Analytics Video Analytics Functions Other functions Privacy Zones Motion Detection Region of interest (ROI) Image Processing Prealarm/Postalarm System Reaction to Alarm Events	ipGO 6 (IPhone, Android) tamper, abandoned object, object disappearance, line cross, zone entrance, zone exit, object counting, facce detection, detection of people not wearing masks, pedestrian detection, cross counting, heat map, scene change, video blarred, video color cast, objects distinguishing, people counting, vehicle counting, intrusion detection, video metadata 4 video mask type: single color or 4 video mask type: mosaic yes 8 180° image rotation, sharpening, mirror effect, corridor mode, vertical flip, horizontal flip, lens distortion correction up to 6 s/up to 120 s
Video Analytics Video Analytics Functions Other functions Privacy Zones Motion Detection Region of interest (ROI) Image Processing Prealarn/Postalarm System Reaction to Alarm Events Restoring default settings	ipGO 6 (IPhone, Android) tamper, abandoned object, object disappearance, line cross, zone entrance, zone exit, object counting, face detection, detection of people not wearing masks, pedestrian detection, cross counting, heat map, scene change, video blurred, video color cast, objects distinguishing, people counting, vehicle counting, intrusion detection, video metadata 4 video mask type: single color or 4 video mask type: mosaic yes 8 180° 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
Video Analytics Video Analytics Functions Other functions Privacy Zones Motion Detection Region of interest (ROI) Image Processing Prealarm/Postalarm System Reaction to Alarm Events Restoring default settings IR LED	ipGO 6 (IPhone, Android) tamper, abandoned object, object disappearance, line cross, zone entrance, zone exit, object counting, face tection, detection of people not wearing masks, pedestrian detection, cross counting, heat map, scene change, video blurred, video color cast, objects distinguishing, people counting, vehicle counting, intrusion detection, video mask type: single color or 4 video mask type: mosaic yes 8 18° 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 via web browser, using reset button, via NMS IPTool software
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Video Analytics Video Analytics Functions Other functions Other functions Privacy Zones Motion Detection Region of Interest (ROI) Image Processing Prealarm/Postalarm System Reaction to Alarm Events Restoring default settings IR LED LED Number Range	ipGO 6 (IPhone, Android)  tamper, abandoned object, object disappearance, line cross, zone entrance, zone exit, object counting, fact change, video blurred, video color cast, objects distinguishing, people counting, heat map, scene change, video blurred, video color cast, objects distinguishing, people counting, vehicle counting, intrusion detection, video metadata  4 video mask type: single color or 4 video mask type: mosaic yes 8 180° image rotation, sharpening, mirror effect, corridor mode, vertical flip, horizontal flip, lens distortion correction up to 6 supt to 120 s e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card via we b browser, using reset button, via NMS IPTool software 2 20 m
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Noble applications Video Analytics Video Analytics Functions Other functions Privacy Zones Motion Detection Region of interest (ROI) Image Processing Prealarm/Postalarm System Reaction to Alarm Events Restoring default settings IR LED LED Number Range Smart IR Interfaces Audio Input/Output	ipGO 6 (IPhone, Android)  tamper, abandoned object, object disappearance, line cross, zone entrance, zone exit, object counting, face detection, detection of people not wearing masks, pedestrian detection, cross counting, heat map, scene change, video blurred, video color cast, objects distinguishing, people counting, vehicle counting, intrusion detection, video metadata  4 video mask type: single color or 4 video mask type: mosaic yes 8 180° 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 via web browser, using reset button, via NMS IPTool software 2 20 m yes (software support) 1x Jack (3.5 mm)/- built-in microphone
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Nobile applications Video Analytics Video Analytics Punctions Other functions Other functions Privacy Zones Modion Detection Region of Interest (ROI) Image Processing Prealarm/Postalarm Prealarm/Postalarm System Reaction to Alarm Events Restoring default settings IR LED LED Number Range Smart IR Interface Audio Input/Output Network Interface Memory Card Stot	ipGO 6 (IPhone, Android)  tamper, abandoned object, object disappearance, line cross, zone entrance, zone exit, object counting, face detection, detection of people not wearing masks, pedestrian detection, cross counting, heat map, scene change, video blurred, video color cast, objects distinguishing, people counting, whicle counting, intrusion detection, video metadata  4 video mask type: single color or 4 video mask type: mosaic yes 8 180° 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 via web browser, using reset button, via NMS IPTool software 2 20 m yes (software support) 1 x Jack (3.5 mm)/- built-in microphone
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Noble applications Video Analytics Video Analytics Functions Other functions Privacy Zones Motion Detection Region of interest (ROI) Image Processing Prealarm/Pocessing Prealarm/Pocessing Prealarm/Pocessing Restoring default settings RetD LED Number Restoring default settings RatEO LED Number Range Smart IR Interfaces Audio Input/Output Network Interface Memory Card Slot InterlaceIN Dimensions (mm)	ipGO 6 (IPhone, Android)         tamper, abandoned object, object disappearance, line cross, zone entrance, zone exit, object counting, fact detection, detection of people not wearing masks, pedestrian detection, cross counting, heat map, scene change, video blurred, video color cast, objects distinguishing, people counting, whicle counting, intrusion detection, video mask type: single color or 4 video mask type: mosaic         4 video mask type: single color or 4 video mask type: mosaic         yes         8         180° image rotation, sharpening, mirror effect, corridor mode, vertical flip, horizontal flip, lens distortion correction         up to 6 sup to 120 s         e-mail, e-mail with attachment, saving file on FTP server, saving file on SD card         via we b browser, using reset button, via NMS IPTool software         2         20 m         yes (software support)         1 sigk: (3.5 mm)/- built-in microphone         1 x Ehernet -R-JAS interface, 10/100 Mbitys         microsD - capacity up to 256GB         110 (o) x 59.8 (H)
Noble applications Video Analytics Video Analytics Functions Other functions Privacy Zones Motion Detection Region of interest (ROI) Image Processing Prealarm/Postalarm System Reaction to Alarm Events Restoring default settings IR LED LED Number Range Smart IR Interfaces Audio Input/Output Network Interface Memory Card Slot Installation parameters Dimensions (mm) Weight	ipGO 6 (IPhone, Android)         tamper, abandoned object, object disappearance, line cross, zone entrance, zone exit, object counting, face detection, detection of people not wearing masks, pedestrian detection, cross counting, heat map, scene change, video blurred, video color cast, objects distinguishing, people counting, vehicle counting, intrusion detection, video mask type: single color or 4 video mask type: mosaic         4 video mask type: single color or 4 video mask type: mosaic         yes         8         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         vise we browser, using reset button, via NMS IPTool software         2         20 m         yes (software support)         1 x jack (3.5 mm)/- built-in microphone         1 x lack at - 4,9-45 interface, 10/100 Mbit/s microSD - capacity up to 256CB         110 (r0) x 59.8 (rt)         0.4 kg
Noble applications Video Analytics Video Analytics Functions Other functions Privacy Zones Motion Detection Region of interest (ROI) Image Processing Prealarm/Pocessing Prealarm/Pocessing Prealarm/Pocessing Restoring default settings RetD LED Number Restoring default settings RatEO LED Number Range Smart IR Interfaces Audio Input/Output Network Interface Memory Card Slot InterlaceIN Dimensions (mm)	ipGO 6 (IPhone, Android)         tamper, abandoned object, object disappearance, line cross, zone entrance, zone exit, object counting, face detection, detection of people not wearing masks, pedestrian detection, cross counting, heat map, scene change, video blarred, video coir cast, objects distinguishing, people counting, whicle counting, intrusion detection, video mask type: single coir or 4 video mask type: mosaic         4 video mask type: single coir or 4 video mask type: mosaic         yes         8         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         via web browser, using reset button, via NMS IPTool software         2         20 m         yes (software support)         1 x jack (3.5 mm)/- buil-in microphone         1 x lack (3.5 mm)/- buil-in microphone         1 x lack (3.5 mm)/- buil-in microphone         1 x lo(9) x 59.8 (H)         0 4 kg         IP 66 (details in the user's manual)
Mobile applications Video Analytics Video Analytics Functions Other functions Other functions Other functions Privacy Zones Motion Detection Region of interest (ROI) Image Processing Prealarm/Postalarm System Reaction to Alarm Events Restoring default settings IR LED LED Number Range Smart IR Interface Audio Input/Output Network Interface Memory Card Stot Installation parameters Dimensions (mm) Weight Degree of Protection Enclosure	ipGO 6 (IPhone, Android)         tamper, abandoned object, object disappearance, line cross, zone entrance, zone exit, object counting, face detection, detection of people not wearing masks, pedestrian detection, cross counting, heat map, scene change, video blarred, video color cast, objects distinguishing, people counting, whicle counting, intrusion detection, video mask type: single color or 4 video mask type: mosaic         4 video mask type: single color or 4 video mask type: mosaic         yes         8         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         via web browser, using reset button, via NMS IPTool software         2         20 m         yes (software support)         1 x jack (3.5 mm)/- built-in microphone         1 x Ethernet - RJ-45 interface, 10/100 Mbit/s microsD - capacity up to 256GB         110 (Φ) x 59.8 (H)         0.4 kg         IP 66 (details in the user's manual)         vandaproof, IK10 impact rating, aluminium, white enclosure bye-65.50
Mobile applications Video Analytics Functions Cher functions Cher functions Cher functions Cher functions Cher functions Privacy Zones Motion Detection Region of interest (ROI) Image Processing Prealarm/Postalarm System Reaction to Alarm Events Restoring default settings IR EDD IED Number Range Smart IR Interface Audio Input/Output Network Interface Memory Card Slot Installation parameters Dimensions (mm) Weight Degree of Protection	ipGO 6 (IPhone, Android)         tamper, abandoned object, object disappearance, line cross, zone entrance, zone exit, object counting, face         detection, detection of people not wearing masks, pedestrian detection, cross counting, heat map, scene         change, video blurred, video color cast, objects distinguishing, people counting, whicle counting, intrusion         detection, video metadata         4 video mask type: single color or 4 video mask type: mosaic         yes         8         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         via web browser, using reset button, via NMS IPTool software         2         20 m         yes (software support)         uircrosD - capacity up to 255GB         110 (Φ) x 59.8 (H)         0.4 kg         µP 66 (detals in the user's manual)         vadaptroof, NLOD impact rating, aluminium, white

Power Consumption	4 W, 6 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). Video metadata - video analysis function available on cameras with software version newer or equal to 5.1.2(42545).