# **NoVus**

## 16-channel IP Recorder

### NVR-4416P16-H2/F-II





#### **KEY FEATURES**

























- •16 x PoE Ethernet ports
- •16 x video and audio channels
- •Recording speed up to 480 fps at 3840 x 2160
- •Recorded stream size: 112 Mb/s in total from all
- •2 x internal place for HDD mounting
- •2 x monitor outputs (HDMI 4K UltraHD, VGA)
- Face recognition

### **COMPLIANCE**



#### **DIMENSIONS**

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

#### **VIDEO**

IP Cameras	up to 16 channels at 3840 x 2160 resolution (video + audio)
Maximum Supported Camera Resolution	3840 x 2160 • 4000 x 3000 for fisheye cameras
Compression	H.264, H.264+, H.265, H.265+
Monitor Output	main (split screen, full screen, sequence): 1 x HDMI (4K UltraHD), 1 x VGA (up to 2 monitors simultaneously)
Dualstreaming Support	yes
Fisheye Support	using any web browser, ipGO 4, N Control 4000
AUDIO	
Audio Input/Output	1 x line-in (RCA) / 1 x HDMI, 1 x line-out (RCA)
RECORDING	
Recording Speed	480 fps (16 x 30 fps for 3840 x 2160 and lower)
Stream Size	112 Mb/s in total from all cameras
Recording Mode	continuous, triggered by: manual, alarm input, motion detection, face recognition, intelligent image analysis functions, PIR alarm, downloading camera records after restoring network connection (ANR)
Prealarm/Postalarm	up to 3 s/up to 600 s
DISPLAY	
Display Speed	480 fps (16 x 30 fps)
PLAYBACK	
Playback Speed	480 fps (16 x 30 fps)
Recorded Data Search	by date/time, events, image analysis events, motion in a defined area, related to face recognition, tags
BACKUP	
Backup Methods	USB port (HDD or Flash memory), network
Backup File Format	JPG, BMP, PNG, MP4, AVI, RF
STORAGE	
Internal Storage	available mount: 2 x HDD 3.5" 8 TB SATA
Total Internal Capacity	16 TB
External storage	network HDD (NFS or SMB/CIFS)

8 TB



**Total External Capacity** 

# **NOVUS**



300 mm





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#### **ALARM**

Camera Alarm Input/Output	supports IP camera's alarm input/output
System Reaction to Alarm Events	buzzer, e-mail, alarm output activation, screen message, recording activation, PTZ, Full Screen, FTP picture upload, FTP video upload, picture to Cloud, video to Cloud, voice prompt

#### **INTELLIGENT IMAGE ANALYSIS**

Supported Functions	Exception, Tripwire, Zone entrance, Abandoned Object, Object
	Disappearance, Crowd detection, Face Detection, Face Recognition
	(in cooperation with selected 4000 series cameras), Pedestrian
	Detection, Cross Counting, Sound detection, Perimeter Intrusion
	Detection by pedestrian or vehicle, Line Cross Detection by
	pedestrian or vehicle, License Plate Recognition (LPR), Objects
	Distinguishing, Queue Lenght Detection, Heat Map, Cross Counting by
	nedestrian or vehicle

#### **NETWORK**

Network Interface	1 x Ethernet - RJ-45 interface, 10/100/1000 Mbit/s • 16 x Ethernet PoE (IEEE802.3af, Class 3) - RJ-45 interface, 10/100 Mbit/s
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, UPnP, SNMP, PPPoE, SMTP, P2P, HTML5
PC/MAC Software	NOVUS MANAGEMENT SYSTEM VSS, NOVUS MANAGEMENT SYSTEM AC, NMS, Internet Explorer, NHDR-5000 Viewer, Firefox, Chrome, Opera, Edge, N Control 4000/Safari, NHDR-5000 Viewer, N Control 4000
Mobile applications	ipGO 4 (iPhone, Android)
Number of Simultaneous Connec	ctionsup to 32 users, each user up to 5 devices
Bandwidth	112 Mb/s in total to all client workstations
PTZ	
PTZ Functions	pan/tilt/zoom, preset commands, patterns

## **AUXILIARY INTERFACES**

USB Ports	2 x USB 2.0

### **OPERATING SYSTEM**

Operating System	Linux
OSD	languages: Polish, English, others
Control	PC mouse and IR remote controller (in-set included), network
System Diagnostic	automatic control of: HDDs, network, camera connection loss
Security	password protection, IP filtering

#### **INSTALLATION PARAMETERS**

Dimensions (mm)	300 (W) x 53 (H) x 297 (D)
Weight	1.5 kg (without HDDs)
Power Supply	48 VDC (100 ~ 240 VAC/48 VDC PSU in-set included)
Power Consumption	30 W (with 2 HDDs) + 156 W PoE
Operating Temperature	-10°C ~ 45°C

The availability of individual functions (including image analysis) depends on the model of the cameras used, as well as the software version of the recorder and cameras.

In order to create face recognition system, please deploy NOVUS 4000 series IP cameras with "F" in the model name.

Presented display and playback speeds are achieved using dual-streaming. Detailed data on hard drives can be found in the compatibility table available in the DOWNLOADABLE FILES tab.





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