NOVUS

IP Recorder
NVR-4416P16-H2/F-II

4000 VSS IP

KEY FEATURES

- INGENIUS PLUS
- FACE RECOGNITION
- FACE DETECTION
- VCA ANALYSIS
- 4K HDMI
- H·265+
- 8 Mpx
- x16 V+A
- 112 Mb/s Stream
- 480 fps • REC
- ×2 Monitor
- ×2 HDD
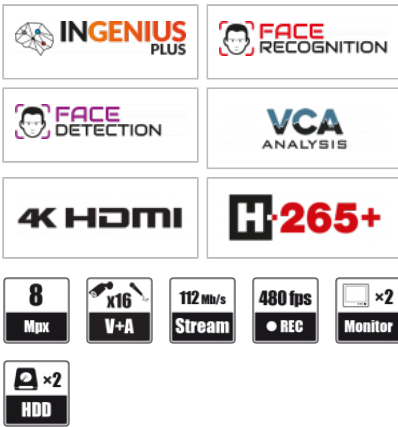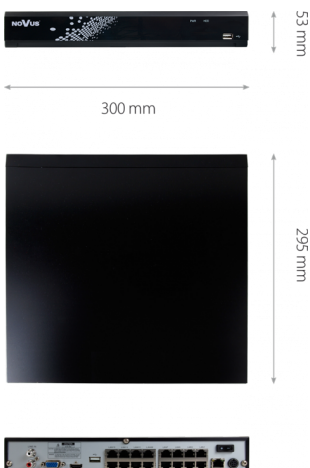
- 16 x Ethernet PoE - RJ-45 interface, 10/100 Mbit/s
- Video and audio channels: 16
- Supported protocols: ONVIF
- Recording speed up to 480 fps at 3840 x 2160
- Recorded stream size: 112 Mb/s in total from all cameras
- Internal HDDs mount: 2
- Monitor outputs: 2 (HDMI (4K UltraHD), VGA)
- Face recognition

DIMENSIONS

53 mm

300 mm

295 mm

VIDEO

IP Cameras	up to 16 channels at 3840 x 2160 resolution (video + audio)
Maximum Supported Camera Resolution	3840 x 2160 • 3000 x 3000 for fisheye cameras
Compression	H.264, H.264+, H.265, H.265+
Monitor Output	main (split screen, full screen, sequence): 1 x VGA, 1 x HDMI (4K UltraHD) (up to 2 monitors simultaneously)
Dualstreaming Support	yes

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	time-lapse, triggered by: manual, alarm input, motion detection, intelligent image analysis functions, PIR alarm
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

ALARM

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

INTELLIGENT IMAGE ANALYSIS

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Supported Functions	Exception, Tripwire, Zone entrance, Abandoned Object, Object Disappearance, Crowd detection, Face Detection, Pedestrian Detection, Cross Counting, Face Recognition, People Counting, Sound detection, Perimeter Intrusion Detection by pedestrian or vehicle, Line Cross Detection by pedestrian or vehicle, Objects Distinguishing, Queue Lenght Detection, Heat Map

NETWORK

Network Interface	1 x Ethernet - RJ-45 interface, 10/100/1000 Mbit/s • 16 x Ethernet PoE - RJ-45 interface, 10/100 Mbit/s with Extended mode
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, UPnP, SNMP, PPPoE, SMTP, P2P, HTML5
PC/MAC Software	NMS, Internet Explorer, NHDR-5000 Viewer, Firefox, Chrome, Opera, Edge/Safari, NHDR-5000 Viewer
Mobile applications	RxCamView (iPhone, Android)
Number of Simultaneous Connections	up to 40 clients
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

In order to take full advantage of the recorder capabilities it is recommended to use NOVUS IP 4000 series cameras.
The availability of individual functions (including face recognition) depends on the model of cameras used as well as the software version of the recorder and cameras.
In order to create face recognition system please deploy 4000 series cameras with "F" in the model name only.
Detailed data on camera compatibility with recorders and compatible hard drives can be found in the compatibility tables available in the DOWNLOADABLE FILES tab.
Display and playback speeds are achieved using dual stream.