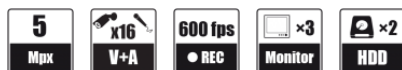


Multistandard AHD Recorder NHDR-4116-H2/F



4000 VSS
HYBRID

KEY FEATURES



- Video channels: 16, audio channels: 16
- Recording speed: up to 480 fps (AHD), up to 600 fps (IP)
- Internal HDDs mount: up to 2
- Monitor outputs (main): 3
- Supports HD analog cameras (720p, 1080p, 4MPX, 5MPX)
- Supports AHD, TVI, CVI cameras
- IP cameras support (hybrid mode)
- Intelligent image analysis
- PIR cameras support

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 **DOWNLOADABLE FILES** tab.

VIDEO

Video Input	16 x BNC
Operating mode	AHD 5Mpx, TVI 5Mpx, CVI 4Mpx, analog 960H
Monitor Output	main (split screen, full screen, sequence): 1 x HDMI (4K UltraHD), 1 x VGA (FullHD) • spot: 1 x BNC
IP Streams	DVR mode: 16 x BNC + 0 x IP • hybrid mode: 16 x BNC + 4 x IP • IP mode: 0 x BNC + 20 x IP
Supported IP resolution	max. 2592 x 1944

AUDIO

Audio Input/Output	16 x RCA (Line-in)/1 x HDMI, 1 x RCA
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RECORDING

Compression	H.264, H.265
Recording Speed	480 fps (960 x 576 - 960H) • 480 fps (1280 x 720 - HD) • 240 fps (1920 x 1080 - FullHD) • 256 fps (1280 x 1440 - 4Mpx Lite) • 192 fps (1280 x 1944 - 5Mpx Lite)
IP recording speed	hybrid mode: 120fps • IP mode: 600fps
IP stream size	hybrid mode: 16 Mb/s in total from all IP cameras • IP mode: 80 Mb/s in total from all IP cameras
Recording Mode	continuous, triggered by: REC/PANIC button, alarm input, motion detection, PIR alarm, image analysis
Schedule	individual settings for: each camera, each day of the week, configuration with an accuracy of: 30 min, possibility of combining individual recording modes
Prealarm/postalarm	up to 3 s/up to 5 min

PLAYBACK

Playback speed	480 fps
IP playback speed	480 fps
Recorded Data Search	by date/time, events, image analysis events, motion in a defined area, tags

BACKUP

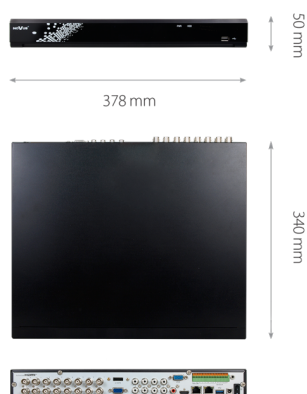
Backup Methods	USB port (HDD or Flash memory), network
Backup File Format	JPG, BMP, PNG, MP4, AVI

STORAGE

Internal storage	available mount: 2 x HDD 3.5" SATA
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Multistandard AHD Recorder

NHDR-4116-H2/F



Total Internal Capacity	16 TB
External storage	1 x eSATA, Network HDD (NFS or SMB/CIFS)
Total External Capacity	8 TB

ALARM

Alarm Input/Output	16/1 relay type
IP Camera Alarm Input/Output	supports IP camera's alarm input/output
Motion Detection	30 x 44 grid, individual settings of sensitivity, PIR cameras support
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, PUSH message, voice prompt

INTELLIGENT IMAGE ANALYSIS

Number of channels	16 x BNC, 20 x IP (4000 Serie)
Supported functions for analog cameras	Exception, Line cross, Zone entrance, Face detection, Sound detection, Human & Vehicle Detection, Intrusion, Region Entrance, Region Exiting
Supported functions for IP cameras	Exception, Line cross, Zone entrance, Abandoned object, Object disappearance, Face detection, Cross counting, Sound detection, Human & Vehicle Detection, Heat Map, Crowd Density Detection, Queue Length Detection, License Plate Detection, Rare Sound Detection, Intrusion, Face Recognition, License Plate Recognition

NETWORK

Network Interface	2 x Ethernet - RJ-45 interface, 10/100/1000 Mbit/s
Network Protocols Support	HTTP, TCP/IP, IPv4/v6, HTTPS, FTP, DHCP, DNS, DDNS, NTP, SNTP, RTSP, UPnP, SNMP, PPPoE, SMTP, P2P, POS, HTML5
PC/MAC Software	NOVUS MANAGEMENT SYSTEM VSS, NOVUS MANAGEMENT SYSTEM AC, NMS, Internet Explorer, Firefox, Chrome, Opera, Edge, N Control 4000/Safari, N Control 4000
Mobile applications	ipGO 4 (iPhone, Android)
Number of Simultaneous Connections	up to 20 (live monitoring: 20, playback: 1, configuration: 20)
Bandwidth	90 Mb/s in total to all client workstations

PTZ

PTZ Ports	1 x RS-485
PTZ Protocols	Pelco-D, Pelco-P
PTZ Functions	pan/tilt/zoom, preset commands, patterns

COAX

COAX Functions	menu, zoom, focus, PTZ
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AUXILIARY INTERFACES

USB Ports	1 x USB 3.0, 1 x USB 2.0
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OPERATING SYSTEM

Operating System	Linux
OSD	languages: Polish, English, Russian, others
Control	PC mouse and IR remote controller (in-set included), network, NV-KBD50 keyboard
System Diagnostic	automatic control of: HDDs, camera connection loss
Security	password protection, IP filtering

INSTALLATION PARAMETERS

Dimensions (mm)	378 (W) x 50 (H) x 340 (D)
Weight	2.5 kg (without HDDs)
Power Supply	12 VDC (100 ~ 240 VAC/12 VDC PSU in-set included)
Power Consumption	30 W (with 2 HDDs)
Operating Temperature	-10°C ~ 55°C

The recorder is dedicated to work with AHD cameras, Novus 4000 series IP cameras and achieves the best functionality with them. 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.

The recording speed of analog cameras may be limited during playback.