NOVUS

Multistandard AHD Recorder

NHDR-4116-H2





KEY FEATURES











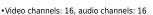










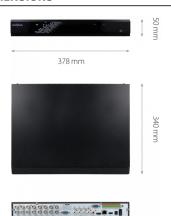


- •Recording speed: up to 480 fps (AHD), up to 600 fps (IP)
- •Internal HDDs mount: up to 2
- •Monitor outputs (main): 3
- •Supports HD analog cameras (720p, 1080p, 4MPX, 5MPX)
- •Supports AHD, TVI, CVI cameras
- •IP cameras support (hybrid mode)
- •Intelligent image analysis
- •PIR cameras support

COMPLIANCE



DIMENSIONS



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

H.264, H.265

RECORDING Compression

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	240 fps
IP playback speed	240 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 v HDD 3 5" SATA	

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Total Internal Capacity	16 TB
External storage	Network HDD (NFS or SMB/CIFS)
Total External Capacity	64 TB



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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
INTELLIGENT IMAGE ANALYSI	s
Number of channels	0 x BNC, 24 x IP (2000 and 4000 Serie)
Supported functions for analog cameras	Exception, Line cross, Zone entrance, Sound detection
Supported functions for IP cameras	Exception, Line cross, Zone entrance, Abandoned object, Object disappearance, Face detection, Pedestrian detestion, Cross counting Sound detection
NETWORK	
Network Interface	1 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, 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	RxCamView (iPhone, Android)
Number of Simultaneous Connection	nsup to 32 users, each user up to 5 devices
Bandwidth	96 Mb/s in total to all client workstations
PTZ	
PTZ Ports	1 x RS-485
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PTZ Protocols PTZ Functions	
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PTZ Protocols PTZ Functions COAX COAX Functions AUXILIARY INTERFACES USB Ports	Pelco-D, Pelco-P pan/tilt/zoom, preset commands, patterns menu, zoom, focus, PTZ
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PTZ Protocols PTZ Functions COAX COAX Functions AUXILIARY INTERFACES USB Ports OPERATING SYSTEM	Pelco-D, Pelco-P pan/tilt/zoom, preset commands, patterns menu, zoom, focus, PTZ 1 x USB 3.0, 1 x USB 2.0
PTZ Protocols PTZ Functions COAX COAX Functions AUXILIARY INTERFACES USB Ports OPERATING SYSTEM Operating System	Pelco-D, Pelco-P pan/tilt/zoom, preset commands, patterns menu, zoom, focus, PTZ 1 x USB 3.0, 1 x USB 2.0 Linux
PTZ Protocols PTZ Functions COAX COAX Functions AUXILIARY INTERFACES USB Ports OPERATING SYSTEM Operating System OSD	Pelco-D, Pelco-P pan/tilt/zoom, preset commands, patterns menu, zoom, focus, PTZ 1 x USB 3.0, 1 x USB 2.0 Linux languages: Polish, English, Russian, others PC mouse and IR remote controller (in-set included), network, NV-
PTZ Protocols PTZ Functions COAX COAX Functions AUXILIARY INTERFACES USB Ports OPERATING SYSTEM Operating System OSD Control	Pelco-D, Pelco-P pan/tilt/zoom, preset commands, patterns menu, zoom, focus, PTZ 1 x USB 3.0, 1 x USB 2.0 Linux languages: Polish, English, Russian, others PC mouse and IR remote controller (in-set included), network, NV-KBD50 keyboard
PTZ Protocols PTZ Functions COAX COAX Functions AUXILIARY INTERFACES USB Ports OPERATING SYSTEM Operating System OSD Control System Diagnostic Security	Pelco-D, Pelco-P pan/tilt/zoom, preset commands, patterns menu, zoom, focus, PTZ 1 x USB 3.0, 1 x USB 2.0 Linux languages: Polish, English, Russian, others PC mouse and IR remote controller (in-set included), network, NV-KBD50 keyboard automatic control of: HDDs, camera connection loss
PTZ Protocols PTZ Functions COAX COAX Functions AUXILIARY INTERFACES USB Ports OPERATING SYSTEM Operating System OSD Control System Diagnostic Security INSTALLATION PARAMETERS	Pelco-D, Pelco-P pan/tilt/zoom, preset commands, patterns menu, zoom, focus, PTZ 1 x USB 3.0, 1 x USB 2.0 Linux languages: Polish, English, Russian, others PC mouse and IR remote controller (in-set included), network, NV-KBD50 keyboard automatic control of: HDDs, camera connection loss password protection, IP filtering
PTZ Protocols PTZ Functions COAX COAX Functions AUXILIARY INTERFACES USB Ports OPERATING SYSTEM Operating System OSD Control System Diagnostic Security INSTALLATION PARAMETERS Dimensions (mm)	Pelco-D, Pelco-P pan/tilt/zoom, preset commands, patterns menu, zoom, focus, PTZ 1 x USB 3.0, 1 x USB 2.0 Linux languages: Polish, English, Russian, others PC mouse and IR remote controller (in-set included), network, NV-KBD50 keyboard automatic control of: HDDs, camera connection loss password protection, IP filtering 378 (W) x 50 (H) x 340 (D)
PTZ Protocols PTZ Functions COAX COAX Functions AUXILIARY INTERFACES USB Ports OPERATING SYSTEM Operating System OSD Control System Diagnostic Security INSTALLATION PARAMETERS	Pelco-D, Pelco-P pan/tilt/zoom, preset commands, patterns menu, zoom, focus, PTZ 1 x USB 3.0, 1 x USB 2.0 Linux languages: Polish, English, Russian, others PC mouse and IR remote controller (in-set included), network, NV-KBD50 keyboard automatic control of: HDDs, camera connection loss password protection, IP filtering







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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. In case of work with IP cameras intelligent image analysis, dualstream mode, PTZ control, motion detection and alarm inputs / outputs functions depend on the functionality of the IP camera and the capabilities of the communication protocol. Detailed data on camera compatibility with recorders and compatible hard drives can be found in the compatibility tables available in the DOWNLOADABLE FILES

Display and playback speeds are achieved using dual stream. The recording speed of analog cameras may be limited during playback.



