

## Multistandard AHD Recorder

#### NHDR-4304-H1



#### **KEY FEATURES**



•Video channels: 4, audio channels: 4

•Recording speed: up to 120 fps (AHD), up to 180 fps (IP)  $% \left( IP\right) =0.0120$ 

•Internal HDDs mount: up to 1

Monitor outputs: 3 (2 x main, 1 x spot)
Supports HD analog cameras (720p, 1080p, 4MPX, 5MPX, 8MPX)

•Supports AHD, TVI, CVI cameras

•IP cameras support (hybrid mode) •Intelligent image analysis

•PIR cameras support

#### COMPATIBILITY



#### DIMENSIONS



VIDEO		
Video Input	4 x BNC	
Operating mode	AHD 8Mpx, TVI 8Mpx, CVI 8Mpx, 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: 4 x BNC + 0 x IP • hybrid mode: 4 x BNC + 2 x IP • IP mode: 0 x BNC + 6 x IP	
Supported IP resolution	max. 3840 x 2160	
AUDIO		
Audio Input/Output	4 x RCA (Line-in)/1 x HDMI, 1 x RCA	
RECORDING		
Compression	H.264, H.265	
Recording Speed	120 fps (1280 x 720 - HD) • 120 fps (1920 x 1080 - FullHD) • 60 fps (2560 x 1440 - 4Mpx) • 48 fps (2560 x 1944 - 5Mpx) • 28 fps (3840 x 2160 - 8Mpx)	
IP recording speed	hybrid mode: 60fps • IP mode: 180fps	
IP stream size	hybrid mode: 12 Mb/s in total from all IP cameras • IP mode: 36 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	120 fps	
IP playback speed	120 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: 1 x HDD 3.5" SATA	
Total Internal Capacity	10 TB	
External storage	Network HDD (NFS or SMB/CIFS)	
	64 TB	

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## **RAT**



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ALARM		
Alarm Input/Output	4/1 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 ANALYSIS	S	
Number of channels	4 x BNC, 6 x IP (4000 Serie)	
Supported functions for analog cameras	Exception, Line cross, Zone entrance, Pedestrian detestion, 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 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	usup to 32 users, each user up to 5 devices	
Bandwidth	48 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	
AUXILIARY INTERFACES		
USB Ports	2 x USB 2.0,	
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)	300 (W) x 53 (H) x 227 (D)	
Weight	1.1 kg (without HDD)	
Power Supply	12 VDC (100 ~ 240 VAC/12 VDC PSU in-set included)	





# Multistandard AHD Recorder NHDR-4304-H1

Power Consumption	20 W (with 1 HDD)

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 tab.

Display and playback speeds are achieved using dual stream.

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

