

## **Multistandard AHD Recorder**

NHDR-4304-H1





## FUNCTIONS





















Alarm Input/Output

Motion Detection

mm

IP Camera Alarm Input/Output

System Reaction to Alarm Events

Supported functions for analog cameras







## **KEY FEATURES**

- •Video channels: 4, audio channels: 4
- •Recording speed: up to 120 fps (AHD), up to
- •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

## 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 (1292 x 1080 - FUIIID) 60 fps (2590 x 1440 - 4Mpx) 48 fps (2560 x 1944 - 4Mpx) 48 fps (2560 x 1944 - 5Mpx) 28 fps (3840 x 246 - 5Mpx)
	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)
0	Total External Capacity	64 TB
	Alarm	

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 Connections	up to 32 users, each user up to 5 devices
Bandwidth	48 Mb/s in total to all client workstations
PTZ	

supports IP camera's alarm input/output

4 x BNC, 6 x IP (4000 Serie)

30 x 44 grid, individual settings of sensitivity. PIR cameras support

Exception, Line cross, Zone entrance, Pedestrian detestion, Sound detection

 $buzzer, e-mail, alarm output \ activation, screen \ message, recording \ activation, PTZ, Full Screen, FTP picture upload, FTP video upload, picture to Cloud, video to Cloud$ 

PTZ Ports PTZ Protocols Pelco-D, Pelco-P pan/tilt/zoom, preset commands, patterns COAX COAX Functions menu, zoom, focus, PTZ 2 x USB 2.0, Operating system

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

300 (W) x 53 (H) x 227 (D) Weight 1.1 kg (without HDD) 12 VDC (100 ~ 240 VAC/12 VDC PSU in-set included) Power Consumption 20 W (with 1 HDD) -10°C ~ 55°C Operating Temperature

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.