



Multistandard AHD Recorder

NHDR-4304-H1



4000 VSS
HYBRID

FUNCTIONS



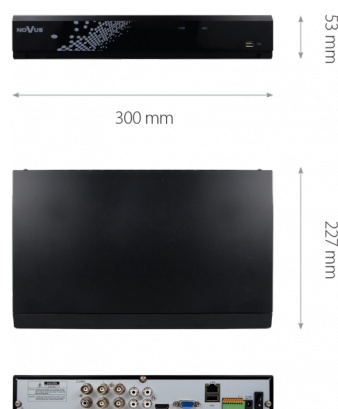
COMPATIBILITY



KEY FEATURES

- Video channels: 4, audio channels: 4
- Recording speed: up to 120 fps (AHD), up to 180 fps (IP)
- 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 (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) |
| Total External Capacity | 64 TB |
| 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 | |
| Number of channels | 4 x BNC, 6 x IP (4000 Serie) |
| Supported functions for analog cameras | Exception, Line cross, Zone entrance, Pedestrian detection, Sound detection |
| Supported functions for IP cameras | Exception, Line cross, Zone entrance, Abandoned object, Object disappearance, Face detection, Pedestrian detection, 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 | |
| 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) |
| 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.