

## Digital Video Recorder NDR-HA1104



### Features

- QUADRUPLEX: simultaneous recording, live monitoring or playback, backup and networking
- Operating system based on Linux
- Real-time display
- Recording speed: up to 100 fps
- H.264 and MPEG-4 compression (selectable)
- Recording resolution:
  - 720 x 288
  - 360 x 288
- Supports 1 SATA HDD
- Recording resolution, speed and quality defined individually for each camera
- Advanced schedule recording & motion detection functions
- Post-alarm function
- Advanced search functions of recorded images
- PTZ control directly from the device or through USB port, CD & through the network
- Possibility of controlling NOVUS® cameras equipped with RS-485 interface
- Protocol: Novus-C1, Pelco-D and others
- Backup: through USB port onto HDD, CD/DVD & through the network or USB Flash Memory
- Networking (simultaneous connections with multiple DVRs and alarm e-mail notification)
- Software: RASplus application (for remote administration, live monitoring and data search) with a built-in module for graphical object visualization (maps), RASmobile application (for mobile devices (PDA) based on Windows Mobile OS, for viewing camera images)
- Self-diagnostic function
- User friendly multi-lingual OSD
- Power supply: 100 ~ 240 VAC

Specifications	Description
Operation Mode	QUADRUPLEX
Operating System	Linux
Video Input	4 x BNC
Video Output	Main Monitor (1 x BNC, 1 x VGA)
Alarm Input	4
Alarm Output	1 relay output
Recording Speed	Up to 100 fps (360 x 288), up to 50 fps (720 x 288)
Compression	H.264 and MPEG-4 own algorithm (selectable)
Recording Resolution	720 x 288, 360 x 288
Recording Mode	Time-lapse, Event (Alarm, motion detection)
Display Speed	100 fps (real-time)
Display Screen	Full screen, 4, sequence, freeze image function, digital zoom of a chosen screen area: 2x

Specifications	Description
Motion Detection	192 detection windows (16x12 grid) with sensitivity & active areas cells number needed for alarm activation defined individually for each channel
Video Loss Detection	Yes
Schedule Recording	Individually adjustable for each day per camera, combination of individual recording modes possibility
Recorded Data Search	By date/time or events
Event History Log	Up to 5 000 alarm events
System Diagnostic	Automatic control of HDD bad sectors number („Health“) & temperature status with notification function
Storage	Supports 1 SATA HDD*
Backup	Through USB port onto HDD, CD/DVD & through the network or USB Flash Memory
External Ports	1 x Ethernet - RJ-45 interface, 10/100 Mb/s, 1 x USB 2.0 for external drives (HDD, CD-RW, Flash Memory), 1 x RS-485 for PTZ cameras
PTZ Functions	Directly from device or through the network (RASplus, RASmobile, IE)
Protocol	Novus-C1, Pelco-D i others
Control	Front panel, Network (RASplus, RASmobile, IE)
Set-up	Multi-lingual On Screen Display (OSD)
Software	RASplus, RASmobile
User Authorization	Yes
Auto System Recovery	Hardware WATCHDOG function
Power Supply	100 ~ 240 VAC
Power Consumption	Approx. 20 W with 1 HDD
Operating Temperature	5°C ~ 40°C
Relative Humidity	0% ~ 90% (non-condensing)
Dimensions (mm)	430 (W) x 46,5 (H) x 310 (D)
Weight	2,4 kg (without HDD)
*	The list of recommended disk models and their capacity is available on Novus Security website in the compatible disk file in the product tab."