

## Digital Video Recorder NDR-HA4416



### Features

- QUADRUPLEX: simultaneous recording, live monitoring, playback and networking
- Operating system based on Linux
- Real-time display
- Recording speed: up to 400 fps
- H.264 compression
- Recording resolution:
  - 720 x 576
  - 720 x 288
  - 360 x 288
- Supports up to 3 SATA HDDs, 1 HDD 500 GB in-set included
- Recording speed and quality defined individually for each camera
- Advanced schedule recording & motion detection functions
- Pre- & post-alarm functions
- 4-channel real-time audio recording
- External devices support ("Text-in" feature): ATM, POS, AC etc.
- Advanced search functions of recorded images
- PTZ control directly from the device or through the network
- Possibility of controlling NOVUS® cameras equipped with RS-485 interface
- Protocol: N-Control, Novus-C, Novus-C1, Pelco-D and others
- NV-KBD70 & NV-KBD30 keyboards compatible
- Possibility of installing DVD-RW drive (option)
- Backup: onto HDD or USB Flash Memory through USB port, CD/DVD (option) & through the network
- Networking (simultaneous connections with multiple DVRs and alarm e-mail notification)
- Software: RASplus application for remote administration, live monitoring and recorded data search with a built-in module for graphical object visualization (maps), RASmobile application for viewing camera images on mobile devices (PDA)
- Self-diagnostic functions with automatic notification
- User friendly multi-lingual OSD
- Covert camera function
- PC mouse control
- Power supply: 100 ~ 240 VAC

Specifications	Description
Operation Mode	QUADRUPLEX
Operating System	Linux
Video Input	16 x BNC, loop-through
Video Output	Main Monitor (1 x BNC, 1 x VGA), Spot Monitor (1 x BNC)
Alarm Input	16
Alarm Output	2 NO/NC
Audio Input	4 x RCA

Specifications	Description
Audio Output	1 x RCA
Recording Speed	Up to 400 obr/s (360 x 288), up to 200 obr/s (720 x 288), up to 100 obr/s (720 x 576)
Compression	H.264 - own algorithm
Recording Resolution	720 x 576, 720 x 288, 360 x 288
Recording Mode	Time-lapse, Event (Alarm, Motion detection and/or "Text-in")
Display Speed	400 fps (real-time)
Display Screen	Full screen, 4, 9, 16, PiP, sequence, user defined, digital zoom of a chosen screen area: 2x, freeze image function
Motion Detection	768 detection windows (24x32 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/specific days (holidays etc.) per camera, combination of individual recording modes possibility
Recorded Data Search	By date/time or events (motion, disappeared object, "Text-in")
Event History Log	Up to 5 000 alarm events
Time Synchronization	Automatic time synchronization with NTP server
System Diagnostic	Automatic control of HDD bad sectors number ("Health") & temperature status with local and network notification function
Storage	Supports up to 3 internal SATA HDDs*, 1 HDD 500 GB in-set included
Backup	Onto CD/DVD (option), HDD or USB Flash Memory through USB port, through the network
External Ports	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s 2 x USB 2.0 for external drives (HDD, PC mouse, Flash Memory, Printer) 1 x RS-485 for PTZ cameras or NV-KBD70 & NV-KBD30 keyboards 1 x RS-232 for POS, ATM, AC etc.
PTZ Functions	Directly from the device or through the network (RASplus, RASmobile, IE))
Protocol	N-Control, Novus-C, Novus-C1, Pelco-D and others
Control	Front panel, Network (RASplus, RASmobile, IE), NV-KBD70 & NV-KBD30 keyboards, USB PC mouse
Set-up	Multi-lingual On Screen Display (OSD)
Software	RASplus, RASmobile
User Authorization	Creation of user groups and accounts with diverse grants, password protection
Auto System Recovery	Hardware WATCHDOG function
Power Supply	100~240 VAC
Power Consumption	Approx. 55 W with 3 HDDs
Operating Temperature	5°C ~ 40°C
Relative Humidity	0% ~ 80% (non-condensing)
Dimensions (mm)	430 (W) x 88 (H) x 405 (D)
Weight	7.6 kg (without HDD)
Rack Mount	Standard EIA 19", 2U
*	The list of recommended disk models and their capacity is available on Novus website in the compatible disks file in the products tab