

## Digital Video Recorder NDR-HA6416



### Features

- PENTAPLEX: simultaneous recording, live monitoring/playback, backup, mirroring and networking
- Operating system based on Linux
- Real-time display
- Recording speed: up to 400 fps @ D1
- H.264 compression
- Recording resolution:
  - 720 x 576
  - 720 x 288
  - 360 x 288
- Supports up to 5 SATA HDDs, 1 HDD 500 GB in-set included
- Supports iSCSI storage
- Recording speed and quality defined individually for each camera
- Advanced schedule recording & motion detection functions
- Pre- & post-alarm functions
- 16-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: Novus-C, Novus-C1, N-Control, 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), RTSP stream
- Printing to PDF file or to PostScript printer
- Self-diagnostic functions with automatic notification
- User friendly multi-lingual OSD
- Covert camera function
- IR remote control (in-set included) and PC mouse control
- Power supply: 100 ~ 240 VAC

Specifications	Description
Operation Mode	PENTAPLEX
Operating System	Linux
Video Input	16 x BNC, loop-through
Video Output	Main Monitor (1 x BNC, 1 x HDMI, 1 x VGA), Secondary Monitor (1 x BNC, 1 x VGA), Spot Monitor (1 x BNC)
Alarm Input	16

Specifications	Description
Alarm Output	4 NO/NC
Audio Input	16 x RCA
Audio Output	1 x RCA
Recording Speed	up to 400 fps (720 x 576)
Compression	H.264 - own algorithm
Recording Resolution	720 x 576, 720 x 288, 360 x 288
Display Speed	400 fps @ CIF (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 5 SATA HDDs* (1 HDD connected via eSATA), 1 HDD 500 GB in-set included
Backup	Onto CD/DVD (option), HDD or USB Flash Memory through USB port, through the network
Mirroring	Automatic backup onto internal HDDs
External Ports	2 x Ethernet - RJ-45 interface, 10/100/1000 Mbit/s 1 x eSATA for DVD or HDD, 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)mobile, IE)
Protocol	Novus-C, Novus-C1, N-Control, Pelco-D and others
Control	Front panel, IR remote controller (in-set included), 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. 100 W with 5 HDDs
Operating Temperature	5°C ~ 40°C
Relative Humidity	0% ~ 80% (non-condensing)
Dimensions (mm)	430 (W) x 88 (H) x 490 (D)
Weight	10,4 kg (without HDD)
Rack Mount	Standard EIA 19", 2U
*	The list of recommended disk models and their capacity is available on <a href="http://www.novuscctv.com">www.novuscctv.com</a> in the Compatible Disks file in the product tab