

## Digital Video Recorder NDR-EA2416



### Features

- PENTAPLEX: simultaneous recording, live monitoring, playback/digital signage, backup and networking
- Operating system based on Linux
- Real-time display
- Recording speed: up to 400 fps
- H.264 compression
- Recording resolution:
  - 704 x 576
  - 704 x 288
  - 360 x 288
- Independent display on two main monitors (e.g. live and playback or live and digital signage etc.)
- Supports up to 2 SATA HDDs
- Recording resolution, speed and quality defined individually for each camera
- Advanced schedule recording & motion detection functions
- Pre- & post-alarm functions
- Recording time estimation function
- 8-channel real-time audio recording
- External devices support ("Text-in" feature): ATM, POS, AC etc.
- Digital Signage function
- Preview on one DVR images from other DVRs connected to the network
- Advanced search functions of recorded images
- PTZ control directly from the device or through the network
- Protocols: N-Control, Pelco-D, Pelco-P and others
- NV-KBD70 & NV-KBD30 keyboards compatible
- Backup: onto HDD or USB Flash Memory through USB port & through the network
- Networking (simultaneous connections with multiple DVRs and alarm e-mail notification)
- Software: E-Viewer application for remote administration, live monitoring and recorded data search with a built-in callback module (E-Viewer Callback), iMon2 application for live monitoring, receiving information on alarm events, alarm output control, DVR configuration from iPhone and Android OS devices
- Self-diagnostic functions with automatic notification
- User friendly multi-lingual OSD
- Covert camera function
- IR remote control and PC mouse control (in-set included)
- Power supply: 12 VDC (100 ~ 240 VAC/12 VDC PSU in-set included)

| Specifications   | Description                       |
|------------------|-----------------------------------|
| Operation Mode   | PENTAPLEX                         |
| Operating System | Linux                             |
| Video Input      | 16 x BNC, loop-through (option**) |
| Video Output     | Main Monitor (1 x BNC, 1 x VGA)   |
| Alarm Input      | 4 (Including Emergency)           |

| Specifications        | Description   |
|-----------------------|---|
| Alarm Output          | 2 OC  |
| Audio Input           | 8 x RCA (Line-in)   |
| Audio Output          | 1 x RCA   |
| Recording Speed       | Up to 400 fps (360 x 288), up to 200 fps (704 x 288), up to 100 fps (704 x 576)   |
| Compression           | H.264   |
| Recording Resolution  | 704 x 576, 704 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, 1 + 5, 9, 1 + 7, 1 + 12, 16, PiP, sequence, digital zoom of a chosen screen area: 8x, freeze image function   |
| Motion Detection      | 99 detection windows (9x11 grid) with sensitivity 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, events or "Text-in"   |
| Event History Log     | Up to 10 000 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 2 SATA HDDs*   |
| Backup                | Onto HDD or USB Flash Memory through USB port, through the network  |
| External Ports        | 1 x Ethernet - RJ-45 interface, 10/100 Mbits/s,<br>2 x USB 2.0 for external drives (HDD, Flash Memory) or PC mouse<br>1 x RS-485 & 1 x RS-232 for PTZ cameras, NV-KBD70 & NV-KBD30 keyboards, POS, ATM, AC etc. |
| PTZ Functions         | Directly from the device or through the network   |
| Protocol              | N-Control, Pelco-D, Pelco-P and others  |
| Control               | Front panel, IR remote control (in-set included), Network (E-Viewer, IE, iMon2), NV-KBD70 & NV-KBD30 keyboards, USB PC mouse (in-set included)  |
| Set-up                | Multi-lingual On Screen Display (OSD)   |
| Software              | E-Viewer, iMon2   |
| User Authorization    | Creation of user groups and accounts with diverse grants, password protection   |
| Auto System Recovery  | Hardware WATCHDOG function  |
| Power Supply          | 12 VDC (100 ~ 240 VAC/12 VDC PSU in-set included)   |
| Power Consumption     | Approx. 40 W with 2 HDDs  |
| Operating Temperature | 5°C ~ 40°C  |
| Relative Humidity     | 0% ~ 80% (non-condensing)   |
| Dimensions (mm)       | 340 (W) x 67 (H) x 267 (D)  |
| Weight                | 2 kg (without HDD)  |
| *                     | The list of recommended disk models and their capacity is available on Novus Security website in the Compatible Disks file in the product tab   |
| **                    | Loop-through connection is performed via NDR-EA/LOOP cable, which needs to be purchased separately. Single NDR-EA/LOOP cable supports up to 8 video channels.   |