# Video Security

Recorders | eneo Digital Video Recorders

## DLR3-16N/410CD
Digital Video Recorder (16-Channels)
410GB HDD, CD-RW Drive, Ethernet,230VAC

**Art-No. 71927**

**eneo**

## Features

| | |
|---|---|
| **Duplex Operation** | **Audio and Alarm Inputs / Outputs** |
| **MPEG-4 Video Compression** | **Secondary Storage/Archiving via USB and CD-RW** |
| **Recording / Playback Speed 100 Fields/Sec. max.** | **Storage Capacity 410GByte (3 HDDs max.)** |
| **Video Resolution 720x576 Pixels max. (PAL)** | **Live Picture & Playback Zoom (2x)** |
| **16 Loop-through Inputs / VGA, Composite Outputs** | **Integrated Motion Detector** |
| **Network Connectivity (10/100Base-T Ethernet)** | **PTZ Control and Remote Control through RS-485 Port** |

## Specifications

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|---|---|
| **Operation mode** | duplex |
| **Video standard** | PAL/NTSC (automatic selection) |
| **Video inputs (amount)** | 16 |
| **Video inputs** | 16x 1Vp-p, (C)VBS, 75ohms, BNC, looping inputs |
| **Main exits** | CVBS, Y/C, VGA |
| **Video outputs** | 1Vp-p, (C)VBS, 75ohms, BNC  Y/C: Y=1Vp-p, 75ohms C=0.3Vp-p |
| **Spot monitor** | CVBS |
| **Audio inputs** | 2, 2x line-in, Cinch |
| **Audio output** | 1x line-out, RCA socket |
| **Alarm inputs** | 16x TTL, programmable as NC/NO |
| **Activity detection** | 16x12 grid, Sensitivity levels: 5,  Discrimination size: 192 levels |
| **Alarm out** | On system and disk fail |
| **Alarm outputs** | 2x Relais contacts (terminal block) |
| **Alarm notification** | E-Mail, Pager, Remote SW (RAS) |
| **Alarm processing** | Programmable automatic alarm multiscreens |
| **Alarm reset input** | 1x TTL |

## DLR3-16N/410CD

(Specifications continued)

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| **Event Logs** | No limit for alarm-in, motion, video loss, text-in |
| **System logs** | up to 5000, user login/out, config. changes, remote access, connects/disconnects and errors, disk read and write errors |
| **Max. recording resolution** | 672 x 272 (2CIF) |
| **Resolution** | 720x576 Pixels (PAL/Display) |
| **Compression standard** | MPEG4, MPEG4 (advanced compression engine provides smaller data size without significant picture quality distortion), Audio: G.726, (ADPCM) |
| **Image size** | Low: 2/2.4kB, Standard: 4/4.8kB, High: 8/9.6kB, Very high: 12/14.4kB (NTSC/PAL). 2x bigger at high resolution mode |
| **Max. recording rate** | 100HB/Sek. |
| **Recording speed** | 100 Fields/sec. at CIF (336x272 Px. / PAL), 50 Fields/sec. at 2CIF (672x272 Px. / PAL) |
| **Digital storage media** | ATA-2 (EIDE) HDD's, Built-in CD-RW |
| **Max. harddisk capacity (internal)** | 1500GB, 410GByte ATA-2 HDD's (up to 3 internal HDD's) |
| **Harddisk capacity (internal)** | 410GB |
| **Pre-alarm recording** | Up to 30min. |
| **Post-alarm recording** | Up to 15min. |
| **Playback** | 1, 4-, 9-, 16-channel Split, PIP |
| **Playback speed** | 25 Fields/sec. at CIF (336x272 Px. / PAL) |
| **Monitor display** | Real time: 25 Fields/sec. (PAL), 30 Fields/sec. (NTSC) per camera |
| **Zoom function** | 2x |
| **Covert camera operation** | programmable |
| **Intergrated writer** | CD |
| **Archiving** | USB (HDD's, CD-RW, Flash drive), IDE (CD-RW) |
| **Secondary Storage** | via USB 2.0, Built-in CD-RW. Network Data Export: Clip Player, AVI, JPG, BMP |
| **Control units (external)** | system keyboard, mouse |
| **Remote control** | - |
| **Remote access** | remote software |
| **Remote Software** | For remote administration and search function (RAS plus, supplied with the unit) |
| **Time synchronization** | Via Network time protocol. Operation as Network time server |
| **Menu languages** | German, English, Italian, French, Spanish, Polish, Russian, Czech, Hungarian |
| **Ethernet interface** | 10Base-T/100-Base-TX, RJ-45 |
| **Network protocols** | TCP/IP, ADSL, DHCP, DVRNS |
| **Transmission rate (Network)** | 100 Fields/sec. (CIF), 50 Fields/sec. (2CIF), PAL |
| **Interfaces external storage** | USB, 2x USB, 1x RS-485, 1x RS-232 (Remote control via modem),, 2x USB 2.0 |
| **Serial interfaces** | RS-232, RS-485, RS-485 for telemetry control (proved protocols: eneo-Fastrax, Pelco P/D) or remote keyboard control, RS-485 for telemetry control (proved protocols: eneo-Fastrax, Pelco P/D) or remote keyboard control |

## DLR3-16N/410CD

(Specifications continued)

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|---|---|
| **Text insertion interface** | ATM/POS |
| **Security** | Key lock, 64 user groups access rights programmable for each group (up to 256 user) |
| **Supply voltage** | 100VAC~230VAC, 50/60Hz |
| **Power consumption** | approx. 150watts |
| **Temperature range (Operation)** | +5°C ~ +40°C |
| **Housing** | Steel metal with plastic front, desktop design |
| **Colour** | Pantone 427C |
| **Dimensions (HxWxD)** | 88x430x393mm |
| **Weight** | approx. 7.4kg |
| **Parts supplied** | 19" Rack mount kit, Mains cable, Viewer CD ROM (RAS+), Manuals |

## Accessories

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|---|---|
| **71857 / HDD-250** | Hard Disk Drive 250GB for DLR/DXR/DTR/ DCR and BTR-30xx Series |
| **71919 / HDD-500** | Hard Disk Drive 500GB for DLR/DXR/DTR/ DCR and BTR-30xx Series |
| **74088 / EDC-KBD1** | System Keyboard with 3-axis Joystick, 12VDC/230VAC |
| **74092 / EDC-KBDM-3** | System Keyboard w. Joystick, 5" Monitor 12VDC/230VAC, Fastrax Protocol |
| **71902 / DVR-MOUSE** | USB Mouse for Recorder Series DTR (DXR), DPR and DLR3 |

## Product Information

The DLR3 series duplex recorders feature a very efficient compression method (MPEG-4). As a result they only take up approximately 12K for one best quality image, which is significantly less than comparable models. As storage capacity can be expanded to up to 3 Hard Disks, recording long periods of time is no problem. Recorders of the DLR3 series are network compatible and are equipped with supporting remote software. This software enables access to live pictures and recorded images in single or multi-image mode without interrupting recording. For quick and easy archiving a CD writer is integrated.

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