

# Video Security

Recorders | eneo Digital Video Recorders

## DLR2-04N/160

Digital Video Recorder (4-Channel)  
160GB Hard Disk, Alarm Input, Ethernet

Art-No. 71931



## Features

### Duplex Operation

MPEG-4 Video Compression

Recording Speed: 100 Fields/Sec. max.

Video Resolution: 720x576 Pixels max. (PAL)

4 Loop-through Inputs / VGA, Comp./S-VHS Output

Network Connectivity (10/100Base-T Ethernet)

### Built-in CD Writer

Audio and Alarm Inputs / Outputs

Secondary Storage / Archiving via USB and CD-RW

Storage Capacity 160GByte (3 HDDs max.)

Live Picture & Playback Zoom (2x)

Integrated Motion Detector

## Specifications

Operation mode	duplex
Video standard	PAL/NTSC (automatic selection)
Video inputs (amount)	4
Video inputs	4x 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	no
Audio inputs	4, 4x line-in, RCA sockets
Audio output	1x line-out, RCA socket
Alarm inputs	4x TTL, programmable as NC/NO
Activity detection	16x12 grid, Sensitivity levels: 5, Discrimination size: 192 levels
Acoustic alarm display	80db at 10cm
Alarm outputs	2x relays with NO/NC contact 30VDC/2A, 125VAC/0.6A resistive
Alarm reset input	1x TTL
Event Logs	Up to 10,000 for alarm-in, motion, video loss, text-in

(Specifications continued)

<b>System logs</b>	Up to 1,000 for user login/out, config. changes, remote access, connects/disconnects and errors, disk read and write errors
<b>Max. recording resolution</b>	672 x 272 (2CIF)
<b>Resolution</b>	720x576 Pixels (Display)
<b>Compression standard</b>	MPEG4, MPEG4 (advanced compression engine provides smaller data size without significant picture quality distortion), Audio: G.726, (ADPCM)
<b>Image size</b>	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
<b>Max. recording rate</b>	100HB/Sek.
<b>Recording speed</b>	100 Fields/sec. at 336x272 50 Fields/sec. at 672x272 (PAL)
<b>Digital storage media</b>	EIDE HDD's
<b>Max. harddisk capacity (internal)</b>	1500GB, 160GByte EIDE HDD (up to 3 internal HDD's)
<b>Harddisk capacity (internal)</b>	160GB
<b>Pre-alarm recording</b>	Up to 5min.
<b>Post-alarm recording</b>	Up to 5min.
<b>Playback</b>	Single and quad picture
<b>Monitor display</b>	Realtime Multidisplay 25 Fields/sec. (PAL), 30 Fields/sec. (NTSC)
<b>Zoom function</b>	2x
<b>Covert camera operation</b>	programmable
<b>Intergrated writer</b>	CD
<b>Secondary Storage</b>	USB1.1 interface (Export via CD-RW writer only)
<b>Control units (external)</b>	system keyboard
<b>Remote access</b>	remote software, browser
<b>Remote Software</b>	For remote administration and search function (supplid with the unit)
<b>Scheduling</b>	Different schedule for 7 days per week, programmable holidays, hour-by-hour configuration, time-lapse, event-driven, 2 mixed independent time-lapse schedules
<b>Menu languages</b>	German, English, Italian, French, Spanish
<b>Ethernet interface</b>	10/100-Base-TX, RJ-45
<b>Interfaces external storage</b>	USB, 1x USB1.1 (Data export and upgrade), 1x RS-232 (PTZ and remote control and configuration via modem)
<b>Serial interfaces</b>	RS-485, RS-232
<b>Text insertion interface</b>	POS/ATM
<b>Supply voltage</b>	100VAC ~ 240VAC, 2/1A 60/50Hz
<b>Power consumption</b>	approx. 150watts
<b>Temperature range (Operation)</b>	+5°C ~ +40°C
<b>Housing</b>	Steel metal with plastic front, desktop design (no 19" rack mounting possible)
<b>Colour</b>	Pantone 427C
<b>Dimensions (HxWxD)</b>	88x430x355mm
<b>Weight</b>	9.6kg

(Specifications continued)

<b>Parts supplied</b>	Mains cable, Viewer CD ROM (RAS+), Screw set and flat cable for HDD assy, Manuals
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## Accessories

<b>71855 / HDD-160</b>	Hard Disk Drive 160GB for DLR/DXR/DTR and DCR Series
<b>71857 / HDD-250</b>	Hard Disk Drive 250GB for DLR/DXR/DTR/ DCR and BTR-30xx Series
<b>71919 / HDD-500</b>	Hard Disk Drive 500GB for DLR/DXR/DTR/ DCR and BTR-30xx Series
<b>74088 / EDC-KBD1</b>	System Keyboard with 3-axis Joystick, 12VDC/230VAC
<b>74092 / EDC-KBDM-3</b>	System Keyboard w. Joystick, 5" Monitor 12VDC/230VAC, Fastrax Protocol
<b>71960 / SE-S184M/EUBN</b>	CD Writer CD+/-RW, USB 2.0 Interface
<b>90392 / VMC-15LCD-P</b>	15" LCD Professional Colour Monitor, 1024 x 768, Comp., Y/C, RGB, 2Audio, 12VDC/230VAC
<b>90393 / VMC-17LCD-P</b>	17" LCD Professional Colour Monitor, 1280 x 1024, Comp., Y/C, RGB, 2Audio, 12VDC/230VAC
<b>90443 / VMC-17LCD-PP</b>	17" LCD Colour Monitor, 1280x1024 Pixels Comp., Y/C, RGB, 2x Audio, 12VDC/230VAC
<b>90430 / VMC-19LCD-P</b>	19" LCD Profession. Colour Monitor, 1280 x 1024 Px., Comp., Y/C, RGB, 12VDC/230VAC
<b>90467 / VMC-32LCD-PW</b>	32" Prof. 16:9 TFT Colour Monitor, 4x CVBS, Y/C, RGB, 2x Audio, 100-240VAC
<b>90476 / VMC-23LCD-PW1</b>	23" Prof. 16:9 LCD Colour Monitor, 4x CVBS, Y/C, RGB, 2x Audio, 24VDC/230VAC

## Product Information

The DLR2 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 DLR2 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. Hitachi hard disks that are designated as accessories are intended to be used for the purpose of expanding internal storage capacity. The 500GB Harddisk HDT725050VLAT80 may not be used in combination with other 500GB models from Hitachi or from other manufacturers.