

# Video Security

Recorders | eneo Digital Video Recorders

## DTR-4116/250CD

Digital Video Recorder (16-Channels)  
250GB HDD, CD-RW Drive, Ethernet, 230VAC

Art-No. 71980



## Features

MPEG-4 ASP Video Compression / Pentaplex Operation  
16 Loop-through Inputs / VGA, Comp./S-VHS Outputs  
2-way Audio / Alarm Inputs & Outputs  
Recording Speed: 200 Fields/Sec. max. (PAL)  
250Gbyte EIDE HDD (Extentable to 3 HDD's)  
Video Resolution 720x576 Pixels max.

SCSI Port for Archiving / Memory Extension  
Backup: Archiving and Mirroring  
ATM/POS Text Insertion / 2x to 4x Digital Zoom  
No Spot Monitor for Triplex Playback required  
PTZ Control and Remote Control through RS-485 Port  
Ethernet Connectivity / IR Remote Control

## Specifications

Operation mode	pentaplex
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
Monitor outputs	4x Spot 1Vp-p, (C)VBS, 75ohms, BNC
Spot monitor	CVBS
Audio inputs	4, 4x line-in, Cinch
Audio output	1x line-out, RCA socket
Alarm inputs	16x TTL, programmable as NC/NO
Activity detection	16x16 grid, Sensitivity levels: 5, Discrimination size: 192 levels
Alarm out	On system and disk fail
Alarm outputs	16x TTL, open collector (terminal block)
Alarm notification	E-Mail, Pager, Remote SW (RAS)
Alarm processing	Programmable automatic alarm multiscreens

(Specifications continued)

<b>Alarm reset input</b>	2~4 TTL (terminal block)
<b>Event Logs</b>	No limit for alarm-in, motion, video loss, text-in
<b>System logs</b>	Up to 5,000 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 ASP (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>	200HB/Sek.
<b>Recording speed</b>	200 Fields/sec. at CIF (336x272 Px. / PAL), 100 Fields/sec. at 2CIF (672x272 Px. / PAL)
<b>Digital storage media</b>	ATA-2 (EIDE) HDD's, Built-in CD-RW
<b>Max. harddisk capacity (internal)</b>	750GB, 250GByte ATA HDD (up to 3 internal HDD's)
<b>Harddisk capacity (internal)</b>	250GB
<b>Pre-alarm recording</b>	Up to 30min.
<b>Post-alarm recording</b>	Up to 15min.
<b>Playback</b>	1, 4-, 9-, 16-channel split, PIP
<b>Playback speed</b>	200 Fields/sec. at CIF (336x272 Px. / PAL) and duplex
<b>Monitor display</b>	Real time: 25 Fields/sec. (PAL), 30 Fields/sec. (NTSC) per camera
<b>Zoom function</b>	2x~4x
<b>Covert camera operation</b>	programmable
<b>Intergrated writer</b>	CD
<b>Archiving</b>	With EIDE, SCSI and USB HDD's. Real-time mirroring
<b>Secondary Storage</b>	via USB 2.0, SCSI Interface, or built-in CD-RW writer. Network Data Export: Clip Player, AVI, JPG, BMP
<b>Control units (external)</b>	system keyboard, mouse
<b>Remote control</b>	Wireless remote control enabled
<b>Remote access</b>	remote software
<b>Remote Software</b>	For remote administration and search function (RAS plus, supplied with the unit)
<b>Time synchronization</b>	Via Network time protocol. Operation as Network time server
<b>Menu languages</b>	German, English, Italian, French, Spanish, Polish, Russian, Czech, Hungarian
<b>Ethernet interface</b>	10Base-T/100-Base-TX, RJ-45
<b>Transmission rate (Network)</b>	100 Fields/sec. (CIF), 50 Fields/sec. (2CIF), PAL
<b>Interfaces external storage</b>	USB, SCSI, 3x USB 2.0
<b>Serial interfaces</b>	RS-485, RS-232, RS-485 for telemetry control (proved protocols: eneo-Fastrax, Pelco P/D) or remote keyboard control
<b>Text insertion interface</b>	ATM/POS, 10 chann. max.

## DTR-4116/250CD

(Specifications continued)

<b>Security</b>	Key lock, 64 user groups access rights programmable for each group (up to 256 user)
<b>Supply voltage</b>	100VAC~230VAC, 50/60Hz
<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
<b>Colour</b>	Pantone 427C
<b>Weight</b>	approx. 7.4kg
<b>Parts supplied</b>	IR Remote control unit, 19" Rack mount kit, Power supply unit 100~240VAC / 2A with Mains cable, Viewer CD ROM (RAS+), Screw set and flat cable for HDD assy, Manuals

## Accessories

<b>71919 / HDD-500</b>	Hard Disk Drive 500GB for DLR/DXR/DTR/ DCR and BTR-30xx Series
<b>71857 / HDD-250</b>	Hard Disk Drive 250GB 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>71902 / DVR-MOUSE</b>	USB Mouse for Recorder Series DTR (DXR), DPR and DLR3
<b>71970 / TS-H652D</b>	CD/DVD Writer DVD+R 48x/18x, CD/DVD ROM for Built-in DTR Series

## Product Information

The Eneo DTR-4100 series Pentaplex recorders feature a very efficient compression method (MPEG-4 ASP) and a high record and playback speed. 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 DTR-4000 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.

VIDEOR TECHNICAL E. Hartig GmbH  
Carl-Zeiss-Straße 8 · 63322 Rödermark · Germany  
Telefon +49 (0) 60 74/8 88-0 · Telefax +49 (0) 60 74/8 88-100  
info@videortechnical.com · www.videortechnical.com

