Video Security

Recorders | eneo Digital Video Recorders

DLR3-16N/660CD

Digital Video Recorder (16-Channels) 660GB HDD, CD-RW Drive, Ethernet,230VAC

Art-No. 71928





Features

Duplex Operation

MPEG-4 Video Compression

Recording / Playback Speed 100 Fields/Sec. max.

Video Resolution 720x576 Pixels max. (PAL)

16 Loop-through Inputs / VGA, Composite Outputs

Network Connectivity (10/100Base-T Ethernet)

Audio and Alarm Inputs / Outputs

Secondary Storage/Archiving via USB and CD-RW

Storage Capacity 660GByte (3 HDDs max.)

Live Picture & Playback Zoom (2x)

Integrated Motion Detector

PTZ Control and Remote Control through RS-485 Port

Specifications

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/660CD

(Specifications continued)

System logs	specifications continued)	
access, connects/disconnects and errors, disk read and write errors Max. recording resolution 672 x 272 (2IT) Resolution 720x576 Pixels (PAL/Display) MPEG4, MPEG4 (advanced compression engine provides smaller data size without significant picture quality distortion), Audios Gr.26, (ADPCM) Image size Low: 2/2.44kB, 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 ZCIF (672x272 Px. / PAL) Digital storage media ATA-2 (EIDE) HDD's, Built-in CD-RW Max. harddisk capacity (internal) Harddisk capacity (internal) Harddisk capacity (internal) 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 Secondary Storage Via USB (HDD's, CD-RW, Flash drive), IDE (CD-RW) via USB 2.0, Built-in CD-RW. Network Data Export: Clip Player, AVI, JPG, BMP Control units (external) system keyboard, mouse 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 Ehernet interface 108xe-Y/100-Base-TX, RA-45 Network protocols TCP/IP, ADSL, DHCP, DVRNS Transmission rate (Network) 100 Fields/sec. (CIF), 50 Fields/sec. (2CIF), PAL Interfaces external storage Serial interfaces Por remote exploard control (proved protocols: eneo-Fastrax, Pelco P/D) or remote keyboard control ene-Fastrax, Pelco P/D) or remote	Event Logs	No limit for alarm-in, motion, video loss, text-in
Resolution Compression standard MEGG, MPEGG (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), 50 Fields/sec at 2CIF (572x272 Px. / PAL), 50 Fields/sec at 2CIF (336x272 Px. / PAL), 50 Fields/sec (NTSC) per (3x Px. / PAL), 50 Fields/sec (PAL), 30 Fields/sec (NTSC) per (3x Px. / PAL), 50 Fields/sec (PAL), 30 Fields/sec (NTSC) per (3x Px. / PAL), 50 Fields/sec (PAL), 30 Fields/sec (PAL)	System logs	access, connects/disconnects and errors, disk read and
Compression standard MPEG4, MPEG4 (advanced compression engine provides smaller data size without significant picture quality distortion), Audio: 6.726. (APDEM) 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 2LIF (672x272 Px. / PAL). 50 Fields/sec (672x272 Px. / PAL	Max. recording resolution	672 x 272 (2CIF)
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 (EIDB) HDD's, Built-in CD-RW Max. harddisk capacity (internal) Harddisk capacity (internal) Harddisk capacity (internal) Fre-alarn recording Up to 30min. Pre-stalarn recording Up to 30min. Post-alarn 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 Intergrated writer CD Archiving US (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) Remote access remote software Remote control - Remote control - Remote control Via Network protocol. Time synchronization Via Network ime protocol. Operation as Network time server Menu languages German, English, Italian, French, Spanish, Polish, Russian, Czech, Hungarian Ethernet interface Network protocols TCP/IP, ADSL, DHCP, DVRNS Transmission rate (Network) 100 Fields/sec. (CIF), 50 Fields/sec. (2CIF), PAL Interfaces external storage 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 eneo-Fastrax, Pelco P/D) or remote keyb	Resolution	720x576 Pixels (PAL/Display)
high: 12/14.4kB (NTSC/PAL). 2x bigger at high resolution mode Max. recording rate Recording speed 100 Fields/sec. at CIF (336x272 Px. / PAL), 50 Fields/sec at 2CIF (672x272 Px. / PAL) Digital storage media Max. harddisk capacity (internal) Harddisk capacity (internal) Harddisk capacity (internal) Harddisk capacity (internal) 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 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) Remote control Remote control 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, DWRNS Transmission rate (Network) 10 Fields/sec. (CIF), 50 Fields/sec. (2CIF), PAL Interfaces external storage Serial interfaces RS-232, RS-485, RS-485 for telemetry control (proved protocols: eneo-Fastrax, Pelco P/D) or remote keyboard control. Seneo-Fastrax, Pelco P/D) or remote keyboard control. Seneo-Fastrax, Pelco P/D) or remote keyboard control.	Compression standard	smaller data size without significant picture quality
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) 660GB 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 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 Socondary Storage Control units (external) Remote control - Remote access Remote Software For remote administration and search function (RAS plus, supplied with the unit) Time synchronization Wan Network time protocol. Operation as Network time server Menu languages German, English, Italian, French, Spanish, Polish, Russian, Czech, Hungarian Ethernet interface Network protocols Transmission rate (Network) 100 Fields/sec. (CIF), 50 Fields/sec. (2CIF), PAL Interfaces RS-232, RS-485, RS-485 for telemetry control (proved protocols: eneo-Fastrax, Pelco P/D) or remote keyboard control. Recolar control, RS-485 for telemetry control (proved protocols: eneo-Fastrax, Pelco P/D) or remote keyboard control.	Image size	high: 12/14.4kB (NTSC/PAL). 2x bigger at high resolution
at 2CIF (672x272 Px. / PAL) Digital storage media ATA-2 (EIDE) HDD's, Built-in CD-RW Max. harddisk capacity (internal) 660GB Pre-alarm recording Up to 30min. Post-alarm recording 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 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) Remote control - Remote access 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 Menu languages German, English, Italian, French, Spanish, Polish, Russian, Czech, Hungarian Ethernet interface Metwork protocols TCP/IP, ADSL, DHCP, DVRNS Transmission rate (Network) 100 Fields/sec. (CIF), 50 Fields/sec. (2CIF), PAL Interfaces external storage 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.	Max. recording rate	100HB/Sek.
Max. harddisk capacity (internal) 1500GB, 660GByte ATA-2 HDD's (3 internal HDD's max.) Harddisk capacity (internal) 660GB Pre-alarm recording Up to 30min. 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 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 2.0 Serial interfaces RS-232, RS-485, for telemetry control (proved protocols: eneo-Fastra	Recording speed	, , , , , , , , , , , , , , , , , , , ,
Harddisk capacity (internal) 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 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 system keyboard, mouse Remote control - Remote access Remote Software For 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 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 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.	Digital storage media	ATA-2 (EIDE) HDD's, Built-in CD-RW
Pre-alarm recording Post-alarm recording Post-alarm recording 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 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 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 Network protocols TCP/IP, ADSL, DHCP, DVRNS Transmission rate (Network) Interfaces external storage Serial interfaces RS-232, RS-485, RS-485 for telemetry control (proved protocols: eneo-Fastrax, Pelco P/D) or remote keyboard control server.	Max. harddisk capacity (internal)	1500GB, 660GByte ATA-2 HDD's (3 internal HDD's max.)
Post-alarm recording 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 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 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 Network protocols TCP/IP, ADSL, DHCP, DVRNS Transmission rate (Network) Interfaces external storage 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, RS-485 for telemetry control (proved protocols: eneo-Fastrax, Pelco P/D) or remote keyboard control.	Harddisk capacity (internal)	660GB
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) pe 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 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 TCP/IP, ADSL, DHCP, DVRNS Transmission rate (Network) 100 Fields/sec. (CIF), 50 Fields/sec. (2CIF), PAL Interfaces external storage USB, 2x USB 2.0 Serial interfaces 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, 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, 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.	Pre-alarm recording	Up to 30min.
Playback speed 25 Fields/sec. at CIF (336x272 Px. / PAL) Monitor display Real time: 25 Fields/sec. (PAL), 30 Fields/sec. (NTSC) pe camera Zoom function 2x Covert camera operation 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 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 Serial interfaces RS-232, 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, 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, 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 (proved protocols: eneo-Fastrax, Pelco P/D) or remote keyboard control (proved protocols: eneo-Fastrax, Pelco P/D) or remote keyboard control (proved protocols: eneo-Fastrax, Pelco P/D) or remote keyboard control (proved protocols: eneo-Fastrax, Pelco P/D) or remote keyboard control (proved protocols: eneo-Fastrax, Pelco P/D) or remote keyboard control (proved protocols: eneo-Fastrax, Pelco P/D) or remote keyboard control (proved protocols: eneo-Fastrax, Pelco P/D) or remote keyboa	Post-alarm recording	Up to 15min.
Real time: 25 Fields/sec. (PAL), 30 Fields/sec. (NTSC) pe camera Zoom function 2x Covert camera operation 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 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 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, 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, 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, RS-485 for telemetry control (proved protocols: eneo-Fastrax, Pelco P/D) or remote keyboard control.	Playback	1, 4-, 9-, 16-channel Split, PIP
Zoom function Zx Covert camera operation 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 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 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	Playback speed	25 Fields/sec. at CIF (336x272 Px. / PAL)
Covert camera operation Intergrated writer CD 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 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 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, 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, 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	Monitor display	
Intergrated writer 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) Remote control Remote access 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 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	Zoom function	2x
Archiving USB (HDD's, CD-RW, Flash drive), IDE (CD-RW) Via USB 2.0, Built-in CD-RW. Network Data Export: Clip Player, AVI, JPG, BMP Control units (external) Remote control Remote access 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 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	Covert camera operation	programmable
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 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 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, 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, 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	Intergrated writer	CD
Player, AVI, JPG, BMP System keyboard, mouse Remote control Remote access 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 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	Archiving	USB (HDD's, CD-RW, Flash drive), IDE (CD-RW)
Remote access 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 2.0 Serial interfaces RS-232, 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	Secondary Storage	· · · · · · · · · · · · · · · · · · ·
Remote accessremote softwareRemote SoftwareFor remote administration and search function (RAS plus, supplied with the unit)Time synchronizationVia Network time protocol. Operation as Network time serverMenu languagesGerman, English, Italian, French, Spanish, Polish, Russian, Czech, HungarianEthernet interface10Base-T/100-Base-TX, RJ-45Network protocolsTCP/IP, ADSL, DHCP, DVRNSTransmission rate (Network)100 Fields/sec. (CIF), 50 Fields/sec. (2CIF), PALInterfaces external storageUSB, 2x USB 2.0Serial interfacesRS-232, 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	Control units (external)	system keyboard, mouse
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 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	Remote control	-
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 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	Remote access	remote software
Menu languagesGerman, English, Italian, French, Spanish, Polish, Russian, Czech, HungarianEthernet interface10Base-T/100-Base-TX, RJ-45Network protocolsTCP/IP, ADSL, DHCP, DVRNSTransmission rate (Network)100 Fields/sec. (CIF), 50 Fields/sec. (2CIF), PALInterfaces external storageUSB, 2x USB 2.0Serial interfacesRS-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	Remote Software	
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 2.0 Serial interfaces RS-232, 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	Time synchronization	·
Network protocols TCP/IP, ADSL, DHCP, DVRNS 100 Fields/sec. (CIF), 50 Fields/sec. (2CIF), PAL Interfaces external storage USB, 2x USB 2.0 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	Menu languages	· · · · · · · · · · · · · · · · · · ·
Transmission rate (Network) 100 Fields/sec. (CIF), 50 Fields/sec. (2CIF), PAL USB, 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	Ethernet interface	10Base-T/100-Base-TX, RJ-45
Interfaces external storage USB, 2x USB 2.0 RS-232, 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	Network protocols	TCP/IP, ADSL, DHCP, DVRNS
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	Transmission rate (Network)	100 Fields/sec. (CIF), 50 Fields/sec. (2CIF), PAL
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	Interfaces external storage	USB, 2x USB 2.0
Text insertion interface ATM/POS	Serial interfaces	protocols: eneo-Fastrax, Pelco P/D) or remote keyboard control, RS-485 for telemetry control (proved protocols:
	Text insertion interface	ATM/POS

DLR3-16N/660CD

(Specifications continued)

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

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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