Product Information

DVrec0/40/80

Digital Video Recorder for Permanent or Alarm Recording

Product Data

- digital VCR
- 720 x 576 pixels resolution
- realtime 50 fps
- combination with different multiplexers possible
- space for three internal hard disks (1 in removable frame)

Description

The DVrec replaces the classical long time recorder and can perfectly co-operate with already existing video systems. It harmonises with nearly all types of multiplexers - making it possible to use already present central technology. Advantages of the DVrec over classic time lapse recording are its significantly higher resolution, its significantly longer recording length and the lower time and money spent for maintenance.

The DVrec is either available without hard disk (DVrec/0) or with 40 (DVrec/40) respectively 80 (DVrec/80) GB hard disk. The digital pictures are recorded to hard disk with the M-JPEG compression method. One main advantage of this recorder is that it allows to record with virtually no wear and tear making expensive maintenance obsolete. Furthermore, its resolution of 720 x 576 pixels is a huge improvement as opposed to classical recording.

The DVrec comes with one video input (FBAS/Y/C). In combination with videotronic infosystems' multiplexers it is possible to record up to 9 respectively 16 different cameras. It is also possible to integrate the DVrec into already existing systems with other multiplexers.

Recording can be carried out in three different qualities (compression levels) with up to 50 fps. This makes a realtime recording of up to 22 hours (80 GB / standard mode) possible. Different recording intervals also allow for a time lapse recording of up to 7040 hours (80 GB / standard mode).

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An integrated alarm management allows event triggered recording. A direct recording without time delay can be effected via an external alarm contact. This reliably guarantees that the decisive, alarm-triggering event gets recorded. It is also possible to additionally record the pre-alarm phase for the corresponding alarm.

Pictures can be recorded to up to 3 hard disks. One of these can be housed in a removable frame. This can be removed - even during operation - e.g. for archiving. A display warns the user in time before the max. hard disk capacity is exceeded.

The DVrec has extensive functionality for replay. Relevant recorded sequences are found by simply entering time/date, by alarm events or via the recording list. Picture replay can be carried out with normal or fast speed. It is also possible to display individual frames. Sequences and pictures can be exported via the internal 1.44 Mb floppy disk drive to standard floppy disks.

All settings are carried out via on-screen menus. An internal timer allows for extensive time management. An RS232 interface can be used for external recorder control. It goes without saying that a password protects the system against unauthorised access.

The integrated TCP/IP network interface allows to operate the DVrec in an IP network. "Live" images can be viewed with a software which is included in the scope of delivery. It is also possible to evaluate recorded pictures with the software. One can search for the desired recorded sequences by time/date and alarm sequence.
Equipped in such a way the DVrec is more than just a simple replacement for analogue time lapse recorders. Higher capacity, higher resolution and that extra functionality are the decisive advantages when working with this security system.

But it's not only the specifications which are impressive. The DVrec system can also impress where maintenance is concerned. The DVrec works with hard disks with virtually no wear at all as opposed to classic time lapse recorders which require maintenance on a regular basis in short intervals. Thus the DVrec can guarantee high operation reliability without high subsequent costs.

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Recording with 40 GB hard disk (PAL)

TL recording mode (hours)	2	6	12	24	48	96	168	480	720	960
Recording time (hours) in										
High mode	7	14	28	56	112	224	392	1120	1680	2240
Standard mode	11	22	44	88	176	352	616	1760	2720	3520
Basic mode	14	28	56	112	224	448	784	2240	3360	4480
Refresh rate (fps)	50	25	12.5	6.25	3.13	1.56	0.89	0.31	0.21	0.16
Recording interval (1/50 second)	1x	2x	4x	8x	16x	32x	56x	160x	240x	320x

Recording with 80 GB hard disk (PAL)

TL recording mode (hours)	2	6	12	24	48	96	168	480	720	960
recording time (hours) in										
High mode	14	28	56	112	224	448	784	2240	3369	4480
Standard mode	22	44	88	176	352	704	1124	3520	5440	7040
Basic mode	28	56	112	224	448	896	1568	4480	6720	8960
Refresh rate (fps)	50	25	12.5	6.25	3.13	1.56	0.89	0.31	0.21	0.16
Recording interval (1/50 second)	1x	2x	4x	8x	16x	32x	56x	160x	240x	320x

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Suitable hard disks

Manufacturer	Type	Capacity
Maxtor	Diamond	80 / 60 / 40 GB
IBM	DTLA-305040	40 GB
Quantum	Fireball Lct	20 GB
Quantum	Fireball PlusLM	20 GB
Seagate	ST330621A1P	20 GB
Western Digital	WD800	80 GB

Please note: Hard disks types and sizes are constantly changing. An up-to-date hard disk list can be requested from videotronic infosystems (Technical Department / Hotline).

Technical Specifications

	DVrec/0	DVrec/40	DVrec/80
Resolution	720 x 576 pixels		
Video Input	1 x BNC / 1 x S-Video (Y/C)		
Video Output	1 x BNC / 1 x S-Video (Y/C)		
Hard Disk (included in the scope of delivery)	no HD included (A hard disk is required for operation!)	40Gbyte HD (included)	80GByte HD (included)
	extendable up to 3 IDE Hard Disks (One mobile Rack)		
Image Format	M-JPEG		
Critical Image Archiving	1,44 MB FDD		
Recording Rate	up to 50 fields / sec.		
Image Compression	32 kb (High), 21 kb (Standard), 16 kb (Basis)		
Recording Mode	Schedule, Manual, Alarm, Circular		
Pre-Alarm Recording	Yes		
Playback Speeds	Fast Forward / Reversse, Slow Forward / Reserve, Picture by picture Playback		
Access to Recording	FLL List Search, Time Search, Event Search		
Title	16 Characters		
On Screen Display and Setup	Title / Time / Date / Setup Menu		
Alarm Input / Alarm Output	1 x NO or NC Contact programmable		
Full-Disk Alarm Output	Yes		
Trigger Output	Yes (1)		
Operation History Log	Up to 2048 events		
Key Lock	Yes		
RS232 port	Yes		
Software Upgradeable	Yes		
Password Control	Yes		
Scanning System	(F)BAS 1Vpp / 625 lines / PAL		
Operating Voltage	100-240 V AC, 50 Hz		
Dimensions (W x H x D)	430 x 90 x 374 mm		
Operating Temperature	5° - 50° C		
EMI	Acc. to EN50081-1, EN55011 classB		
EMC	Acc. to EN50082-2, EN50204, EN61000-4-2,-3,-4,-6q		
Safety	Acc. to EN60950, EN60065		

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