

Product Information

CCTVrec/4



High Resolution 4 Channel Digital Recorder for Permanent- or Alarm Recording with up to 25 fps incl. Audio and Quad Screen Function

Product Data

- 4 (F)BAS video inputs
- 2 (F)BAS video outputs
- 704 x 288 pixels resolution
- up to 25 frames per second (even with unsynchronised cameras)
- motion-controlled recording
- quad screen display
- alarm-controlled recording incl. pre-alarm phase
- different hard disk sizes (removable hard disks)



Description

Video image recording for up to 4 cameras with very good image quality and speed for an excellent price - that's the CCTVrec system.

The CCTVrec system is a very fast, flexible and high resolution 4 channel digital recorder that offers very good value for money.

The CCTVrec system comes with 4 (F)BAS video inputs and allows the connection of analogue video cameras. The 2 (F)BAS video outputs can be used to view live video images as full size or quad image and to replay recorded sequences. Thus the CCTVrec system provides a complete central technology. In small CCTV solutions it is for instance possible to switch - via an (optional) PC keyboard (PS2) - live video images or to display quad screen view. Parallel to this the system records all data with good image quality.

Video images can be recorded with a very high resolution of 704 x 288 pixels at the high speed of up to 25 frames per second (real-time). This speed can be divided between the four video inputs. This makes it possible to record e.g. all 4 connected cameras in parallel with 6 frames per second. A highlight of the CCTVrec is that this high speed can even be achieved when recording unsynchronised cameras.

Data is stored on a removable hard disk in the JPEG compression method. Optional hard disks with different capacities (20, 40 and 60 GB) are available.

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An integrated alarm processing allows event-controlled recording. 2 external alarm contacts can be used for direct recording without time delay. This ensures that the decisive, alarm-triggering moment gets documented. It is also possible to additionally record a pre-alarm phase for the corresponding alarm. Furthermore included is an output relay.

The included motion detection function allows a targeted recording of image information in case of movements in the video image. This requires on the one hand less storage capacity and on the other hand allows to find important image sequences even faster. The motion detector with adjustable field size and position has 10 sensitivity levels.

In addition to video image recording the system is also equipped with an integrated, parallel audio recording. Recording of audio data can be carried out parallel to the permanent video recording (not possible in motion detection operation) via an audio input.

The CCTVrec has extensive functionality for recording as well as for replay. Finding relevant recording sequences is made very easy by simply entering time/date and via the recording list. Replay itself can be carried out with normal speed or with fast search speed. Naturally it is also possible to display each individual image.

Archiving respectively export of relevant individual images can be carried out via a serial RS232 interface at the device front. This interface is also used for comfortably configuring the system via clearly arranged on-screen menus.

An additional option is the USB-Kit. It allows to completely evaluate a hard disk removed from the system at the PC or to archive all data, e.g. via a DVD/CD-ROM writer installed in the PC. With the USB-Kit it is possible to export complete sequences.

The system can also be operated with 12 VDC, allowing non-network-based applications (detective agency). With the power supply unit included in the scope of delivery the CCTVrec system can be operated at the 230 V supply voltage.

A camera text with up to 20 characters for each camera and the password protection (5 levels / multi-user principle) round off the large scope of functions of the CCTVrec.

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The very small and robust housing that secures the removable hard disk with a key switch can be housed nearly everywhere. Integrated electronics as well as the reliable operating system PSOS are up-to-date and correspond to the latest standards. The modern housing design underlines the well thought-out functionality of the device.

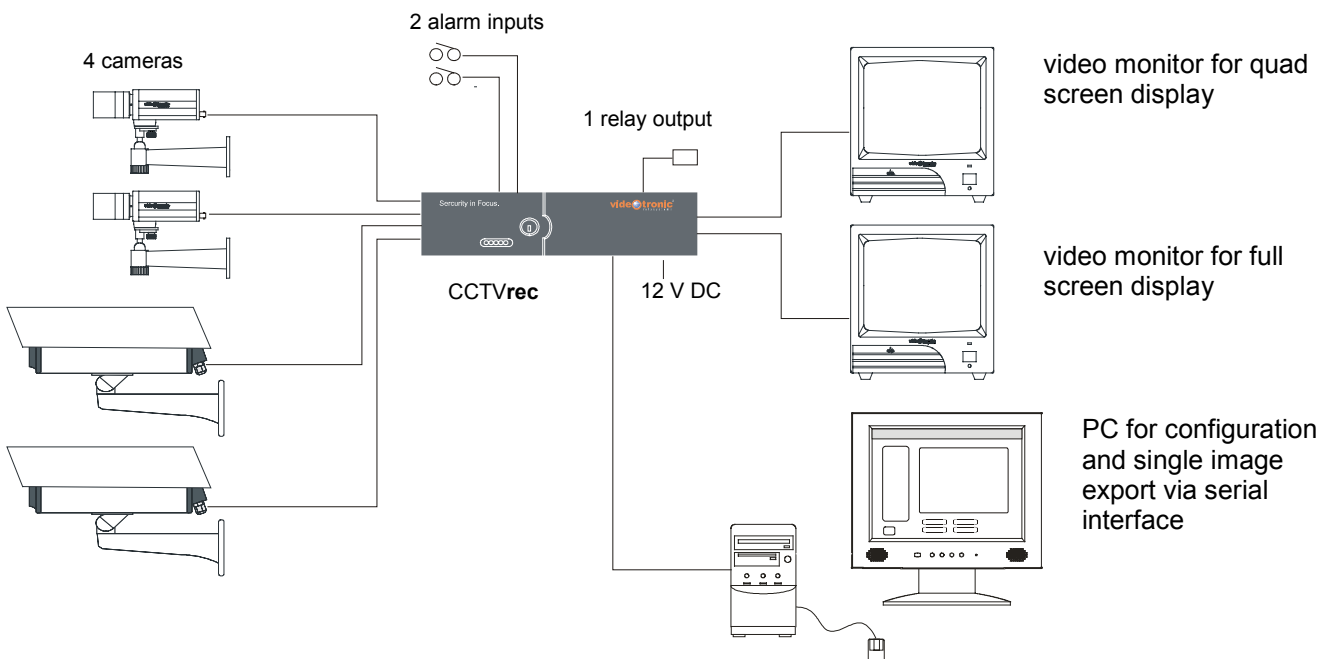
Equipped in such a way the CCTVrec system is more than just a replacement for analogue time lapse recorders. The larger capacity, higher resolution and depth of colour as well as the plus in functionality are of decisive advantage - and all this at excellent value for money.

Recording lengths (example)

Recording of one camera to 60 GB hard disk without motion detection

Image refresh rate (frames per second)	25	12.5	10	8.3	7.14	6.25	5	4.16	3.25	2	1
Recording length (hours) with											
highest resolution	10.3	20.5	25.6	30.9	35.9	41	51.3	61.6	78.9	128.2	256.4
standard resolution	19	38.1	47.6	57.4	66.7	76.2	95.2	114.5	146.5	238.1	476.2
min. resolution	83.3	166.7	208.3	251	291.8	333.3	416.7	500.8	641	1041.7	2083.3

System drawing



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Technical Specifications

	CCTVrec
Resolution	704 x 288 pixels
Video input	4 x BNC (F)BAS
Audio input	1 x 1 channel (quality levels 8 kHz, 11kHz, 22 kHz)
Video output	2 x BNC (F)BAS
Recording media	on 2.5" removable hard disk in special frame optionally available: 20 GB, 40 GB and 60 GB hard disks
Recording format	JPEG
Recording speed	up to 25 frames per second; also possible: 4 x 6 frames per second with unsynchronised cameras. Levels: 25; 12.5; 10; 8.3; 7.14; 6.25; 5; 4.16; 3.25; 2; 1 frames per second
Compression rate	64 kb (high) up to 8 kb (basic) in steps of 1 kb
Recording mode	alarm, ring
Motion detection	yes (motion detector with adjustable field size and position; 10 sensitivity levels)
Pre-alarm recording	yes (adjustable time)
Replay speed	fast forward and rewind, slow forward and rewind, image for image replay
Image search	complete recording list, time, alarm selection via optional common computer PS-2 keyboard
Archiving of decisive images	via serial RS232 connection to a PC, .jpg format
Operational status display	yes (via LED, blue = operating voltage, yellow = video signal loss, green = camera covered, red = system failure)
Text display	in quad mode 20 characters per camera
Alarm input / alarm output	2 inputs (make / break) / 1 relay output
Full disk report	yes
Switching the device on	via key switch
Switching the device off	via key switch or via external switch contact with adjustable after- running time (sabotage)
RS232 interface	yes for system configuration and export of single images
Password	yes (5 levels / multi-user principle)
Scanning system	(F)BAS 1 Vpp / 625 lines / PAL
Power supply / Consumption	12 VDC / 25 W
Dimensions (W x H x D)	205 x 40 x 175 mm
Weight	approximately 1 kg, depending on the hard disk
Temperature	0° to +60° C
EMI	acc. to EN50081-1, EN55011 class B
EMC	acc. to EN50082-2, EN50204, EN61000-4-2,-3,-4,-6
Safety	acc. to EN60950, EN60065
Scope of delivery	CCTVrec, power supply unit 230 VAC / 12 VDC, null modem cable, mounting and operating instructions, CD-ROM incl. configuration- and evaluation software
Options	CCTVrec/USB-Kit = external USB Reader for reading out image- and audio information via standard PC with USB interface. Data export in .mrd format (individual format, can only be stored via USB-Kit and CCTVrec software) CCTVrec/20GB = 20 GB hard disk 2.5" CCTVrec/40GB = 40 GB hard disk 2.5" CCTVrec/60GB = 60 GB hard disk 2.5"

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Errors and omissions excepted.

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