

MultiScope II plus

far more than digital video recording



- Up to 32 camera inputs per unit
- Reliable activity detection for recording control
- Comprehensive alarm management with automatic alarm picture presentation, locally and networked
- Centralised picture evaluation and system setup
- Flexible serial and TCP/IP interfaces

Technical data	
Video	
Video standard	Studio quality (scanning rate 13.5 MHz), CCIR / PAL, EIA / NTSC
Resolution	704 (H) x 288 (V) Pixels (interlaced display); 704 (H) x 576 (V) Pixels (non-interlaced), 352 (H) x 288 (V) Pixels (CIF); 176 (H) x 144 (V) Pixels (QCIF), 8 Bit luminance, 8 Bit chrominance
Compression	M-JPEG, compression adjustable in 13 levels and 4 picture formats (non-interlaced, interlaced, CIF, QCIF) per camera input and event
Inputs	8, 16 or 32 x FBAS (BNC sockets), 1 Vpp / 75 Ohm or 4, 8 or 16 x S-video (2 BNC sockets for each input), Y = 1 Vpp / 75 Ohm, C = 0.3 Vpp / 75 Ohm
Outputs	
For recorded and quasi-live pictures	1x VGA output
Live video (option)	3x FBAS (BNC sockets) including text insertion, 1 Vpp 75 Ohm
Storage media	
General	Generally no restriction to storage capacity
Direct recording internally	Up to 4 (E) IDE hard disks
externally	Up to 15 SCSI hard disks by using SCSI-U2W controller, RAID systems on request
Interfaces	
Serial	2x RS-232, expandable to 4x RS-232 by additional plug-in card: For camera remote control and/or Connection to ATMs, access control systems, cash desk systems etc. with MULTICOM software option
Parallel	1x Centronics.
ISDN	S0 interface, additional plug-in card or router required
Ethernet, TokenRing etc.	Optionally via additional plug-in board
Alarm inputs	8, 16 or 32 control inputs, with tampering monitoring facility in compliance with VdS 2194 and VdS 2252
Control outputs	3x relay outputs; 24 VDC, 1 A
General	
Power supply	100-240 VAC / 60 - 50 Hz \pm 10%
Power draw	From 50 W to 200 W depending on individual system configuration
Mains input	Cold appliance plug
Temperature range	+5 °C to +40 °C
Dimensions	
19 inch built-in unit	4 HU x 437 mm (depth)
Desktop unit in mm	450 x 185 x 437 (W x H x L)
Weight	12.2 kg (basic unit)
Recording	
Speed	Up to 50 pictures/sec. (interlaced, CIF, QCIF) or up to 25 pictures/sec (non-interlaced) using one or several synchronized cameras (main synchronization sufficient); On average 33 pictures/sec. Min. 25 pictures/sec (interlaced, CIF, QCIF) or correspondingly less for non-interlaced pictures with several non-synchronized cameras.
Permanent	Adjustable time interval from picture to picture per camera
Event	Event-controlled recording of individual cameras or camera groups with adjustable time interval from picture to picture, Event = Alarm contact, serial command, activity detection
Acknowledgement	Optionally automatic (adjustable timer or adjustable number of pictures) or dependent on activity detection or status of alarm contact.
Playback	
Modes	Single picture, film, fast forward/backward, pause (frozen picture)
Speed	Adjustable time interval from picture to picture
Picture retrieval	Via date, time, camera number, recording activation type, MOS (motion detection picture retrieval) or further criteria definable via serial link such as ATM transaction data, access card reader data etc.
Picture formats	Full screen and multi-screen display in 1, 4, 9, 16, 25 or 36 windows possible
Automatic display	Event-controlled display of alarm pictures locally under MULTIVIEW/Win and via network including ISDN (alarm picture, playback from alarm picture, live picture), alarm pictures including history (repetitive)
Backup	
Backup	Long-term picture archiving on data media (tape, CDR, DVD etc.)
Playback	Locally on MULTISCOPE II, Any Windows-based workstation PC with picture review software MULTIVIEW / Win
Further functions	
Sync signal-monitoring	Sync signal loss can trigger a user-definable event, e.g. recording of a neighbouring camera, relay switching etc.
Camera signal-monitoring	Sync signal loss can trigger a user-definable event, e.g. recording of a neighbouring camera, relay switching etc.
CamCheck reference picture function	For checking camera angle and picture quality
User profile	Multilevel password system with 4-eye option and user-dependent environment
Optional functions	
Web server	Browser access (Netscape, Internet Explorer) also via Internet depending on link
Camera remote control	Remote control of swivel-tilt cameras and dome camera systems (with Uni Link)
Alarm management of analogue video outputs	Cyclic and event-dependent display of the live picture of alarm cameras or of alarm cycles
Activity detection	Automatic motion detection and video signal monitoring for 4, 8, 16 or 32 cameras
H.320 live picture transmission	Transmission of live pictures in H.320 standard to normal H.320 receiver or picture telephone
Time management with calendar function	Time unit-dependent activation of permanent or event recording
Mail transmission	Transmission of messages via mail services
Serial event client	Transfer of parameterizable event messages to one of the serial interfaces (external device link, log printer).
CPA	Camera position authentication
MultiDial	Automatic alarm pictures presentations cross network
MultiCom	Serial communication link option

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Technical alterations reserved

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