GEUTEBRŪCK

MSC3/2x4

Digital high-speed video alarm management system brought to perfection

The high-speed versions of the MultiScope III, with a recording rate of up to 50 half images/s, were developed for particularly demanding recording tasks. All functions are proven and tested in every detail, offering you convenient video technology – with continuously high image quality and fast, reliable access to images or image sequences. The MultiScope III can, moreover, be extended by a large number of additional elements, giving you access to the total system that is perfect for you.

- The approved MultiScope III with 8 video inputs and doubled recording rate (max. 100 fps)

- Particulary suitable for event recording with a high picture rate

- For stand-alone use or in conjunction with a centralised video server

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 display), 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 12 levels and 4 picture formats (non-interlaced, interlaced, CIF, QCIF) per camera input and event
Inputs	8 x composite (BNC-sockets), 1 Vpp / 75 Ohm
Outputs: for recorded pictures for live video	1 x SVGA-output (1024 x 768 , 16.7 million colors / quasi live and recorded pictures) 1 x composite (BNC-socket), 1 Vpp / 75 Ohm, automatic video switching via alarm management license

Storage media	
General	Storage capacity limited to max. 7,61 TB (recommended)
Direct recording: Internally Externally	Max. 4 x S-ATA hard disks (MSC3/2x4) Optional SCSI interface with up to 15 hard disks (U2W-SCSI controller needed), Raid systems available on request (e.g. GeViRAID II)
Data backup: Internally Externally	DDS4, CDR, DVD Via USB-ports, network link or optional SCSI interface

Interfaces	
Serial	1 x RS-232, expandable by 4 x RS-232 via additional plug-in card (usable for camera remote control and/or connection to ATMs, access control systems, cashier systems, etc. using MultiCom)
Parallel	1 x Centronics
USB	Up to 8 x USB 2.0 interfaces, 2 at front side, 6 rear side
Storage media	Basic unit S-ATA (internal), optional SCSI via additional plug-in card (external)
ISDN	S0 interface, additional plug-in card or ISDN router required
Ethernet	10/100/1000 Base T, included in basic unit
Alarm inputs	8 control inputs (active low)
Control outputs	3 x relay outputs; 24 VDC, 1 A
PC keyboard, mouse	PS/2 connections at rear side of unit

General	
Power supply	100-240 VAC / 60-50 Hz ± 10%
Power draw	From 50 W up to 200 W depending on individual system configuration
Mains input	Appliance plug (IEC-320 Inlet)
Temperature range	+5 °C to + 40 °C
Dimensions: 19 „ built-in unit Desktop unit in mm	4 HU x 437 mm (depth) 450 x 185 x 437 (W x H x D)
Weight	12.2 kg (basic unit)

Recording	
Speed	Up to 100 (2x50) pictures/s (interlaced, CIF, QCIF) or up to 50 (2x25) pictures/s (non-interlaced), using one or several synchronized cameras (mains synchronization sufficient); on average 66 pictures/s but min. 50 pictures/s (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, TCP/IP command
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), time sychronized channels (patented)
Speed	Adjustable time interval from picture to picture per camera
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, barcodes, number plate 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 incl. ISDN (MultiDial) (alarm picture, playback from alarm picture, live picture, playback incl. prealarm sequence)

Backup (manual)	
Backup	Long-term picture archiving on data media (tape, CDR, DVD etc.) - if applicable; various picture sequences can be selected via filters (camera number, recording event, date/time from - to...)
Playback	Locally on MultiScope III with corresponding drive. At any workstation PC with picture review software MultiView/Win with corresponding drive; playback compatible with Windows NT, Windows2000

Further functions	
Sync signal monitoring	Camera failure 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 (manual)
User profile	Multilevel password system with 4-eye option and user-dependent environment
Time management with calendar function	Time schedule dependent activation of permanent or event recording
Camera remote control	Remote control of PTZ cameras and dome camera systems
Activity detection	Automatic motion detection and video signal monitoring for 4 cameras already included
Web server	Browser access (Netscape, Internet Explorer) also via Internet depending on link
Mail transmission	Transmission of messages via mail services with enclosed alarm picture
Serial event client	Transfer of parameterizable event messages to one of the serial interfaces (external device link, log printer)

Optional functions	
Activity detection	Automatic motion detection and video signal monitoring for 8 cameras can be licenced
Alarm management for analogue video outputs	Cyclic and event-dependent display of the live picture of alarm cameras or of alarm cycles
Automatic backup	Automatic recording on various data media with criteria such as camera, events, ring memory, etc.
CPA	Camera position authentification
MultiDial	Automatic alarm pictures presentations cross network
MultiCom	Serial communication link option
Link to ANPR system	Interconnection to ANPR system for the insertion of number plate information into recorded pictures
Order No.	**0.37404**

Technical alterations reserved.

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