

## MultiScope II plus 2x4

MultiScope II with doubled recording rate



- High picture recording rate (max. 100 fps) for demanding applications, e.g. casinos, cash handling etc.
- 8 camera inputs
- For stand-alone use or in conjunction with a central video server

Technical data	
<b>Technical specification</b>	<b>MultiScope II/2x4</b>
<b>Video</b>	
Video standard	Studio quality (sampling rate 13.5 MHz), CCIR/PAL, EIA/NTSC
Resolution	CCIR: 704 (H) x 576 (V) pixel (frame), 704 (H) x 288 (V) pixel (field), 352 (H) x 288 (V) pixel (CIF), 176 (H) x 144 (V) pixel (QCIF). EIA: 704 (H) x 480 (V) pixel (frame), 704 (H) x 240 (V) pixel (field), 352 (H) x 240 (V) pixel (CIF), 176 (H) x 120 (V) pixel (QCIF). 8 bit luminance, 8 bit chrominance
Compression	M-JPEG, in 13 compression steps and 4 picture formats (frame, field, CIF, QCIF) adjustable per camera input
Inputs	8 x composite (BNC-sockets), 1 Vpp/75Ω
Recorded picture output	1 x SVGA-output; (1024 x 768 x True Colour)
<b>Storage media</b>	
Internal, direct recording:	Up to 4 (E)IDE-hard disks
External, direct recording:	Optional SCSI-interface with up to 15 hard disks Raid systems available on request
<b>Interfaces</b>	
Serial	1 x RS-232, expandable using additional 4 x RS-232 port plug-in card (for remote camera control and / or connection of ATM, access control, cash register systems, etc. requires optional software MSC2/KF or MultiCom respectively)
Parallel	1 x Centronics (for printer etc.)
ISDN	S <sub>0</sub> -interface, via optional plug-in card or external Router
Ethernet	10/100 Base T, included with basic unit
Alarm inputs	8 control inputs, (active-low, with optional sabotage monitoring)
Control outputs	3 x volt-free, changeover relay outputs; 24 VDC/1A
PC keyboard, mouse	PS/2 connections
<b>General</b>	
Power supply	110-230 VAC/60 - 50 Hz ±10%
Power consumption	Max. 200 W depending on hardware configuration
Mains input	IEC-320 Inlet
Operating Temperature range	+ 5°C to + 40°C
Dimensions	
with rack mounting kit:	19" x 4U x 437 mm (w x h x d)
desktop unit:	450 x 185 x 437 mm (w x h x d)
Weight	12.2 kg
<b>Recording</b>	
Picture rate (PAL)	Up to 100 pictures/sec (field, CIF, QCIF) or up to 50 pictures/sec (frame) (single or multiple synchronized/line-locked cameras); typically 33 pictures/sec min. 25 pictures/sec (fields, CIF, QCIF), 16/12 pictures/sec (frames)(multiple, unsynchronised cameras)
Permanent recording	Individually adjustable picture rate, picture format and compression level per camera.
Event recording	Individually adjustable picture rate, picture format and compression level per camera, per event with optional pre-history.
Event trigger source	Integrated user configurable control inputs, and video sync. fail, optional AD 4 areas per camera, video contrast monitoring, optional serial command using MultiCom
Event reset	Automatic (adjustable time number of pictures) or depending using alternative trigger source as above
<b>Playback</b>	
Modes of operation	Single picture forward/backward, play forward/backward, adjustable fast play forward/backward, pause (still image), next event/previous event, first picture/last picture
Image search	Camera number, date/time, event source, MOS (motion search) or by serial event data, etc.
Picture display formats	Full screen and 4, 9, 16, 25 or 36 SVGA monitor only
Alarm/Event playback	Event controlled automatic display of alarm images via MultiView viewer client software locally and/or via network incl. ISDN (with MultiDial option) (user definable display modes per event; alarm still picture, playback from alarm event, virtual-live image, prehistory loop playback)
<b>Manual Backup</b>	
Picture archiving and playback	User selectable picture sequences from any MultiScope II can be saved and played back either locally on MultiScope II or on any MultiView workstation PC fitted with standard removable media drives (e.g. diskette, tape, CDR, DVD, etc.)
<b>Other functions</b>	
Sync. signal monitoring	Every video input is monitored automatically for sync. signal. This is available as an event trigger source and may be configured to e.g. record an adjacent camera operate a relay etc.
Cam Check - image reference function	A „snapshot“ of each camera picture can be saved in a separate camera-check file, for regular manual comparison with the current image in order to check for e.g. reduction in picture quality, camera movement etc.
User profiles	Multi-level password system with dual log-in option and user-dependent control panel facilities
<b>Optional functions</b>	
Web server	Web browser access to MultiScope picture database via LAN, WAN, Internet etc.
MSC2/WEB	
Camera remote control	Remote control of GEUTEBRÜCK and 3 <sup>rd</sup> party p/t/z camera and dome systems
MSC2/KF	
Activity Detection	Integrated motion recognition and video contrast monitoring for 4, 8, 16 or 32 cameras
MSC2/AD-4/8/16/32	
Automatic backup	Automated backup of specific groups of pictures to nominated drive e.g. removable tape media
MSC2/BC	
Time management	Calendar based, time dependent control of permanent and/or event recording
MSC2/TM	
Mail transmission	Event-controlled e-mail and SMS messaging
MSC2/MAIL	
Serial event client	Event control of MultiScope II via RS-232 serial port (e.g. ATM, cash register, bar-code, VS-40 VMD). Includes user-configurable standard protocol SSP.
MultiCom	Custom driver software modules on request
Serial event output	Event triggered messaging via a serial port to e.g. building management systems.
MSC2/SerEvent	
Remote alarm connection	Automatic connection (e.g. ISDN, PSTN, LAN) for alarm image playback
MultiDial	
Camera Position Authentication	Continuous, automatic, anti-sabotage monitoring of camera position. (MSC2/CPA option)
MSC2/CPA	
Alarm management of analogue video outputs	Alarm/event driven recall of p/t/z dome camera preset positions and switching of single cameras or sequences to composite outputs. (MSC2/AM & MSC/KF options)
H.320 live image transmission	Transmission of live pictures in H.320 standard to suitable equipped MultiView PC, standard H.320 receiver or video-phone
MSC2/H320 T	
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Technical alterations reserved.