

GeViScope-16, 16R, 16HR

System for digital storage and transmission of video and audio signals using multi standard compression

Product information

GeViScope basic unit for digital storage and transmission of video and audio signals combined with multi standard compression and latest image analysis algorithms for up to 16 audio and video channels. Digital video networking on TCP/IP basis (1 GBit Ethernet on board). Signal processor board for 4 audio and video channels inbuilt, 3 optional signal processor boards GSC/DVSP4 can be added. Compression rate per channel 25/30 fps network livestream & 25/30 fps live recording (DualChannel-Streaming) with up to 2CIF resolution @ 2,5MBit/s. 4CIF resolution on request. Different function packages can be loaded to each individual camera channel: M-JPEG- and/or MPEG4CCTV-compression ideal to optimize the system performances to the project needs. Video norm PAL/NTSC and free configurable resolutions.



- Digital video matrix functionality based on TCP/IP (live & recorded pictures)
- Expandable step by step via plug in boards from 4 up to 8, 12 and 16 video and audio channels
- Suitable especially for event triggered recordings with high picture rates per camera
- Future-oriented conceptual design using highly flexible, digital signal processors (DSP) and newest PC-architecture
- Video management functionality based on internal programmable logic controller (GeViPLC)
- Flexible and modular system architecture in combination with software based function packages
- Dynamic user interface adaptations triggered by events or user profiles
- Picture replay fully compatible with MultiScope II plus and MultiScope III systems
- Integration of unlimited systems via network (LAN/WAN) using TCP/IP

Technical data

	GeViScope-16	GeViScope-16R	GeViScope-16HR
Video & Audio			
Videonorm	CCIR / PAL and EIA / NTSC, Studio quality (Sampling rate 13.5 MHz)		
Resolution	704 (H) x 288 (V) pixel (interlaced), 352 (H) x 288 (V) pixel (CIF), 176 (H) x 144 (V) pixel (QCIF), 704 (H) x 576 (V) pixel (4CIF/non-interlaced) 4 CIF resolution on request, 8 Bit luminance, 8 Bit chrominance		
Video inputs	16 x composite video (BNC-sockets, 1 Vpp / 75 Ohm), activation of 4, 8, 12 or 16 video inputs depending on number of inserted compression boards		
Audio inputs	16 x stereo (Cinch-sockets, 2 Veff at 0 dBFS), activation of 4, 8, 12 or 16 stereo channels depending on number of inserted compression boards, Sampling rates supported: 32 kHz, 44.1 kHz and 48 kHz, 16 Bit		
Video outputs for live and recorded pictures	1 x 15-pin VGA-connector (SVGA, SXGA, UXGA, 16.7 million colours, resolution depending on connected monitor up to 1600 x 1200 pixel)		
Audio outputs	1 x stereo (line out, stereo jack connector 3.5 mm)		
Interfaces			
Control inputs	16 internal control inputs, sabotage monitored (switchable)		
Relay outputs	8 internal relay outputs, 24 V DC, 1 A		
Serial	1 x serial interface (RS-232) expandable by additional PCI card to 4 x RS-232 (e.g. for camera remote control)		
Parallel	1 x parallel interface (Centronics)		
USB	Up to 8 x USB 2.0 interfaces, 2 at front side, 6 at rear side		
Ethernet	1 x Ethernet 10/100/1000 Base-T interface		
ISDN	Optional ISDN S0 via PCI card or external router		
PC-Keyboard, Mouse	PS/2-connectors at the rear side of the unit		
Diagnosis-display	Optional alternative diagnosis-display available (Connection via USB)		
Recording & Transmission			
Picture rates M-JPEG MPEG4CCTV	50/60 fps (CCIR/EIA) per channel processed: 25/30 fps (CCIR/EIA) for recording and 25/30 fps (CCIR/EIA) for live streaming per channel (Dual channel streaming) 2,5Mbit/s @ 2CIF resolution (50% M-JPEG) per channel		
Compression settings	Variable GOP length - VGL, Variable frame rate - VFR, Variable variable bit rate - VBR, Constant picture quality - CPQ		
Latency times MPEG4CCTV	Transmission: Low latency times < 150 ms comparable to M-JPEG, Time synchronous playback in real time like M-JPEG, Change over times/Display: Without delays like M-JPEG, Extremely optimized rewind display function without interruptions		
Database throughput (CCIR)	Up to 800 fps (32 channels x 25 fps/channel)		
Display throughput (CCIR)	150 - 200 fps (total sum over all Gsc/View-Viewers on a separate evaluation station)		
Soft-matrix (CCIR)	Real „live transmission“ with max. 25 fps per each available video channel		
Network cameras	GeViScope supports the direct display and storage of many of the following network camera types: JVC, AXIS, ARECONTVISION, IQInVision and Mobotix. The recording rate strongly depends on the type of network camera. Currently only M-JPEG picture streams can be recorded and displayed		
Storage media			
Internal	Max. 4 S-ATA hard discs for the multimedia database, currently 4 x 1TByte max. Standard hard disc mount (GeViScope-16 and GeViScope-16R) Integrated RAID-system (PCI S-ATA-RAID-Controller and 4-channel rack with removable hard disc retainers w/o hard discs) (GeViScope-16HR) Optional DVD-R drive for manual backup		
External	Optional SCSI-interface for up to 15 hard disk's (U2W-SCSI controller required) Optional external RAID-system (e.g. GeViRAID), further storage media on request		
General			
Operating system	Windows XP on a separate system hard disc (E)IDE 80 GByte		
Main memory	2 x 512 MB RAM in the basic version, expandable up to 4 x 1 GB RAM		
Power supply	Standard mains unit: 110 - 240 V AC / 60 - 50 Hz ± 10 %, 350 W (GeViScope-16) Redundant mains unit: 110 - 240 V AC / 60 - 50 Hz ± 10 %, 2 x 350 W (GeViScope-16R and GeViScope-16HR)		
Power consumption	Approx. 210 W fully equipped (S-ATA controller, S-ATA RAID with 4 hard disks, system hard disk)		
Mains connector	IEC 320 C13 appliance connector		
Environmental temperature	0 °C to + 35 °C		
Dimensions in mm: 19"-version Desktop version	4 HE x 470 mm (depth) 443 x 175 x 470 (W x H x D)		
Weight	Approx. 18.5 kg net		
Order no.	0.34800	0.34801	0.34802

Technical alterations reserved

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Networking Infrastructure Solutions