

GeViScope-IP/SE (Server)

Enterprise Surveillance System



Product information

- | High availability hardware
- | Virtual matrix functionality for all available video formats, from analog to IP, from standard to megapixel
- | Intelligent video analysis algorithms for processing image information and for extending the systems functionality
- | Open interfaces and SDK's (Software Development Kits)
- | Intelligent bandwidth management for relieving networks and reducing storage requirements MPEG4CCTV – Video compression perfected for video security applications

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Competence in Video Security

Technical data

Video & Audio (analog source) in combination with GeViScope-HS/E

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), M-JPEG & MPEG4CCTV 176 (H) x 144 (V) pixel (QCIF), 704 (H) x 576 (V) pixel (4CIF/non-interlaced) 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 (digital source)

Supported network cameras	GeViScope supports the direct display and storage of many of the following network camera types: JVC, AXIS, ARECONVISION, IQInVision, Sony, Sanyo, Bosch and Mobotix. The recording rate strongly depends on the type of network camera. Currently only M-JPEG picture streams can be recorded and displayed.
Supported resolutions	Standard & Megapixel cameras can be recorded and displayed with all supported resolutions.

Video & Audio (outputs)

Video outputs for live and recorded pictures	1 x 15-pin VGA-connector or DVI output (SVGA, SXGA, UXGA, 16.7 million colors, resolution depending on connected monitor up to 1600 x 1200 pixel) Optional multiple VGA-output (up to 4 outputs), Optional composite output via separate graphic card (TV-out)
Audio outputs	1 x stereo (line out, stereo jack connector 3.5 mm)

Interfaces

Control inputs	In combination with GeViScope-HS/E: 16 internal control inputs, sabotage monitored (switchable)
Relay outputs	In combination with GeViScope-HS/E: 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 or USB-connectors at the rear side of the unit
Diagnosis-display	Optional alternative diagnosis-display available (Connection via USB)

Recording & Transmission

Picture rates	In combination with GeViScope-HS/E:
M-JPEG	50/60 fps (CCIR/EIA) per channel processed: 25/30 fps @ 4CIF (CCIR/EIA) for recording and 25/30 fps @ 4CIF (CCIR/EIA) for live streaming per channel (Dual channel streaming)
MPEG4CCTV	Approx. 2,5 MBit/s @ 2CIF or 5 Mbit/s @ 4CIF resolution (50% M-JPEG) per channel
Compression settings	Variable GOP length - VGL / Variable frame rate - VFR
MPEG4CCTV	Variable variable bit rate - VBR / Constant picture quality - CPQ
Network data reduction concepts	Dynamic Live Streaming (DLS) - Only required data will be transmitted Intelligent Compression Dynamics (ICD) - Only relevant informations are processed with high quality
Storage data reduction concepts	Fading Long Term Memory (FLTM) - Long term data reduction by definition Region Of Non Interest (RONI) - Irrelevant picture areas can be defined and processed at low quality levels
Latency times	Transmission: Low latency times < 150 ms comparable to M-JPEG, Time synchronous playback in real time like M-JPEG,
MPEG4CCTV	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] (analog or digital sources)
Display throughput (CCIR)	Min. 400 fps and up to 800 fps (total sum over all GSC/View-Viewers on a separate evaluation station, e.g. GSCSpeedView with inbuilt Quad-VGA graphic card)
Soft-matrix (CCIR)	In combination with GeViScope-HS/E: Real "live transmission" with max. 25 fps per each available video channel (analog sources) Network cameras can be transmitted with their supported frame rate per channel (digital sources)

Storage media

Internal	Max. 4 S-ATA hard discs for the multimedia database, only limited by current HDD capacities (e.g. 4 x 1 TB), standard hard disc mount Optional DVD-R drive for manual backup
External	Optional SCSI-interface for up to 15 hard disk's (Ultra320-SCSI controller required) Optional external RAID-system on SCSI or iSCSI basis (e.g. GeViRAID II), further storage media and solutions on request

General

Operating system	Windows XP embedded on separate system solid state disk S-ATA 16 GB or better
Processor	INTEL Core2Duo inside or better
Main memory	2 x 1 GB RAM in the basic version, expandable up to 4 x 1 GB RAM
Power supply	Redundant mains unit: 110 - 240 V AC / 60 - 50 Hz ± 10 %, 2 x 300 W
Power consumption	Approx. 200 W fully equipped (4 S-ATA hard disks, system solid state disk)
Mains connector	IEC 320 C13 appliance connector
Environmental temperature	5 °C to + 35 °C
Dimensions in mm:	
19"-version	4 HE x 470 mm (depth)
Desktop version	443 x 175 x 470 (W x H x D)
Weight	Approx. 16 kg net

Order no. 0.34831

Technical alterations reserved

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