GeViScope-HS/R, HS/HR

Enterprise Surveillance System

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 inbuild, 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.

| High availability hardware

| Virtual matrix functionality for all available video formats, from analog to IP, from standard to megapixel

| Future-oriented conceptual design using highly flexible, digital signal processors (DSP)

| 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

GEUTEBRÜCK
Competence in Video Security

Technical data

	GeViScope-HS/R	GeViScope-HS/HR
Video & Audio (analog source)		
Videonorm	CCIR / PAL and EIA / NTSC , Studio quality (Sampling rate 13.5 MHz)	
Resolution M-JPEG & MPEG4CCTV	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) 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, ARECONTVISION, 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	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)	
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 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 MPEG4CCTV	Variable GOP length - VGL / Variable frame rate - VFR 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 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] (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)	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 (GeViScope-HS/R), Integrated RAID-system (PCI S-ATA-RAID-Controller and 4-channel rack with removable hard disc retainers w/o hard discs) (GeViScope-HS/HR) 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. 210 W fully equipped (S-ATA controller, S-ATA RAID with 4 hard disks, system solid state 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.	**0.34808**	**0.34809**

Technical alterations reserved

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