

GeViStore-IP/8Bay

Redundant Storage Server System



Product information

Digital video system platform with integrated RAID system for storage and transmission of video signals via TCP/IP networks. Storage server RAID system with preinstalled GeViScope software. The operating system of GeViStore-IP is based on Windows Server 2008, which is especially suitable for recording and analysis of network cameras. Windows 2008 features a lot of tools for the administration of local and remote servers.

- | High End Server System for IP-Applications with high performance
- | High availability hardware
- | GeViScope IP solution and storage in one
- | Virtual matrix functionality for all available video formats, from analog to IP, from standard to megapixel
- | Integrated hardware surveillance functionality for easy diagnosis

Technical data

Video (digital source)

Supported network cameras	GeViStore-IP supports the direct display and storage of many of the following network camera types: JVC, AXIS, ARECONTVISION, IQInVision, Sony, Sanyo, Bosch, Panasonic 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

Video outputs for live and recorded pictures CAM2IP VIPCAM	1 x 15-pin VGA-connector resolution depending on connected monitor up to 1600 x 1200 pixel optional optional
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Video & Audio (analog source) in combination with optional available extension unit GeViScope-HS/E* for up to 16 analog cameras

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

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) e.g. for camera remote control or to connect an operating keyboard
USB	Up to 3 x USB 2.0 interfaces, 1 at front side, 2 at rear side
Ethernet	2 x Ethernet 10/100/1000 Base-T interfaces
PC-Keyboard, Mouse	PS/2 or USB-connectors at the rear side of the unit

Recording & Transmission

Picture rates M-JPEG	In combination with GeViScope-HS/E*: 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 MPEG4CCTV	Variable GOP length - VGL / Variable frame rate - VFR 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 (FLTMM) - 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 < 120 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* and 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. 8 SAS/S-ATA hard discs (GeViStore-IP/8Bay) for the multimedia database, only limited by current HDD capacities (e.g. 8 x 2 TB), DVD-RW drive for manual backup
Expandable	Further storage media and solutions on request: Max. 16 or 24 SAS/S-ATAII- hard disc with other housing

General

Operating system	Windows Server 2008 embedded on separate operating system hard disk (Seagate Constellation)
Processor	INTEL QuadCore XEON Prozessor > 2 GHz
Main memory	3 x DIMM DDR3 ECC RAM
Power supply	Redundant mains unit: 110 - 240 V AC / 60 - 50 Hz ± 10 %, 2 x 500 W (Hot-Swap)
Power consumption	max. 240 W (fully equipped)
Mains connector	IEC 320 C13 appliance connector
Environmental temperature	0 °C to + 40 °C
Dimensions in mm (W x H x D): Rack mounted version:	482,6 x 88,9 x 673,1 19" (W) x 2 HE / 19" x 3,5" x 26,5" (W x H x D)
Weight	21,4 kg
Order no.	0.34833

* GeViScope-HS/E (optional available for processing analog video signals)

Technical alterations reserved

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