GeViStore-IP/16Bay-2P

Enterprise Surveillance Storage Unit

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.

- Network Video Recorder (NVR) for recording IP cameras with integrated mass storage solution
- High availability redundant hardware concept
- Virtual matrix for many different compression standards and video formats
- Integrated hardware monitoring functionality for easy diagnosis
- Video management functionality based on internal programmable logic controller (GeViPLC)
- Protected against manipulation (lockable front)

GEUTEBRÜCK
Competence in Video Security

Technical data		GeViStore-IP/16Bay-2P
Video & audio sources		
Digital (IP)	Compression algorithms	M-JPEG, H.264 (multimedia), H264CCTV, MPEG4CCTV, MPEG4CCTV/MP
	Supported resolutions	D1, CIF, QCIF, Megapixel, HD
	Supported network cameras	GeViStore-IP/16Bay-2P supports direct recording and playback of network cameras from: GEUTEBRÜCK VIPCAM, GEUTEBRÜCK EcoLine, JVC, AXIS, ARECONTVISION, IQInVision, Sony, Sanyo, Bosch, Acti, CNB, Panasonic and Mobotix. The ONVIF standard is supported. Detailed and current information on supported IP cameras can be found on our website at: Products/useful information
	Recording rate	The recording rate strongly depends on the type of network camera and the compression algorithm used.
	Recording formats	All resolutions supported by the network camera can be recorded and displayed in the corresponding format.
Analog		Analog sources can be connected using CAM2IP or GeViScope-HS/E+ expansion units. For more information, please see the corresponding technical data sheets.
Video (output)		
Video outputs for live and stored images		VGA output (UXGA, 16,7 million colors) resolution, depending on connected monitor, upt o 1600 x 1200 pixels (VGA output).
Interfaces		
Control inputs relay outputs		Optionally in conjunction with GeViScope-HS/E+ or IO-Contact-16/8
Serial		1 serial interface (RS-232)
USB		3 USB 2.0 interfaces, 1 on the front, 2 on the back
Ethernet		2 x Ethernet 10/100/1000 base-TX interface
PC keyboard, mouse		PS/2 or USB ports on the back of the unit
Recording & transmission		
Database throughput		40-50 MB/s with internal storage (max. 16 SATA2/SAS hard drives) 40-50 MB/s for external storage (e.g. iSCSI RAID System, GeViRAID II)
Playback throughput		Depending on the compression format, up to 32 live channels. MPEG4CCTV: Up to 1200 fps, M-JPEG: Up to 800 fps, H.264 (multimedia): Up to 600 fps (sum of all GSC/view windows on a separate evaluation computer, e.g. GSCSpeedView with built-in quad-VGA graphics card)
Software matrix		Real „live transmission“ with up to 25/30 fps per each available video channel (analog sources) Network cameras are transmitted with the frame rate you support (digital sources)
Latency times M-JPEG, H.264 (multimedia)		Depending on the specific IP camera
Functions for data reduction for network and storage	DCS*	Dual Channel Streaming – separate production stream (resolution, compression quality, frame rate) for live streaming and recording
	DLS*	Dynamic Live Streaming – transmission of scaled images only only in the displayed resolution
	ICD*	Intelligent Compression Dynamics – automatic control of the compression depending on image content
	FLTM**	Fading Long Term Memory – automatic (adjustable) reduction of the frame rates in the older database streams
	* For IP cameras from other manufacturers in conjunction with transcoding ** Based on the principle, not for H.264 (multimedia)	

Image processing		
Video analysis (may require license*)	Basic AD	License-free integrated Basic Activity Detection for the entire image area.
	Advanced AD*	Advanced Activity Detection – 42 x 34 freely definable detection cells, reaction time: 160 ms
	VMD*	3 D Video Motion Detection – 128 freely definable areas, response times: 40 ms - 10 s
	Dual Sensor*	Combination of VMD and object classification – especially suitable for particularly difficult surveillance tasks.
	VA Missing*	Image data are evaluated, based on parametrization, for missing objects in the image.
	ANPR*, ANPR-4ChMux*	Number plate recognition for moving vehicles, and for fleet monitoring
	VCA4IP	Video Content Analysis for IP – ability to use the above video analysis methods and IP sources
Diagnostics		Synchronous signal surveillance (analog sources), contrast surveillance, angle monitoring (CPA), GSCDiagnostics
Transcoding		Conversion of any* streams (IP source) to MPEG4CCTV or MPEG4CCTV/MP format for use of DCS, DLS, ICD and FLTM independent of the selected camera * currently only M-JPEG
Compression settings MPEG4CCTV, H264CCTV		Variable GOP length VGL Variable frame rate VFR Variable bit rate VBR Constant picture quality CPQ
Cutlist		Ability to easily create a cutting list for a compact data export.
Data export		Export of image data available in the following formats: GBF* (GEUTEBRÜCK Backup File), MPEG2* (mpg), MPEG4CCTV (m2v), H.264 (h264), Video-DVD* (vob), JPG (3 Qualitäts-Level), BMP All data media under Windows are supported as well as a direct export to CD/DVD. * Export including audio possible
Storage media		
Internal		RAID architecture with max. 16 SATA2/SAS hard drives for the multimedia database, only limited by the current disk capacity (e.g. 16 x 2 TB). DVD-RW drive for manual backup.
Expandable		Other storage media and concepts upon request: Max. 24 SATA2/SAS disks in a larger enclosure.
General		
Operating system		Windows 2008 Server R2 (64Bit) on separate OS hard drive (Seagate Constellation)
Processor		2x INTEL QuadCore XEON Prozessor > 2 GHz inside or better
Main memory		6 x 2 GB DDR3 ECC RAM
Voltage supply		Redundant power supply unit: 110 - 240 V AC / 60 - 50 Hz ±10%, 2 x 760 W (Hot-Swap)
Power consumption		Max. 630 W fully equipped (SATA2/SAS RAID controller, SATA2/SAS RAID with 16x HDD, system drive)
Power input		IEC connector according to IEC 320 C13
Ambient temperature		0 °C to +40 °C
Dimensions in mm: as 19“ installation unit as a desktop unit		3 U x 710 mm (depth) 482.6 x 133 x 710 (W x H x D)
Weight		Approx. 34 kg net (without HDDs) / 48 kg (fully equipped)
Order no.		**0.34832**

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