

GeViScope-IP/SE+

Omnibrid Enterprise Surveillance System



Product information

The GeViScope-IP/SE+ is a omnibrid high-end network recorder supporting multiple compression algorithms and digital crossbar functionalities. The system is based on TCP/IP (1Gbit onboard Ethernet) providing a sole IP solution. IP-cameras of various brands can be integrated into the system for recording and playback purposes via license. H264CCTV, H.264 and MJPEG formats are supported with free configurable resolutions. In addition, it provides 16 sabotage controlled binary inputs and 8 relay outputs. The system can be extended with analog inputs using GeViScope-HS/E+.

- | Digital video matrix functionality based on TCP/IP (live & recorded pictures)
- | Especially suitable for direct recording of network cameras
- | Omnibrid technology supporting multi standard video compression
- | Real time transcoding of IP camera streams
- | Video management functionality based on internal programmable logic controller (GeViPLC)
- | Dynamic user interface adaptations triggered by events or user profiles
- | Integration of unlimited systems via network (LAN/WAN) using TCP/IP
- | Picture replay fully compatible with MultiScope II plus and MultiScope III systems
- | Equipped with redundant internal PSU for more operational safet

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Competence in Video Security

Technical data**GeViScope-IP/SE+****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	GeViScope-IP/SE+ 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 & audio (output)

Video outputs for live and stored images	Dual DVI (DVI-I and DVI-D) output (QXGA, 16.7 million colors) VGA output (via DVI-I adapter), Display Port (WQXGA, 16,7 million colors) Resolution depending on the connector monitor up to 2048 x 1536 pixels @ 75 Hz (Dual DVI) or up to 2560 x 1600 @ 60 Hz (Display Port). Optional multiple graphic output (up to 4 outputs) with separate graphic card Optional CVBS output (TV/OUT)
Audio outputs	1 x stereo (line out, jack, 3.5 mm)

Interfaces

Control inputs	16 internal floating input contacts, tamper-monitored (switchable), expandable to 32
Relay outputs	8 internal relay outputs intern, 24 V DC, 1 A, expandable to 16
Serial	1 x serial interface (RS-232) expandable with additional card to 4 x RS-232 (e.g., for remote camera control)
USB	8 USB 2.0 interfaces, 2 on the front, 6 on the back
Ethernet	1 x Ethernet 10/100/1000 base-TX interface, expandable with additional card
PC keyboard, mouse	USB ports on the back of the unit
Diagnostics display	Optional alternative diagnostic front panel with LCD display (connected via USB)

Recording & transmission

Database throughput	28-30 MB/s with internal storage (max. 4 SATA 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	Standard disk holder Max. 4 SATA hard drives for the multimedia database, limited only by current disk capacity (e.g. 4 x 2 TB) Optional DVD-RW drive for manual backup	
External	Optional SCSI interface for up to 15 hard drives (Ultra320 SCSI controller required) Optional external RAID system using SCSI or iSCSI-based products (e.g. GeViRAID II), other storage media and storage concepts on request	
General		
Operating system	Windows 7 on separate SATA solid state disk, 40 GB	
Processor	INTEL Core i5 inside or better	
Main memory	2 x 2 GB RAM	
Voltage supply	Redundant power supply unit: 110 - 240 V AC / 60 - 50 Hz ±10%, 2 x 300 W	
Power consumption	Approx. 210 W fully equipped (SATA controller, SATA RAID with 4 x HDD, system solid state disk)/approx. 140 W (1x HDD)	
Power input	IEC connector according to IEC 320 C13	
Ambient temperature	0 °C to +35 °C	
Dimensions in mm: as 19" installation unit as a desktop unit	4 U x 470 mm (depth) 443 x 175 x 470 (W x H x D)	
Weight	Approx. 18.5 kg net (fully equipped)/approx. 17.1 kg net (1x HDD)	
Order no.	0.34958	

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GeViScope_IP/SE+-_PL_EN 01.03.2011

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