

# G-Scope/1044

## Compact Class Business Surveillance System



### Product information

Especially compact network recorder for up to 4 analog and 2 digital video sources for use in locations with limited space. The unit offers highly sophisticated recording and networking capabilities and supports multiple compression algorithms. It provides two TCP/IP ports (1 GBit) and allows to integrate IP-cameras of various brands 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 8 sabotage controlled binary inputs and 4 relay outputs.

- | Very compact network recorder with digital video matrix functionality based on TCP/IP
- | Up to 4 analog and 2 network cameras of selected brands
- | Omnibrid technology supporting multi standard video compression
- | iSCSI support for external storage
- | 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

**GEUTEBRÜCK**  
Competence in Video Security

Technical data		G-Scope/1044
<b>Video &amp; audio sources</b>		
Digital (IP)	Compression algorithms	M-JPEG, H.264 (multimedia), H264CCTV, H264CCTV/MP, MPEG4CCTV
	Supported resolutions	D1, CIF, QCIF, Megapixel, HD
	Supported network cameras	G-Scope/1044 supports direct recording and playback of up to 6 network cameras from: GEUTEBRÜCK TopLine, VIPCAM, EcoLine, JVC, AXIS, ARECONTVISION, IQInVision, Sony, Sanyo, Bosch, Acti, CNB, Panasonic and Mobotix. The ONVIF standard is supported. Some IP camera sources have to be licensed. 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	Video standards	CCIR/PAL and EIA/NTSC, studio quality (sampling rate 13.5 MHz)
	Compression algorithms	M-JPEG, MPEG4CCTV
	Supported resolutions	704 (H) x 576 (V) pixels (D1/4CIF/full frame), 704 (H) x 288 (V) pixels (2CIF/half-frame), 352 (H) x 288 (V) pixels (CIF), 176 (H) x 144 (V) pixels (QCIF), 8-bit luminance, 8-bit chrominance
	Recording rate	Can be freely set up to 25/30 frames per second.
	Video inputs	4 x CVBS (BNC sockets, 1 Vpp / 75 ohm)
	Audio inputs	1 x stereo or 2 x mono (line in, jack, 3.5 mm), ISO/IEC 11172-2 Layer II, sampling rates: 32 kHz, 44.1 kHz and 48 kHz, 16-bit
<b>Video &amp; audio (output)</b>		
Video outputs for live and stored images	DVI-I output, VGA output (in combination with optional DVI-I Adapter), Display Port, HDMI	
Audio outputs	1 x stereo (line out, jack, 3.5 mm)	
<b>Interfaces</b>		
Control inputs	8 internal floating input contacts, tamper-monitored (switchable)	
Relay outputs	4 internal relay outputs, 24 V DC, 1 A	
Serial	2 x serial interface (RS-232)	
USB	5 x USB 2.0 interfaces, 1 on the front, 4 on the back	
Ethernet	2 x Ethernet 10/100/1000 base-TX interface	
PC keyboard, mouse	USB ports on the back of the unit / alternative PS/2	
<b>Recording &amp; transmission</b>		
Database throughput	23-25 MB/s with internal storage, 38-40 MB/s for external storage (e.g. iSCSI RAID System)	
Playback throughput	Depending on the compression format, up to 6 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.	
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 (analog source) MPEG4CCTV MPEG4CCTV/MP H264CCTV	Transmission: Low latency < 150 ms Synchronized real-time playback Switching times/display without delay Optimized reverse playback without image jumps
	M-JPEG (IP source) 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 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
	* only for analog sources - M-JPEG, MPEG4CCTV ** Based on the principle, not for H.264 (multimedia)	
<b>Image processing</b>		
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 configurable detection cells, reaction time: 160 ms
	G-Tect/MOP	Motion Privacy
	CPA	Camera Position Authentication
	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	
Compression settings MPEG4CCTV, H264CCTV	Variable GOP length VGL, Variable frame rate VFR, Variable bit rate VBR, Constant picture quality CPQ	
Privacy zones	Privacy zones in the camera image can be hidden (only for analog sources – M-JPEG, MPEG4CCTV)	
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	
<b>Storage media</b>		
Internal	1 x 3.5" 1TB SATA HDD	
External	Optional external iSCSI-based RAID system (e.g. G-VRaid),	
<b>General</b>		
Operating system	Windows 7 embedded 64Bit on SATA HDD	
Processor	AMD Dual Core Processor T56N (1.6 GHz / 18 W) or better	
Main memory	2 x 2 GB DDR3 RAM	
Voltage supply	External power supply unit: 90-264 V AC / 50-60 Hz, 24 V DC / 3 A	
Power consumption	24 V DC / 1 A	
Power input	IEC connector according to IEC 320 C13	
Ambient temperature	0 °C to +55 °C	
Dimensions in mm: as 19" installation unit as a desktop unit	2 U x 258 mm (depth) 302 x 96 x 258 (W x H x D)	
Weight	Approx. 5.4 kg	
<b>Order no.</b>	<b>0.38144</b>	

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