G-Scope/3500-H8/H16

Professional Desktop Video Security

Product information

Professional Desktop video security solution for medium sized networking installations. The operating system is provided on Solid State Disk (SSD) for increased speed and operational availability. In addition the system offers a redundant PSU for even more safety during operation. Equipped with the state of the art operating system Windows 8.1 Industry Embedded, a dual database architecture combined and the inbuilt GPU accelerated 64 Bit video engine G-Core, the system offers outstanding image processing capabilities. With inputs for up to 48 IP and 8/16 analog cameras and an image database size of up to 40 TB the device perfectly matches to meet the requirements of a modern HD based video security solution.

- Professional G-Core video engine

- Outstanding performance due to GPU powered image processing and 64 Bit architecture

- High availability due to intelligent redundancy concepts

- Easy installation and system setup through wizards

- Clear and structured user interface concept with context sensitive help function

- Meets highest data protection requirements: HTTPS, Privacy Masking, tamper-proof database architecture, watermarking, extensive access rights definitions

Technical data

		G-Scope/3500-H8, G-Scope/3500-H16
Video & audio sources		
Digital (IP)	Compression algorithms	M-JPEG, H.264, H264CCTV, ready for H.265
	Supported resolutions	D1, 2CIF, CIF, QCIF, Megapixel, HD, UHD
	Number of IP sources	A total of up to 48 video sources can be integrated via option G-Core/CamConnect.
	Audio formats	G.711 (PCM) A-law, µ-law with 8 kHz, Uncompressed PCM up to 16 kHz
Analog	Video standards	CCIR/PAL and EIA/NTSC, studio quality (sampling rate 13.5 MHz)
	Compression algorithms	H264CCTV with up to 25/30 frames per second
	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
	Video inputs	Model-dependent 8 or 16 x CVBS (BNC sockets, 1 Vss / 75 ohm).
	Audio inputs	16 mono audio signals via 8 stereo jacks 3.5 mm (2 mono audio signals per each stereo jack), Sampling rates: 8, 16, 24, 32, 48 KHz / 10 bit

Video & audio (output)

Video outputs	DVI-D, Display Port, VGA
Audio outputs	1 x stereo (line out, phone jack, 3.5 mm)

Interfaces

Control inputs	16 internal floating input contacts, tamper-monitored (switchable)
Relay outputs	8 internal relay outputs, 24 V DC, 1 A
Serial	1 x serial interface (RS-232) expandable with additional card to 4 x RS-232 (e.g., for remote camera control)
USB	2 x USB 3.0, 4 x USB 2.0 (rear) / 2 x USB 2.0 (front)
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 / alternative PS/2

Recording & transmission

Image data base size	Max. 40 TB
Database throughput	60-70 MB/s with internal storage (preliminary value)
Playback throughput	Depending on the compression format, up to 32 live channels (preliminary value)

Image processing

Video analysis (some are optional*)	G-Tect/AD	Integrated Activity Detection for the entire image area.
	G-Tect/SV	Integrated Scene Validation function
	SourcePrivacy	Motion Privacy (Picture blurring function for moving objects)
	ClientPrivacy	Client Privacy Zones (Picture blurring function for predefined areas)
	G-Tect/VMD*	3 D Video Motion Detection – 128 freely definable areas, response times: 40 ms - 10 s
	G-Tect/VMX*	Intelligent video analysis for complex perimeter surveillance szenarios
	G-Tect/ANPR*	Number plate recognition for moving vehicles, and for fleet monitoring
Data export		Export of image data includng audio in the following formats: GBF (GEUTEBRÜCK Backup File), MP4 (Container format for H.264 or H264CCTV), JPG (3 quality levels), BMP. All data media under Windows are supported as well as a direct export to CD/DVD

Storage media

Internal	1 x 120 GB SSD for the operating system and the SQL database. Optional: 4 x 3.5" HDD for the image database in standard disk retainer

General

Operating system	Windows Embedded 8.1 Industry (64 Bit)
Processor	INTEL Core i3 inside or better
Main memory	2 x 4 GB DDR3 RAM
Voltage supply	Redundant power supply unit: 110 - 240 V AC / 60 - 50 Hz ±10%, 2 x 420 W (Hot-Swap)
Power consumption	Approx. 210 W fully equipped (1x SSD, 4 x HDD) / Approx. 140 W (1 x SSD, 1x HDD)
Power input	IEC connector according to IEC 320 C13
Ambient temperature	max. 4HDD 0 °C to + 35 °C / max. 2HDD 0 °C to + 40 °C
Dimensions in mm: as 19" installation unit as a desktop unit	3 U x 415 mm (depth) 443 x 140 x 436 (W x H x D) incl. pedestals and front cover
Weight	Approx. 13 kg net (1x SSD, 1x HDD)
Order no.	**0.29305 (G-Scope/3500-H8), 0.29325 (G-Scope/3500-H16)**

Technical alterations reserved