

re_reporter+

Omnibrid Business Surveillance System



Product information

The re_reporter+ series with 4, 8, 12 or 16 analog inputs is an omnibrid entry level solution for up to 19 camera signals (analog/digital). It supports multiple compression algorithms and offers digital matrix functionalities. The system is based on TCP/IP (1Gbit onboard Ethernet) 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 16 sabotage controlled binary inputs and 8 relay outputs.

- | Digital video matrix functionality based on TCP/IP (live & recorded pictures)
- | Expandable w/o license to max. 19 GEUTEBRÜCK channels using either CAM2IP or VPCAM devices
- | Up to three network cameras can be attached to the system via license
- | Omnibrid technology supporting multi standard video compression
- | Up to 4 hard disk drives for database (internal)
- | 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 system

GEUTEBRÜCK
Competence in Video Security

Technical data		re_porter-4+, re_porter-8+, re_porter-12+, re_porter-16+
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	re_porter+ supports direct recording and playback of network cameras from: GEUTEBRÜCK VIPCAM, GEUTEBRÜCK EcoLine, JVC, AXIS, ARECONVISION, 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	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 50/60 frames per second.
	Video inputs	Model-dependent 4, 8, 12 or 16 x CVBS (BNC sockets, 1 Vss / 75 ohm). A total of up to 19 video sources (DVSP4+, CAM2IP, VIPCAM) possible. Of these, 3 IP cameras can be integrated through licensing.
	Audio inputs	1 x stereo (line in, jack, 3.5 mm), sampling rates: 32 kHz, 44.1 kHz and 48 kHz, 16-bit
Video & audio (output)		
Video outputs for live and stored images	Dual DVI (DVI-I and DVD-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).	
Audio outputs	1 x stereo (line out, 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	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	
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 19 live channels. MPEG4CCTV: Up to 1200 fps, M-JPEG: Up to 800 fps, H.264 (multimedia): Up to 400 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 (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
	* 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.
	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
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
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 configurable SATA HDD
Processor	INTEL Pentium Dual Core inside or better
Main memory	2 x 1 GB RAM (optionally upgradeable to 4 x 1 GB RAM)
Voltage supply	Power supply unit: 110 - 240 V AC / 60 - 50 Hz ±10%, 300 W
Power consumption	Approx. 200 W fully equipped (4 x HDD)/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	3 U x 415 mm (depth) 443 x 135 x 415 (W x H x D)
Weight	Approx. 11.6 kg net (2x HDD)
Order no.	0.34965 (re_porter-4+), 0.34966 (re_porter-8+), 0.34967 (re_porter-12+), 0.34968 (re_porter-16+)

compe tence

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