



Description

Digital video transmission system with recording for 4/10 IP cameras or up to 10 analogue cameras.

- Recording, transmission and display of GPS data with serial GPS receiver or with optional 3G/4G module
- Integration into existing WLAN networks by means of selected USB WLAN adapters
- Longterm recording onto removable hard disk with adaptive track management for schedule-controlled permanent and motion recording, or contact-triggered event recording
- Suitable for stationary and mobile applications
- Real-time video recording
- Hybrid functionality with manufacturer-neutral compatibility for analogue and IP cameras
- ONVIF compatible with selected IP cameras
- Optional video analytics for greater detection and visual verification are available via Xtralis Xchange
- IntrusionTrace: intrusion detection for sterile zone monitoring; approved as a primary detection system for operational alert use in sterile zone monitoring applications
- Image resolutions up to 720 x 288 pixels and megapixel resolution with IP-cameras
- Integrated Multi-Unicast server supporting multiple IP connections
- Integrated Web server for video transmission and camera remote control via PC/Tablet and Smartphone browser
- HTconnect enables unrestricted, but safe access over the Internet to Firewall protected video systems (also with dynamic IP-addresses) in private nets. Additionally HTconnect controls permanently the availability of the entire system from public net over private net to VideoGateways
- Camera position authentication and camera specific alarming of video loss
- Integrated e-mail client for alarming up to two email addresses
- Definition of up to 5 privacy zones¹ with the options live images or live and recorded images
- Precise recording (exact to the second) of pre- and post-alarm images, individually adjustable to camera and event
- Event-triggered connections by alarm contact, motion detection (depending on type of IP cameras), serial command, technical alarm, and routine call
- Perfected for alarm verification and conformity with control centre applications
- Integrated interfaces for network, camera remote control, data transmission, and system integration
- High-Level Integration (HLI) of ADPRO PRO/PRO E Passive Infrared Detectors (PIR) via serial interface
- Extensive remote control functions to control lighting, barriers, alarms, doors, or any relay-controlled devices
- Multi-criteria evaluation of recordings
- Live video transmission and simultaneous archive evaluation and recording (Triplex)
- Bidirectional audio transmission and recording onto integrated storage medium
- Remote playback of pre-recorded audio tracks (e.g. to address intruder on premises)
- Resistance-monitored alarm inputs
- BS 8418 compliant
- Compact design, suitable for desk and wall mounting

XOh

The remotely programmable XOh SecurityPlus firmware extends the rich functionality of HeiTel VideoGateways. The firmware includes additional applications (IntrusionTrace) that supports human guards and ensures improved, more comprehensive and "always on" threat detection. Moreover, the XOh Firmware offers full downward compatibility with all existing HeiTel control room applications.

HLI-Interface

Thanks to the High Level Integration (HLI) ADPRO passive infrared detectors can be comfortably accessed for parameterisation and diagnostics either locally or by remote access.

Options

- 3G / 4G module including GPS data
- WLAN-capability by external USB WLAN adapter
- IntrusionTrace license; outdoor perimeter detection for sterile zone monitoring (e.g. car dealerships, solar parks, power generation facilities, and warehouses); pay-as-you-grow license model with max. 4 licenses
- Passive/active GPS antenna must be purchased separately
- Mounting kit for base unit and external hard disk kit

Available Devices

- CamDisc+ E 4/10
4/10ch (IP) VideoGateway with removable hard disk (optional) for stationary and mobile applications
- CamDisc+ E 4/10 kit
4/10ch (IP) VideoGateway with removable hard disk (optional) and internal analogue real-time card



Specifications

Video

Video standard	Analogue: CCIR/PAL and EIA/NTSC, Digital: dependent on IP camera (see HeiTel IP camera compatibility list)
Video Compression	Device internal using HTcompress ¹ (M-JPEG differential compression with adjustable compression factor per camera) or H.264 (with selected cameras)
Picture formats	<ul style="list-style-type: none"> With IP camera dependant on model: standard to megapixel resolution; With analogue cameras: Transmission: 720 x 288, 512 x 256, 256 x 128, 128 x 80 pixels and 16 Bit colour depth, Recording: 720 x 288, 512 x 256 pixels and 16 Bit colour depth
Video inputs	Analogue Video: Optional 4/10 x BNC, 1 Vss/75 Ohm (optional video card needed) IP cameras: Up to 4/10 IP cameras, simultaneous use of different models and resolutions
Motion Detection	With adjustable detection zones for alarm transmission and event-triggered recording ¹ or depending on type of IP cameras
Video signal monitoring	Video signal monitoring (sync. and picture content)

Audio

General	Bidirectional audio transmission and recording
Audio compression	SPEEX Codec, 16Bit, 80-8000 Hz
Audio inputs	1 x line in (0-2 Vpp, nominal 0.775 Vpp) or Mic in (electret or electroacoustic Micro-phone)
Audio output	1 x line out (0-2 Vpp, nominal 0.775 Vpp) and 1 speaker out (1W/8 Ohm)

Transmission and Recording

General	Video and audio transmission, recording and playback at the same time; online evaluation via local and remote receiver station or offline via removable HDD
Multi-Unicast	Up to 6 IP- or 5 IP- and 1 dial-up connection simultaneously
Web server	Up to 4 IP connections via PC, Smartphone, PDA browser (additional to 5 standard connections)
Video transmission of live and recorded images	Up to real-time via IP (LAN/WLAN, Internet, DSL, GPRS, HSDPA, CDMA, UMTS, EDGE)
Recording speed	Up to 25 fps respectively real-time recording in total depending on compression mode, image content and Bit rate
Recording media	Removable SATA drive (1 TB, 2 TB, 4 TB) with adaptive track management (4 or 10 tracks)
Trigger to initiate transmission/recording	Dry contact, built-in motion detection ¹ , serial command and timer based calendar
Privacy Zones¹	Up to 5 privacy zones per camera; options for each camera: live or live and recorded images
Recording modes	Image sequence, up to 50,000 events per camera with pre- and post alarm, continuous recording, all modes in conjunction with built-in timer based calendar
Recording interval	Event recording: interval=0-999s and duration=1-999s separately adjustable for pre- and post alarm; Continuous recording: interval=0-999s timer controlled (event optimised recording possible) (value "0"= as fast as possible)
Callback	Automatic callback to pre-programmed receiver stations with CamControl software

Remote Access and Evaluation

General features	Remote access to live images, recorded images and remote setup-/ maintenance and recording via receiver software
Search criteria	Site list and camera selection with support camera, time, date, event (contact, motion1) and graphical analysis of event and permanent recordings
Motion Smart Search¹	In offline mode considering camera, detection zones, sensitivity and date/time
Reference images	Transmitter list and camera selection supported by object specific reference images
Access protection	Multiple password levels and sophisticated user management

Interfaces

eSATA	eSATA interface for external storage based on HDD
LAN interface	1 GBit/s built-in network adapter, RJ45 connector, DHCP, auto detection within LAN
3G/4G Module	Optional 3G/4G module for self installation
2x USB Interface	USB 2.0 for configuration of device USB 2.0 for WIFI-stick
HLLI Interface	HLLI Interface for ADPRO PRO / PRO-E detectors
PTZ Control	Via onboard RS-232/485 (422) interface (screw/clamp)
Transparent data channel/control interface	Via onboard RS-232 interface (9 pin Sub-D)
Resistance-monitored alarm inputs	4 or 10 alarm inputs (camera related), 1 general alarm input, 1 arm/disarm and 1 tamper input (all on screw terminals)
Control outputs	2 relays- system error and/ or remote control purposes (changeover contact on screw/ clamp scrimp), max. 30V DC/1 A, 60V DC/0.3 A, 125V AC/0.5 A

General

Operating system/ system design	Embedded Linux/dedicated hardware (no PC)
Control and display element	On-Off Switch, push button for manual camera selection and status LED
Set-up and Firmware update	Via local and/or remote receiver station via IP, WAN and/or LAN connections
Logging	Transmitter-side event logging of essential basic functionalities and device status
Operating voltage/Power consumption	12-24V DC, max. 25W
Operating voltage range	8-30V DC
Ambient temperature	+5°C ... +40°C (+41°F ... +104°F)
Housing/ Enclosure	Desktop and wall mounting: 221 x 88 x 270 mm (WxHxD), 19" mounting: 1/2 19" x 2 RU x 275 mm
Weight	3.8 kg with hard disks
Protection class	IP 30 according to IEC 60529, DIN EN 60529
Warranty	24 months
IntrusionTrace.h licenses	4 channels

¹ only with analogue cameras



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