HeiTel™ CamDisc E

**Description**

Digital video transmission system with recording for up to 4 analogue (optional video card needed) or 4/10* IP 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 internal 1 TB 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
- Optional video analytics for greater detection, visual verification & business intelligence 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 zones 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

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**Available Devices**

- CamDisc E 4
  - 4 channel (IP) VideoGateway with internal hard disk for stationary applications
- CamDisc E 4M/10M
  - 4/10 channel (IP) VideoGateway with built-in shock absorption for internal hard disk for mobile applications
- CamDisc E 4MH/10MH
  - 4/10 channel (IP) VideoGateway with built-in shock absorption for internal hard disk and heater for mobile applications

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**Approvals**

- CE (EN 61000-6-3, EN 55022, Kl.B, EN 61000-3-2, EN 61000-3-3, EN 61000-6-2, EN 61000-4-2, -3, -4, -5, -6, EN 50204, EN 50130-4)
- FIDUCIA (starting from CamControl LITE 3.90)
- BS 8418
- UVV Kassen
- EN50155 (for CamDisc E M)

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* 10 channel IP is supported by CamDisc E M only.

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**Video Gateway**

**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.

**Accessories**

- 4 channel analogue video card
- 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 seperately
- Mounting kit for base unit and external hard disk kit

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### 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® (M-JPEG differential compression with adjustable compression factor per camera) or H.264 (with selected cameras)
- **Picture formats**: • With IP camera dependent 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 x BNC, 1 Vss/75 Ohm
  - 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, 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
- **Multi-Unicast**: Up to 6 IP-connections 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 in total depending on IP connection (LAN, Internet, DSL, GPRS, HSDPA, CDMA, UMTS, EDGE)
- **Recording speed**: Real-time, with IP cameras depending on the resolution
- **Recording media**: Internal 1 TB HeiTel HDD
- **Trigger to initiate transmission/recording**: Dry contact, built-in motion detection, serial command and timer based calender
- **Privacy Zones**: 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 calender
- **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 Search**: In online mode considering 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

#### USB interfaces
- Host USB and Slave USB, USB 2.0 for device configuration

#### HLI Interface
- HLI Interface for ADPRO PRO / PRO-E detectors

#### PTZ Control
- Via on board RS-232/485 (422) interface

#### Transparent data channel/ control interface
- GPS, Transparent, Control via onboard RS-232 interface (screw clamp terminal)

#### Resistance-moitored alarm inputs
- 2 alarm inputs (camera related), 1 arm/disarm and 1 tamper input (all on screw terminals)

#### Control outputs
- 1 relay - system error and/ or remote control purposes (changeover contact), max. 30V DC/1A, 60V DC/0.3 A, 125V AC/0.5 A

#### General
- **Operating system/ system design**: Embedded Linux/dedicated hardware (no PC)
- **Display element**: LED: Power on, Record, Video loss, Online
- **Set-up and Firmware update**: Via local and/or remote receiver station via IP (LAN, Internet, DSL) and UMTS/3G
- **Logging**: Transmitter Station event logging of essential basic functionalities and device status
- **Operating voltage/ Power consumption**: 12-24V DC, max.10W
- **Operating voltage range**: 8-30V DC
- **Ambient temperature**: +5°C...+50°C (+41°F...+122°F)
- **Housing/ Enclosure**: Desktop and wall mounting: 116 x 85 x 137 mm (WxHxD)
- **Weight**: 1.0 kg
- **Protection class**: IP 30 according to IEC 60529, DIN 60529
- **Warranty**: 24 months
- **IntrusionTrace.h licenses**: 4 channels

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1 only with analogue cameras