

The Chainwatch XRM Video transmission series DVR's provides ruggedized long-term recording onto a removable hard disk drive for mobile applications, with many options for recording, including independent record parameters specific to each camera. Continuous recording is available as well as motion and alarmed recording, and because Chainwatch is fully Triplex, there is no restriction on simultaneous transmission, playback and live recording. Available in 4 analogue or IP cameras, for PAL or NTSC.

Features

- Suitable for public and private transport vehicles
- Compatible with remote monitoring centres
- Long-term recording onto removable hard disk with adaptive multi-track management
- Integrated Multi-Unicast server supporting multiple simultaneous network and dial-up connections
- Integrated Web server for up to 4 IP-connections, enabling video transmission and camera control on a PC/Smartphone/Handheld using standard Web browsers
- Free of charge implementation of hybrid functionality for existing transmitters via remote firmware update
- Hybrid functionality with manufacturer-neutral compatibility for analogue and IP cameras
- Camera selective resolution with up to 720 x 288 pixel and megapixel resolution with IP-cameras
- 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 video transmitters
- Data transmission via USB interface
- Camera position authentication and camera specific alarming of video loss with analogue cameras
- Event-triggered dial-up connections by alarm contact, motion detection (for analogue cameras), technical alarm, and routine call
- Manual or event-triggered connection for live video transmission from and to remote monitoring centres
- Evaluation of recordings via time/date/ text and alarm and motion searches assisted by graphical analysis
- Extensive image export functions for single images and video sequences including image authentication tool
- Up to 5 privacy zones per analogue camera, can be configured for just live or both live and recorded images
- Removable hard disk drive for offline evaluation via PC compatible USB adapter kit
- Integrated bidirectional audio transmission and recording onto removable hard disk
- Compact design, suitable for surface, flush and ceiling mounting
- 3-dimensional mounting (horizontal, vertical, sideways)
- Vibration Approval EN 50155 and "e-mark" (EMC in vehicles)



Detailed Specification

Video

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| <p>Video standard CCIR/PAL and EIA/NTSC (analogue), dependant on IP camera (digital)</p> <p>Video compression Device internal with HTcompress¹ (M-JPEG differential compression with adjustable compression factor per Camera)</p> <p>Picture formats 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.</p> | <p>Video inputs 4 or 10 x CVBS (BNC), 1 Vpp/75 Ohm with loop through outputs (auto-termination)</p> <p>Video output Camera switcher with manual, alarm and sequence control; 1 x CVBS (BNC), 1 Vpp/75 Ohm</p> <p>Motion Detection¹ Selectable per camera with adjustable detection zones for alarm transmission and event-triggered recording (HDD)</p> <p>Signal monitoring¹ Video signal monitoring (sync. and picture content) for all cameras</p> |
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¹ Only with analogue camera's

Audio (Optional)

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| <p>General Optional plugin-module (Audio Card) for bidirectional audio transmission and recording</p> <p>Audio compression SPEEX Codec, 16Bit, 80-8000 Hz</p> | <p>Audio inputs 1 x line in (0-2 Vpp, nominal 0.775 Vpp) or Mic in (electret or electrostatic microphone)</p> <p>Audio output 1 x line out (0-2 Vpp, nominal 0.775 Vpp) and 1 speaker out (1 Watt/8 Ohm)</p> |
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Transmission, Recording

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| <p>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</p> <p>MultiCast / Unicast Web server Up to 6 IP or 5 IP and 1 dial-up Connection Up to 4 IP connections via PC, Smartphone, PDA browser</p> <p>Video transmission (of Live and recorded images) Up to 25 fps via IP (LAN/WLAN, Internet, GSM, HCSD, GPRS, UMTS/3G)</p> <p>Recording speed Up to 25 fps in total depending on compression mode, image content and Bit rate</p> <p>Recording media removable 2.5" drive (250 or 500 GByte) with adaptive track management (4 or 10 tracks)</p> <p>Initiation Trigger Dry contact, built-in motion detection¹, serial command and timer based calendar</p> | <p>Privacy Zones¹ Up to 5 privacy zones per camera; options for each camera: live or live and recorded images</p> <p>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</p> <p>Recording interval Event recording: interval=0-999s and duration=1-999s separately adjustable for pre- and post alarm; recording: interval=0-999s timer controlled (event optimised recording possible) (value "0"= as fast as possible)</p> <p>Callback Automatic callback to pre-programmed receiver stations with CamControl software</p> |
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¹ Only with analogue camera's

Remote Access and Evaluation

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| <p>General features Remote access to live images, recorded images and remote setup-/maintenance and recording via receiver software</p> <p>Search criteria's Site list and camera selection with support camera, time, date, event (contact, motion¹) and graphical analysis of event and permanent recordings</p> | <p>Motion Search¹ In offline mode considering camera, detection zones, sensitivity and date/time</p> <p>Reference images Transmitter list and camera selection supported by object specific reference images</p> <p>Access protection Multiple password levels and sophisticated user management</p> |
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¹ Only with analogue camera's

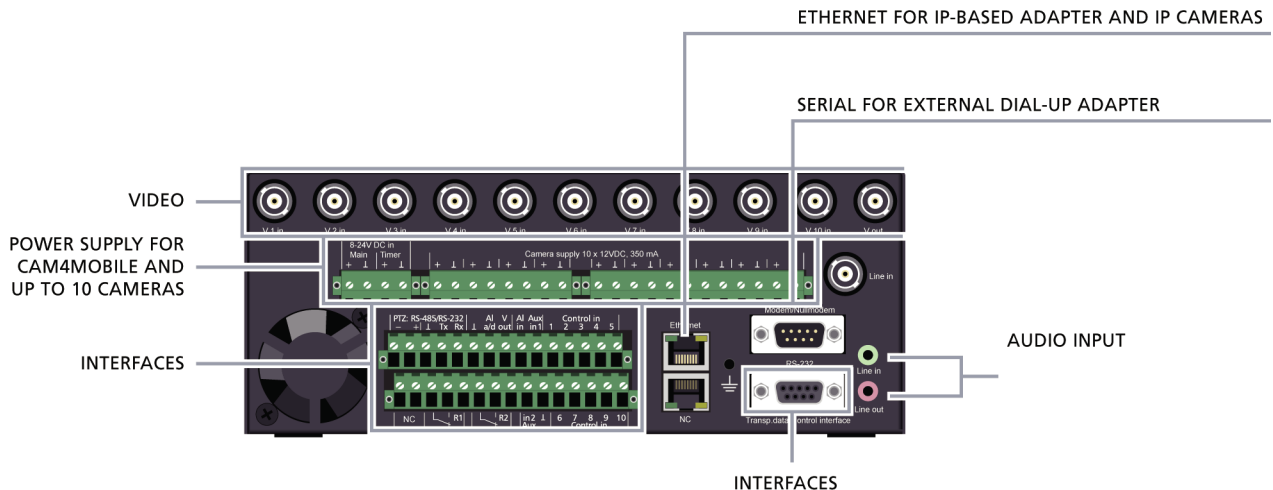
Detailed Specification

Interfaces and Adaptors

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| LAN Interface | 10/100 MBit/s built-in network adapter, RJ45 connector, DHCP, auto detection within LAN | Transparent data channel/control interface | Via onboard RS-232 interface (9 pin Sub-D) |
| USB Interface | USB 2.0 for configuration of device | Alarm inputs | 4 or 10 alarm inputs (camera related), 1 general alarm input, 1 arm/disarm and 1 tamper input (all on screw terminals) |
| Internal ISDN | Optional ISDN plug-in-module (1 B-Channel), RJ45 connector | 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 |
| External dial-up | PSTN/POTS, ISDN, GSM, HSCSD adaptors via RS-232 interface (9 pin Sub-D) | | |
| PTZ Control | Via onboard RS-232/485 (422) interface (screw/clamp) | | |

General

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| Operating system/system design | Embedded Linux/dedicated hardware (non PC) | Housing/Enclosure | 3-dimensional mounting (horizontal, vertical, sideways: 221 x 88 x 300mm *WxHxD) |
| Set-up and Firmware update | Via local and/or remote receiver station via IP, WAN and/or LAN connections | Protection class | IP 30 according to IEC 60529, DIN EN 60529 |
| Logging | Transmitter-side event logging of essential basic functionalities and device status | Approvals | CE (EN 61000-6-3, EN 55022, KI.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); BG-Prüfzert, FIDUCIA (starting from CamControl LITE 3.70) |
| Power Supply Input | 8 to 30V DC | Options | Removable hard disks, IBIS adapter, PC kit CamDisc USB, dial-uo adaptor , CamMount Kit |
| Power Output | 12V DC for 4 cameras, max power consumption 350mW per camera | Warranty | 24 months |
| Current Consump. | Typical 10W without vehicle cameras | | |
| Ambient Temp. | +5°C ... +40°C (+41°F ... +104°F) | | |
| Weight | 4.3 kg with hard disks | | |



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