

# Chainwatch

MVDR-4XR, 10XR, 4XRS, 10XRS  
Video Transmission



The Chainwatch XR / XRS Video transmission series DVR's provides long-term recording onto a removable hard disk drive with many options for recording, including independent record parameters specific to each camera. Continuous recording is available as well as motion and alarmed recording. Remote viewing is via dial up or IP connection and because Chainwatch is fully Triplex, there is no restriction on simultaneous transmission, playback and live recording. Available in 4 or 10 analogue or IP cameras, for PAL or NTSC.

## Features

- Long-term recording onto removable hard disk with adaptive multi-track management for schedule-controlled permanent and motion recording, or contact-triggered event recording
- **XRS-versions** offers real-time video recording
- 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
- Individually adjustable image resolutions up to 720 x 288 pixels and megapixel resolution with IP-cameras
- Integrated Multi-Unicast server supporting multiple IP network connections and simultaneous 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 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 video transmitters
- Camera position authentication and camera specific alarming of video loss with analogue cameras
- Integrated email client for alarming up to two email addresses
- Up to 5 privacy zones per analogue camera, configurable for live images or live and recorded images
- Precise recording of pre and post alarm images, individually adjustable to camera and event
- Event-triggered connections by alarm contact, motion detection (with analogue cameras), serial command, technical alarm, and routine call
- Perfected for alarm verification and conformity with monitoring centre applications
- Integrated interfaces for Ethernet network, PTZ control, data transmission, and system integration
- Data transmission via USB interface
- Extensive remote control functions to control lighting, barriers, alarms, doors, or any relay-controlled devices
- Compact design, suitable for desk, wall and 19" mounting
- Multi-criteria evaluation of recordings via IP and/or dial-up connection, or in offline mode, via PC caddy
- Live video transmission and simultaneous playback and recording (Triplex)
- Optional, bidirectional audio transmission and recording onto removable hard disk
- Optional camera-selective recording of cash register-/cash machine-/filling station-/access control-/scanner-data, timesynchronised with video recording



## Detailed Specification

### Video

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

### Audio (Optional)

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

<p><b>General</b> 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><b>MultiCast / Unicast</b> Up to 6 IP or 5 IP and 1 dial-up Connections          4 IP and 2 dial-up connections simultaneously</p> <p><b>Web server</b> Up to 4 IP connections via PC, Smartphone, PDA browser</p> <p><b>Video transmission</b> Up to real-time via IP (LAN/WLAN, Internet, DSL, GPRS, HSDPA, CDMA, UMTS, EDGE) and dial-up (PSTN/POTS, ISDN, GSM, HCSD)  <small>(of Live and recorded images)</small></p> <p><b>Recording speed</b> Up to 25 fps respectively real-time recording (XRS version) in total depending on compression mode, image content and Bit rate</p> <p><b>Recording media</b> removable (E)IDE drive (160, 320, 500 or 1000 GByte) with adaptive track management (4 or 10 tracks)</p>	<p><b>Initiation Trigger</b> Dry contact, built-in motion detection<sup>1</sup>, serial command and timer based calendar/Privacy</p> <p><b>Zones<sup>1</sup></b> Up to 5 privacy zones per camera; options for each camera: live or live and recorded images</p> <p><b>Recording modes</b> 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><b>Recording intervall</b> Event recording: intervall=0-999s and duration=1-999s separately adjustable for pre- and post alarm; continuous recording: intervall=0-999s timer controlled (event optimised recording possible) (value "0"= as fast as possible)</p> <p><b>Callback</b> Automatic callback to pre-programmed receiver stations with CamControl software</p>
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<sup>1</sup> Only with analogue camera's

### Remote Access and Evaluation

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

