



Hybrid video transmission with long-term recording for combined operation of up to 10 analogue and IP cameras; specifications based on the existing Chain Watch Series; makes maximum use of IP camera functions; megapixel resolutions with high-resolution IP cameras; connects up to 8 analogue cameras (in place of IP cameras) when using optional 'HYBRID Card 4' (maximum of 2 cards); recording onto integrated removable hard disk drive with system interface for external memory expansion and increased data integrity using RAID; integration of future IP cameras with regular firmware updates; low network load even when using megapixel cameras thanks to HTcompress®; separate network connections for IP cameras and system integration; input voltage range of 8 - 16 V DC (nominal Voltage 12V); built-in audio functionality; optional accessories: HYBRID Card 4, ISDN Card, PSTN Card, 19" Mount Kit (2 RU)

### Features

- Hybrid video transmission with long-term recording for mixed operation of up to 10 analogue and IP cameras
- Specifications based on established CamDisc SVR series
- Prepared for integration of current and future IP cameras from a wide range of manufacturers
- Cost-optimised hardware design thanks to optional connection of analogue cameras using HYBRID Card 4
- Support of Megapixel resolution
- Low network load even when using megapixel cameras thanks to HTcompress®
- Complete and unlimited compatibility with HeiTel receiver equipment for classical monitoring centre applications
- Manufacturer independent transmission of IP camera video streams to central monitoring stations
- Physically and functionally decoupled network connections reduce IP camera generated network load
- Recording onto integrated removable hard disk drive
- Network-based control of significant IP camera functions including PTZ function
- Network interfaces in conformity to VdS Germany to integrate within alarm systems based on the "VdS 2465 for Video" protocol
- Product design specifically developed for security applications: fast, compact and easy to integrate

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## Detailed Specification

### Video

Video standard	Dependent on IP camera; Analogue (only with HYBRID Card 4): CCIR/PAL, EIA/NTSC	Picture formats	Depending on IP camera model: from standard to megapixel; with analogue camera:
Video compression	Device internal using H264 (M)JPEG differential compression with adjustable compression factor per camera		Transmission: 720 x 288, 512 x 256, 256 x 128, 128 x 80 pixels and 16 Bit colour depth
Video inputs	Up to 10 IP cameras, simultaneous use of different models and resolutions; up to 8 analogue cameras using up to 2 HYBRID Card 4 (4 x composite input, 1 Vss/75 Ohm)		Recording: 720 x 288, 512 x 256 pixels and 16 Bit colour depth

### Audio

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

### Transmission, 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	Recording media	Removable SATA drive (500 or 1000 GByte) with adaptive track management (4 or 10 tracks)
MultiCast, Unicast	Up to 6 IP or 5 IP and 1 dial-up connection or 4 IP- and 2 dial-up connections simultaneously	Trigger	Dry contact, built-in motion detection, serial command and timer based calendar
Web server	Up to 4 IP connections via PC, Smartphone, PDA browser (additional to 5 standard connections)	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
Video transmission <small>(of Live and recorded images)</small>	Up to real-time via IP (LAN/WLAN, Internet, DSL, GPRS, HSDPA, CDMA, UMTS, EDGE) and dial-up (PSTN/POTS, ISDN, GSM, HSCSD)	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)
Recording speed	Up to 25 resp. 30 fps per camera (250 resp. 300 fps in total) at 720 x 576 (PAL) resp. 720 x 480 (NTSC) Pixel; generally dependant on compression, image content and Bit rate	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	Reference images	Transmitter list and camera selection supported by object specific reference images
Search criterias	Site list and camera selection with support camera, time, date, event (contact) and graphical analysis of event and permanent recordings	Access protection	Multiple password levels and sophisticated user management

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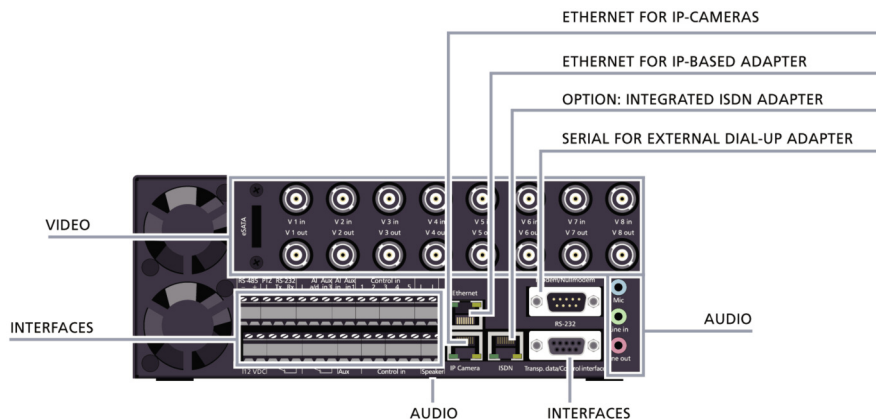
# Detailed Specification

## Interfaces and Adaptors

LAN interface	10/100 MBit/s built-in network adapter, RJ45 connector, DHCP, auto detection within LAN	PTZ Control	Via onboard RS-232/485 (422) interface (screw/clamp)
LAN interface (for IP camera)	10/100/100 MBit/s built-in network adapter, RJ45 connector, DHCP, auto detection within LAN	Transparent data (channel/control)	Via onboard RS-232 interface (9 pin Sub-D)
USB interface	USB 2.0 for configuration of the device	Alarm inputs (all on screw terminals)	4 or 10 alarm inputs (camera related), 1 general alarm input, 1 arm/disarm and 1 tamper input
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-adapters via RS-232 interface (9 pin Sub-D)		

## General

Operating system (system design)	Embedded Linux/dedicated hardware	Weight	3.8 kg with hard disks
Control & display	On-Off Switch, status LED	Protection class	IP 30 according to IEC 60529, DIN EN60529
Set-up & Firmware (update)	Via local and/or remote receiver station via IP, WAN and/or LAN connections	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); FIDUCIA
Logging	Transmitter-side event logging of essential basic functionalities and device status	Options	Removable hard disks, ISDN Card, PSTN Card, dial-up adapters, PC Kit CamDisc USB, 19" Mount Kit (2 RU), CamMount Kit, HYBRID Card 4
Power supply	External switched power supply, 100-240 V AC, 50/60 Hz, 12 V DC	Warranty	24 months
Power consumption	max. 5 A, 60 W		
Ambient temp.	+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 (WxHxD)		



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