

# CamDisc HNVR 10

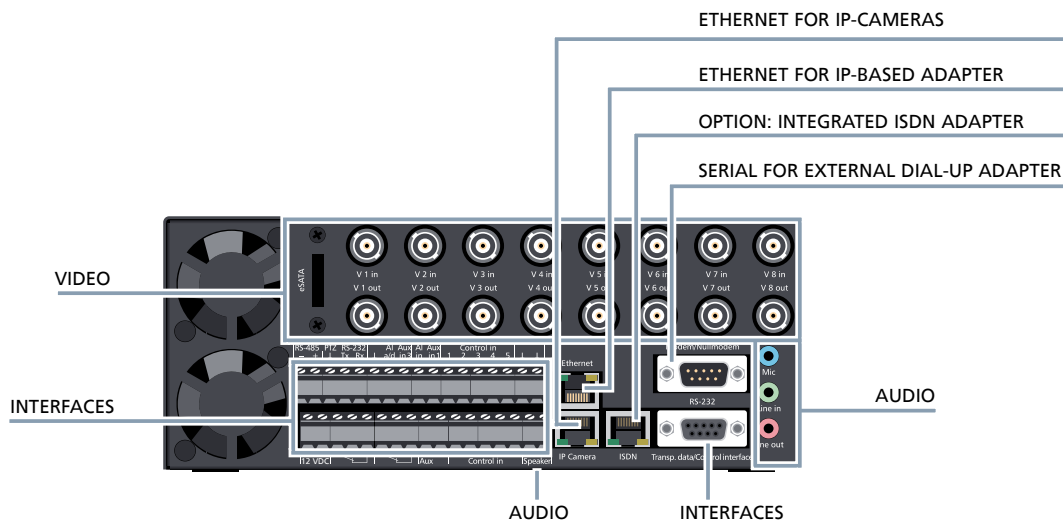


Hybrid video transmission with long-term recording for mixed operation of up to 10 analogue and IP cameras

- 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<sup>®</sup>
- 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





<b>Video</b>	
Video standard	Digital: Dependent on IP camera; Analogue (only with HYBRID Card 4): CCIR/PAL, EIA/NTSC
Video compression	Device internal using H.264 (M)JPEG differential compression with adjustable compression factor per camera
Picture formats	Depending on IP camera model: from standard to megapixel; with analogue camera: 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	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)
<b>Audio</b>	
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 electrostatic microphone)
Audio output	1 x line out (0-2 Vpp, nominal 0.775 Vpp) and 1 speaker out (1 Watt/8 Ohm)
<b>Transmission, Recording</b>	
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
MultiCast, Multi-Unicast	Up to 6 IP- or 5 IP- and 1 dial-up connection or 4 IP- and 2 dial-up 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 via IP (LAN/WLAN, Internet, DSL, GPRS, HSDPA, CDMA, UMTS, EDGE) and dial-up (PSTN/POTS, ISDN, GSM, HSCSD)
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 mode, image content and Bit rate
Recording media	removable SATA drive (500 or 1000 GByte) with adaptive track management (4 or 10 tracks)
Trigger to initiate transmission/recording	Dry contact, built-in motion detection, serial command and timer based calendar
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
<b>Remote access and evaluation</b>	
General features	Remote access to live images, recorded images and remote setup-/maintenance and recording via receiver software
Search criterias	Site list and camera selection with support camera, time, date, event (contact) and graphical analysis of event and permanent recordings

<b>Audio</b>	
Reference images	Transmitter list and camera selection supported by object specific reference images
Access protection	Multiple password levels and sophisticated user management
<b>Interfaces</b>	
LAN interface	10/100 MBit/s built-in network adapter, RJ45 connector, DHCP, auto detection within LAN
LAN interface for IP camera	10/100/100 MBit/s built-in network adapter, RJ45 connector, DHCP, auto detection within LAN
USB interface	USB 2.0 for configuration of the device
Internal ISDN adapter	Optional ISDN plug-in-module (1 B-Channel), RJ45 connector
External dial-up adapters	PSTN/POTS-, ISDN-, GSM-, HSCSD-adapters via RS-232 interface (9 pin Sub-D)
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)
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
<b>General</b>	
Operating system/system design	Embedded Linux/dedicated hardware
Control and display element	On-Off Switch, 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
Power supply	External switched power supply, 100-240 V AC, 50/60 Hz, 12 V DC
Power consumption (12 V DC)	49,2 W
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 (WxHxD)
Weight	3.8 kg with hard disks
Protection class	IP 30 according to IEC 60529, DIN EN 60529
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 (starting from CamControl LITE 3.90)
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
Warranty	24 months

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