

# 4-channel Analogue HD Video Recorder

Art. no. HDCC90000

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- Real-time recording and live display of all channels in full HD resolution (1080p)
- Recorder compatible with analogue HD and analogue cameras
- Max. transmission length via RG59/RG6 BNC cable from recorder to camera: 300/500 metres
- PTZ and OSD control as well as video transmission via BNC cable
- Smart search for easy evaluation of recordings on the recorder
- Additional memory possible via network
- Installation wizard for easy initial start-up
- Supports one SATA hard disk drive up to 4 TB
- Network connection for worldwide access
- Mobile access via the iDVR Plus / iDVR Plus HD app

## Real time control in full 1080p HD

The 4-channel analogue HD video recorder allows the recording and management of up to 4 analogue HD cameras in full HD (1080p) or 4 analogue cameras in real time. The hybrid function allows combined operation of both the latest analogue HD cameras with HD-TVI technology and conventional analogue cameras. This guarantees cost-effectiveness and return on investment, for example when converting and upgrading existing CCTV systems.

The recorder supports a SATA hard disk drive with up to 4 TB for data storage.

## Increased transmission range

A great advantage of HD-TVI technology is the line lengths across large distances that can be achieved without a reduction in quality. An HD-TVI signal (720p HD or 1080p full HD) can be transmitted in real time, for example, via a conventional RG59 cable (up to 300 metres) or RG6 cable (up to 500 metres). The range extends across both conventional analogue and HD-SDI devices. Both video and control signals such as PTZ and OSD controls are transmitted via a BNC cable.

Three analysis functions support video recordings with quick evaluation.

Smart playback: an area can be selected that only displays recordings in which movement occurs.

Trip wire: a line can be drawn that only displays recordings in which the line was crossed.

Intrusion detection: an area can be drawn that only displays recordings occurring within this area.



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Mobile access via app from anywhere in the world

The network connection of the recorder provides global access to the video image data, which can be called up at any time from any place using the free iDVR mobile app.

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## Technical Data:

Compliant with loi Sarkozy (FR only)	Yes	Recording modes	VCA (tripwire, intrusion detection), motion detection, alarm, motion detection and alarm, motion detection or alarm, time schedule, manual
Total network throughput (input/output)	128Mbit (0 Mbit / 128Mbit)	Recording duration at max. resolution and frame rate	149 hours/TB
Audio compression	G.711u	Recording duration at min. resolution and frame rate	1165 hours/TB
Audio bitrate	64 kbit/s	User levels	2
Recording bitrate	32 Kbit/s to 10 Mbit/s	Operating mode	Triplex
Recording frame rate	1/16 fps to 25/30 fps	Width	485 mm
HD-TVI video channels	4	Gross weight	4.5 kg
Dimensions	485 x 135 x 385 mm	Storage	2 x USB 2.0
Alarm inputs (NO/NC)	4	DDNS	Yes
Alarming	Acoustic warning, OSD signal, email	Total frame rate (PAL)	100
Views	1 / 4	Simultaneous network access	128 channels
Audio	Audio In: 4 x cinch (2.0 V p-p, 1000 Ω), Audio Out: 1 x cinch (600 Ω)	Hardware watchdog	Yes
Recording resolution @ frame rate per camera (NTSC)	1920 x 1080 @ 30 fps, 1280 x 720 @ 30 fps, 640 x 480 @ 30 fps, 704 x 576 @ 30 fps, 352 x 288 @ 30 fps	Height	135 mm
Recording resolution @ frame rate per camera (PAL)	1920 x 1080 @ 30 fps, 1280 x 720 @ 30 fps, 640 x 480 @ 30 fps, 704 x 576 @ 30 fps, 352 x 288 @ 30 fps	Hybrid-enabled	Yes
Live view resolution	HDMI: 1920*1080/60Hz(1080P), 1280*1024/60Hz, 1280*720/60Hz, 1024*768/60Hz - VGA: 1920*1080/60Hz(1080P), 1280*1024/60Hz, 1280*720/60Hz, 1024*768/60Hz - BNC Output: PAL: 704x576, NTSC: 704x480	Camera inputs	4 x BNC (HD-TVI, Analog CVBS)
		Length	385 mm
		Power consumption	< 15 W
		Max. operating temperature	55 °C
		Max. humidity	90 %
		Min. operating temperature	-10 °C
		Mobile access	Yes (iOS/Android: iDVR Plus, iDVR Plus HD)
		Monitor outputs	1 x VGA, 1 x HDMI
		Net weight	2.5 kg
		Network access	1 x RJ45 10/100/1000 Mbps

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## Technical Data:

Network functions	DVR: NAS saving, IP-SAN saving/recorder software: Live view, playback, data export/web interface: Live view, playback, data export, log files, settings/apps: Live view, playback
Network protocols	TCP/IP, PPoE, DHCP, DNS, DDNS, NTP, SMTP, SNMP, NFS, iSCSI, UPnP, HTTPS
PTZ protocols	ABUS-Coaxitron, PELCO-D, PELCO-P, Samsung, LG-MULTIX
PTZ control	RS-485, HD-TVI
Relay output	1 (maximum load: 12 V DC/1 A)
Tamper monitoring of video	Yes
IP protection class	20
Software	ABUS CMS Software (Windows), iDVR Plus (iOS/Android), iDVR Plus HD (iOS/Android)
DC voltage supply	12 V
Storage medium	1 x SATA HDD (max. 4 TB), 8 x network drive
Language of instructions	German, English, French, Dutch, Danish, Polish, Russian
OSD language	German, English, French, Dutch, Danish, Polish, Swedish, Russian
Control	Mouse, PC software, integrated web server

Stream 1: Recording resolution @ frame rate per camera (PAL)	1080p / 720p / VGA / 4CIF / CIF
Stream 2: Recording resolution @ frame rate per camera (PAL)	WD1 / 4CIF / CIF / QCIF / QVGA
Analog video channels	4
Total video channels	4
HD-SDI video channels	0
IP video channels	0
Video compression	H.264
Pre-alarm/post-alarm memory	0~30 sec. / 5~900 sec. s
Web server	Yes
Certifications	CE, RoHS, REACH, C-Tick