

Vectis AX4 / AX8 / AX16

Digital Video Recorder
V1.1

VANDERBILT



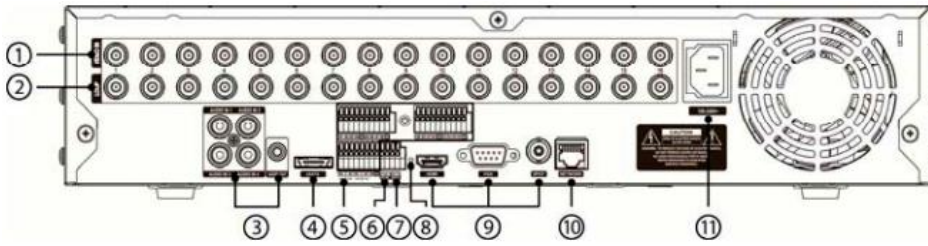
AX4 1000/100
AX8 1000/200
AX16 1000/400

Vectis AX is a stand-alone Digital Video Recorder (DVR), suitable for a wide range of applications, e.g. for petrol stations, retail outlets or public buildings. It offers installers and end-users a flexible, low-maintenance video recording system, combining fast recording and high image quality with a great deal of functionality.

Key Features include:

- Real time recording speed up to 400 ips @D1/960H (PAL) or 480 ips @D1 (NTSC)
- HDMI Monitor output delivers Full HD resolution on a suitable monitor
- Real time live video, full D1/960H resolution in Quad View mode
- Support of 960H available
- Efficient video compression using H.264 encoding
- Internal HDD capacity can be expanded from 1 TB (standard) to max. 7 TB
- 4-channel audio recording, audio playback, and 2-way audio via RAS
- Easy-to-use graphical user interface including Remote Access Software (Siemens RAS), Web Browser access and suitable APPs for iOS / Android Smartphones and Tablet PC (e.g. iPad)
- Operation and configuration locally via front buttons and mouse, IR remote controller, or remotely via Vectis RAS software
- 1 spot monitor output
- Individual authorization for groups and users
- Text input interface, e.g. to connect ATM (Automatic Teller Machine) or POS (Point of Sales) devices
- Dual encoding: Flexible transfer speed when transmitting over the network
- Time synchronization using industry standard protocol

Support of 18 languages: EN, DE, FR, ES, IT, SV, DA, FIN, NL, PL, PT, RU, CZ, TR



(picture shows: Vectis AX16; Vectis AX4 / AX8 similar)

Legend	
1	Video Input
2	Video Loop Through
3	Audio In/Out
4	eSATA Port
5	Alarm Input/Output
6	RS485 Port
7	RS232C Port
8	Factory Reset Switch
9	Video Out
10	Network Port
11	Power Cord Connector

Functionalities

■ Remote access

Various network interfaces, e.g. Ethernet or DSL, allow remote access to the system. Monitoring of live images, playback of recorded video sequences, remote configuration and upgrade, system check, and PTZ control are possible via RAS software.

Remote monitoring and playback are possible via a standard Web browser. New i-RAS APP-Software allows remote access for live viewing from iOS / Android-based Smartphones/PDAs.

■ Storing and playback of video sequences

Video sequences can be copied to the internal DVD burner or an external USB device. For the playback of the video sequences on a PC no additional software is required.

■ Secure images

Encryption code "Chained Fingerprint" enabling a solid chain of evidence prevents the images from being altered or modified.

■ Full support of D1 and HDMI

Recording with max. resolution of D1 is supported. Full HD via HDMI connection with a suitable Full HD monitor shows brilliant Quad View Live mode of operation in 4 x D1 video quality.

Technical data

Monitoring	
Signal Format	PAL or NTSC (auto detection, no mixture of signal format by separate cameras are allowed)
Video inputs	Composite: 4/8/16 looped through, BNC, 1 Vp-p, auto-terminating, 75 Ohms
Monitor outputs	1 HDMI: 1920x1080, 1440x900, 1280x1024 1 VGA: 1920x1080, 1440x900, 1280x1024, 1024x768, 800x600 1 Composite (SPOT): 720x576 (PAL) or 720x480 (NTSC)
Recording	
Compression	H.264 technology (video), ADPCM (audio)
Recording speed (ips = images per second)	Real-time: Vectis AX4: up to 100 ips @D1 (PAL), up to 120 ips @D1 (NTSC) Vectis AX8: up to 200 ips @D1 (PAL), up to 240 ips @D1 (NTSC) Vectis AX16: up to 400 ips @D1 (PAL), up to 480 ips @D1 (NTSC) 960H: max. 100/200/400 ips @960H (960 x 576, PAL) with basic quality max. 120/240/480 ips @960H (960 x 480, NTSC) with basic quality
Recording resolution	CIF, 2CIF, 4CIF, D1 (720 x 576 [PAL] or 720 x 480 [NTSC]), support of 960H technology
Recording mode	Time-Lapse, Event, Pre-Event (up to 30 min), Text-In, Panic
Playback	
Playback speed (images per second)	Full Duplex: Vectis AX4: up to 100 ips @CIF (PAL), up to 120 ips @CIF (NTSC) Vectis AX8: up to 200 ips @CIF (PAL), up to 240 ips @CIF (NTSC) Vectis AX16: up to 400 ips @CIF (PAL), up to 480 ips @CIF (NTSC) 960H: max. 67 ips @960H (960 x 576, PAL), max. 80 ips @ 960H (960 x 480, NTSC)
Search mode	Date/Time, Calendar, Event, Motion, Museum, Text-In, Record Table
Inputs/Outputs	
Audio inputs	4 line in, level RCA
Audio output	1 line out, level RCA
Alarm inputs	4/8/16 TTL (NC or NO), 2.4 V (NC) or 0.3 V (NO) threshold, 5 V DC
Alarm outputs	2 relay outputs, terminal blocks, programmable as NC or NO, 2 A @125 V AC, 1 A @30 V DC
Alarm reset input	1 TTL, terminal block
Internal Buzzer	80 dB at 10 cm distance
Text Input	POS interface, ATM interface via serial interface RS232C or RS485
Network	10/100 Mbps, 1 Gbps, Ethernet RJ-45
Auxiliary inputs/outputs	RS232C, RS485, 2 x USB 2.0, 1 x eSATA
Interfaces	Front buttons, IR remote controller or optional with mouse or CCTV remote keyboard
User administration	64 groups, 256 users/groups (access right programmable per group)
System	
Operating system	Embedded Linux Version 3.x (built-in flash memory)

Supported GUI languages	English, German, French, Italian, Spanish, Swedish, Danish, Finnish, Dutch, Polish, Portuguese, Russian, Czech, Turkish
Primary Storage	4 x SATA internal interface: 1 x 1 TB used for system & operation (already installed) 1 x internal DVD drive (already installed) 2 x SATA interfaces (not used) → extensible with 1 TB or 2 TB or 3 TB SATA HDD extension kits
Secondary Storage	Backup recording media: Built-in DVD burner eSATA Storage Tank with up to 4 HDD (max. 12 TB capacity) USB (hard disk drive, flash memory)
Disk management	Temperature check, SMART diagnosis, auto database recovery, operation without hard disk drive, auto deletion

Specifications

Power requirements	100 to 240 V AC, 1.2 ~ 0.6 A, 50/60 Hz
Power consumption	Max. 75 W
Ambient temperature, operating	5 – 40 °C
Relative humidity	0 – 90 %, no condensation
Version	19-inch rack (mounting material included), 2 HU (Height Units)
Dimensions (W x H x D)	430 x 88 x 405 mm / 540 x 290 x 590 mm *
Approvals	CE, CB, FCC, UL, KCC, RoHS2, LGC Forensics (Kalagate) and UVV Kassen (in preparation)
Contents of included CD	Vectis RAS software module for usage with Vectis AX, HX and SISTORE AX DVR systems : <ul style="list-style-type: none"> ➤ Live images of up to 64 cameras in total ➤ Playback of up to 64 recording channels ➤ Configuration of all connected DVRs and cameras ➤ PTZ control and managing of events Browser application Web Client to operate in the same manner as with Vectis RAS Recommended Client PC for both software applications : <ul style="list-style-type: none"> ➤ Intel based Standard PC up from Pentium or higher (multi core CPU) ➤ 2 GB RAM or more , 500 GB hard disk or more ➤ VGA : 32 MB or more (1024x768, 24 bpp or higher) ➤ Win 7 or Win 8.x All product manuals in the languages as mentioned above (as available)

Details for ordering

Type	Part no	Description	Weight*
Vectis AX4 1000/200	V54569-C108-A100	Vectis AX4 DVR, 1TB 100 ips, DVD, 4 ch.	10,1 kg
Vectis AX8 1000/200	V54569-C109-A100	Vectis AX8, DVR, 1TB 200 ips, DVD, 8 ch.	10,1 kg
Vectis AX16 1000/400	V54569-C110-A100	Vectis AX16, DVR, 1TB 400 ips, DVD, 16 ch.	10,1 kg
Vectis external Storage Tank	V54569-C100-A3	Vectis HX ACC, Storage Tank, max. 4 HDD	8,14 kg
1 TB HDD extension kit	V54569-B6-A4	SISTORE AX/MX/Vectis HX Acc, 1TB	1,5 kg
2 TB HDD extension kit	V54569-B6-A5	SISTORE MX / Vectis HX Acc, HDD Kit 2TB	1,5 kg
3 TB HDD extension kit	V54569-B6-A6	SISTORE MX / Vectis HX Acc, HDD Kit 3TB	1,5 kg

*Device incl. packing material, documentation and accessories that are included in the delivery

