



Hybrid Digital Video Recorder Vectis HX



Vectis HX0808 1000/300
Vectis HX1616 3000/500

V2.0

Vectis HX has been designed and engineered with the next generation of hybrid technology in mind. By bridging the technological division between analog and IP surveillance capabilities, the Vectis HX has the ability to provide crisp, full HD display clarity, whilst maintaining high, feature-rich performance.

- Hybrid monitoring and digital video recording for up to 16 analogue and 16 IP cameras
- Supports basically the new range of Siemens IP cameras with ONVIF (up from ONVIF version 1.02.4)
- Superior H.264 recording performance with high quality image and lower bit rate
- Recording speed up to 400 images per second(analogue) at 4CIF resolution and up to 100 images per second(IP) at 2MP
- High image quality with up to 4CIF recording for analogue cameras and up to 2 Megapixel for IP cameras (dependent on camera model)
- Full HD display via HDMI, VGA with 16:9 native resolution and 2 additional VGA display via VGA, composite
- Graphical user interface for intuitive operation, reduced training needs and enhanced productivity
- Pentaplex operation (simultaneous display, recording, playback, network and archiving)
- Massive storage capacity available with internal maximum 5 HDDs and future expansion via eSATA or iSCSI in preparation
- Powerful search capabilities using timeline, event/motion, date/time, calendar and ATM data
- Simultaneous search of up to 16 cameras locally and remotely over LAN
- Configurable pre-alarm recording per camera enhances functional flexibility
- Intelligent motion detection individually configurable for each camera
- PTZ control for dome and pan-and-tilt units possible from Siemens RAS, Vectis HX Software and Vectis HX Keyboard
- Multi-client function for access of up to 10 clients to one Vectis HX
- Bandwidth control for remote viewing over low-bandwidth connections
- Watchdog function to ensure safe and reliable operation
- Interface connection to CDM(ATM) or POS via LAN, RS232 and RS485
- Various remote client application including Siemens RAS, Web Client, Vectis HX Software and mobile software such as iPhone, iPod Touch, iPad, Android systems and Windows mobile units
- Siemens RAS software is able to interoperate with Vectis HX and / or SISTORE AX recorders up from now. The total amount of visible live streams are 64 cameras, independently if they are managed by Vectis HX or SISTORE AX recorders

Functionalities

■ Display mode

The display mode is the unit's normal operating mode. In addition to live images displayed from selected cameras, all events such as loss of video and alarms are logged and reported in an easy to use overview screen.

■ Playback mode

The playback mode is used to review recorded video footage. Vectis HX allows flexible and precise searching for specific events to quickly find the required video footage. The HX has pentaplex capability so playing back footage does not affect either live view or recording speed. Archiving of video footage is possible via standard USB devices or the internal DVD burner.

■ Configuration mode

Configuration mode is used for the following operations:

- Administration of user rights
- Configuration of the analogue and digital (IP) cameras including brightness, contrast and colour saturation, as well as digital inputs and outputs and serial inputs
- Camera parameter settings for motion detection, alarm contracts, signal outputs and other events related options
- Network parameters including bandwidth control

■ Technical data

Recording speed	16 channel models: 400 ips (analogue) @4CIF / 100 ips (digital) @2MP 8 channel models: 200 ips (analogue) @4CIF / 100 ips (digital) @2MP individually configurable for each camera
Video inputs	8/16 analogue, 1 Vp-p, auto-terminating, 75 Ohms 8/16 IP camera inputs via network
Video outputs	Primary Monitor - HDMI: 1 HDMI - VGA: 1 - Composite: 1 BNC, 1 Vp-p, 75 Ohms Secondary Monitor - VGA : 1 - Composite : 1 BNC, 1 Vp-p, 75 Ohms SPOT: 1 BNC, 1 Vp-p, 75 Ohms
Supported IP cameras	Actually only the new range of Siemens IP cameras is fully supported. These models are: CxMx1025, CxIS1425, CxMx2025, CCID1445-DN18/28/36
Supported resolutions	<u>In general:</u> analogue CIF / 2CIF / 4CIF, IP cameras: VGA, 1 MP, 2 MP = max. 2 megapixels depending on the camera <u>In details:</u> 352x240 / 352x288 / 640x480 / 704x240 / 704x288 / 704x480 / 704x576 / 800x600 / 1280x720 / 1280x960 / 1280x1024 / 1920x1080
ONVIF compatibility	The currently released Siemens IP cameras are certified according to the ONVIF specification, version 1.02.4. The goal of ONVIF is to standardize video components to a large extent. Please note, however, that there is no guarantee that the integration will work, even if all the products used are ONVIF-certified. This applies to ONVIF-certified products from all manufacturers, including the currently released cameras. When planning systems that comprise products from outside manufacturers, the compatibility of these products needs to be investigated first.
Video standard	PAL or NTSC (auto-detect)
Compression	H.264
Audio inputs	RCA Input: 8 or 16 Line In
Audio outputs	RCA Output: 1, Line Out
Network connections	10Mbps/1Gbps Ethernet (RJ-45)
Alarm inputs	8 or 16 terminal, programmable as NC or NO, 2.4V (NC) or 0.3V (NO) threshold, 5VDC
Alarm outputs	4 relay output, programmable as NC or NO, 2A@125VAC, 1A@30VDC
Alarm reset input	1 TTL, terminal block

Internal buzzer	80dB at 10cm
Interfaces	1 x RS485 / 1 x RS232 / 2 x USB 2.0 / 1 x HDMI / 2 x VGA / 2 x Composite / 1 x iSCSI / 1 x eSATA / 1 x RJ45 (for IP network)
Usage of eSATA interface	- foreseen for storage tanks (hard drive unit with several plugged-in HDD's) - the external hard drives will be used in the same manner as the internal drives and do increase the total amount of hard drive capacity - external drives are not able to use the integrated RAID1 function of the Vectis HX unit - the eSATA interface will be supported earliest up from phase_2 market release
Usage of iSCSI interface	- actually not supported by Siemens FSS SP - usage for iSCSI storage devices will be decided within phase_2 market release
Hard disk capacity	Max. 5 hard disks SATA (actually 1 TB each, later-on >1 TB each) in case of not using eSATA port interface Max. 4 hard disks SATA (actually 1 TB each, later-on >1 TB each) in case of using eSATA port interface
Internal RAID	Optional setting within configuration Type of RAID = RAID1 (mirror function of two internal hard disks) Remark: if 2 * 1 TB HDD are fitted and RAID1 function is activated only 1 TB data capacity can be used for recording purposes
Backup recording media	Network / USB / DVD burner
Display resolution	Max. 1920 x 1080
Playback	Individual images, forward/backward, pause (frozen image)
Image search	By means of date, time, camera number, recording event, logbook, event/motion, text-in
Language, selectable	German, English, French, Italian, Spanish, Czech, Danish, Finnish, Polish, Portuguese, Russian (in preparation), Swedish, Turkish
Approvals	CE, UL and C-Tick available / Kalagate, SI, FI and UVV in preparation
Power supply	100 to 240 VAC, 2.0 – 1.0 A, 50/60Hz
Ambient temperature, operating	5°C to 40°C (41°F to 104°F)
Relative humidity	0% to 90%
Design variants	19", 2 RU
Dimensions (W x H x D)	430mm x 88mm x 490mm (16.9" x 3.5" x 19.3")
Contents of included CD	Siemens RAS software module for usage with Vectis 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 Siemens RAS Recommended Client PC for both software applications : <ul style="list-style-type: none"> ➤ Intel based Standard PC up from Pentium IV 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 (32 bit) or Win XP SP3 (32 bit) All product manuals in the languages as mentioned above (as available)

■ Details for ordering

Type	Part no	Designation	Weight*
Vectis HX0808 1000/300	S54569-C100-A2	Vectis HX0808 HVR, 1000GB, 300ips	Approx. 14kg
Vectis HX1616 3000/500	S54569-C100-A1	Vectis HX1616 HVR, 3000GB, 500ips	Approx. 14kg

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

Further products and accessories can be found in the Internet: www.siemens.com/securityproducts/int > Downloads.

The information in this document contains general descriptions of technical options available, which do not always have to be present in individual cases. The required features should therefore be specified in each individual case at the time of closing the contract.

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