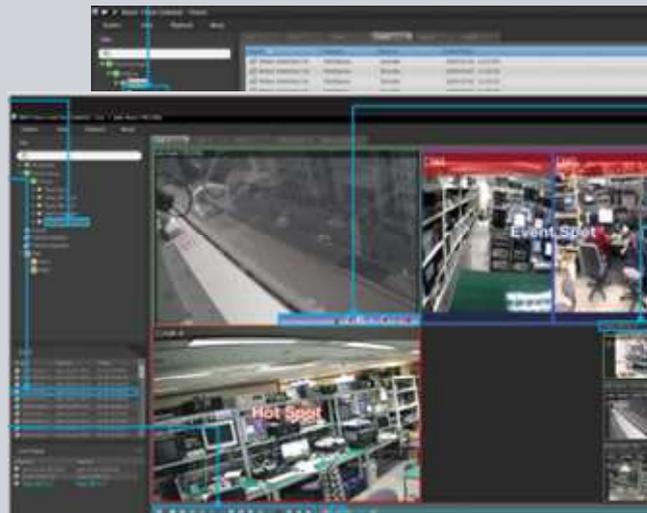# Software for Network Video Recording System Vectis HX Software

V2.0

Vectis HX NVS SW 8
Vectis HX NVS SW 16
Vectis HX NVS SW 32
Vectis HX NVS SW 64

Vectis HX software is a fully integrated, scalable network video surveillance package that is designed to be used with network cameras, video transmitters and digital video recorders. With Full HD capability, ONVIF support and H.264 streaming, Vectis HX is designed to control, monitor, record and playback network video streams seamlessly.

- Remote monitoring of live images in multiple Client systems via the network
- Up to 64 simultaneous IP camera connections
- Remote software upgrades and system setup
- ONVIF IP-Standard Protocol implementation for the support of network cameras from Siemens (3rd party manufacturers at a later stage)
- Available compression modes: H.264, MPEG4 and MJPEG
- Compatible with Windows 7 (working as 32-bit application in 32-bit or 64-bit Operating System)
- Purpose built video database file system for storing captured video data
- Map monitoring of live images
- Bi-directional audio communication and recording
- Intelligent, centralised system operation and management for efficient event handling
- Comprehensive, intuitive graphical user interface and logical menu setup ensure training requirements are minimal
- Enhanced security
- Remote viewing software allows immediate secure access to the system over a network

Answers for infrastructure.

SIEMENS

Functionalities

■ **Administration Service**
Manages information of other systems, devices, users and schedules for operating Vectis HX software.

■ **Monitoring Service**
Provides notification of both live, and recorded events that have been detected at the registered device in the Client system.

■ **Streaming Service**
Simultaneously streams images from connected devices to multiple client systems.

■ **Recording Service**
Pre-configured or instant recording of video transmitted from the network video device (i.e. IP camera).

■ **Video Analytics Service**
Enables video analytics functionality including loitering, as well as removed object detection.

■ **Vectis HX Client Software**
Live video monitoring, camera control, searching recorded video, data export, event handling, built-in map operation.

■ **Technical data**

Recording speed	Min. 100 ips overall, max. rate of ips is dependent on the PC model (for System Requirements see below) individually configurable for each camera
Video inputs	8 – 64 IP camera inputs via a network, (dongle for 8 / 16 / 32 / 64 channel version available), support for ONVIF protocol (version 1.02.4)
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
Video outputs / multi monitoring	Primary Monitor of PC (HDMI, DVI or VGA depending on PC in use) Secondary Monitor depending on the type of graphic card inside the PC model (support of up to 4 monitors is possible)
Audio inputs / outputs	Over IP / Line Out of PC
Alarm inputs	Optional module for 8 or 16 terminal, programmable as NC or NO → **not supported yet**, function is planned for a later version
Video standard	PAL
Server cascadable	Yes, to 1 ADMIN server, 63 sub-servers can be registered. The maximum cascadable cameras 4 x 64 = 256 cameras (this depends to the installed USB dongle to each server)
Access to server installation	Simultaneous access from up to 64 Clients to one server
Resolution	IP-cameras: max. 2 megapixels depending on the camera
Compression	H.264, MPEG-4, MJPEG
Network protocols	RTP, RTSP, UDP, TCP
Backup recording media	Depending on the PC model, at least Network / USB / DVD burner
Playback	Individual images, forward/backward, pause (frozen image)
Image search	By means of date, time, camera number, recording event, logbook, motion/museum, text-in
Language, selectable	English, German, French, Italian, Spanish and Czech, Dutch, Polish, Portuguese, Russian (Danish, Finnish, Swedish, Turkish in preparation)
Security & Authentification	Enhanced security using the SSL function and by setting up multiple user groups with different levels of user rights for each
Quality of Service (QoS)	Not supported yet
Certificates / Approvals	No dedicated approvals
Encrypted export of recordings	Yes, chained fingerprint
PTZ control	Yes, in the software by Graphical User Interface (GUI). Support of the Vectis HX IP Keyboard will be available in a later version.
Sabotage control for each camera	This is handled not by software, but by camera.

Motion detection for each camera	This is handled not by software, but by camera

Intelligent Video Sensors / Software specification	The number of devices that can be supported for each option are as follows:
	■ Camera Registration for a standalone software package (up to 64 cameras): monitoring service, streaming service, video analytics service and recording service is supported depending on its license and server system
	■ Device Registration: Maximum of 1,024 devices
	■ Recording (not supported for DVRs): Maximum of 8 to 64 channels depending on the type and number of connected WIBU-Key licenses
	■ Streaming: The number of channels that can be streamed equals the number of channels that can be recorded
	■ Video Analytics: Up to 8 channels per video analytics service are available. These include:
	    ▪ Trip Zone
	    ▪ Left Object Detection
	    ▪ Removed Object Detection
	    ▪ Loitering Detection

Limitations	■ Max. number of users = unlimited ■ Max. number of user groups = unlimited ■ Max. number of clients to one server = 64 ■ Max. number of device registration = 1024 ■ Max. number of supported cameras = dependant to the used Dongle → 8, 16, 32 and 64 ■ Max. manageable storage capacity per server = 50 TB
Minimum Hardware requirements for Server system	■ Operating system: Microsoft® Windows® XP x86 (32 bit) (Home Standard, Business, Ultimate, Enterprise), Microsoft® Windows® 7 x86 (32 / 64 bit) (Home Premium, Professional, Ultimate), Microsoft® Windows® Server 2003/2008 ■ CPU: Intel Core II Quad 8200 2.33 GHz/Intel Xeon 3.0 GHz or faster ■ RAM: 2GB or more ■ VGA: ATI RadeonTM HD 2400 or NVIDIA GeForce FX5500 (ATI recommended) (1024x768 till 1920x1080, colour depth 24bpp or higher) ■ Hard disk drive: 5 GB or more of free space are required for each service (for example, 10 GB or more of free space is required when installing administration and monitoring services) ■ LAN: Gigabit Ethernet or faster
Minimum Hardware requirements for Client system	■ Operating system: Microsoft® Windows® XP x86 (32 bit) (Home Basic, Business, Ultimate, Enterprise), Microsoft® Windows® 7 x86 (32 / 64 bit) (Home Premium, Professional, Ultimate) ■ CPU: Intel Core II Quad 8200 2.33 GHz or faster ■ RAM: 2GB or more ■ VGA: ATI Radeon HD 3650 or NVIDIA GeForce 8400GS (ATI recommended) (1024x768 till 1920x1080, colour depth 24bpp or higher) ■ Hard disk drive: 350 MB or more free space ■ LAN: Gigabit Ethernet or faster

Details for ordering

Type	Part no	Designation	Weight*
Vectis HX NVS SW 8 cameras	S54569-P851-A1	Vectis HX software for usage with 8 IP cameras	Approx. 0.2kg
Vectis HX NVS SW 16 cameras	S54569-P851-A2	Vectis HX software for usage with 16 IP cameras	Approx. 0.2kg
Vectis HX NVS SW 32 cameras	S54569-P851-A3	Vectis HX software for usage with 32 IP cameras	Approx. 0.2kg
Vectis HX NVS SW 64 cameras	S54569-P851-A4	Vectis HX software for usage with 64 IP cameras	Approx. 0.2kg

* 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**

Siemens AG
Siemensallee 84
D-76187 Karlsruhe
Tel. +49 721 595 1

www.siemens.com/securityproducts/int