

# Vectis iX NVS 8/16/32/48/64

Network Video Software



## Introduction:

The new Vectis iX NVS is a powerful network video software that supports network-based video monitoring and recording of up to 64 IP cameras. Vectis iX NVS Network-Video Recording software delivers a unique combination of industry leading performance and unrivalled compatibility. Allowing connectivity to more than 1000 camera models using combined ONVIF and SDK compatibility.

Available in software licenses ranging from 8 to 64 channels, it's very powerful speed and performance enables you to capture greater detail than ever before. Recording full-HD images from up to 64 cameras simultaneously at 25 frames per second (depending on PC performance) and supporting resolutions of up to 20 megapixels.



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## Key features include:

- ✓ Network-based video monitoring and recording for 8/16/32/48/64 IP cameras
- ✓ Total recording throughput of up to 288Mbit/s
- ✓ Supports resolution of up to 20 megapixels
- ✓ Conforms to ONVIF profile S
- ✓ Regular Device Packs for more camera support without performing a major update
- ✓ Analytics: motion detection, e-Fence and people counting
- ✓ Time sector engine for immediate recording and playback
- ✓ Backup footage to external storage via automated tasks
- ✓ Common GUI throughout the entire Vectis iX range
- ✓ Dual monitor, full-HD real-time display depending on graphic card performance.
- ✓ Adaptive Video Streaming to significantly increase display performance while decreasing network bandwidth using camera sub stream with lower resolution
- ✓ Optional Text input interface, e.g. to connect ATM (Automatic Teller Machine) or POS (Point of Sales) devices
- ✓ Banking Specific Features like 4 eye principle, picture comparison and track length limitation
- ✓ Free remote client software Vectis iX128 RAS included with dual monitor support

### ✓ Support of megapixel recording

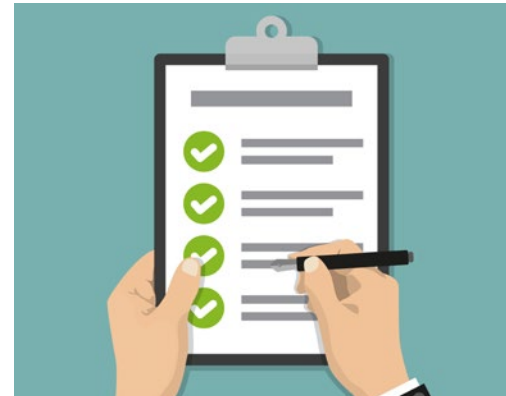
Vectis iX NVS supports IP camera resolutions of up to 20 megapixels. Megapixel recordings contain more detailed information – useful when using the integrated digital zoom feature either live or in playback.

### ✓ Network-based video monitoring and recording for 8/16/32/48/64 IP cameras

The Vectis iX NVS range supports network-based video monitoring and recording of up to 8/16/32/48/64 IP cameras.

### ✓ Free remote client software

The free Vectis iX128 RAS comes with basic viewing functionalities and can be used in conjunction with the Vectis iX range to analyse and view video recordings across a LAN/WAN of up to 128 channels on 1 or 2 monitors.



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## ✓ Video Analytics

Vectis iX range includes analytic algorithms such as people counting, e-fence, object appear/disappear, motion detection and region of interest. The event based recording reduces the required hard drive usage so only the relevant data is stored.

## ✓ Multiple Alarm Notifications

Alarm notification by Pop-Up, E-mail and digital I/O triggered by video loss, sensor, HDD crashed, system crashed, abnormal transaction, e-fence, video motion detection. External digital I/O devices supported via ModBus protocol.

## ✓ Full HD real-time display on dual monitors

Advanced software features offer powerful performance, video recording and display, including 16 Full-HD streams on dual monitors

### Technical Details:

Type	Vectis iX08 / iX16 / iX32 / iX48 / iX64 NVS
Network Protocols	TCP/IP ,UDP, HTTP, HTTPs, SMTP,SNMPv3, DNS, DHCP, NTP, ARP, ICMP, FTPc, FTPs, DDNS, RTP (RTCP, RTSP), IGMPv3, UPnP, CIFS, NFS, IEC802.1x
Watchdog	Software Watchdog
System Update	Supports NVS Software Update
IP Camera License	8, 16, 32,48, 64 licenses supported
Recording Resolution	D1~20 Megapixel
Video Codec	H.265, H.264+, H.264 High Profile, MPEG4, M-JPEG, MxPEG
Audio Codec	Two-Way Audio, G. 711, G.726, AAC
Streaming Type	Unicasting, Multicasting
Onvif Supports	Onvif 2.6, Profile-S
Max Total Storage Supported	800 TB (Internal + External Storage)



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## Global-Features:

	Vectis iX08 / iX16 / iX32 / iX48 / iX64 NVS
Configurations	Configurations of NVS, Camera, Event, Alarm, Device, Digital I/O, etc.
User Authority	Export Video Clip, PTZ Control, Live View, Playback, Alarm Search, Configuration, Remote System Control, etc.
Recording Mode	Full Time Recording, Recording by Schedule, Event, Alarm, Motion Detection
E-map	Mapping Cameras and DI/DO Points, Map with multiple layer (HTML knowledge required)
PTZ Control	PTZ Control, Preset Point, Patrol, Digital PTZ
Display Pattern	1, 2, 3, 4, 5, 6, 8, 9, 12, 13, 16, 18, 24, 25, 36, 48, 64
Viewing Operation	Panoramic View & ePTZ control, ROI (Region of Interest), Tour
Video Search	Time, Event, Alarm
Synchronous Playback	up to 16ch
Video Playback	Time Slider Control Panel (Forward, Backward, Speed Control, Sync. Playback)
Video Export	Video Export via USB (Supports .mkv, .avi and .ava Format), Digital Watermark
Intelligent Search (Replay)	Missing Object (Object take away), Foreign Object (Object left behind)
Intelligent Video Analytics (Realtime)	E-fence, Video Motion Detection, People counting on multiple channels (240fps @D1 or 72fps@2MP with Minimum system requirements)
IVA channel limitations	<p>The number of analyzed channels is depending of the CPU load. The available CPU power is also limited by local live viewing, video recording or other tasks in the background. The CPU load should not be more than 70% on the NVR/NVS locally. For the NVS system the limitation is based on the used CPU; the better (e.g. Intel i7 CPU) and faster (&gt; 3 GHz) the more channels can be analyzed simultaneously.</p> <p>Therefore, the following recommendations should be taken into account:  Vectis iX NVS 8/16/32/48/64  Based on CPU power, overall not more than 8 channels</p>
Event Log	Event logs of System, Cameras, User, etc.
Alarm Event / Search	Video Loss, Sensor Triggered, HDD Crashed, System Crashed, Abnormal Transaction, E-fence, Video Motion Detection
Alarm Notification	Pop-up, E-mail, DI/DO, Trigger Recording
Alarm In / Alarm Out	Support of optional external DI/DO modules via Modbus Protocol (Master, Slave) Recommended product: Supplier MOXA, type E3210 I/O Mirror
APP Client	iOS (iPhone, iPad), Android; supporting live, playback, PTZ and push notification
Client Software	Vectis iX CMS, Vectis iX128 RAS
Supports Client Numbers	16 CMS links per NVS device. Max. Live Session: 112 Max. playback Session: 16 Max. Mobile Client Streaming (fps): 140
POS License	8 x POS or ATM license per NVR included (requires optional POS or ATM-Box)
POS Integration	Integration via POS Editor using optional external POS-Box, POS box communicate with NVR via network and with POS machine with DB-9 connector, Y-cable and RS232 protocol. Recommended POS Box reference: Moxa NPort 5110
ATM Integration	Connection to ATM using optional external Box (NPCII from SHL Systems) Recording of ATM transaction data incl. search and filter features
Live View	Live Viewing with POS Transaction or ATM data
Search / Playback	Time, Item (Keyword), Price with Transaction data and Video
Abnormal Transaction	Alarm Rule (Item, Value), Alarm Pop-up, Alarm Search

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## Minimum system requirements:

Vectis iX128 RAS (free software for NVR/NVS)	
CPU:	Pentium Intel Dual Core 2.4GHz or above
RAM:	2GB at least
Operation System:	Windows 7, 8, 10 (32 & 64 bit) (required Admin rights to operate)
Display:	DirectX3D support, Minimum resolution 1280X1024, recommended 1920X1080
Free HDD space:	1GB free HDD space or more recommended

Vectis iX NVS	
CPU:	Intel Core i5, recommended i7
RAM:	8GB or more
Operation System:	Windows 7,8, 10 (32 & 64 Bit), Server 2008/2012 (64 Bit)
Display:	DirectX3D support, min. 512 MB Graphic memory Minimum resolution 1280X1024, recommended 1920X1080
Data Hard drives:	1*1 TB HDD per 8 Video channels Max. Storage capacity per Server = 16x 10 TB = 160 TB (Without usage of external storage devices)
LAN:	Gigabit Ethernet

## Ordering Information:

Type	Part. No.	Description	Weight*
Vectis iX08 NVS	V54569-P101-A100	Vectis iX08 NVS, Software 8ch	Approx. 750g
Vectis iX16 NVS	V54569-P102-A100	Vectis iX16 NVS, Software 16ch	Approx. 750g
Vectis iX32 NVS	V54569-P103-A100	Vectis iX32 NVS, Software 32ch	Approx. 750g
Vectis iX48 NVS	V54569-P104-A100	Vectis iX48 NVS, Software 48ch	Approx. 750g
Vectis iX64 NVS	V54569-P105-A100	Vectis iX64 NVS, Software 64ch	Approx. 750g

## Central Management Software Vectis iX CMS

For remote control and display of Vectis iX NVR and Vectis iX NVS, the Vectis iX range includes a performant Central Management software CMS that supports single- and multisite applications. For further details please refer to the separate CMS datasheet.

Type	Part. No.	Description	Weight*
Vectis iX128 CMS	V54569-P107-A100	Vectis iX128 CMS, Mgmt. SW 128ch	Approx. 750g
Vectis iXUN CMS	V54569-P108-A100	Vectis iXUN CMS, Mgmt. SW 600ch*	Approx. 750g

\* Vectis iXUN CMS basically supports unlimited IP channels, but any usage above 600 channels requires mandatory involvement of Vanderbilt or qualified partner for technical support to approve overall system architecture.

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