Vectis iX 128/UN CMS

Central Management Software - DATASHEET

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Vectis iX128 CMS
Vectis iXUN CMS

Vectis iX CMS, a Centralized Management Client Software platform, manages up to 600 channels and displays up to 112ch real-time video on 4 monitors.
Vectis iX CMS enables to use and manage all NVR/NVS main functions on the Client PC remotely.
Vectis iX CMS is reliable and suitable for large scale projects, including government buildings, offices, factories, campuses, hotels, banks, retail chain stores, shopping malls, etc. (depending on PC performance) and is supporting IP camera resolutions of up to 20 megapixel.

Key features include:

- Centralized Video Management installed on a suitable Client PC
- Allow remote main functions of connected Vectis iX NVR/NVS systems
- Enables live viewing with PTZ function or replay of recordings from recorder systems SISTORE CX and MX 3G
- Up to 112 channel real-time display
- Manages over 600 channels via max. 64 Vectis iX NVR / Vectis iX NVS units
- Smooth video with exclusive Video Playout Control
- Integrated IVA functions and POS management of the NVR / NVS on-site can be used remotely by Vectis iX CMS Client PC
- Powerful Alarm Management
- Quad monitor support
- Vectis iX-KB supported ; Keyboard with joystick and function keys (V54561-C105-A100)

■ **Manages over 600 channels**
Vectis iX CMS can handle 128~600 channel video via different kinds of locally installed Vectis iX NVR / NVS units (max. 64).

■ **Up to 112 channel real-time display**
Vectis iX CMS creates powerful performance video for 112ch real-time display on 4 monitors.

■ **Vectis iX-KB support**
Vectis iX CMS support the keyboard Vectis iX-KB, for easy video playback control, fast pan & tilt operation and powerful switching of Cameras & Monitors.

■ **Smooth Video with exclusive Video Playout Control**
Built-in exclusive Video Playout Control technology that enables smooth video and limiting of video quality degradation for different or unstable network conditions.

■ **Compatible with recorders SISTORE CX & MX 3G**
Integration of the exclusive VSS_SDK interface in Vectis iX CMS for viewing live or recorded images from SISTORE CX & MX 3G recorders. PTZ functions are also available.
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■ **Integrated IVA Functions and POS management**
Vectis iX CMS manages different POS machines via Vectis iX NVRs/NVSs, that's suitable for retail chain stores. The Vectis iX CMS also combines remotely with IVA functions of the NVR/NVS such as Motion, E-fences, People counting, Missing object and foreign object for more analyses.

■ **Powerful Alarm Management**
Alarm notification by Pop-up, E-mail, Digital I/O (Modbus Support) when video loss, sensor triggered, HDD crashed, system crashed, abnormal transaction, e-fence, video motion detection, etc.

Technical Details

Type	Vectis iX128 CMS, Vectis iXUN CMS
Operation System (OS)	Windows® 7 / 8.x (64 Bit), Windows® Server 2012 / 2008 (64 Bit)
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
IP Camera License	128 and 600 (UN **) camera licenses supported
Video Codec	H.264 High Profile, MPEG4, M-JPEG, MxPEG
Audio Codec	Two-Way Audio, G. 711, G.726, AAC
Streaming Type	Unicasting, Multicasting
Global-Features	
General	**Some of the below features are performed by NVR / NVS but are managed / displayed on Vectis iX CMS**
Configurations	Configurations of NVR/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.
E-map	Mapping Cameras and Digital I/O Points, Map with multiple layer.(HTML knowledge required)
PTZ Control	PTZ Control, Pre-set Positions, Patrol, Digital PTZ
Display Pattern	1, 2, 3, 4, 5, 6, 8, 9, 12, 13, 16, 18, 24, 25, 36, 48, 64 [1st monitor with up to 64 channels, 2nd – 4th monitor with up to 16 channels]
Viewing Operation	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 .avi and .ava Format), Digital Watermark
Intelligent Search (Replay)	Missing Object (Object take away), Foreign Object (Object left behind)
Intelligent Video Analytics (Real-time)	Intelligent Video Analytics is performed on the NVR/NVS system and monitored on the CMS. Features: E-fence, Video Motion Detection on all channels, People counting
Event Log	Event logs of System, Cameras, User, etc
Alarm Event / Search	Video Loss, Sensor Triggered, storage failure, System Crashed, Abnormal Transaction, E-fence, Video Motion Detection

Alarm Notification	Pop-up, E-mail, Digital I/O, Trigger Recording
Alarm In / Alarm Out	Support of optional external digital Input / Output modules via Modbus Protocol (Master, Slave), support of Digital I/O box from supplier MOXA, type E3210 I/O Mirror which is installed at NVR / NVS
POS Live view	Live view incl. transaction data
POS Search / Playback	Time, Item (Keyword), Price with transaction data and video
POS Abnormal Transaction	Alarm Rule (Item, Value), Alarm Popup, Alarm Search
Watchdog	Software Watchdog
System Update	Supports Software Update

Minimum system requirements

Vectis iX CMS	CPU:	Intel Core i5 (> 2,2 GHz), RAM: 4 GB (DDR3 type)
	Operation System:	Microsoft® Windows® 7 / 8.x (64 Bit) (Home Premium, Professional, Ultimate), Microsoft® Windows® Server 2008/2012 (64 Bit) * Required admin rights to operate
	Display:	DirectX3D support, 2 GB Graphic memory 2x HDMI Video Outputs or DisplayPort
	LAN:	Gigabit Ethernet

Recommended system requirements

Vectis iX CMS	CPU:	Intel Core i7 (> 3 GHz), RAM: 8 GB (DDR3 type)
	Operation System:	Microsoft® Windows® 8.x (64 Bit) (Professional, Ultimate), Microsoft® Windows® Server 2008/2012 (64 Bit) * Required admin rights to operate
	Display:	DirectX3D support, 2 GB (or more) Graphic memory, 4x HDMI Video Outputs or DisplayPort
	LAN:	Gigabit Ethernet

Technical limitations

Display performance (for recommended hardware)	D1@2160fps / 1.3 MP@1020fps / 2 MP@525fps (in Turbo mode, real-time)
IVA channel limitations	The IVA analysis is performed on the NVR / NVS systems. CMS Client can manage the results and use them for monitoring. Therefore the number of analyzed channels is depending of the CPU load, live viewing and video recording parallel in the background. The CPU load should not be more than 70% on the NVR/NVS installed locally. For the NVS system the limitation is the used CPU performance; the better (e.g. Intel i7 CPU) and faster (> 3 GHz) the more channels can be analyzed simultaneously.

Therefore the following recommendations have to be taken into account:

Device type:	**iX16/32/48 NVR & NVS**	**iX06 NVR**
Motion for MP IP cameras:	max. 4 channels	max. 1-2 channels
Motion for < MP IP cameras:	max. 8 channels	max. 1-2 channels
e-fence:	max. 3 channels	max. 1 channel
People Counting:	max. 3 channels	max. 1 channel

Disclaimer	It is highly recommended not to install any additional software running in parallel to Vectis iX CMS to avoid a system overload or less performance when using increasing number of video channels for Live viewing

Details for ordering

Type	Part no.	Designation	Weight
Vectis iX128 CMS	V54569-P107-A100	Vectis iX128 CMS, Mgmt SW 128ch	Aprox. 0,7 kg
Vectis iXUN CMS	V54569-P108-A100	Vectis iXUN CMS, Mgmt SW 600ch *	Aprox. 0,7 kg

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

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