

VideoSphere

VMS

The **VideoSphere® Video Management System (VMS)** from March Networks® is high-performance server software that runs on industry-standard host and storage platforms. It enables organizations to deploy all-IP or hybrid IP/analog video networks that are open, distributed, fully scalable and return significant infrastructure and administrative cost savings.

SCALABLE IP VIDEO FRAMEWORK

A cornerstone of the VideoSphere portfolio, VMS is ideal for medium to large-scale surveillance applications. It allows organizations to stream high-quality, high frame rate video from up to 128 IP or analog cameras per server directly onto an IP LAN or WAN, and archive that data on fault-tolerant storage arrays, in either centralized or NAS configurations. Multiple host and storage servers can be clustered to support installations numbering thousands of cameras. VMS supports both H.264, MPEG-4 and M-JPEG video compressions to ensure the highly efficient use of network bandwidth and storage capacity. This helps eliminate the need to operate separate video networks and reduces total cost of ownership through the convergence of both infrastructure and administrative resources.

ADVANCED CAPABILITIES

Multiple fixed and PTZ IP cameras are supported by VMS, including our family of VideoSphere high-definition IP cameras. VideoSphere Edge encoders also allow existing or new analog cameras to continue to play a key role in a hybrid video infrastructure, preserving current camera investments. In addition, the Edge encoders' advanced multi-sector recording functionality allows video from any analog camera to be recorded simultaneously at different frame rates and resolutions for live and longer-term recording purposes.

An innovative family of March Networks video analytics2 adds system intelligence to the process of detecting, classifying and tracking suspicious activity captured in the surveillance video. From camera tampering or perimeter breaches to lengthy lineups, staff can be automatically alerted to significant incidents and can respond

more immediately and effectively. Alarms triggered by switch contacts, events such as motion detection, and data from sources such as ATM or point-of-sale (POS) transactions, are also supported by the VMS.

POWERFUL CONTROL SOFTWARE

VideoSphere SiteManager is the desktop application software used to configure and exploit the power of VMS from anywhere on the corporate network. It allows administrators to quickly commission each server following software installation and includes an auto-detect feature that recognizes, enables and assigns IP addresses and video storage space to all networked VideoSphere cameras and encoders. An innovative Shadow Archiving™ feature ensures convenient remote access to video recorded by VideoSphere MegaPX cameras with integrated SD cards. Following a network outage, for example, video recorded on the memory card is automatically identified by the VMS and can be accessed easily via SiteManager.

Enhanced user access controls are available through SiteManager's optional Enterprise Service Manager (ESM) application. The ESM allows administrators to group devices by function, geography or customer hierarchy for efficient user permission creation and management. The access controls can be easily integrated with existing IT user authentication systems (e.g. Windows Active Directory) if desired. Administrators can also use the ESM to monitor and maintain the health of their entire VMS infrastructure including servers, cameras and encoders. Alternatively they can outsource their system health management to March Networks' 24/7 NOC for highly skilled, proactive support.



FEATURES

- Support for **HD** video
- Provides enterprise-class video and audio recording, storage, retrieval and management
- Distributed architecture supports multiple storage servers and is fully scalable
- Captures IP video streams directly from the network
- Supports up to 128 IP and/or analog cameras per server
- Supports H.264, MPEG-4 and M-JPEG compression technologies to ensure high bandwidth and storage efficiency
- Works in tandem with powerful VideoSphere SiteManager desktop application software
- Speeds video access with a range of searchable alarm types
- Ensures video availability through SD cards and shadow archiving

VideoSphere Video Management System

Host Server(s) Requirements

For installations with a maximum of 32 cameras. For larger installations, please see our *VMS Server Hardware Requirements* datasheet.

- Windows® 2008 Server OS
- 1 x Quad Core Intel Xeon 2.0 GHz E5504
- 2 GB of RAM
- 150 GB hard-drive space for VMS software
- Additional hard drive(s) for video and audio storage
- 10/100/1000 Ethernet Network Interface Card
- Internal/external storage as required
- 12 TB minimum storage 2048 Kbps per camera, 14 days

Network Transmission

- Video and audio transported over wired and wireless IP networks
- User authentication and video encryption for maximum network security
- Remote access via broadband networks

Video Storage

- Distributed architecture supports multiple storage servers and is fully scalable
- Includes automated fail-over capability
- Recording options include scheduled time/date, on event/motion, and analytic alert
- Video tagged to optimize search efficiency based on date/time, event, motion or analytic data
- Shadow archiving for standalone or redundant recording

Third-Party System Integration

- Full range of PTZ camera control protocols
- Software Development Kit (SDK) available to integrate video management with third-party applications



NOTES: ¹ Third-party analog camera support via VideoSphere Edge encoders
² See VideoSphere Analytics datasheet for more information

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