DATA SHEET

VideoEdge® Management Suite

VideoEdge® Management Suite expands the capabilities of VideoEdge NVR with Windows®-based products that offer useful and advanced features to better manage, access, and control your enterprise IP surveillance system.

Vx Player is grouped with Vx Client.

Features That Make a Difference:

- Supports multiple video codecs such as ACC, MJPEG, and MPEG4
- Set up unlimited NVRs and cameras virtually as a single system
- Convert native video to .avi and .mov formats
- Simultaneously monitor multiple cameras from different NVRs
- Control bandwidth by setting the viewing frame rates on client PC
- Push live video to unlimited remote machines over LAN/WAN for distributed virtual matrix video wall
- Generate custom multi-tier and multi-layer maps for easy monitoring
- Capture alerts from multiple NVRs and cameras
- Use single-site login and advanced searching with optional 3-tier hierarchy configuration

Vx Client

Use American Dynamics® Vx Client to log into an unlimited number of VideoEdge NVRs and create a single virtual NVR interface. Cameras from different NVRs can be viewed in any combination.

Vx Player

Use the American Dynamics Vx Player to view video exported from any VideoEdge NVR. Vx Player provides standard DVR-like controls for play back of recorded ISO images or video that is exported from the NVR to a local drive.

VMx Agent

Our software-based virtual matrix video wall allows you to use standard, commercial off-the-shelf (COTS) Windows®-based systems with one or more monitors as unstaffed network video workstations. VideoEdge VMx Agent enables Vx Client users with video wall controller licenses to remotely display any view and camera combination over a LAN/WAN. This powerful software combination lets you easily expand your command and control center from beyond a single room to anywhere on the network.

Cx Alert Console

American Dynamics Cx Alert Console software lets you easily monitor alerts (such as motion detection and sensor alarms) generated by one or more VideoEdge NVRs. You can also create custom, multi-tier and multi-layer maps to move your mouse over any camera or dome icon to view live video.

Cx Mobile Alert

View live/recorded video using a compatible wireless PDA device.

Cx Site Manager

When you have many NVRs, it may become cumbersome to remember the various IP addresses. American Dynamics Cx Site Manager gives you single-site login plus the ability to conduct advanced searches on the metadata across multiple cameras managed by different VideoEdge NVRs. This makes it much easier for IT and physical security departments in multi-site organizations to administer and manage their systems.

Thin Client

VideoEdge NVRs come standard with a built-in web server. This enables you to configure any client PC, including Windows, Macintosh, or UNIX system, and enable use of most standard browsers[1] for logging into the NVR to manage the system. With appropriate drivers, you can also view live/recorded video.

(1) Refer to www.americandynamics.net for the latest list of supported devices, hardware, codecs, browsers, and other related information including recommended system requirements for hardware and storage. All proprietary hardware components (e.g. RAID controllers) or devices (e.g. new IP cameras) require special drivers or unique camera handlers. Therefore review information related to the latest released version.

features

Vx Client

Unified Access to your Enterprise Network Video Management System

Vx Client supports two or three-tier (single-site login) architectures plus the ability to organize cameras by individual NVRs or as a single, logical NVR. On a single Vx Client workstation, you can view many cameras (standard and megapixel) per monitor from multiple NVRs and easily monitor any location using map-based monitoring.

Configure Cameras Dynamically

Dynamically configure cameras (names, IDs, resolutions, frame-rates, PTZ presets, recording modes, etc.) across multiple VideoEdge NVRs. Unlike other products on the market that require you to access each individual device to make changes, Vx Client provides a single, common unified interface to let you modify many advanced camera settings from one place.

Remote Setup and Management

Users can view, control, and manage VideoEdge NVRs over the LAN, WAN, VPN, and Internet. You can log onto an NVR directly or centrally through Cx Site Manager (optional). After successful login, administrators can quickly go to the "Web Connect" tab and, from the drop-down list, seamlessly access any VideoEdge NVR web server interface for server and camera management without switching to any other application.

Organize Cameras, Choose Views

Select any camera template to create and save an unlimited number of custom views based on any camera combination. The views can be opened at any time, sequenced, and pushed out to remote monitors included in the virtual matrix video wall.

Camera Controls

Automatically display the toolbar on top of the video pane to quickly access useful functions like presets, full-screen, replay, and user panic. For fixed cameras, use your mouse to draw a box around and automatically PTZ to display digitally enhanced video. Right-click on the video to display the innovative picture-in-picture—a magnified area displayed within the camera's field-of-view that can be adjusted for fast navigation.

PTZ cameras operate in a similar fashion and offer click-to-center for easier camera control. You can also display live and recorded video in the same camera pane using the picture-in-picture feature. For superior control, you can use the remote controller in the "Monitor Cameras" tab for PTZ control and a timeline slider-bar for play back.

Vx Client also integrates with American Dynamics analog CCTV keyboards to provide PTZ control of network cameras and to push a camera into a multi-camera view on the local monitor or into a single-camera view on a remote VMx Agent monitor.

Useful Tools

There are a variety of different play back, export, and archive features. Vx Client also provides synchronized play back from multiple cameras on VideoEdge NVRs that can span multiple time zones.

Voice over IP (VoIP) between Clients

The built-in VoIP functionality is designed for a workgroup environment to enable two or more Vx Clients to communicate (audio and instant message) over the network without accessing a remote third party server.

Monitoring with Custom Maps

With Vx Client, you can use custom map files generated by Cx Alert Console to locate and identify specific cameras. Vx Client automatically associates cameras located on the map with your access rights and allows you to monitor one or more locations. Cameras with the alert feature can show a flashing red camera icon on the map and support a 4-camera spot monitor. Vx Client automatically displays live video when you hover the mouse over any camera icon on the map. A hot-track mode is also available for quick scrolling between live cameras.

Command and Control without Boundaries

Vx Client with a video wall controller license lets you manage an unlimited number of monitors and cameras over a network, spanning across multiple locations. Within the video wall tab, control any number of remote PCs running VMx Agent, push any camera view onto their display monitors, and select sequencing or salvo switching. Using an American Dynamics analog CCTV keyboard/joystick with Vx Client, push any camera view onto any of the virtual matrix video wall monitors.

Bandwidth Control

To best maximize your business' network and hardware configurations, Vx Client lets you set up maximum frames per second (FPS) for viewing live video[2] for each camera layout. If you are running Vx Client on a slower computer or one with slow network connectivity, select a lower FPS.

Vx Player

Play Back Archived & Exported Video

Vx Player is a free utility that allows you to play video from recorded ISO images or removable hard drives with archived or exported video files from VideoEdge NVR.

VMx Agent

Virtual Matrix Video Wall

VMx Agent enables your networked Windows PC to become a remote video workstation that is part of the dynamic software-based virtual matrix video wall solution. VMx Agent utilizes the processing power, graphics card, displays and network connectivity of its host to seamlessly display any

(2) Control over the viewing frame rate is applicable for cameras using the MJPEG codec.

camera combination requested by any Vx Client with a video wall controller license. This unique architecture removes the limitations generally associated with any single machine's resources by leveraging powerful multi-display video cards and larger displays with higher resolution (e.g. projectors, LCDs, plasmas). This software-based virtual matrix video wall solution can easily scale to an unlimited number of monitors.

Cx Alert Console
Alert Management

Cx Alert Console monitors all alerts from VideoEdge NVRs and their supported devices and integrated systems. This application is generally used by personnel who are responsible for monitoring a site or facility. Cx Alert Console allows users to filter alerts from specific VideoEdge NVRs as well as from cameras associated with each NVR. It logs all incoming alerts in chronological order and assigns unique event numbers to each alert so you can determine when the alerts occurred (date, time, NVR, device, alert message) as well as acknowledge to each alert. If you use single-site login (optional Cx Site Manager required) an advanced audit search is supported. The GUI provides a live and play back window as well as two snapshot images for the recorded alert event.

Cx Alert Console also lets you quickly and easily create, edit, or read custom maps. In map editor mode, import standard raster images (e.g. .jpg, .bmp, .gif) and drag-and-drop cameras from multiple VideoEdge NVRs onto the map. The map files can be multi-tier, multi-layer, span across multiple NVRs, and linked to other maps. The map interface can detach from the main Cx Alert Console GUI, allowing the operator to maximize the display area for the maps.

Integrated Video Alert Management Solution

By using the analog switcher configuration feature of Cx Alert Console along with Vx Client and VMx Agent applications, the VideoEdge NVR can be configured to automatically display video on alert onto monitors managed by the virtual matrix video wall.

Cx Mobile Alert
Monitoring with Wireless PDA Devices

American Dynamics Cx Mobile Alert software allows operators to use wireless PDA devices[3] to view live and recorded video, control PTZ cameras, and receive alerts for MJPEG-supported cameras. The video resolution is automatically downsampled to support these less powerful and smaller form-factor PDA devices.

Cx Site Manager
Centralized Three-Tier Solution

By using the centralized American Dynamics Cx Site Manager software (optional), Vx Client and Cx Alert Console users alike can use the single-site login option. Cx Site Manager is set up on a Windows PC designed to operate 24/7/365 to capture the alert metadata from multiple VideoEdge NVRs and store it in a centralized database. Cx Site Manager provides operators with a more efficient data mining tool for alerts while requiring fewer IT resources to manage them.

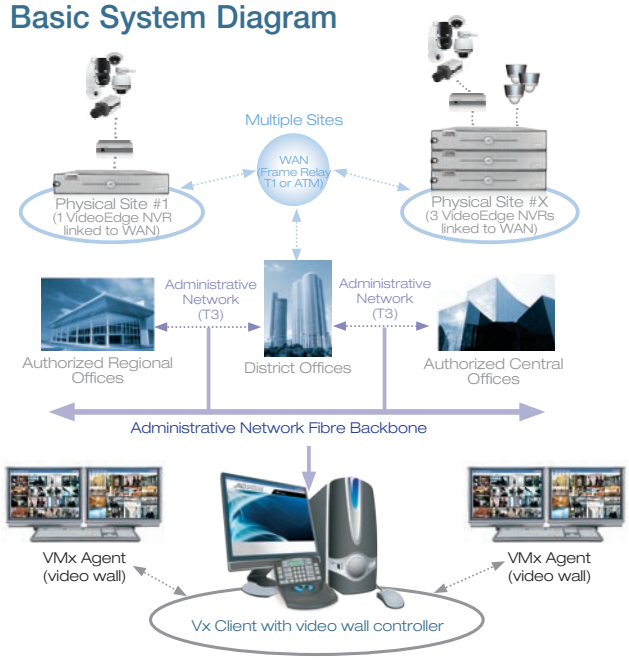
Thin Client

VideoEdge NVR includes a web server that serves up web pages that can be viewed using a thin client. This allows you to view live and recorded video via web browsers, such as Internet Explorer, Safari, Firefox, etc.

VideoEdge NVR Integration
Connectivity to Third Party Systems

VideoEdge NVRs are 100% API-driven and offer a robust set of instructions that programmers can use to build integrated applications. Additionally, there is a well-documented Software Development Kit (SDK) for customers looking to integrate under the Windows .NET 2.0 framework.

Basic System Diagram



Access/view remote NVRs and/or cameras via Vx Client and push video[4] onto the virtual matrix video wall (any camera/any combination). Control via PC keyboard/mouse or analog CCTV keyboard/joystick.

NOTE: Represents general network topology and actual requirements may vary based on actual network layout, equipment and system requirements.

(3) Refer to www.americandynamics.net for the latest list of supported devices, hardware, codecs, browsers, and other related information including recommended system requirements for hardware and storage. All proprietary hardware components (e.g. RAID controllers) or devices (e.g. new IP cameras) require special drivers or unique camera handlers. Therefore review information related to the latest released version.

(4) Applicable driver versions, such as Sun Microsystems JAVA 1.42 & 1.50 and Apple QuickTime 7.2, need to be installed on any computer on which the application runs (client PC) corresponding video codecs supported by VideoEdge NVR.

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SPECIFICATIONS

Model Number Configuration for VideoEdge NVR Management Suite

EXAMPLE	BRAND	FAMILY	PLATFORM	SOFTWARE PRODUCT & FEATURES
Cx Site Manager *(single site login with centralized database of alerts)*	**AD** American Dynamics	**N** Network Video Management Systems	**S** Software	**CX-SM** American Dynamics Cx Site Manager
Vx Client	**AD**	**N**	**S**	**VXC-STN** American Dynamics Vx Client – Standard mode
Vx Client *(with video wall controller)*	**AD**	**N**	**S**	**VXC-VWC** American Dynamics Vx Client – Standard mode plus video wall controller
VMx Agent *(Virtual matrix video wall)*	**AD**	**N**	**S**	**VMX-AGT** VideoEdge VMx Agent
Cx Alert Console *(Alert management & map editor)*	**AD**	**N**	**S**	**CX-AMC** American Dynamics Cx Alert Console
Cx Mobile Alert *(PDA software)*	**AD**	**N**	**S**	**CX-PDA** American Dynamics Cx Mobile Alert

VideoEdge Management Suite Specifications

	Vx Client	VMx Agent	Cx Alert Console	Cx Site Manager	Thin Client	Vx Player	Cx Mobile Alert
Processor	3.2GHz dual-core Intel® Xeon processor					2.0GHz Pentium 4 processor or faster	
Memory	4GB DDR2 RAM or more (with 400+ MB Free)					1GB DDR2 RAM or more (with 400+ MB Free)	
Optical Drive	DVD-R/RW[5]					DVD-ROM	
Hard Disk Drive	250 MB hard disk space[6] (additional space is needed if video is saved locally)					250 MB hard disk space (additional space is needed if video is saved locally)	
Network Card	Gigabit Ethernet 1000 Mbit NIC					Ethernet 100 Mbit NIC	
Graphics Card	512 MB PCI Express x16 (single or dual DVI)					128 MB PCI Express x16	
Monitor	1680 x 1050 (WSXGA+) with 32-bit color (single or dual monitor DVI)					1680 x 1050 with 32-bit color	
Keyboard	Standard					Standard	
Mouse	Scroll Mouse					Scroll Mouse	
Operating System	Windows® XP Professional SP2+ (32-bit OS version)					Windows® XP Professional SP2+ (32-bit OS version)	
Other Software	Microsoft .NET Framework 1.1 & 2.0, Sun Microsystems JAVA 1.42 & 1.50, Apple QuickTime 7.5, American Dynamics NvrVideo 1.x					Microsoft .NET Framework 1.1 & 2.0, Sun Microsystems JAVA 1.42 & 1.50, Apple QuickTime 7.5, American Dynamics NvrVideo 1.x	

NOTES:

- *One-year warranty on software*
- *For thin client[7] management, various operating system (e.g. Windows, Macintosh, UNIX) platforms are supported and Microsoft .NET framework is not required. Thin client is free and enables you to configure any client PC, including Windows, Macintosh, or UNIX system, and enable use of most standard browsers.*
- *For Cx Site Manager, you will need at least 2.50 GB of hard drive space for Microsoft SQL Server 2005 Express Edition which is included on the software installation disc but is limited to a 2 GB database file size, so use standard SQL if larger database is required.*
- *For Cx Mobile Alert, lower system requirements can apply to the host PC (requires USB port and cable) and the PDA devices[7] require Microsoft Pocket PC/Windows Mobile OS 4.2+ and Microsoft .NET Compact Framework. System configuration, connectivity speed to VideoEdge NVRs, number of concurrent cameras, video resolutions, frame rate, and codec will impact video performance on client PCs.*
- *Vx Player is a free application included with Vx Client.*

(5) Third Party CD/DVD recording software is required to record ISO images (BURN IMAGE TO DISC) or other data.
(6) Microsoft SQL Server 2005 Express Edition is included on the Cx Site Manager software installation disc and requires additional hardware space to support the 2 GB database file size.
(7) Refer to www.americandynamics.net for the latest list of supported devices, hardware, codecs, browsers, and other related information including recommended system requirements for hardware and storage. All proprietary hardware components (e.g. RAID controllers) or devices (e.g. new IP cameras) require special drivers or unique camera handlers. Therefore review information related to the latest released version.

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