VIDEOINSIGHT



5.5 IP Server Administrator Guide

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Introduction

Video Insight is a leading developer of enterprise-class video management software. Our vision is to provide powerful, user-friendly software that will run on "off-the-shelf" hardware based on IP technology. We have developed our solution from the ground-up, making us one of the few pure-play IP video management software providers.

Video Insight's suite of products was created to protect clients by providing intelligent, easy to use IP security solutions. Our extensive effort has resulted in products that are flexible and powerful enough for any situation, yet still very cost effective. Our software boasts the largest number of camera integrations available on the market. Users can access their Video Insight surveillance systems on mobile devices, through the web and on Microsoft Windows clients over internal networks or the Internet.

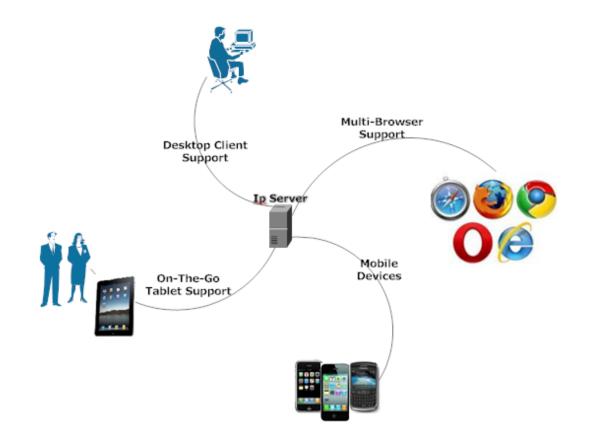
Video Insight v5.5 can intelligently and efficiently monitor security throughout your organization. Key advantages of this version are:

- Pure 64-bit server, clients and camera drivers
- Cloud-ready
- Optimized for centralization and hosting
- Panic button features
- Refresh Live Display only on Motion

The Video Insight IP Server Administrator Guide includes everything you need to install and configure IP Server with best practices and a troubleshooting guide. This document is intended for use by advanced users and system administrators.

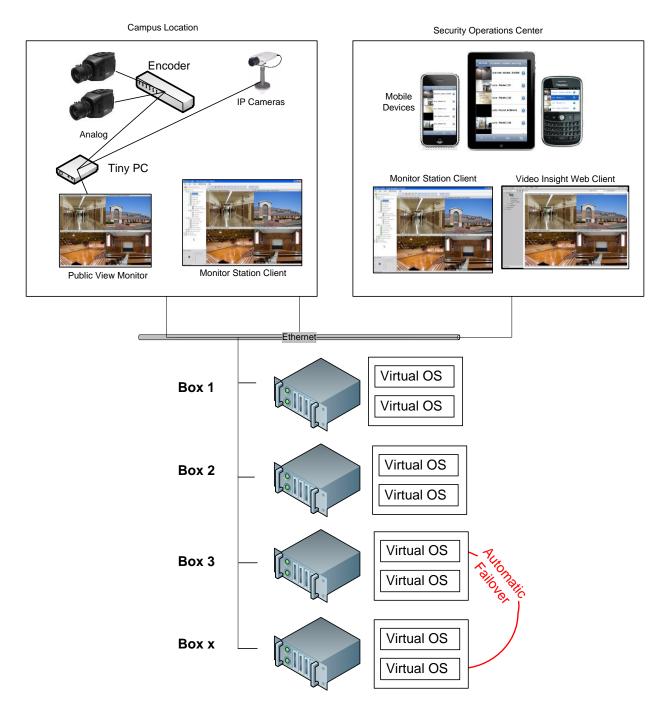
System Overview

The Video Insight application suite provides a solution for many different scenarios. You can use it for basic unattended monitoring or mobile remote viewing by patrolling security personnel. At its core is Video Insight IP Server, which powers the software platform. The figure below shows video monitoring options for users.



The Video Insight application suite runs over an Ethernet network, meaning cameras, security personnel and servers do not have to be co-located.

The figure below shows the distributed flexibility of the system extending to IP Server's automatic failover capability.



The system is a robust software platform that has three main components that capture and view live or recorded video from anywhere: IP Server, Monitor Station and Web Client. The table below summarizes the role of hardware in the Video Insight application suite.

Table 1: Role of Client Applications, Hardware,	and Software in the Video Insight application suite.
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Produ	ct Suite: IP Server	
	Monitor Station	 Client application Live and recorded video Centralized administration Alarm notification
Client Applications	Web Client	 Live and recorded video Internet Explorer, Safari, Chrome and Opera (with optional ActiveX plug-in support for Internet Explorer)
	Smart Phone/Tablet Client	 Live and recorded video iPhone, iPad, BlackBerry and Android support PTZ control
Hardware	IP Server	 Records and manages video VM support Alarm processing 3rd-party, access control and analytics integration Microsoft IIS for Internet clients Active Directory, LDAP and Novell eDirectory support
	Storage	 Direct Attached, SAN/NAS and iSCSI storage support
/are	IP Server Manager	 Monitors the IP Server(s) and presents a visual status for each Network connection administration Diagnostics for trouble shooting and system optimization
Software	Health Monitor	 Accessory application that monitors the health of all your servers and cameras from a single location Email notification on error

Planning

Getting the most out of your hardware and our software requires planning. Understanding your needs will help you size your solution. Evaluate and plan the integrations you will need to make.

Server

IP Server is at the heart of the Video Insight platform. It runs on industry-standard hardware and works with 32- and 64-bit versions of these Microsoft operating systems.

- Windows Server 2008 R2
- Windows Server 2008 Enterprise, Standard and Web editions
- Windows Server 2003 Enterprise, Standard and Web editions
- Windows 7
- Windows Vista
- Windows XP Professional

IP Server also requires Microsoft .NET Framework 3.5 and Microsoft Internet Information Services (IIS) with "static content" enabled. The operating system must be current with updates because Video Insight hardware and software integrates with the latest updates.

The hardware required for installation of IP Server is determined by a variety of factors including the number of cameras, the resolution of those cameras, the number of frames per second, as well as the number of days of required video storage. Generally, hardware requirements depend on whether 100 or more cameras will be connected. For less than 100 cameras use Table 2 as your guide.

Component	Minimum	Recommended
Processor	1 2.4 GHz quad-core	2+ 2.4 GHz quad-core
Memory	8 GB	16 GB
Video	ХМВ	Xx MB
Network	X Gb/s	Xx Gb/s
Storage		RAID 5/6

Table 2: Video Insight IP Server hardware requirements for systems with less than 100 cameras.

Keep in mind that you can expect higher CPU usage without Microsoft Direct Show installed. Also, the server video memory requirement depends on whether compression will be used.

Table 3 shows the hardware requirements if you plan on connecting more than 100 cameras.

Component	Minimum	Recommended
Processor	2 2.4 GHz quad-core	4+ 2.4 GHz quad-core
Memory	16 GB	32 GB
Video	ХМВ	Xx MB
Network	X Gb/s	Xx Gb/s
Storage		RAID 5/6

Network throughput is especially important when more than 100 cameras will be connected. High definition cameras will slow already busy network segments to a crawl.

Failover Server

In the event a network outage or hardware failure prevents a server from recording camera video, the IP Server Failover Server feature will enable another server to take over the recording capabilities of the offline server. When configured with a shared IP address as part of a cluster, the Failover Server feature eliminates video loss and enables continuous live streaming video.

To use the Failover Server feature you must:

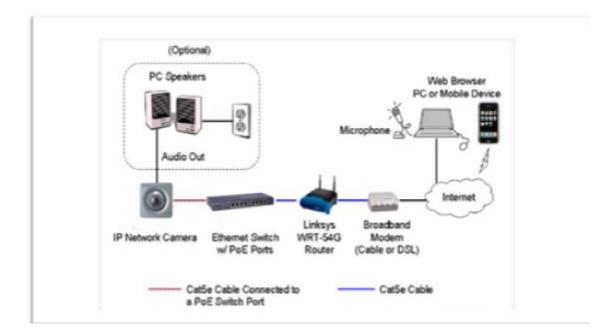
- Have at least two servers with the same hardware configuration, i.e., a cluster.
- Have a Shared Database installation; see IP Server installation with an existing SQL installation.
- Have a shared IP address.
- Have at least one license and a serial number or activation key for each server.

Network

Network configuration is extremely important when implementing an IP video solution. IP cameras use considerable bandwidth to deliver information between the camera and the server. Different cameras will require different amounts of bandwidth based on resolution and frame rate. Accessing video from Monitor Station, Web Client, mobile device client and Video Wall increases the needed bandwidth.

Figure 3 illustrates a very basic, isolated network comprising of one switch, one camera and one router.

Figure 3: Basic IP video monitoring solution with remote viewing.



Factors affecting performance

Any system is the sum of its parts. A mismatched sub-system or component can have a negative effect on the whole system. Video streaming can only be as good as the cameras and underlying network. Best practices for IP video solutions indicate cameras connected to and powered over Ethernet or separate VLANs for cameras.

Local and Wide Area Network

Video travels over a network, meaning infrastructure plays a big part in the overall performance of the Video Insight solution. A slow network can create bottlenecks that result in a slow frame rate, jittery video and packet loss. Avoid devices on your local network with a port speed of 100 Mb/s or less.

The following network issues can cause cameras to drop a connection or otherwise go offline:

- Camera is using a dynamic instead of static IP address
- Another service or device is running at the same time with the same IP address, causing a conflict
- Multiple applications pulling a stream from one camera (some cameras limit the number of streams)
- Power output of a switch is less than required by the cameras. The power output of a switch has to be greater than the sum of the power requirements of the attached cameras. Refer to the camera's manual for power requirements
- You may be tempted to implement wireless local networking to connect cameras. Due to potential dead zones, transmission speed, outside interference and weather conditions you can expect subpar performance and dropped connections. We do not recommend using wireless networking to connect your cameras.

If your organization has more than one site you will likely be relying on an Internet provider for connectivity. The performance you get from the provider will depend on their network infrastructure, customer utilization of that network and what you can afford. Streaming video remotely to a desktop client requires basic broadband. Streaming to a mobile device requires 4G service.

Cameras

The following factors can affect camera imaging:

- Bit rate a higher bit rate usually gives better picture quality
- Resolution a higher resolution usually gives better picture quality
- Format some picture formats incorporate better algorithms that more accurately represent the subject
- Firmware outdated firmware can impair camera functionality
- Location unless intended for such use, placement in dark or obstructed locations, or in places affected by adverse weather, will not result in useful pictures
- Number of cameras connected to server the higher the number of connected cameras, the greater the load on server resources

Monitor Station

Monitor Station, the Video Insight thick client, allows users full access to all cameras and provides centralized administration for the system. It is used to watch live and recorded video.

Monitor Station runs on industry-standard hardware and works with 32- and 64-bit versions of Microsoft Windows XP or later. Microsoft Direct Show 9 or higher is required. The operating system must be current with updates because Video Insight hardware and software integrates with the latest updates.

Monitor Station requests video from the server in the camera's native format. Transferring video in the camera's native format is a file server operation that does not burden the IP Server CPU as a video decompression operation would. Because video decompression is performed on the client and not the server, the hardware requirements for Monitor Station are different from those of IP Server. Table 4 shows the hardware requirements for Monitor Station.

Table 4: Monitor Station hardware requirements.

Component	Minimum	Recommended
Processor	1 2.0 GHz single-core	1 2.4 GHz dual-core
Memory	2 GB	4 GB
Video	256 MB	512 MB
Network	100 Mb/s	1 Gb/s

Note

The video sub-system must support Microsoft Direct Show.

Monitor Station will require additional system memory, video memory and processor if more cameras are viewed and processor-intensive compression protocols are used. The greater the number of compressed images viewed at once, the greater the load on the processor.

Web Client

Web Client, the Video Insight thin client, allows users remote access to cameras. Web Client is distinct from the Video Insight mobile device application. Web Client utilizes Microsoft IIS services hosted on the same server as IP Server. To support cross platform compatibility, IP Server sends MJPEG images to clients that are unable to decompress MPEG4 or H.264 streams. These images are normally provided as a dual stream from the camera. IP Server can create a MJPEG but this increases the load on the CPU.

Web Client connects directly to the cameras to view live video, unlike Monitor Station. Table 5 shows Internet browsers supported by Web Client.

Microsoft IIS 5.1 or higher must be installed and configured prior to the installation of IP Server.

Health Monitor

Health Monitor is a separate application used to monitor the health of one or all of your servers. Health Monitor adds peace of mind with a server monitoring your video surveillance servers and cameras. You can further mitigate risk and disaster recovery issues by adding a Failover Server.

Health Monitor does not have any hardware requirements and is compatible with the same operating systems as IP Server. However, keep the following in mind when planning for Health Monitor:

1. We recommend hosting Health Monitor on its own computer to isolate it from the failure of an IP Server.

2. Health Monitor does not have to be on the same network subnet as IP Server. It can be local or remote.

3. Health Monitor requires a database. It can be local or remote. If the database will be remote you must create it before you install Health Monitor.

Cameras

Video Insight supports a vast array of cameras from a large number of manufacturers. Additional camera support is included with every software release Refer to our website for the latest list of supported cameras.

Video Insight supports the Open Network Video Interface Forum (ONVIF) standard. We support version 1.03.

Licensing

Our licensing structure is simple: one camera requires one license. Our floating licenses means there is no need to tie a licensing seat, IP address or MAC address to a particular camera. Cameras offering multiple camera views only require one license. Separate video streams from the same camera do not require a separate license. Video Insight offers encoders, such as the VP16, that allow up to 16 analog cameras with only one license. Please contact us for more information on specific licensing requirements.

Note

Some cameras include a license for use with our software.

Router configuration

We recommend using some type of router if your computer is connected to the internet. Small Office/Home Office (SOHO) routers provide a simple hardware firewall that protects your computer. SOHO routers connect to your DSL or cable modem and you connect to your server through them. The

SOHO router prevents all inbound traffic from accessing your network and computers except for the traffic that you specifically allow through.

How to configure your Video Insight server and router for remote access:

1. Assign a static IP address to IP Server. SOHO routers typically use DHCP to assign an IP address from a range of addresses to devices connected to the router. Choose an address outside of this range but within the subnet to assign to the server. For help on assigning a static IP address, review your SOHO router user guide or consult with your network administrator.

2. Configure your SOHO router to forward ports 80 and 4011 to IP Server.

a. For help on forwarding ports, review your router manual or consult with your network administrator.

b. <u>www.portfoward.com</u> provides information on how to configure most SOHO routers. Video Insight does not endorse this information.

3. Test your configuration by trying to access the Web Client externally.

- a. Start your Internet browser.
- b. Enter: http://<external IP>/videoinsight4 into the address bar of your Internet browser.

c. Note, many SOHO routers will not allow you to connect to your external IP address when you are behind the firewall. You will need to be outside your network.

d. You can use a third-party website such as <u>canyouseeme.org</u> to get your external IP address and to verify if the correct ports are being forwarded.

Storage considerations

The amount of storage required for recordings depends on the number of cameras, the CODEC, Frames per Second (FPS), resolution of the images and the percentage of pixel change. The Video Insight solution gives you flexibility of per camera storage options:

• Record Always – requires significantly more storage space because video is constantly recorded.

• Record On Motion Only – requires less storage space than Record Always because video is recorded only when motion occurs in the camera's field of view.

IP Server supports the following types of storage:

RAID 5 and RAID 6

- NAS
- SAN

• Long Term Storage Application (LTS)

You can specify which cameras to copy, how many days to keep before copying and what time of the day to execute the copy. The copied files can be viewed using Video Insight software or Microsoft Windows Media Player.

• File Manipulation Rule

A feature that allows users to back up their files to other locations such as standard file servers, NAS or SAN using the Rules manager. This feature takes the task of remembering to back up important video recordings on the local server and automates it. File Manipulation can also move or delete videos.

Database considerations

IP Server saves configuration settings, user names, camera information and event logs in a Microsoft SQL database. When IP Server starts, it reads its settings directly from the assigned database. When Monitor Station connects to IP Server it saves all recordings to its local hard drive so recordings are still accessible in the case of database failure.

Use Table 5 to help you determine whether you need a local or a shared database.

Table 5: Choosing a local or shared database.

Local	Shared
Small centralized organization with 1-3 servers	Large regional organizational with many servers
Use Monitor Station and built in User Manager	Use Active Directory/LDAP
Number of users is small	Number of users is large
Disaster recovery and back up for each server's database	Disaster recovery and back up for one database
Failover server functionality is not desired	Failover server functionality is desired
Servers are not on the same LAN or the communication link between the server the database is a low-speed connection	Servers are on the same LAN
Cameras will not move from one server to another	Cameras will move from one server to another
Avoid exposure SQL to the network	Exposure of SQL to the network

Software installation

Video Insight software supports both 32- and 64-bit operating systems. Choose the correct executable to begin the installation process. Review the following list prior to beginning the installation process:

- 1. <u>Storage Considerations</u>
- 2. <u>SQL Considerations</u>
- 3. <u>Network Considerations</u>
- 4. Online Calculator: <u>www.video-insight.com/Support/Tools/Configuration-Calculator.aspx</u>
- 5. Administrator-level access on server is required

IP Server

If Microsoft SQL Server is not already present in your environment you can choose to install the package. It includes Microsoft SQL Server 2008 R2 for both 32-bit and 64-bit OS's.

If your environment already has Microsoft SQL Server 2008 installed and you only need the Video Insight database and are not required to install SQL Server installation package.

Installation without an existing SQL installation

Use the following steps to install IP Server with Microsoft SQL Server for the first time. This option will also install Monitor Station and Web Client:

1. Launch the executable for your OS type (32-bit or 64-bit OS). Click **I Agree** to agree to the terms and continue the installation. If you do not agree or do not want to continue the installation, click **Cancel**.

.icense Agreement Please accept the license terms befo	ore installing the software	6
	and an and a sol twale.	
Press Page Down to see the rest of	the agreement.	
video Insight Software License Agr	eement	
IMPORTANT - READ CAREFULLY BE	EFORE ACCESSING VIDEO INSIGH	IT SOFTWARE: This
license agreement ("License Agreer		
(referred to herein as "You" or "Lice entity) and Video Insight, Inc. and		
for the Software (the "Software").	BY USING OR ACCESSING THE :	SOFTWARE;
LOADING THE SOFTWARE OR ALLO UTILIZING ANY DEVICE OR OTHER		
OF THE SOFTWARE, YOU AGREE T	O BE BOUND BY THE TERMS OF T	HIS LICENSE
AGREEMENT . IF YOU DO NOT AGE	REE TO THE TERMS OF THIS LICE	NSE AGREEMENT, 👻
If you accept the terms of the agree	ement, click I Agree to continue. \	You must accept the
agreement to install IP Enterprise.		
rsion 5,5,25,1		

2. Select all the components that you would like to install, click **Next.**

😚 IP Enterprise Setup		
Choose Components Choose which features of IP Ei	nterprise you want to install.	(
Check the components you wa install. Click Next to continue.	nt to install and uncheck the c	omponents you don't want to
Select components to install:	 ✓ Install SQL ✓ IP Server ✓ Desktop Client ✓ Web Client 	Description Position your mouse over a component to see its description,
Space required: 261.4MB		
Version 5.5.25.1		
	< Back	Next > Cancel

3. To accept the default destination folder, click **Install**. To choose another destination, enter the destination path or click **Browse** to search.

😚 IP Enterprise Setup	
Choose Install Location	
Choose the folder in which to install IP Enterprise.	
Setup will install IP Enterprise in the following folder. To install in a Browse and select another folder. Click Next to continue.	different folder, click
Destination Folder	
C:\Program Files\VI Enterprise	Browse
Space required: 261.4MB	
Space available: 33.0GB	
Version 5.5.25.1	
< Back	Next > Cancel

4. Select the start menu folder that you would like the installation to be created, click **Next.**

🕣 IP Enterprise Setup	- • ×
Choose Start Menu Folder Choose a Start Menu folder for the IP Enterprise shortcuts.	
Select the Start Menu folder in which you would like to create the program's s can also enter a name to create a new folder.	shortcuts. You
Accessories Administrative Tools Games Maintenance Startup Tablet PC VMware	
Version 5.5.25.1	Cancel

5. The default credentials are entered for the SQL installation, if you would like to change the credentials please enter them now and click **Install.**

😚 IP Enterprise Setu	qr	
	duct configuration se to store the configuration data.	
Provide a va installed.	alid user name and password for the SQL :	server that will be
SQL Server :	localhost	Test Connection
SQL Username :	sa	
SQL Password :	•••••	
Version 5.5.25.1 —	< Back	Install

6. IP Server is installed. To initialize and configure it, see <u>Initialization</u>.

Installation with an existing SQL installation

Use the following steps to install IP Server for the first time in an environment with Microsoft SQL Server. This option will also install Monitor Station and Web Client.

1. Launch the executable for your OS type (32-bit or 64-bit OS). Click **I Agree** to agree to the terms and continue the installation. If you do not agree or do not want to continue the installation, click **Cancel**.

) IP Enterprise Setup	
License Agreement Please accept the license terms before installing the software.	
Press Page Down to see the rest of the agreement.	
video Insight Software License Agreement	<u>_</u>
IMPORTANT – READ CAREFULLY BEFORE ACCESSING VIDEO INSIGHT S license agreement ("License Agreement") is a legal agreement between (referred to herein as "You" or "Licensee", and meaning either an individ entity) and Video Insight, Inc. and its suppliers (collectively, "Video Insig for the Software (the "Software"). BY USING OR ACCESSING THE SOF LOADING THE SOFTWARE OR ALLOWING THE SOFTWARE TO BE LOAD UTILIZING ANY DEVICE OR OTHERWISE UTILIZING THE SERVICES OR F OF THE SOFTWARE, YOU AGREE TO BE BOUND BY THE TERMS OF THIS ACREEMENT. IF YOU DO NOT ACREE TO THE TERMS OF THIS	the user Jual or a single ght" or "Licensor") FTWARE; ED; OR FUNCTIONALITY 5 LICENSE
AGREEMENT . IF YOU DO NOT AGREE TO THE TERMS OF THIS LICENSE If you accept the terms of the agreement, click I Agree to continue. You agreement to install IP Enterprise.	
< Back I Agree	ee Cancel

2. Select all the components that you would like to install, click **Next.**

💮 IP Enterprise Setup		- • •		
Choose Components Choose which features of IP Er	nterprise you want to install.	(
Check the components you want to install and uncheck the components you don't want to install. Click Next to continue.				
Select components to install:	 Install SQL ✓ IP Server ✓ Desktop Client ✓ Web Client 	Description Position your mouse over a component to see its description.		
Space required: 261.4MB				
Version 5.5.25.1				
	< Back	Next > Cancel		

3. To accept the default destination folder, click **Install**. To choose another destination enter the destination path or click **Browse**. Click **Next** to begin the installation process.

😚 IP Enterprise Setup	
Choose Install Location Choose the folder in which to install IP Enterprise.	\bigcirc
Setup will install IP Enterprise in the following folder. To install in a Browse and select another folder. Click Next to continue.	different folder, click
Destination Folder	Browse
Space required: 261.4MB Space available: 33.0GB	
Version 5.5.25.1	Next > Cancel

4. Select the start menu folder that you would like the installation to be created, click Next.

😚 IP Enterprise Setup	
Choose Start Menu Folder Choose a Start Menu folder for the IP Enterprise shortcuts.	
Select the Start Menu folder in which you would like to create the program's s can also enter a name to create a new folder.	shortcuts. You
Accessories Administrative Tools Games Maintenance Startup Tablet PC VMware	
Version 5.5.25.1	Cancel

5. The default credentials are entered for the SQL installation. If you would like to change the credentials, please enter them now and click **Install.**

IP Enterprise Setu	1p	
1996) - 1998 1997, 19	duct configuration se to store the configuration data.	3
Provide a va installed.	alid user name and password for the SQL se	rver that will be
SQL Server :	localhost	Test Connection
SQL Username :	sa	
SQL Password :	•••••	
rsion 5.5.25.1		
	< Back	Install

6. IP Server is installed. To initialize and configure it, see <u>Initialization</u>.

Initialization

You must activate and initialize IP Server before you can use it.

To activate IP Server with a serial number:

1. If you are activating IP Server with a serial number, click **Next**. If you are activating by phone, click **Next** and go to page <u>34</u>. If you are activating a demo, click **Next** and go to page <u>35</u>.



	IP Server Enterprise Activation
Serial number *	
Activate or up	ograde your license through the Internet
On a ma	chine with an internet connection, activate the IP Server by entering the serial and press the Next button. This will upgrade your license to most recent amount.
Activate by pl	none
	chine with no internet connection, use the 'Activate by Phone' method. ared with the following information:
Ha	dware Code 000C2948F5D0
Call Tec	hnical support at: (713) 621-9779 Monday - Friday, 8:30AM to 6:30 PM CST
Act	ivation Code
🔿 Demo mode	
	e unable to perform either of the two above methods, then enter the system in 'Demo You can configure the system and active the system at your earliest convenience.
* The se	rial number is found on the product package and on the sales receipt

2. Enter the five character alpha-numeric serial number provided to you at the time of purchase and then click **Next**.

Clicking **Cancel** will abort the installation and the server will not start automatically.

Note

Select Activate by Phone and call 713-621-9779 if you are having a problem activating the software with your serial number, or select Demo mode to start recording immediately.

Toll charges may apply.

4. Enter your user information if you would like to be notified of updates and releases, and then click **Next**.

If you would like to enter this information later, select Register Later and then click **Next**.

IP Server Enterprise Edition - Initialization Wizard				
IP Server Enterprise Registration				
Please register your product by filling out the form below. Registered users receive one year of technical support and product updates. If you have an Internet connection, select "Register Now". If your information changes, you can update the information at any time. If you do not have an Internet connection, please uncheck the box "Remind me later" and press the "Next" button.				
Product Information				
Serial Number	2B0B7	Check/Upgrade Support Expiration Date		
Product Version	4.3.0.56			
User Information				
Authorized Phone Numbe	r	* City		
Name	•	* State		
Company	/	Zip code		
Address	S	Country		
* Required field		Email		
Remind me later		Register Later Register Now 		
		Cancel < Back Next >		

IP Server automatically detects most settings for you. Verify the information or make changes, then click **Next**.

Note

Recording to a shared location requires a user with write permission to that share or recordings will not be saved.

Server Name: The default is "IP Server – "and the detected IP address of this server. You can change this to a more friendly or meaningful name. Do not use special characters.

IP Address: This is the selected server's IP address and should not be changed.

Version: The current version of the software.

For additional settings click **Advanced**. The Default Port is 4010 and the Command Port is 4011. Do not change these values unless the ports are already in use by another program.

SQL Server Location: This is the location or IP address of the database server. 'Localhost' indicates that the database and Microsoft SQL server are local to the host computer. An IP address in this field indicates the Microsoft SQL Server is located on another computer.

To test the connection click **Test DB**. Click **Advanced** to modify the database connection string values: Database Name, IP Address, SQL Server User ID and Password.

erver Configuration	e Edition - Initialization Wizard		
	IP Server -10.10.1.189	Database Information Sql Server Location	localhost
IP Address Version	4.3.0.56		Advanced
Video Storage	Advanced		
Video data storage c:\video	path * Browse		
* Note: If using a N (i.e. \\v4\share\vi	letwork Drive, use the UNC path deo)		
		Canc	el < Back Next >

To test the connection click **Test DB**. Click **Advanced** to modify the database connection string values: Database Name, IP Address, SQL Server User ID and Password.

Video Data Storage Path: This is the location where all the recorded video will be saved. The default is the local OS drive (i.e., C). The video folder is created automatically once server configuration is completed. You can choose to save video to several different locations:

Local server drive: For example, C:\video Alternate local drive: For example, D:\video Shared drive: For example, \\v5\vshare\HHSvideo

This license supports	10	cameras.	Cameras to be Monitored
You selected	0	camera(s) .	
Auto Discovery	10	remaining.	
Manual Add			
			4
Inassigned Cameras			
		Add ->	
		<- Remove	1
	Load		
Class List Delate	LUGU	1	Sort cameras alphabetically
Clear List Delete			

1. Add cameras using Auto Discovery, Manual or Add Add/ Remove as needed. See Adding Cameras for more information on adding cameras. Click **Finish**.

IP Server	×
Congratulations, setup is complete. IP Server will now run as a service. For additional configuration options, run the IP Server Control Panel.	
ОК	

2. Click **OK**.

3. Click **Yes** to restart the computer.

Use one of the following steps to activate IP Server.

IP Server Enterprise Edition - Initialization Wizard	×		
IP Server Enterprise Activation			
IP Server Enterprise Activation			
Serial number *			
Activate or upgrade your license through the Internet			
On a machine with an internet connection, activate the IP Server by entering the serial number and press the Next button. This will upgrade your license to most recent amount.			
Activate by phone			
On a machine with no internet connection, use the 'Activate by Phone' method. Be prepared with the following information:			
Hardware Code 0003FF2F054E			
Call Technical support at: (713) 621-9779 Monday - Friday, 8:30AM to 6:30 PM CST			
Activation Code			
O Demo mode			
If you are unable to perform either of the two above methods, then enter the system in 'Demo Mode.' You can configure the system and active the system at your earliest convenience.			
* The serial number is found on the product package and on the sales receipt			
Cancel < Back Next :	-		

Select Activate by phone.

Call the phone number displayed. Give the representative your serial number. If you do not have one, the representative will ask you for a hardware code. If the account is in good standing you will be given a 16 digit activation code. Enter the activation code and then click **Next**.

Activate Using Demo Mode

Selecting Demo mode will allow IP Server to operate normally for up to 30 days using up to 99 cameras. Once the 30-day period has expired the software will no longer record or display live images. IP Server will fail to start until initialization is completed with a valid serial number or activation code. Reinstallation is not required.

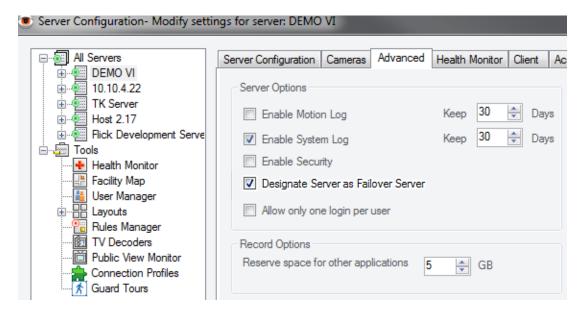
Failover Server

A fault-tolerant feature of IP Server is the ability to designate a failover server. Once designated and configured, the failover server can take over from another server that has gone offline.

To designate a server as a Failover Server:

- 1. Click Administration -> Setup and Configuration from the main menu.
- 2. Select the desired failover server from the left navigation pane.
- 3. Select the Advanced tab.

4. Check the "Designate Server as Failover Server" box.



Avoid selecting a server that is actively monitoring cameras. Figure 4 shows the warning that appears if a server with existing cameras is selected as a Failover Server.

Figure 4: Warning generated when designating a server that is actively monitoring cameras.

Monitor St	ation
<u> </u>	Warning: A Failover server should not be actively monitoring cameras. This can cause load balance problems.
	ОК

If a failure occurs the transfer of the camera(s) to the Failover Server will take approximately 5-10 minutes to recover. During that time the Monitor Station on the Failover Server will show all cameras and images from the offline server and all recorded video will be recorded to the Failover Server or a previously configured shared location.

Note

You can also access Server Properties by right-clicking the server name in the left navigation and selecting Properties, selecting the Advanced tab and then selecting Configuring a Failover Server.

Monitor Station Client

The Monitor Station client is installed automatically with either IP Server install or <u>IP Server installation</u> with an existing SQL installation so a client is easily accessible from the server. In some cases a client-only install is needed for active visitor monitoring personnel.

To perform a client-only installation:

1. Double-click the Setup executable applicable to your system type: 32- or 64-bit OS.

😚 Monitor Station Setup	x
License Agreement Please accept the license terms before installing the software.	
Press Page Down to see the rest of the agreement.	
Video Insight Software License Agreement IMPORTANT – READ CAREFULLY BEFORE ACCESSING VIDEO INSIGHT SOFTWARE: This license agreement ("License Agreement") is a legal agreement between the user (referred to herein as "You" or "Licensee", and meaning either an individual or a single entity) and Video Insight, Inc. and its suppliers (collectively, "Video Insight" or "Licensor") for the Software (the "Software"). BY USING OR ACCESSING THE SOFTWARE; LOADING THE SOFTWARE OR ALLOWING THE SOFTWARE TO BE LOADED; OR UTILIZING ANY DEVICE OR OTHERWISE UTILIZING THE SERVICES OR FUNCTIONALITY OF THE SOFTWARE, YOU AGREE TO BE BOUND BY THE TERMS OF THIS LICENSE AGREEMENT. IF YOU DO NOT AGREE TO THE TERMS OF THIS LICENSE AGREEMENT,	
If you accept the terms of the agreement, dick I Agree to continue. You must accept the agreement to install the application.	
I Agree Cano	el

2. Click **I Agree** to accept the terms and continue the installation. If you do not agree or do not want to continue the installation, click **Cancel**. Select Monitor Station install and then click **Next**.

😙 Monitor Station Setup	- - X
Choose Install Location Choose the folder in which to install the application.	
Setup will install the application in the following folder. To install in a different fo Browse and select another folder. Click Next to continue.	older, click
C:\Program Files\VI Enterprise Brow	wse
Space required: 118.4MB Space available: 857.1GB Version 5.5.25.1 < Back Next >	Cancel

3. To accept the default destination folder, click **Install**. To choose another destination enter the destination path or click **Browse**, then click **Install**.

😚 Monitor Station Setup	
Installing Please wait while the application is installed.	Ţ
Output folder: C:\Program Files\VI Enterprise	
Version 5.5.24.9	Cancel

- 4. When installation is complete, click **Next**.
- 5. Click **Finish**.
- 6. Click **Yes** if prompted to reboot.

7. Monitor Station is now installed and ready to be initialized and configured. Double-click the Monitor Station icon on your desktop.

8. Enter login credentials or accept the default login, and click **OK** to continue.

9. At least one server must be entered into the Server Setup dialog box before the client can be used.

Server Setup Known Video Servers				×
Server Name	IP Address	Port	Status	Add New Remove Connect Properties
Export List Import List Clea	ar License	ОК	Cano	el Apply

You can enter server information one server at a time or add servers automatically.

Adding servers manually

To add a server manually:

1. In the Server Setup dialog box click **Add New**.

Add Server	×
Add New Server	
Server IP Address	10.10.1.175
Port	4011
Status Login E	Test
	Add Close

2. Enter the IP address or name of the server to connect to, and the port if different from the default.

3. Click **Test** to initiate a connection. There are three possible outcomes:

Login Error: The server is found but security is on and the server attempted to authenticate the login with the initial credentials used to login to Monitor Station. The server default login is Administrator/*blank for the password*). You can still add the server. Then logout of Monitor Station login again with the right credentials.

No Server Found: Either the IP address, server name, server port or both are incorrect. Enter the correct values and then click **Test** again.

Server Found: The server is found and a successful connection was made using the current credentials (Administrator/blank). The server's name is displayed in the Status field.

- 4. Click **Add**.
- 5. Repeat steps 1-5 for additional servers if needed.
- 6. Click **Apply** and then **OK**.

Adding servers automatically

In a large organization it is possible to have upwards of 20 video surveillance servers across multiple locations. You can easily add a long list of servers at one time using the import feature.

You need an exported list of servers before you can import them using this feature. The file format is .LSL. See the <u>Login</u> section for instructions on how to create this file.

- 1. In the Server Setup dialog box click **Import List**.
- 2. Enter the file name or click **Browse** to go to the location of the saved .LSL file.

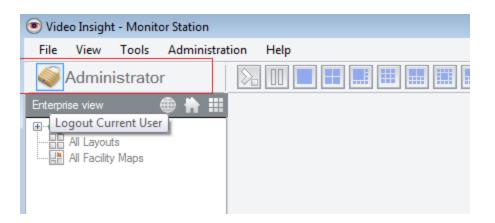
Import Server Data	—
This will import a server list from a previously Export session.	saved
File Name	
\\V5\vshare\Sarit\Servers.lsl	Browse
Note: Currently connected servers will need	to reconnect.
ОК	Cancel

3. Click **OK**.

4. If the file is unreadable or not found an error will display. If the import is successful the full list of servers will display in the Known Video Servers grid. You will be prompted to restart Monitor Station.

Server Name		IP Address	Port	Status	Add New
Video Insight Test Lab		10.10.1.175	4011	Not Connected	Remove
IP Server -10.10.5.100		10.10.5.100	4011	Not Connected	
IP Server -10.10.5.131		10.10.5.131	4011	Not Connected	Connect
IP Server -10.10.5.134		10.10.5.134	4011	Not Connected	Properties
IP Server -10.10.5.141	_	10.10.5.141	4011	Not Connected	
IP Server -10.10.5.113	IP Server				- ×
IP Server -10.10.5.113	IP Server	Warning: The change you restart before the effects c			

- 5. Click **OK**.
- 6. Click **Apply** and then **OK**.
- 7. Restart Monitor Station by clicking the Lock icon on the upper left of the main dashboard.



8. Enter the credentials to login to the desired server(s) or click **OK** to bypass the Login dialog box without any credentials.

Web Client

You can use the Web Client to view live or recorded video from anywhere using a supported browser. Support browsers are:

- Microsoft Internet Explorer with optional ActiveX-plug-in
- Google Chrome
- Apple Safari

You can use the Web Client to control PTZ cameras and playback recorded video. The system supports multiple users and is tightly integrated into the Windows operating system for complete security.

The Web Client is automatically installed if Microsoft IIS is configured.

Configuring IIS

Consult your operating system manual for information on how to install and configure IIS.

Accessing the Web Client

Version 5.5 of the Web Client offers:

- Seamless playback
- Simplified navigation
- Intuitive clip creation
- Optional H.264/MPEG streaming
- Snapshot Feature
- Customization
- Advanced configuration

To start the Web Client:

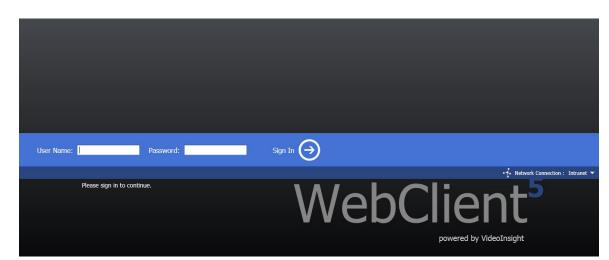
1. Start your Internet browser.

2. Navigate to http://[your server's IP address]/videoinsight/default.aspx.

3. If Security is off, you will see servers and cameras ready for viewing. If Security is on a login, a prompt displays.

Note

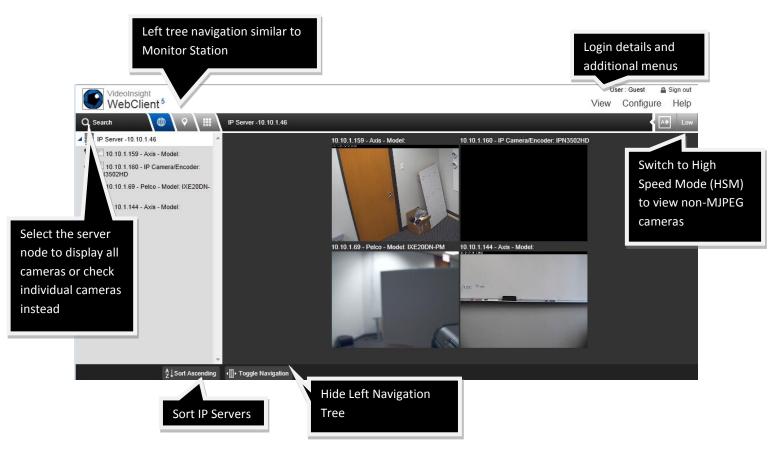
The Profile option is used primarily when you are accessing the system over the Internet or when you need to limit how much bandwidth you use for video. For example, you can have an intranet user profile that permits high-speed video over a LAN and an Internet user profile that limits video frame rates for use on slower Internet connections.



- 4. Enter your user name and password.
- 5. Select a profile from the drop-down menu.
- 6. Click Sign In.

Using the Web Client

After login the Web Client displays as shown in figure below.



Icon indicates

a PTZ camera

Left navigation tree structure

The left navigation tree structure in the Web Client functions in much the same way as in the Monitor Station. At the top of the tree there are three options for sorting the tree:

Enterprise View (default)

Facility Map View

Layout View

Enterprise View

Enterprise View is the default view and orders the navigation tree based on the server hierarchy. You can use this view to display cameras, layouts and facility maps for each server.

You can click the magnifying glass to search all of the Enterprise, Facility Maps and Layouts nodes.

Facility Map View

Facility Map orders the navigation tree based on the facility

hierarchy. You can use this view to display cameras and layouts for each facility map.



Selecting a facility map displays it in the viewing pane. Moving the mouse over a camera icon on the map brings up a live view from that camera.

Search

Universal

🛜 📃 axis

IP Server -10.10.5.194

👕 🔲 10.10.5.44 - Advidia

C New Camera

Top Down

👕 📃 testtesttest

10.10.5.35 - Hikvision - Model:

🐨 🔲 10.10.5.41 - Advidia - Model: A-45

👕 🔲 10.10.5.36 - Advidia - Model: A-45

T 10.10.5.42 - Advidia - Model: A-45

608

608

113

115

114

112 110 410

406

404

402

407

RR

403

401

107

i.

Courseling Office

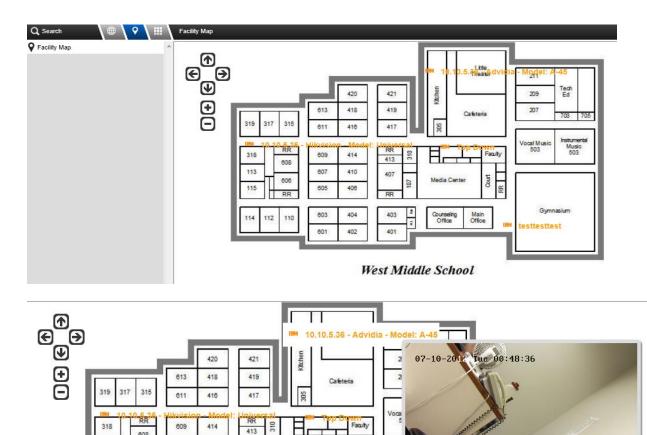
607

605

603

601

Camera 01



Layout View

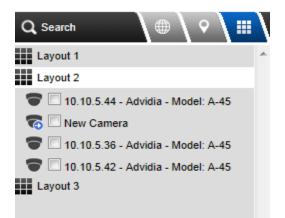
Layout View orders the navigation tree based on the layout hierarchy. You can use this view to display cameras for each layout.

Use the arrow controls to move the Facility Map or use the plus and minus controls to zoom in or out.

RR Count

Main Office

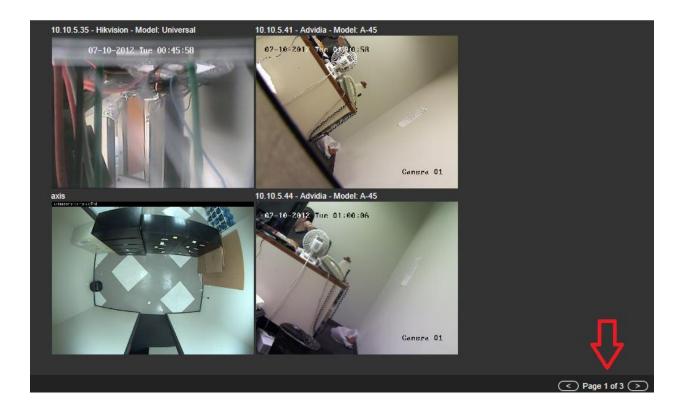
Selecting the layout from the tree displays the layout on the right side of the screen. You can also select individual cameras from each layout, or mix and match multiple layouts and cameras by checking the box next to each item. Expand a layout by clicking the Layout name to view the included cameras.



Layouts toolbar

The collapsible section in the top right offers several different options for layouts. Click the desired layout to rearrange the cameras. If the number of cameras selected exceeds the number of cameras displayed by the layout view, the extra cameras are viewable on pages accessible at the bottom-right of the screen, as shown in Figure x.





You can also have a layout automatically selected for the number of cameras checked. For example, if

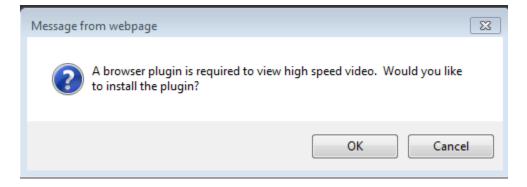
only one camera is currently displayed and there are four cameras checked, click the icon and the view will automatically change to the 2x2 layout.

High Speed mode

Low Speed mode is the default streaming mode which utilizes higher bandwidth and higher processing power on the server. However, you may need a better refresh rate or you may be viewing MJPEG cameras High Speed Mode has the added benefit of lower bandwidth.

To activate High Speed mode:

1. Click the button in the Layout toolbar to turn on high speed mode.



2. Click OK.

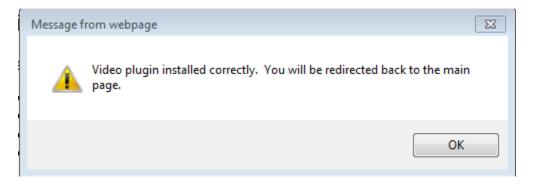
VideoInsight Video Control

Installing the latest video plugin provides :

- · High speed streaming video
- Support MPEG-4, H.264, & other video standards
- · Lower bandwidth usage
- DirectX hardware rendering (with supported graphics cards).



3. Click Install now.



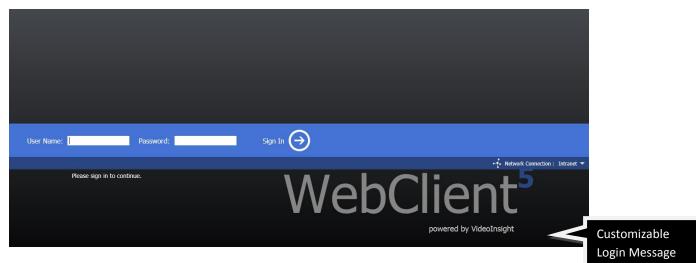
4. After the ActiveX plug-in successfully installs, click **OK**.

Configuration menu

The Configuration menu has several options for further customization. When you make changes to options available on this menu they affect ALL other Web Clients connected to the server.

1. Click **Configure**. The notification shown in the figure below displays even if Security is on.

You do not have permission to modify settings. Please sign in with an administrative account.



2. Click the sign in link.

- 3. Enter an Administrator-level user name and password and then click **Sign In**.
- 4. Click **Configure** again.

You can change options in four catagories:

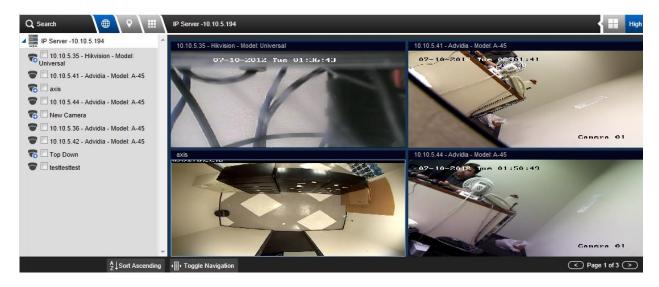
- Video
- Navigation
- Content
- Login

Video

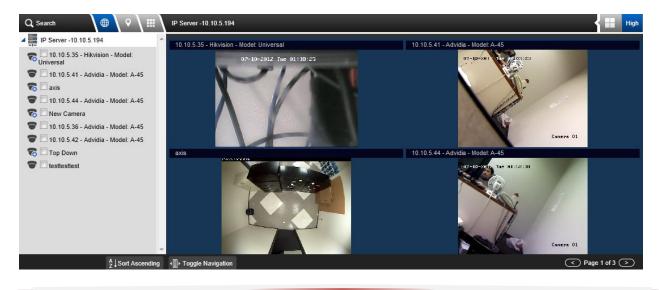
Set to high speed by default – This option applies to Internet Explorer only and prompts all subsequent Web Client connections to install the High Speed Mode ActiveX plug-in.

Preserve aspect ratio – All cameras are displayed at a 4:3 aspect ratio for layout and maximized use of the viewing area, but you can check this box if you want to display the camera's actual resolution.

The figure below shows a layout without Preserve aspect ratio checked.



The figure below shows the same layout with Preserve aspect ratio checked.



Buffer recorded video – Every time recorded video is played back a temporary file is created in the local TEMP directory for faster viewing later. Buffering recorded video this way obviates the need to download video files over and over again. You can delete these files from the directory if local storage consumption becomes an issue.

Limit video streaming to 'X' minutes – Zero is the default value and means there is no time limit for live streaming. You can change this value if you do not want to waste bandwidth on inactive viewers. The figure below shows a video session that has timed out due to inactivity.

IP Server -10.10.5.194		A	High
	Your video session has been closed in order to conserve bandwidth. Please refresh the page or click here to continue viewing.		

You can resume streaming by clicking where indicated or refresh your browser.

Navigation

Navigation

Show navigation panel





Show Maps by default



You can hide the navigation panel by unchecking the box for Show navigation panel.

Content

Stretch map to fit screen – This option stretches a smaller facility map to fill most of the Facility Map viewable area.

Show camera labels – This option is checked by default, but when unchecked camera names are not displayed on the facility map, just the camera icon.

Show map labels- This option is unchecked by default, but when checked the nested Facility Map name displays on the map.

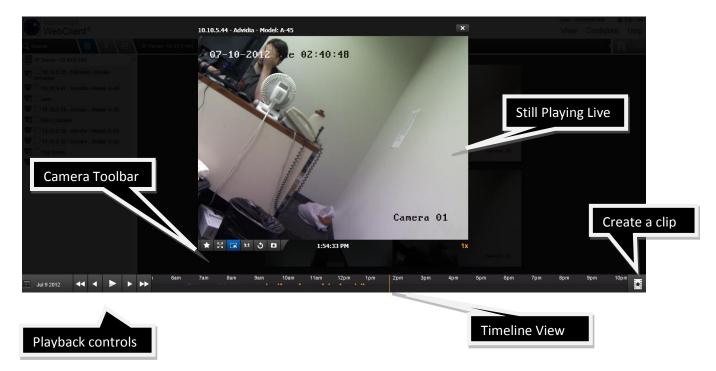
Login Message – This is an empty text field by default. You can use it to display a message up 255 characters long to Web Client users. The message displays on the main login page when Security is on or when accessing the Configure menu.

The figure below shows a sample message.

User Name: Administrator Password:	Sign In 🔿
Please sign in to continue.	WebC
Thank you for being our customer.	

Viewing recordings

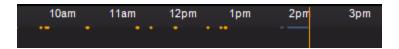
You can view a recording using the Web Client by clicking a camera from the live view. When you click a camera in the live view it is brought into focus as shown in the figure below.



The timeline at the bottom indicates the time and type of recording. Orange dots indicate a recording of motion events only, and a solid blue line indicates a recording without motion events.

To begin playing, click and hold the time point and drag it left or right, then release it at the point desired.

The figure below shows a camera timeline where the recording type was changed from Motion-only to Record Always.

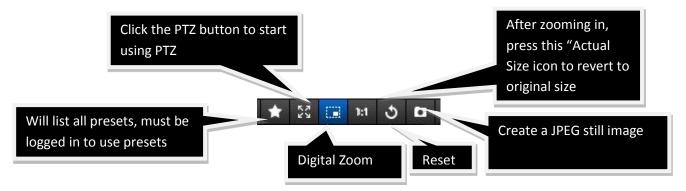


You can expand the calendar on the bottom left to see if recordings are available for a particular day. Days with recordings are indicated by orange text.

<		Ju	y 201	2		>
Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2	3	4	5	6	7
8		10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				
	Ju	192	012			ŀ

Camera toolbar

The camera toolbar at the bottom of the view has several functions:



To create a clip for later playback or distribution:



- 2. Drag and drop the time point or enter the exact time.
- **3.** Use the blue handles to lengthen or shorten the clip time.

4. Click the **L**icon to begin the download.



5. When the progress bar reaches 100%, choose whether to save or open the clip.

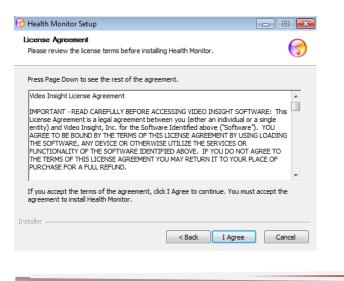
Health Monitor

To install Health Monitor:

1. Double-click accsetup.exe.



2. Click Next.



3. Click **I Agree** to accept the License Agreement and continue, or click **Cancel** to terminate the installation.

🕣 Health Monitor Setup	- • •
Choose Install Location Choose the folder in which to install Health Monitor.	(
Setup will install Health Monitor in the following folder. To install in a c Browse and select another folder. Click Next to continue.	lifferent folder, dick
Destination Folder C: \Program Files\VI Enterprise	Browse
Space required: 12. 1MB Space available: 55. 2GB Installer	ext > Cancel

- 4. Accept the default destination folder or enter or browse to another location. Click **Next**.
- 5. Click Install.

😚 Health Monitor Setup	
Choose Start Menu Folder Choose a Start Menu folder for the Health Monitor shortcuts.	Ţ
Select the Start Menu folder in which you would like to create the program's can also enter a name to create a new folder.	shortcuts. You
VI Enterprise Health Monitor Accessories Administrative Tools Games Maintenance RealVNC Startup Tablet PC VI Enterprise	
Installer	Cancel

- 6. Accept the default Start Menu folder or enter or select another. Click **Install**.
- 7. Click **Finish**.

Customization

Video Insight software offers features and capabilities beyond those addressed during installation and initial configuration.

IP Server

After IP Server is installed and configured, you can use both Monitor Station and the <u>IP Server Manager</u> <u>Utility</u> to customize server settings. Administrative-level access is required to make changes.

Note

You can also access Server Properties by navigating to Administration, selecting Set up and Configuration and then selecting your server.

To customize IP Server using Monitor Station:

- 1. Launch Monitor Station.
- 2. Right click the server name in the left navigation pane and select Properties.

Setup and Configuration tab

The Server and Configuration tab displays information about the server, database and video storage path. It is the same tab that displays during IP Server initalization.

Setup and Configuration	Cameras	Advanced	Health Monito	r Client	Access Cor	nfiguration	Contact Information	
Server Identification Server Name Vic IP Address 10.	leo Insight 10.1.175	Test Lab			se Informatior ver Location		Advanced	l J
Version 4.3	8.0.58							
Video Storage								
Video data storage pat	h*							
C:\video								
* Note: If using a Netv (i.e. \\v4\share\video		use the UNC	path					

Note

Recording to a shared location requires a user with write permission to that share or recordings will not be saved.

Server Name: The default is "IP Server – "and the detected IP address of this server. You can change this to a more friendly or meaningful name. Do not use special characters.

IP Address: This is the selected server's IP address and should not be changed.

Version: The current version of the software.

SQL Server Location: This is the location or IP address of the database server. 'Localhost' indicates that the database and Microsoft SQL server are local to the host computer. An IP address in this field indicates the Microsoft SQL Server is located on another computer. Click **Advanced** to modify the database connection string values: Database Name, IP Address, SQL Server User ID and Password. To change advanced SQL settings, use <u>IP Server Manager Utility</u>.

Video Data Storage Path: This is the location where all the recorded video will be saved. The default is the local OS drive (i.e., C). The video folder is created automatically once server configuration is completed. You can choose to save video to several different locations:

- **Local server drive:** For example, C:\video
- Alternate additional drive: For example, D:\video
- Shared drive: For example, \\v5\vshare\HHSvideo

Cameras tab

The Cameras tab displays information about monitered cameras, unassigned cameras and camera licenses. It is a centralized location to manage cameras on a server.

Setup and Configuration	Cameras	Advanced	Healt	h Monitor	Client	Access Configuration	Contact Information	
Т	nis license s	upports 99		camera	s.	Cameras to be Monitore	ed	
	You s	elected 25		camera	(s) .	a 10.10.1.159 - Axis a 10.10.1.153 - Acti	_	
Auto Discovery		76		remainii	ng.	i 10.10.1.136 - IQE)		
Manual Add						10.10.1.122 - Acti	- Model: TCM341*	
Import from 3.x						a 10.10.1.136 - IQE a 10.10.1.153 - Acti		\Diamond
Unassigned Came	ras ———]		a 10.10.1.184 - Axis		
© VP16-14						10.10.1.243 - Axis	- Model:	
🤖 VP16-3				Ad	d ->	a 10.10.1.245 - Axis a 10.10.1.29 - ONVI		
© VP16-6 © VP16-8				<- Re	move	a 10.10.1.76 - IP Ca		
(a VP16-9			⊒			10.10.1.127 - ON	/IF: Firmware:	
	D 1 1					🧰 10.10.1.136 - IQE) ◀	ye - Model: IQ0429 💌	
Clear List	Delete	Load	1			Sort cameras alpha	betically	

This license supports: Shows the maximum number of IP cameras allocated to the serial number assigned to the server. Using a Video Insight encoder such as the VP16 will show a value of zero in this field, but all 16 channels of the encoder can be added.

The license count adjusts automatically as cameras are added to or removed from a server.

You selected: The number of cameras in the Cameras to be Monitored pane.

You can add cameras in two ways: Auto Discovery and Manual Add

Unassigned Cameras: This field shows all cameras that are not assigned to the selected server. These cameras were previously added and removed and remain in the database for reuse. If sharing a database with multiple servers you can quickly un-assign cameras from one server and re-assign them to another server using this tab. Unassigned cameras do not use a license.

Click **Clear List** to permanently delete all unassigned cameras, **Delete** to permanently delete the selected camera, and **Load button** to load cameras from the database.

Cameras to be Monitored: This field shows all cameras assigned to the selected server. Each camera in this field uses a license. You can reorder their position in the Main dashboard by selecting a camera and clicking either the up or down buttons. You can also check the box to sort them alphabetically.

Advanced tab

The Advanced tab displays information about server, view and record options.

Server Configuration Cameras	Advanced	Health Monitor	Client	Acces	ss Configuration	Contact Information	
Server Options					View Options		
Enable Motion Log		Keep 30	🗧 Day	s	Optimize Video	Streams	
🔽 Enable System Log		Keep 30	🔶 Day	s	Low CPU \	High Bandwidth	
Enable Security					High CPU	Low Bandwidth	
Designate Server as Fa	ilover Server						
Allow only one login pe	user						
Record Options							
Reserve space for other ap	Reserve space for other applications 5 GB						
Live Display Options							
Server timeout 30	minutes (0) to turn off)					

Enable Motion Log: The default for this field is 30 days. The maximum number is 1000. In order for the server to save the Motion Log at least one camera must be using Motion-only Recording or Record Always with the <u>Calculate Motion Detection</u> checkbox found on each camera's Record tab. All Motion Logs can be viewed from either the <u>Alarm Log</u> or Motion Events.

Enable System Log: The default for this field is 30 days. The maximum number is 1000. The System Log is a great way to track user actions, server and camera changes as well as troubleshoot issues. See <u>System Log</u> for more information.

Enable Security: Security is off by default. In this state any user can modify both Client and Server settings. Check the box to turn Security on. When checked, both admin and non-admin users must have valid credentials to login. See <u>Security</u> for more information on security.

Designate Server as Failover Server: Check this box to assign the role of Failover Server to this server. A Failover Server is used to assume responsibilities of recording and monitoring in the event that another server fails.

Server timeout sets the timeout period at which point the Monitor Station will no longer receive video streams and will pause. Server timeout is set at the server level; however, it is Monitor Stations and Web Clients that are checking for activity. Activity is defined as mouse movement. For example, a Monitor Station has an active user who is viewing several cameras while actively moving the mouse from pane to pane. Another Monitor Station has the application running and a passive user. With a Server timeout set to five minutes, the first Monitor Station will remain active while the second Monitor Station will eventually pause. The software will stop the video stream when live video is paused. This reduces bandwidth consumption.

Allow only one login per user: Check this box to restrict the number of concurrent logins permitted per non-admin users from different IP addresses. Non-admin users can still login multiple times from the same computer. Checking this box does not restrict the number of logins an Administrator can have.

Reserve space for other applications: This option sets the amount of storage that will NOT be used by the Video Insight server to record video. The default is 5 GB, regardless of the save location. As recording video is a continuous process the server determines when storage is becoming limited and approaching Reserve Space, at which point the Server Deletion Routine will initialize to delete the oldest video first to free storage for new video. The deletion process only deletes one file at a time, not whole folders, to free storage.

The Server checks the amount of free storage every 5 minutes. When it is smaller than the amount of reserved storage the deletion routine executes. If the amount of Server storage is large enough, the Server will only need to delete the oldest day folder. If Server storage is extremely small or Reserved Disk Space is set high, the deletion routine will delete the current day's video, beginning with the oldest hour recorded.

Live Display Options: This area of the application will allow you to configure the time in which the server will stop displaying live video feeds.

Note

Reserve Disk Space is not an exact number; a percentage of the server Total Disk Space is also taken into account: Reserved Disk Space = Max (8% x Total Disk Space [Reserve Disk Space]). For example, with a 2 TB disk and Reserve Disk Space set to 10 GB, IP Server will reserve 160 GB. In another example, with a 50 GB disk and Reserve Disk Space set to 10 GB, we will reserve 10 GB.

Optimize Video Streams: You can choose Low CPU\High Bandwidth or High CPU\Low Bandwidth depending on your organization's infrastructure or policies. If you choose Low CPU\High Bandwidth you will be relying heavily on your network's performance to send uncompressed images directly to the Monitor Station. If you select this option you should carefully consider the resolution size, bit rate and FPS and number of cameras you will be using.

If you select High CPU\Low Bandwidth, video and image compression occurs at the server level. The server sends a compressed MPEG4 image to the Monitor Station or Web Client. The server compresses the image, sends them and then decompresses them. It allows the system to get a much higher frame rate over slower networks.

Health Monitor tab

The Health Monitor tab displays information about the Health Monitor service and server.

Health Monitor is a separate application available in the suite of Video Insight products aimed at monitoring the health of your servers. Only one Health Monitor is needed per farm of servers. See <u>Health Monitor</u> for instructions on installing and configuring.

Setup and Configuration Cameras Advanced H	ealth Monitor Client Access Configuration Contact Information
ensure server uptime and reporting of any issues a send email alerts to the appropriate individual if me	round and monitors the receipt of messages from other video servers to ffecting the servers or cameras. The Health Monitor can be configured to ssages from the servers are not received within the pre-determined time ne Health Monitor on camera operation and disk storage usage.
Enable Health Monitor	Server Name Video Insight Test Lab
Information to send to the Health Monitor	Health Monitor Server
Version Number	IP Address 10.10.1.154
🗹 Lost Signal	Server Port 11000
Camera information	Send Frequency
	,

Enable Health Monitor: Check this box to have the server send a message to Health Monitor in preparation for its configuration in Health Monitor. Health Monitor will not be aware of the server until the server's properties are added to Health Monitor.

Version Number: Check this box to send the IP server version to the Health Monitor.

Lost Signal: Check this box to have the server notify the Health Monitor should a camera lose signal or a server stops responding. Time intervals are set in Health Monitor.

Camera information: Check this box to have the server include camera information when sending camera issues to Health Monitor.

Server Name: The IP Server's name is the default. You can edit this field.

IP Address: Enter the IP address of the Health Monitor server.

Server Port: The Health Monitor server port defaults to 11000. If this port is already in use, open another port and enter it here.

Send Frequency: The default is to send an email every minute. You can select interval of one minute to 24 hours.

Client Tab

The Client tab displays information about client communications.

Setup and Configuration Cameras Advance	d Health Monitor Client Access Configuration Contact Information
[Outgoing Email
Use Data Port 🛛 4010 📑	SMTP Server VIC4 SMTP Port 25 🚍
Command Port 4011 📑	SMTP Logon Information
Maximum Connections 64	User Name swilliams
	Password ******
Launch Windows Group Policy Editor Group Policy Editor	 SMTP server requires authentication SMTP server requires encryption (SSL)
	Send Test Email
	Email to Send
	Email from TestMessage@lpVideoServer.net

Use Data Port: The port the IP Server uses to send live video to the Monitor Station.

Command Port: The port the Monitor Station uses to get and set system information.

Maximum Connections: The maximum number of Monitor Stations that can be connected to the server at one time. Additional processing power is required for each remote client connected.

Launch Group Policy Editor: This is an administrator feature in environments where the organizational security policy for video monitoring personnel is extremely limited. An administrator with appropriate credentials on the Monitor Station can launch the Microsoft Windows Group Policy Editor from this tab.

SMTP Server: Enter the SMTP server's IP address or its name.

SMTP Port: The default SMTP port is 25.

SMTP Logon Information: Checking the box for SMTP server requires authentication and enter the SMTP user name and password here. Missing or invalid credentials can result in emails not being sent to the intended recipients.

If the SMTP server uses SSL encryption for incoming and outgoing messages, check the box for SMTP server requires encryption.

Send Test Email: Enter an email address to send a test email to. Leave the default From email address <u>TestMessage@IpVideoServer.net</u> or enter another. You can also leave it blank, but some SPAM filters may prevent the email from going through without a From address.

Click **Send** to send a test email like shown in the figure below. Two entries will also be made in the System Log.

Test Email

VITe	stServer@IpVideoServer.net
Sent:	Thu 12/22/2011 9:05 AM
To:	Sarit Williams

Test Email

Depending on the performance of your infrastructure, it may take a few minutes for the email to be routed from the Monitor Station to the IP Server, then to the SMTP server and finally to the destination inbox.

Access Configuration tab

The Access Configuration tab displays information about access control options and doors. It is used to configure various access configuration systems. See <u>Access Control Configuration</u> for more information on access control configuration.

Setup and Configuration Cameras Advanced Health	n Monitor Client Acces	ss Configuration Conta	act Information
Enable access control support Oracle Connection String SOURCE=ENVISION;USER ID=INSIGHT;PASSW		Control Type Blackbo	ard 💌 Test
Access Configuration Options	Imported Doors		
Log all card events in the event motion log	Door/Device Name	Server	Camera 🔺
Log Alarms in the system log	Door Contact		Not set
 Send alarms to Monitor Station Send entries to Monitor Station 	Door Contact		Not set
	Door Contact	Video Insight Tes	Not set
	Monitor Point #5	Video Insight Tes	Not set
	Monitor Point #6	Video Insight Tes	Not set
Polling Options	Monitor Point #7	Video Insight Tes	Not set
Update Alarms once every 999 📑 second(s)	Monitor Point #8	Video Insidht Tes	Not set
Update Events once every 409 📑 second(s)	Import Prop	perties Delete Doo	r Delete All

See <u>BlackBoard</u> and <u>MonitorCast</u> for more information on configuring these systems.

Contact Information tab

The Contact Information tab displays contact information for the server.

Setup and Configura	ation Cameras Advanced	Health Monitor Client	Access Configuration	Contact Information
Server Informati	on			
Server Name	Video Insight Test Lab	Description	This server manages a	
Building	Science]	installed in and around	the science building.
Floor	4th	City	Houston	
Room	313	State	Texas	
Phone	504-555-5555	Country	U.S.A	
Contact Informa	tion			
Primary Cont	act Officer Bert	Primary P	hone 713-281-2563	
Secondary Cont	act Judge Judy	Secondary P	hone 713-504-3325	
Police Num	per 713-281-HELP			
No	tes We do have a failover se or a network outage. Th			a power failure

The only default value on this tab is the Server Name. An Administrator can enter server information.

IP Server Manager

The IP Server Manger (IPSM) application is used to manage and troubleshoot advanced server settings. It is installed at the same time as IP Server.

The IPSM:

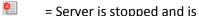
- Monitors the IP Server and presents visual status cues for each servers
- Provides a Diagnostics version of the IP Server Manager for troubleshooting and system optimization
- Manages IP Server network connections
- Manages licensing and registration
- Manages Lightweight Directory Access Protocol (LDAP) and Active Directory configuration

Options available in IPSM vary slightly depending on the installation type. See <u>Installation</u> for more information on installation types.

Accessing IPSM

The IPSM icon resides in the Windows System Tray. It has two possible states:

= Server is functioning properly; streaming video to clients, recording video and reporting to Health Monitor, if applicable



= Server is stopped and is NOT streaming or recording video

You can configure IP Server, manage the IP Server service, exit the application and see information about Video Insight by right-clicking on the IPSM icon.

Server Configuration
Restart IP Server
Start IP Server
Stop IP Server
Exit IP Server Manager About Video Insight

Select Server Configuration to manage the IP Server service, configure IP Server and terminate the IPSM application.

Select Start IP Server, Stop IP Server or Restart IP Server to start, stop or restart the IP Server service.

Select Exit IP Server Manager to terminate the IPSM application and remove the icon from the Windows System Tray.

Note

Terminating the application prevents clients from remotely restarting the IP Server service.

Select About Video Insight to display version information, technical support information and legal terms.

Configuring IP Server

You can manage service controls and configure IP Server by right-clicking the IPSM icon in the Windows System Tray and selecting Server Configuration.

Start	Stop Restart	
Start		
Configuration		
Options	Configure options to automatically restart the server on a schedule.	
System Log	View the current system log.	
Network Options	Configure connection options.	
Diagnostics	Stop the service, and run the diagnostic version.	
No Cameras	Run Diagnostics with the cameras not started.	
Update Activation	Update the activation code.	

The Service Controls Status field displays IP Server service status. Click **Start**, **Stop** or **Restart** to start, stop or restart the IP Server service.

Clicking **Close** closes the IP Server Manager dialog box but does not exit IPSM. To exit the IPSM application, click **Exit IP Server Manager** to terminate the IPSM application and remove the icon from the Windows System Tray.

Note

Terminating the application prevents clients from remotely restarting the IP Server service.

Click a configuration button to perform other functions:

- Options configure options to automatically restart the server on a schedule
- <u>System Log</u> view the current system log
- <u>Network Options</u> configure connection options
- <u>Diagnostics</u> stop the IP Server service and run the diagnostic version
- <u>No Cameras</u> run Diagnostics with cameras not started
- Update Activation update the activation code

Each function is detailed below.

IPSM: Options

Clicking **Options** brings up the Auto Restart Options dialog box. This dialog box offers several settings aimed at mitigating some organizational and server environment settings that could interfere with the IP Server service.

Auto Restart

Restarting the service can refresh streaming, bandwidth and CPU performance by releasing used resources. You can choose to automatically restart the service on a specific day and time. This flexibility to restart means that you can schedule it so as to not interfere with business hours.

Auto Restart Options	5		2
Auto Restart Delay Se	rvice Options		
Auto-Restart Enable Days to Restart Monday Tuesday	🔽 Friday	🗖 Sunday	
Wednesday Restart T	ime 12:00 AM	•	
	_	OK	Cancel

To set an auto-restart schedule:

- 1. Check the Enable box.
- 2. Select the restart day or days.
- 3. Select a restart time.
- 4. Click **OK**.

Delay Service

Delaying the IP Server service start is an option to consider if the server has many services that have to start in addition to the IP Service. The IP Server service may have trouble initializing without services such as the Microsoft SQL database service already running.

🧱 Auto Restart Options	x
Auto Restart Delay Service Options	
Use Delay Service Under certain circumstances, the time required to initialize the network takes longer than expected. So we provide a service that will delay before the starting the IP Service. This service will also monitor the system log and restart the service under certain failure conditions. Image: The service of the se	
OKCancel	

To set a startup delay:

- 1. Check the Enable Startup Delay box.
- 2. Select the startup delay time in seconds.
- 3. Click **OK**.

Options

In environments where both an Analog and an IP server are installed on the same server, and where bandwidth resources will likely be very highly utilized as a result, there is an option to restrict the Analog server's bandwidth consumption.

🔚 Auto Restart Options	×
Auto Restart Delay Service Options	
Analog Video Server Support.	ut
30 Seconds	
ок	Cancel

Enabling this option will terminate communication between the Analog and the IP server and no live streaming or recording will be done by the IP server when the timeout threshold has been reached.

For example, in a scenario with the timeout enabled and set to 30 seconds, there is a Monitor Station layout comprised of both analog and IP camera images. For 30 seconds, both streaming and recording is managed by the IP Server. When 30 seconds have passed the analog cameras will stop streaming and recording due to this feature. Changing the layout will restart streaming and recording for all cameras until the timeout is reached again.

To set an analog video timeout:

- 1. Check the Enable Analog Video Bandwidth Timeout box.
- 2. Select the timeout in seconds.
- 3. Click OK.

IPSM: System Log

Clicking **System Log** will bring up the System Log dialog box. The System Log documents warnings, errors, security and informational messages related to various system functions. Each message may or may not appear depending on the configuration and whether security is enabled on the server.

🛿 😋 🛛 Video Insight Test	Lab 🔹 System Log 👻 👬 Find	12/ 5/2011 💌
Time	Message	Source
12/5/2011 7:09:40 PM	Cannot delete File:(C:\video\10.10.1.159-1994466026\12.05.2011\18h06	GeneralTimer.CleanDrive()
12/5/2011 7:09:40 PM	Cannot delete File:(C:\video\10.10.1.136-705429626\12.05.2011\09h43m	GeneralTimer.CleanDrive()
12/5/2011 12:49:37 PM	Cannot delete File:(C:\video\10.10.1.159-1994466026\12.05.2011\09h22	GeneralTimer.CleanDrive()
12/5/2011 12:49:37 PM	Cannot delete File:(C:\video\10.10.1.136-705429626\12.05.2011\09h43m	GeneralTimer.CleanDrive()
12/5/2011 10:07:12 AM	A New Camera was added at 10:07 AM - 12/5/2011	CommandChannel.AddNewCamera
12/5/2011 9:14:09 AM	administrator has logged in at 9:14 AM - 12/5/2011	CommandChannel.GetServerClass
12/5/2011 9:14:08 AM	Video Server Task: Coldstore	Task Manager
12/5/2011 9:14:02 AM	Network Decoder Communication Error - Decoder ID:80432617	Network Decoder
12/5/2011 9:14:02 AM	Network Decoder Communication Error - Decoder ID:80432617	Network Decoder
12/5/2011 9:14:02 AM	Extended logging is enabled	Command Channel
12/5/2011 9:14:02 AM	Video Server started at 9:14 AM - 12/5/2011	Initialization
12/5/2011 9:13:53 AM	Video Server was shut down at 9:13 AM - 12/5/2011	Board.Close
12/5/2011 9:08:59 AM	administrator updated camera properties at 12/05/2011 9:08:59 AM : Ca	CommandChannel.UpdateCamera
12/5/2011 9:08:11 AM	administrator has logged in at 9:08 AM - 12/5/2011	CommandChannel.GetServerClass
12/5/2011 9:07:00 AM	Video Server Task: Coldstore	Task Manager
12/5/2011 9:06:55 AM	Network Decoder Communication Error - Decoder ID:80432617	Network Decoder
12/5/2011 9:06:55 AM	Network Decoder Communication Error - Decoder ID:80432617	Network Decoder
12/5/2011 9:06:55 AM	Extended logging is enabled	Command Channel

IPSM: Network Options

Clicking **Network Options** brings up the Network Options dialog box. This dialog box is used for selecting the network scheme when a server has dual NIC cards or changing the communication port of the server. You can also modify Active Directory and LDAP settings.

Network Options	— ×
Multi-Network Card Support Select Network Card 10.10.1.201	Connection Port
Directory Support	
Server: vicorp.vide	eoinsight.net 🛛 🖉 Modify settings
Credentials: vicorp\swi	illiams
Authorized Users and Groups	Give users or groups access to the system
User Permissions 🛛 🤘	View effective permissions
	OK Cancel

Note

If you change the Communication Port here, you must also change the command port in Server Properties.

IPSM: Diagnostics

Clicking **Diagnostics** brings up the Video Server Diagnostics interface. This interface is used for troubleshooting any service related issues. The IP Server service is stopped when Diagnostics is launched; however, recording and live streaming continue normally. The difference is that Video Server Diagnostics has a user interface and the IP Server service is a background process without a user interface.

Video Insight Test Lab Setup and configuration Live view System Log	Vital statistics display Server name Video Insight To Version 4.3.0.58		address 10.10.1.175 F ameras 99 Availa	Port 4011 Ible 86
	Camera Name	Time of last write	Last image received	
	10.10.1.76 - IP Camera/Encoder:	12:00:00 AM	12:00:00 AM	
	10.10.1.127 - ONVIF: Firmware:	12:00:00 AM	12:00:00 AM	
	10.10.1.136 - IQEye - Model: IQ042S	12:00:00 AM	3:45:36 PM	
	10.10.1.148 - Axis - Model:	12:00:00 AM	12:00:00 AM	
	10.10.1.151 - ONVIF: Firmware:	12:00:00 AM	12:00:00 AM	
	10.10.1.153 - Acti - Model:	12:00:00 AM	12:00:00 AM	
	10.10.1.159 - Axis - Model:	12:00:00 AM	3:45:36 PM	
	10.10.1.166 - IQEye - Model:	12:00:00 AM	12:00:00 AM	
	10.10.1.173 - ONVIF: Firmware:	12:00:00 AM	12:00:00 AM	

Server name: This field displays the server name previously entered. It is not editable. To change the name of the server, click **Setup** and configuration in the left pane or from Server Properties.

IP Address: This field displays the server's IP address and should not be changed.

Port: This field displays the port used by the Monitor Station to get and set system information. This port is also referred to as the Command Channel Port. See <u>list of ports</u> for more information on ports used by the software.

Version: This field displays the software version.

Max cameras: This field displays the maximum number of cameras allocated to the serial number assigned to the server. Using a Video Insight encoder such as the VP16 will show a value of zero in this field, but all 16 channels of the encoder can be added.

Available: This field displays the number of licenses available to add to the server.

The grid area of the Diagnostics interface is read-only and displays all cameras, the last video write time, if it is recording and the time the last image was received, or the last time a live image was received from the camera.

Time of last write: This column displays the last time the camera's images were recorded to a file. A time of 12:00:00 AM is indicative of a camera that is set to Recording Off or not recording due to a Motion-Only recording type.

Last image received: This column displays the last time the camera's live images were streamed. A time of 12:00:00 AM is indicative of a camera that is offline. The camera could be offline for several reasons:

incorrect credentials, network, bandwidth or the IP Server service not running. See the <u>FAQ</u> section for more information on why a camera could be offline.

To view the Setup and Configuration section of Video Server Diagnostics click that node from the left pane.

Video Insight Test Lab 🗿 10.10.1.76 - IP Camera/I	Setup and Configuration Cameras Advanced Health Mo	onitor Client Contact Information
 10.10.1.70 m Camera/ 10.10.1.127 · ONVIF: · 10.10.1.136 · IQEye · M(Server Identification	Database InformationSql Server Location localhost
	Server Name Video Insight Test Lab IP Address 10.10.1.175	Test DB Advanced
💼 10.10.1.153 - Acti - Mod 💼 10.10.1.159 - Axis - Mod		
値 10.10.1.166 - IQEye - Mc 🧰 10.10.1.173 - ONVIF: - 📬 10.10.1.184 - Axis - Mod	Version 4.3.0.58	
10.10.1.245 - Axis - Mod		
	Video data storage path *	
	C:\video	
	* Note: If using a Network Drive, use the UNC path (i.e. \\v4\share\video)	
-		

With the exception of the <u>Access Configuration tab</u> available in IP Server properties the tabs in this view are the same as <u>Server Properties</u> accessed from the Monitor Station. The cameras listed in the left pane can be managed in this view. Click the camera on the left and the camera's properties will be displayed.

Note

Remember to start the service when exiting the Diagnostics application.

Video Insight Test Lab 10.10.1.76 - IP Camera/I	General Record Video Settings Advanced Con	tact Information
- 🤖 10.10.1.127 - ONVIF: -	Camera Name 10.10.1.159 - Axis - Model:	Camera Information Manufacturer Axis
		Model Axis MJPEG Camera
		User Name root Password ***
		Shared IP Address Camera Number
		Alternate Ports
	Time Stamp Burn time stamp in video	RTSP 554
		Web Access: <u>http://10.10.1.159:80</u>

See Modifying Camera Details for more information on camera property tabs.

Two additional features for troubleshooting are available that are not available in Monitor Station, by highlighting the server node in the left pane: Test DB and Advanced.

Click Test DB to test connectivity to the database. The database test will pass when the server makes a successful connection to the database. If it does not, the test will display: "Error: Database version is not correct. Either the database did not respond, nor has an outdated version." There are several reasons why the database test failed. See FAQs for possible reasons for and potential solutions to the failure.

Incorrect database information may be one cause of test failure. To update or confirm the information click Advanced.

Database: Enter the database name. The default database name is InsightEnt.

IP Address: Enter either the IP address or the hostname of the database server.

User ID: The default user ID for the InsightEnt database is sa.

Password: The default password for the InsightEnt database is vinsight.

	Advanced DB Configuration	>
-		-

Edit this menu only if you are a Database Admin and you are using a Corporate SQL Server. This user name and password should not be changed.

– Database I	nformation	
	Primary Database	
Database	InsightEnt	
IP Address	localhost	
User ID	sa	
Password	*****	
	OK Cancel	

Video Server Diagnostics offers a live view feature. Clicking **Live View** in the left pane display a separate window with all of the cameras added to the server.

Video Insight Test Lab	🔸 Vital statistics display				
Live view		Server name Video Insight Test Lab IP address 10.10.1.175		Port	40
📖 🚋 System Log	Version 4.3.0.58	Max	cameras 99	Available	95
	Camera Name	Time of last write	Last image received		
	10.10.1.136 - IQEye - Model: IQ042S	12:00:00 AM	7:41:03 AM		
	10.10.1.159 - Axis - Model:	12:00:00 AM	7:41:03 AM		
	10.10.1.238 - Axis - Model:	12:00:00 AM	7:41:03 AM		
	10.10.1.245 - Axis - Model:	12:00:00 AM	7:41:03 AM	_	
ive Display					Exit
		4 10 10000		1	

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You can view the System Log by clicking the node in the left pane. See <u>System Log</u> for more information on the system log.

Wideo Insight Test Lab Setup and configuration Live view System Log	Vital statistics display Server name Video Insight To Version 4.3.0.58		address 10.10.1.175 ameras 99	Port 4011 Available 95
	Camera Name	Time of last write	Last image received	
	10.10.1.136 - IQEye - Model: IQ042S	12:00:00 AM	7:43:16 AM	
	10.10.1.159 - Axis - Model:	12:00:00 AM	7:43:16 AM	
	10.10.1.238 - Axis - Model:	7:41:45 AM	7:43:16 AM	
	10.10.1.245 - Axis - Model:	12:00:00 AM	7:43:16 AM	

IPSM: No Cameras

Another troubleshooting option is a diagnostics version that can run the application without starting any cameras. This version does not consume any bandwidth.

This version functions the same as the other version, with the exception that camera-related features and information such as Live View and Time of last write are not available after this diagnostics version is started. See <u>IPSM Diagnostics</u> for more information on running diagnostics.

IPSM: Update Activation

The Update Activation option is used to update the Activation type (e.g., transitioning from Demo to purchased licensing scheme) or when the serial number used is upgraded with additional licenses.

	IP Server Enterprise Activation
Serial nu	umber * 4DDAC
 Activ 	vate or upgrade your license through the Internet
	On a machine with an internet connection, activate the IP Server by entering the serial number and press the Next button. This will upgrade your license to most recent amount.
O Acti	vate by phone
	On a machine with no internet connection, use the 'Activate by Phone' method. Be prepared with the following information:
	Hardware Code 00123F6E038C
	Call Technical support at: (713) 621-9779 Monday - Friday, 8:30AM to 6:30 PM CST
	Activation Code
O Dem	no mode
	If you are unable to perform either of the two above methods, then enter the system in 'Demo Mode.' You can configure the system and active the system at your earliest convenience.
	* The serial number is found on the product package and on the sales receipt
U Den	If you are unable to perform either of the two above methods, then enter the system in 'Demo Mode.' You can configure the system and active the system at your earliest convenience.

See <u>Installation</u> for more information on changing the activation type. Click **OK** to confirm the number of licenses currently available.

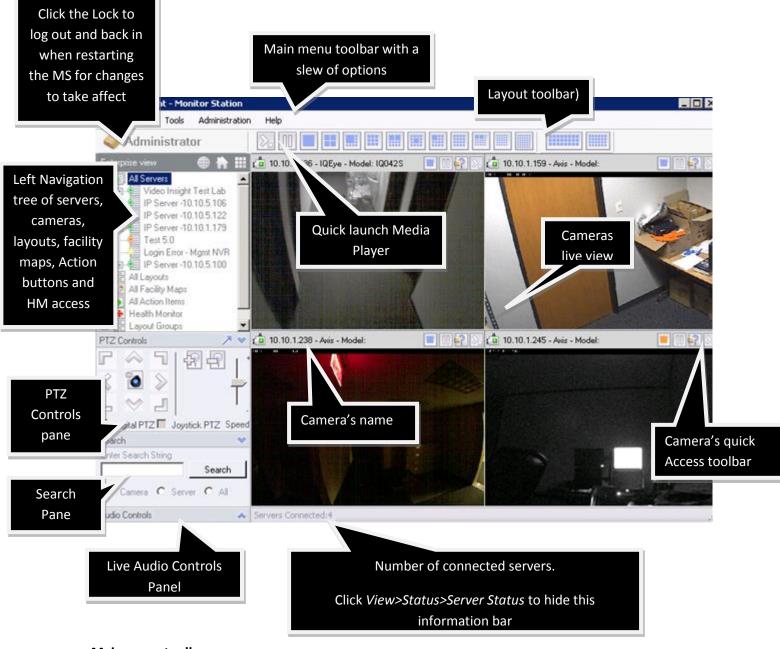
×
Your camera license was upgraded from 99 to 99 cameras. Please restart your service for it to take effect.
ОК

Monitor Station

Monitor Station is the primary user interface in the product suite and can be considered the hub from which all configurations and monitoring is done. Configuration changes to the Monitor Station will only affect the local host and not the server or other clients, unless Administrator-level access changes are made in Setup and Configuration.

Main Dashboard

The main dashboard has many features to make daily monitoring easy and manageable. It is the first view to appear after starting Monitor Station.



Main menu toolbar

The Monitor Station's main toolbar has several menus: Tools, Administration and Help.

<u>File</u>

The File menu has two selections: Media Fixer and Exit. Media Fixer is used to fix corrupted video files and Exit terminates the program.

File>Media Fixer

Media Fixer helps you fix corrupted media files.

1. Click the File menu and select Media Fixer.



2. Click Next.

🔎 Video File Fixer Wizard	×		
File Selection The wizard needs to know which files need to be fixed.			
Files to be fixed			
Clear All Remove Add Directory Add Files			
< Back Next > Cancel			

3. You can add a single video file, multiple video files or folders of video files to be fixed. The path to each file will be displayed after is it added.

🔑 Video File Fixer Wizard	×			
File Selection The wizard needs to know which files need to be fixed.				
Files to be fixed				
Files to be fixed C:\Documents and Settings\Administrator\Desktop\00h45m20s.avi C:\video\10.10.1.54-309806476\09.14.2011\10h34m30s.avi C:\video\10.10.1.54-309806476\09.14.2011\12h58m05s.avi C:\video\10.10.1.54-309806476\09.14.2011\12h58m05s.avi C:\video\10.10.1.54-309806476\09.14.2011\12h58m05s.avi C:\video\10.10.1.54-309806476\09.14.2011\12h58m05s.avi				
Clear All Remove Add Directory Add Files				
< Back Next > Cancel				

4. Click **Next**.

🔑 Video File Fixer Wizard 🛛 🛛 🔀				
Media Options If the header of the file is corrupt, specify options here. If the Media fixer has problems fixing files, try adjusting these settings.				
 Let Media Fixer attempt to read the information directly. (Recommended) 				
C Specify File Information				
Video Settings Compression Motion JPEG Resolution 640 x 480 Split File Frame Rate 2 frames/second 10 Max File Size (MB)				
Audio Settings Skip Audio Audio Frequency 8000 Hz Compressed				
< Back Fix Files Cancel				

5. For best results let Media Fixer attempt to read the file information. If you choose to specify the file information it is crucial to provide the correct file header information. Attempting to fix it with incorrect information may render the file unusable. Click **Fix Files**.

🎾 Video File Fixer Wizard 🛛 🗙 🗙				
Wizard Status and Results The wizard performed the following tasks, and the results are displayed.				
Results				
File Name	Status			
C:\Documents and Settings\Administrator\Desktop\0	Currently Working			
C:\video\10.10.1.54-309806476\09.14.2011\10h34	Not Started			
C:\video\10.10.1.54-309806476\09.14.2011\12h58	Not Started			
C:\video\10.10.1.54-309806476\09.14.2011\15h01	Not Started			
< Back	Next > Finish			

6. The Status dialog box displays progress. When the wizard is complete it will display the path of the fixed file.

🖉 Video File Fixer Wizard 🛛 🗙			
,	Wizard Status and Results The wizard performed the following	ng tasks, and the	results are displayed.
F	Results		
	File Name	Status	
	C:\Documents and Settings\Admi	Finish fixing at:	■C:\Documents and Settings\A
	C:\video\10.10.1.54-309806476\	Finish fixing at:	■C:\video\10.10.1.54-3098064
	C:\video\10.10.1.54-309806476\	Finish fixing at:	■C:\video\10.10.1.54-3098064
	C:\video\10.10.1.54-309806476\	Finish fixing at:	■C:\video\10.10.1.54-3098064
		< Back	Next > Finish

7. The fixed file will have "fixed" appended to the file name. The original file still exists and has not been altered.

Name	Size Type		Date Modified 💌
00h45m20s_fixed	67,043 KB Video	Clip	1/2/2012 12:02 PM

8. Click **Finish**.

File>Exit

Click the File menu and select Exit. Monitor Station will display a prompt to confirm exiting the application. This behavior is exactly as if you were to press the Lock Icon.



You can also exit the application without having to make the confirmation by unchecking the Exit confirmation checkbox on the Tools>Options>General tab.

View

The View menu has six selections: Archive Tree, Full Screen, Layout, Mini Toolbars, Status and Toolbars.

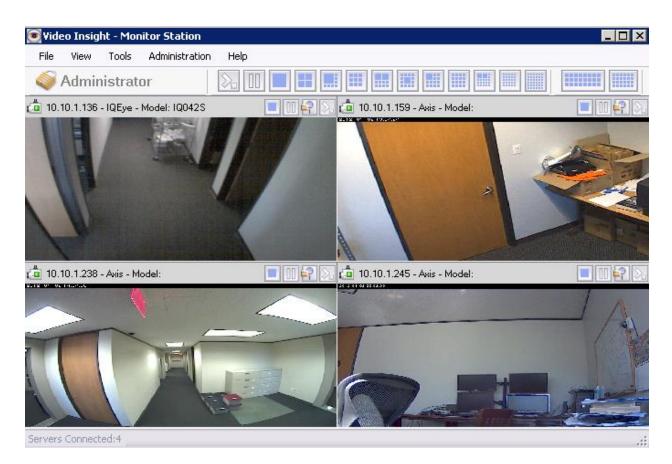
View>Archive Tree

The Archive Tree option is checked by default. If unchecked the left navigation tree will be hidden. This is useful if you want to have more space within the application for live view streaming.

💽 Video Insight - Monitor Station _ 🗆 🗙 View Tools Administration File Help iii Administrator Enterprise view 👛 10.10.1.136 - IQEye - Model: 🔳 🚺 😜 10.10.1.159 - Axis - Model: All Servers Video Insight Test Lab + IP Server -10.10.5.106 IP Server -10.10.5.122 + IP Server -10.10.1.179 Test 5.0 Login Error - Mgmt NVR 🗄 🚛 IP Server -10.10.5.100 All Layouts All Action Items 🤖 10.10.1.238 - Axis - Model: 📃 🔟 😜 🕥 🧔 10.10.1.245 - Axis - Model: 🗄 💽 Health Monitor 🗄 📲 Layout Groups PTZ Controls Search Audio Controls Servers Connected:4

The default view with Archive Tree selected is shown in the figure below:

The view with Archive Tree deselected is shown in the figure below.

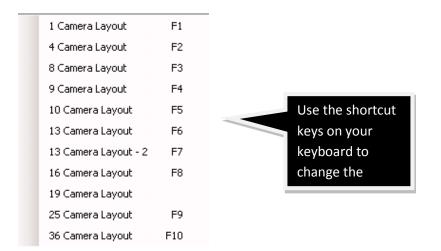


View>Full Screen

Selecting Full Screen expands the main dashboard view to fill your display. Pressing the F11 key on your keyboard performs the same function.

View>Layout

Selecting Layout shows the full list of the predefined camera layouts. Selecting one of the layouts displays the selected number of cameras in the main dashboard view. Pressing the related Function key on your keyboard performs the same function.



View>Mini Toolbars

Selecting Mini Toolbars creates Cycle Layouts and PTZ Controls function boxes that can be repositioned anywhere on your dashboard for easy access.

Cycle Layouts

Security personnel may be assigned to a particular area and may only need to review certain locations. In practice, locations are usually grouped by server. For example, one Monitor Station may be connected to multiple sites, with one Server per site. As each site may have a different number of cameras you may have a different layout for each site. You can perform a virtual walkthrough of each site by cycling each site's layout.

You can cycle layouts two ways: manually or automatically. You can manually cycle layouts by pressing any of the predefined Layout buttons as shown in the figure below.



To configure the one server cycling for manual selection:

1. Click the Tools menu and then select Options.

2. On the General tab check the box for "Use tree navigation server selection for default layout buttons".

Monitor Options

General Tools Configuration Live Window Audio Startup				
Exit confirmation				
Block warning messages				
Integrated player initial size 640x480				
┌─ Main view window layout				
Show layout				
Show server name				
Show camera name				
Force aspect ratio				
Use Direct X display				
Direct X 9				
Double click expands camera				
Use tree navigation server selection for default layout buttons				
On Screen Controls				
PTZ Cameras O On Screen PTZ 🗖 Use Direct X				
Overview Window				
O None				
Standard Cameras				
Overview Window				
O None				

3. Log out and back in to the Monitor Station to refresh the settings.

4. Select the highlighted server from the left navigation tree.

5. Click any of the Layout buttons and notice that only the selected server's cameras will be selected for the layout view.

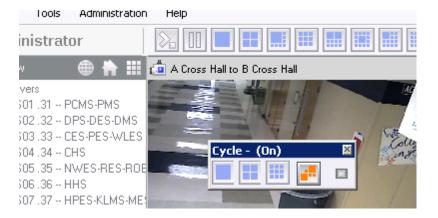
To configure the one server cycling for automatic selection:

1. Click the Tools menu and then select Options.

2. On the Tools Configuration tab check the box for "Layouts cycle through current server". This box is checked by default.

Monitor Options	X	
General Tools Configuration	Live Window Audio Startup	
Normal operation	Machine Performance	
C Low bandwidth mode	Normal	
O Very low bandwidth mode		
1.45 · 1		
Mini toolbars		
Cycle lay	vout time 🛛 5 📑 Seconds	
Mini-toolbars always on top		
-Local Sottings		
Use Registry	Export	
C Use XML		
	Import	
Enable Access Control La	ne Viewer	
Lock down Access Contro		
LUCK down Access Contro		

- 3. Log out and back into the Monitor Station to refresh the settings.
- 4. Click the View menu, select Mini Toolbars and then select Cycle Layouts.
- 5. Click the desired Layout scheme and click the Play icon.



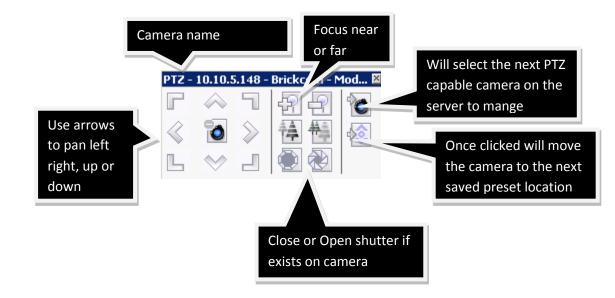
PTZ controls

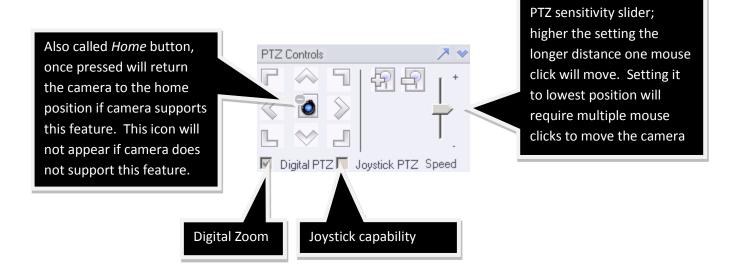
You can control PTZ operations for PTZ-capable cameras from different areas in the application. Each area offers a slight variation in capability.

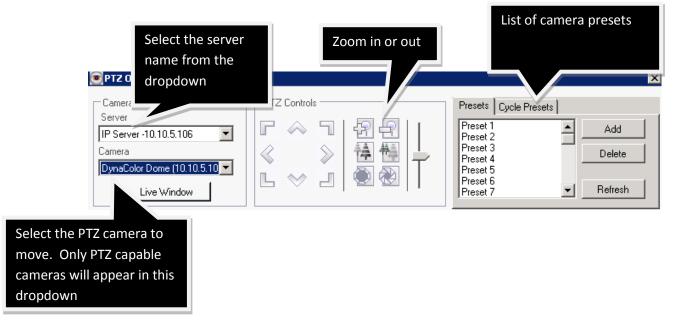
Note

PTZ Operations can also be launched by clicking the Tools menu and selecting PTZ Operations. To start the PTZ Controls function box, click the View menu, then Mini Toolbars and then PTZ Controls. The figure below describes the different functions available.

The following figures describes the left navigation tree PTZ Controls pane







Clicking **Live Window** launches a live view of the selected camera. This window can be used to manipulate the live view using the PTZ controls.



You can use the PTZ Operations pop-up with its expanded features to create and manage PTZ presets. PTZ presets are predefined views that can be used for cycling or manually going to a camera with a click of a button during live view from the main dashboard.

Creating a preset

- 1. Launch the PTZ Operations pop-up.
- 2. Select the server and camera from the drop-down menu.
- 3. Click **Live View** to view the camera as it is being moved.
- 4. In Live Window move the camera to the desired preset location.
- 5. Click Add.

Add PTZ Preset	×
Press the 'Add' button to name the current preset location.	

PTZ Label		
	Add	Cancel

- 6. Enter a label for the preset.
- 7. Click Add.
- 8. The newly-added Preset appears in the Presets pane.

PTZ Operations			×
Camera Select Server IP Server -10.10.5.106 Camera 10.10.5.148 - Brickcom - Moc I	PTZ Controls	Presets Cycle Presets	Add Delete Refresh

9. Continue moving the camera to the second position and repeat steps 4-7 to add as many presets as required. A maximum of 32 presets are supported depending on the camera.

To remove a Preset, select it from the Presets pane and click **Delete**.

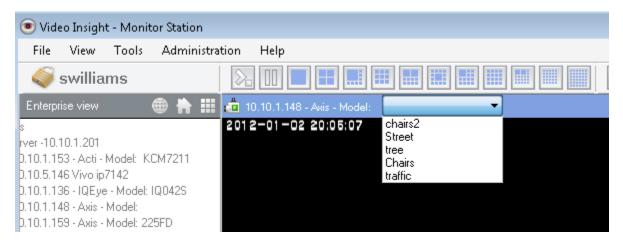
IP Server	3
Warning: Are you sure you want to delete preset: Street?	
Yes No	

Click **Yes** to permanently remove it or **No** to cancel the operation and return to the PTZ Operations screen.

You can also cycle automatically through presets by navigating to the Cycle Presets tab and clicking **Start**.

PTZ Operations			×
Camera Select Server IP Server -10.10.1.201 ▼ Camera 10.10.1.148 - Axis - Model: ('▼ Live Window	PTZ Controls Image: Controls </td <td>Presets Cycle Presets chairs2 Street tree Chairs traffic</td> <td>Start Stop Refresh</td>	Presets Cycle Presets chairs2 Street tree Chairs traffic	Start Stop Refresh

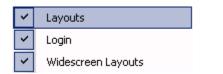
Added Presets can also be selected from the Live view camera toolbar in the Main Dashboard as shown in the figure below.



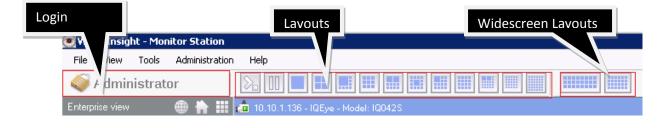
View> Toolbars

You can hide additional options displayed by default in the main dashboard by clicking the View menu and selecting Toolbars. Hiding them will add space to the live view.

1. Click the View menu and select Toolbars.



2. Three sub options are checked by default. Unchecking all three will hide the following Main Dashboard items:



Tools>System Log

You can access the System Log from several different areas of Monitor Station and Diagnostics.

Tools>Axis Joystick Control

The Axis Joystick Control supports the Axis Joystick. This USB joystick replaces a mouse for control of Axis PTZ-capable cameras.

After the joystick is connected, click the Tools menu and select Axis Joystick Control.

回 Axis Joystick Suj	pport			_ 🗆 🗵
·	Axis Joystick support		Config Settings	
Current Camera URL				
http://10.10.5.132:8	0/axis-cgi/o	:om/ptz	cgi	
Button Controls				
	Axis Camer	a Contro	ls	
Next	1	2	Previous	
Press b	utton to sel	ect an II	^D camera	
10.10.5.132:80	3	4		
	5	6		
	7	8		
	9	10		
		S	ave	Exit

Up to 10 Axis PTZ-capable cameras added to a server in a Monitor Station will automatically populate the Axis Joystick Control, including the IP address and port.

You can manage any game controller's settings and firmware by clicking Config.

Game Controllers	<u>? ×</u>
These settings help you configure the game co your computer.	ntrollers installed on
Installed game controllers	
Controller	Status
AXIS 295 VIDEO SURVEILLANCE JOYSTICK	OK
Add Remove	Properties
Advanced	Troubleshoot
	OK

Select the controller you'd like to manage and click **Properties**.

🎓 AXIS 295 VIDEO SURVEILLANCE JO properties 🔋 🏾 🔋
Settings Test
Test the game controller. If the controller is not functioning properly, it may need to be calibrated. To calibrate it, go to the Settings page.
+ XAxis / YAxis ZAx.
00000000
9000
OK Cancel Apply

You can test and calibrate the controller's settings. Click **Apply** and then **OK**.

If you click the Tools menu and select Axis Joystick Control without having an Axis Joystick attached, an error displays.



You can customize the joystick's pan, tilt and zoom sensitivity by clicking the Settings tab.

Configuration	×
Usemame	
Password	
Pan Sensitivity	1.00 🗌 invert axis
Tilt Sensitivity	1.00 🔽 invertaxis
Zoom Sensitivity	1.00 invert axis
	http:// /axis-cgi/com/ptz.cgi
OK	Cancel Apply

Enter the user name and password if credentials are required to change the joystick configuration.

Note

The Layouts drop-down list will not appear if no Layouts exist.

Tools>Live Window

You can use Live Window as a free-floating single or multi camera view. It is another feature that is accessible from several different areas of the application. It also has slightly different options depending on where it is accessed.

Figure shows Live Window when launched from the main toolbar.





You can select the server name or IP address from the Server drop-down menu. The server's camera(s) becomes available for selection from the Camera drop-down menu. In addition, all Layouts for all servers in that Monitor Station become available in the Layouts drop-down menu.

The red line bordering the Live Window image signifies that motion was detected on this camera. To remove the motion indicator click the Tools menu, select Options, then select the Live Window tab and uncheck the box for Red Outline on Live Window.

Tools>Media Player

Media Player is a standalone video player created by Video Insight. It has many capabilities and is built in to Monitor Station. See <u>Media Player</u> for more information.

Tools>PTZ Operations

See PTZ Controls for more information on PTZ Operations.

Tools>Synchronized Player

Synchronized Player allows for synchronized playing of multiple cameras. See the <u>Synchronized Player</u> section for more information.

Tools>Options

You can use Options for additional configuration and personalization of your Monitor Station.

General tab

Monitor Options				
General Tools Configuration Live Window Audio Startup				
Exit confirmation				
Block warning messages				
Integrated player initial size 640x480				
Main view window layout				
Show layout				
Show server name				
Show camera name				
Force aspect ratio				
☐ Use Direct X display				
Direct X 9				
Double click expands camera				
Use tree navigation server selection for default layout buttons				
On Screen Controls				
PTZ Cameras 🔿 On Screen PTZ 🗖 Use Direct X				
Overview Window				
C None				
Standard Cameras				
 Overview Window 				
O None				
OK Cancel Apply				

Exit confirmation: By default, closing Monitor Station displays a confirmation dialog box. To avoid this message uncheck this box.

Monitor Station 🛛 🛛 🔀				
This will close down the Mo	nitor Station. Are you sure?			
Yes	No			

Block warning messages: By default, Monitor Station warning messages informs you of cameras that lose connectivity, when the connection is restored and any disk write errors that occur. To avoid these warning messages check the box.

Integrated player initial size: The Integrated Player size is the size of the player when playing files from the Main Dashboard. Changes made here do not affect Media Player size. Available sizes are: 320x240,

400x300, 480x360, 560x420, 640x480, 720x540, 800x600, 960x720, 1080x810, 1280x960, 1440x1080 and 1600x1200.

1440 x 900 1280 x 8 V 1024 x 768 800 x 600 640 x 480
1280 x 800 1024 x 768 800 x 600

Show layout: This option determines whether the camera's toolbar in Live view will display or not. It is checked by default. When unchecked, more of the screen is used to view the live image of the camera(s) rather than displaying camera information.

When this option is checked it will display camera information as shown in the figure below.

Note

Choosing a player size mismatched to your display and resolution can prevent you from seeing the Controls bar at the bottom of the player.

💐 Video Insight - Monitor Statio	
File View Tools Administra	on Help
left Administrator	
Enterprise vie 🌐 🏠 🏢 🧔 IP Se	ver -10.10.1.179. CNN
H-10.10.1.2	AURA TAX DEADLINE IS MIDNIGHT TENNARM 0004491 108541022 50F461T 23110 TENNARM 0004491 108541022 50F461T 23110
🕀 🕮 IP Server -10 🕴 🛄 IP Se	ver -10.10.1.179. Quad 📄 🔢 😭 🔯 IP Server -10.10.1.179. Carpool 2 📃
Test 5.0 Login Error - 1 IP Server -10 All Layouts	

When this option is unchecked, it will not display camera header information.



Show server name: By default, this option displays the server name in the camera toolbar in the main view as well as in the server and camera Live Window pop-ups. The Show layout option must also be checked for this information to appear.

Show camera name: By default, this option displays the camera name in the camera toolbar in the main view as well as in the server and camera Live Window pop-ups. The Show layout option must also be checked for this information to appear.

Force aspect ratio: This option is another customization for achieving the best layout on your display. With Force aspect ratio checked, all live images will be forced to a 4:3 size in the main layout as shown in the figure below. This option does not affect Live Window pop-ups.



Use DirectX display: This option reduces CPU usage by attempting to use DirectX rather than the onboard or installed graphics device. If checked, you must select the correct version of DirectX installed on the computer: DirectX 9, 7 or Legacy for versions older than 7.

If the DirectX version selected is not installed on the computer, the error message "Cannot Initialize renderer (0x80040273)" displays. Select the correct version of DirectX or uncheck the option.

Note

This capability will affect only the first four cameras in live view and Layouts.

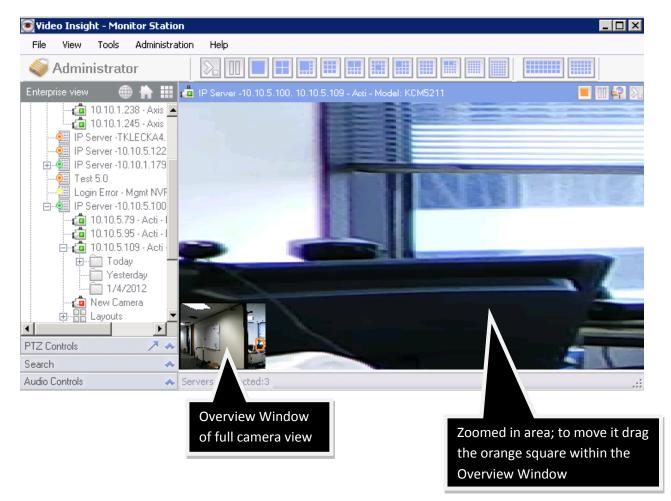
Double click expands camera: This option specifies whether a single- or double-click is required to expand the camera in the left navigation tree to show its recordings. If this option is selected a single click on the camera only displays the camera in the viewing panel.

Use tree navigation server selection for default layout buttons: This option determines which server's layouts will be used when cycling manually or automatically. See <u>Cycle Layouts</u> for more information on cycling layouts.

On Screen Controls (for PTZ Cameras): The default is On Screen PTZ. It superimposes directional arrows on the view for PTZ cameras to signify a PTZ camera is selected in live view on the main dashboard.

- On Screen Contr	ala -		
UN Scieen Conu	UIS		
PTZ Cameras	۲	On Screen PTZ	🔲 Use Direct X
	0	Overview Window	
	0	None	

Selecting Overview Window displays a magnifying glass as a cursor in the live view. To zoom in on an area, draw a square with the cursor. The figure below shows an example of a square drawn on the view.



Selecting None does not display any special cursors for PTZ cameras. Use the PTZ Controls function box found in the left navigation tree.

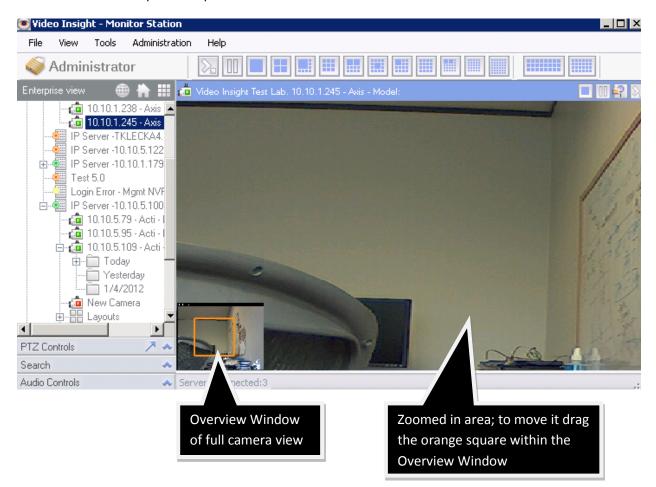
On Screen Controls (for Standard Cameras): The default is Overview Window. It displays a magnifying glass as a cursor in the live view.

Standard Cameras

Overview Window

C None

To zoom in on an area, draw a square with the cursor. Standard cameras use a digital zoom. The figure below shows an example of a square drawn on the view.



Selecting **None** disables the ability to digitally zoom in live view for standard cameras.

Tools Configuration tab

General Tools Configuration Live Window Audio Startup
Normal operation Machine Performance
C Low bandwidth mode Normal
C Very low bandwidth mode
Mini toolbars
Cycle layout time 🛛 5 📑 Seconds
PTZ cycle time 10 🛨 Seconds
Layouts cycle through current server
Mini-toolbars always on top
Local Settings
Use Registry Export
C Use XML Import
Enable Access Control Lane Viewer
Lock down Access Control Lane Viewer
View Sentry 360 cameras in Quad View when in single camera mode
Creating clips
Enable Watermark
Force Motion JPEG format

You can choose from three bandwidth-related options to optimize the live view performance in Monitor Station.

Normal operation: This option uses all available resources to display live streaming. This option is sensitive to network bottlenecks and should only be used for clients with very good connectivity. Normal streams all images as uncompressed MJPEG.

Note

If the Low Bandwidth\High CPU option is selected at the server, client options are ignored as all images are already compressed.

Low bandwidth mode: Select Low bandwidth mode if you are viewing multiple images over moderate network bandwidth. This option compresses multiple images. If you switch to a single image view it will send that image as uncompressed.

Very low bandwidth mode: In Very low bandwidth mode all images are compressed. Choose this option for clients with poor connectivity.

You can use the Machine Performance drop-down menu to choose from three options to improve live streaming when using multiple camera views. This option improves performance when viewing layouts with nine or more cameras.

Normal: When selecting this option expect the Monitor Station to use the current capabilities of your client machine's CPU.

Workstation: The Monitor Station will use approximately the same amount of CPU as in Normal mode when viewing a four camera layout and a higher performance of live streaming. If you view a layout with nine or more cameras you will see an increase in CPU usage because more cameras are visibly streaming with better live performance.

High Performance: The Monitor Station will use the most CPU to deliver the smoothest live view with layouts of 16 cameras or more. This option should be selected only if the Monitor Station host has a powerful CPU.

Mini Toolbars (for cycling layouts): See Cycle Layouts for more information on cycling layouts.

Local Settings: You can export your Monitor Station settings two ways.

Local Settings	
Use Registry	Export
C Use XML	Import

To export your Monitor Station settings:

1. Select Use Registry or Use XML as the export method and then click **Export**.

Save As		? ×
Save in:	📝 Desktop 💽 🕥 🌮 📰 •	
My Recent Documents Desktop My Documents My Computer	My Documents im usexmiradio My Computer if vshare on v5 My Network Places if xml_settings AVC if Lenel-OnGuard-2010-OpenAccess-v6_4_49290 OVID Ovid_Latest pass49 Pass_36 VIClientTester if registry saritregistry saritregistry saritregistry saritregistry	
- S		•
My Network Places	File name: MS_Settings	Save
	Save as type: Xml files (*.xml)	Cancel

2. Enter a name for the export file and select a save location if different from the default, then click **Save**.

Export files are saved in XML format. The figure below shows a sample export file.

You can use this file to configure other clients. Click **Import** in the same area to import the previously exported file.

Enable Access Control Lane Viewer: This option is for <u>BlackBoard</u> access control integration.

Note

BlackBoard and other access control integrations are discussed beginning on page 241.

Lock down Access Control Lane Viewer: This option is for <u>BlackBoard</u> access control integration.

View Sentry 360 cameras in Quad View when in single camera mode: Left unchecked, Sentry 360 cameras offer multiple views: Full image, Quadview and Panoramic. The figure below shows an example of this view.



You can check the option and if the camera is selected from the main dashboard or the left navigation tree only the quad view displays. The figure below shows an example of this view.



Creating clips (Enable Watermark): By default, this option interlaces the Checksum security mark to detect any tampering with the created clips. See [topic] for more information on creating clips.

Creating clips (Force Motion JPEG Format for Clips): By default, this option creates all clips in Motion JPEG format. Motion JPEG is a format that can be read by most software media players.

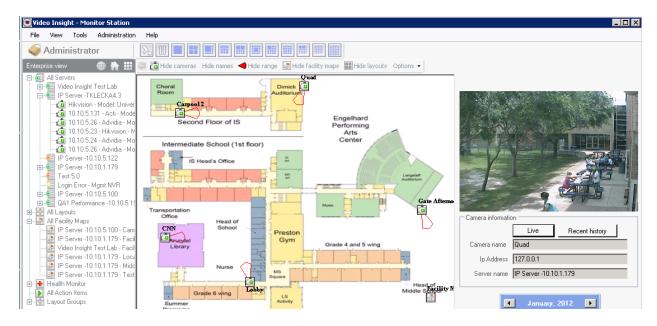
Live Window tab

General Tools Configuration Live Window Audio Startup				
Live window configuration. The live window is used as a free floating camera view. Select these options for desired operation.				
Block live window pop-ups				
Live window always on top				
Integrated Facility Map				
Use Four Camera Facility Map display				
Force record option Keep 30 📑 minutes				
Red Outline on Live Window				
Pause main display when live window launches				
Include Server Name for All Facility Maps				
Include Server Name for All Layouts				
Layout tour cycle time 🧧 🛨 seconds				
Rules Manager Triggered Actions	7			
Block rules from popping up messages/instruction				
Block rules from switching main layout				
Block rules from launching instant replay window				
Flash Red on Motion Duration 20 +				
✓ Use Maintenance view				

Block live window pop-ups: This option is unchecked by default. If checked, it suppresses all Live Windows from popping up while Monitor Station is active. Live Windows can be sent to you from other users, by rules or manual launch.

Live window always on top: This option is unchecked by default. If checked it shows all received Live Windows on top of Monitor Station.

Integrated Facility Map: Selecting this option displays a Facility Map in the main dashboard area of Monitor Station on the left side of the left navigation tree. See <u>Facility maps</u> for more information on creating, maintaining and using facility maps. The figure below shows an example of a facility map.



Use Four Camera Facility Map display: You can apply this option to both integrated and non-integrated maps. The four camera view is very useful when attempting to seam together a four eye camera to view a complete hallway at once, such as the Arecont 180 or 360 cameras. This view can also be used for other cameras, as shown in the figure below.

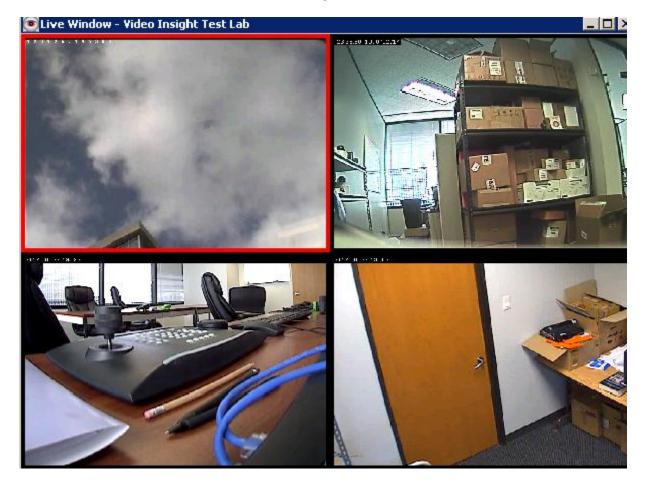


Force record option: Checking this option adds a button to the Camera Toolbar in the Main Dashboard. Clicking this button immediately records, and will continue to record, until the button is clicked again or the time set has been reached (maximum of 200 minutes).

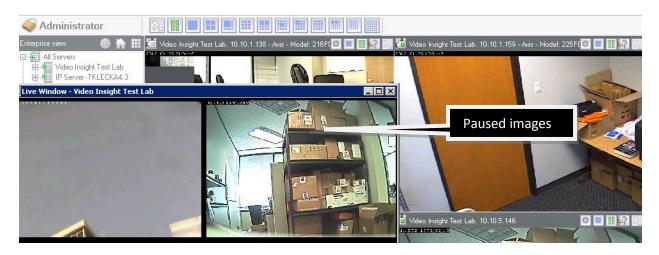


Selecting this option does not permanently change the camera's recording type. Clicking the Force Record button forces the camera to record and when complete the camera will resume its normal recording setting.

Red Outline on Live Window: You can launch Live Window by right-clicking on the server node from the left navigation tree. It displays all cameras for that server and outlines each with a red line for a few seconds when motion is detected, as shown in the figure below.

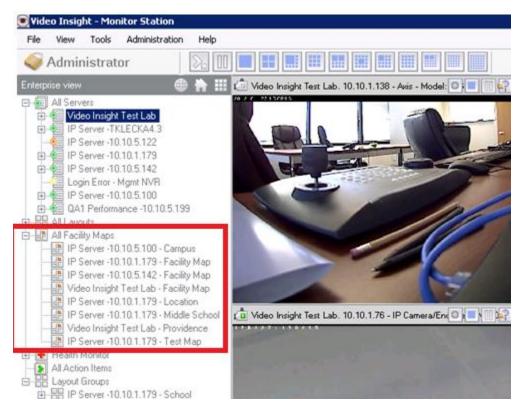


Pause main display when live window launches: If you launch Live Window from a server or from the left navigation tree or for a single camera, the main dashboard will pause all streaming to improve performance and conserve bandwidth. The paused images will appear gray after a few seconds.



To resume live streaming when closing the live window, click Pause.

Include Server Name for All Facility Maps: Facility maps are available in the left navigation tree for quick access, but when multiple servers are added to a single Monitor Station it can be difficult to determine which facility maps belong to which server. You can add the server name to make it easier. If checked, the server name will preface the Facility Map name, as shown in the figure below.



Include Server Name for All Layouts: Layouts are available in the left navigation tree for quick access, but when multiple servers are added to a single Monitor Station it can be difficult to determine which

layouts belong to which server. You can add the server name to make it easier. If checked, the server name will preface the Layout name, as shown in the figure below.

ම ¥ide	o Insigh	t - Mor	nitor Station		
File	View	Tools	Administrat	ion Help	
🥥 F	\dmini	strat	or	20	
Enterpri	se view			⊕ 🗎 🎟	👛 Video Insight Test Lab. 10.10.1.138 - Axis - Model: 🔘 📃
		0 Insight 0.10.1.1 0.10.1.1 0.10.1.7 0.10.5.1 acility M erver -10 erver -10 erver -10 Perform ts	146 (LECKA4.3 (.10.5.122 (.10.1.179 (.10.5.142 Mgmt NVR (.10.5.100 ance -10.10.5	odel: 225FD a/Encoder: NV	
	IP Se IP Se IP Se IP Se IP Se	erver -10 erver -10 erver -10 erver -10 erver -10	I.10.1.179 - In I.10.1.179 - D I.10.1.179 - N I.10.1.179 - O I.10.5.142 - 10 I.10.5.100 - N	oors ew Layout utside S ew Layout	Video Insight Test Lab. 10.10.1.76 - IP Camera/En 💽 💽 🚺
:	IP Se All Facility Health M	/ Maps	I.10.5.100 - N	ew Layout	

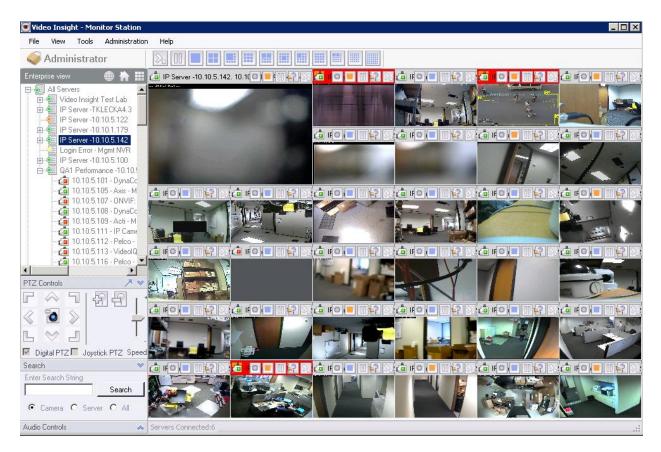
Layout tour cycle time: You can set the time interval between each camera on a tour. The default is five seconds.

Rules Manager Triggered Actions: Creating rules adds flexibility and customization to your software. Rules can include results that send notifications to all Monitor Stations or specific users. You can prevent these dialog boxes from appearing in your Monitor Station by checking the applicable boxes.

Flash Red on Motion: You can select this option to highlight the camera toolbar in red to indicate that motion has been detected on a camera. This is useful when viewing many cameras at once as shown in the figure below.

Note

There is no way to retrieve the messages you would have received once they are blocked.



Use Maintenance view: You can select this option to change the Contact Information tab in Camera Properties to Maintenance tab properties. See Maintenance tab for more information on the difference between the two tabs.

Audio tab

General Tools Configuration	Live Window	Audio	Startup
Audio notification on moti O No Sound O Default system beep O Notification sound	on	>	Browse
Audio notification on	motion		
Audio notification from ta: No Sound Default system beep Notification sound	sks and alarms —		Browse
	ОК	Cano	el Apply

Audio notification on motion: You can select this option to give the user the ability to specify if there will be audio notification when motion is detected on a camera. You have the option of no sound, default system beep or you can load your own notification sound by browsing to a .WAV file.

Audio notification from tasks and alarms: You can create rules that specify that an audio notification will be generated based on a predetermined set of events. You have the option of no sound, default system beep or you can load your own custom notification sound by browsing to a .WAV file.

Startup tab

General Tools Configuration Live Window Audio Startup
Starting Layout
 First cameras in layout 1 Camera Layout
Custom layout My Tour (IP Server -TKLECK
Hide archive tree on startup Launch facility map on startup Auto upgrade Start in full screen mode Verify Active Directory login Auto Login User Password

Starting Layout: The Monitor Station main dashboard display is set by what is selected here. If you want to display a specific camera choose the first camera in layout options and choose 1 Camera Layout from the drop-down menu. You can display a specific customized layout by selecting Custom layout and the correct server and layout option from the drop-down menu.

Hide archive tree on startup: Selecting this option hides the left navigation tree.

Launch facility map on startup: You can select a specific facility map on startup. Check this option and select the desired Facility Map from the drop-down menu. When you launch Monitor Station a separate pop-up window will display the selected Facility Map.

Auto upgrade: Select this option to have the local Monitor Station compare its version to all the servers that are connected to it at the next startup. If a later version is found on a server Monitor Station will be prompted to upgrade, as shown in the figure below.

A new version of the software h you must upgrade this version o		
Current version:	4.3.0.50	
Upgrade version:	4.3.0.62	
Press 'Upgrade' which will take	you through the upgrade proce	SS.

Click **Upgrade** to upgrade the software on the Monitor Station. Monitor Station will close and the installation will appear on the screen. Start Monitor Station and navigate to Help, then About Video Insight to confirm the upgrade was successful.

Start in full screen mode: Select this option to have Monitor Station display in full screen the next time it is started.

Verify Active Directory login: Select this option to have authentication of user credentials in Active Directory occur in real-time.

Enable Auto Login: To bypass the login dialog box, enter the user name and password. See <u>Login</u> for more information on login.

Administration>Setup and Configuration

You can use Setup and Configuration to change many aspects of the video surveillance setup, including changing server properties, user management and application integration with Health Monitor and Live View Monitor. Administrator-level access is required to change most of the options.

i⊞⊶ 🀖 Video Insight Test Lab i⊞⊶ 🐖 IP Server -TKLECKA4.3	Known Video Servers				_
IP Server -10.10.5.122	Server Name	IP Address	Port	Status	Add Ne
	Video Insight Test Lab	10.10.1.175	4011	Connected	Remov
	IP Server -TKLECKA4.3	10.10.5.106	4011	Connected	
HP Server -10.10.5.100	IP Server -10.10.5.122	10.10.5.102	4011	Not Connected	Connec
i≟-• 🥶 QA1 Performance -10.10 💼 Tools	IP Server -10.10.1.179	10.10.1.163	4011	Connected	Propertie
	IP Server -10.10.5.142	10.10.5.142	4011	Connected	
	Mgmt NVR	10.10.5.5	4011	Not Connected	
	IP Server -10.10.5.100	10.10.5.100	4011	Connected	Ŷ
Layout Groups	QA1 Performance -10.10.5.199	10.10.5.199	4011	Connected	
Rules Manager TV Decoders Di Live View Monitor	Export List Import List C	ear License			

Click the up and down arrow buttons to change the server display order in the left navigation tree.

Click **License** to view the number of each server's available licenses. Clicking License displays the total number of cameras licensed, the total used and the total available, as shown in the figure below.

Server Name	Total 🖉	Used	Available	
IP Server -10.10.1.179	16	9	7	
IP Server -10.10.5.100	7	7	0	
IP Server -TKLECKA4.3	75	12	63	
QA1 Performance -10.10.5.199	95	74	21	
			95	Unknown will
IP Server -10.10.5.142	Unknown	Unknown	Unknown	appear when
IP Server -10.10.5.122	Unknown	Unknown	Unknown	
Mgmt NVR	Unknown	Unknown	Unknown	server is not

Setup and Configuration Left Navigation Tree

- All Servers	Setup and Configuration Cameras Advanced Health Monitor Client Access Configuration Contact Information
Wideo Insight Test Lab IP Server -TKLECKA4.3	Server Identification
	Server Name Video Insight Test Lab Sql Server Location
IP Server -10.10.5.142 Login Error - Mgmt NVR	IP Address 10.10.1.175 Advanced
Tools	Version 4.3.0.62
Health Monitor 	
Layout Groups	
Rules Manager 🛐 TV Decoders	r-Video Storage
Live View Monitor	
	Video data storage path *
	\\v5\vshare
	* Note: If using a Network Drive, use the UNC path (i.e. \\v4\share\video)
•	OK Cancel Ap

The left navigation tree displays a status color for each server:

Server is connected and settings may be modified.

Server is not connected due to a login error. It will continue to record video to the specified location; however, modifications to settings using MS or IPSM are not allowed.

Server is not connected, possible due to a stopped service or a problem with the connection properties; confirm the IP address and port.

Selecting a server from the left navigation tree displays the server's properties. Administrator rights are required to modify them. See <u>IP Server customization</u> for more information on each field and tab.

Clicking on a connected server allows quick access to the properties of attached cameras.

In 10.10.1.138 - Axis - N In 10.10.1.159 - Axis - Model: 225FD In 20.10.1.159 - In 20.10 In 20.10.1.159 - In 20.10	- All Servers	General Record	Advanced	Motion Settings	Video Settings	Optional Controls	Privacy Zone	Maintenance	
Health Monitor Camera Number Camera Number	 10.101.159 • Axis • 1 10.10.1.76 • IP Came 10.10.5.146 IP Server • TKLECKA4.3 IP Server • 10.10.5.122 IP Server • 10.10.5.122 IP Server • 10.10.5.142 Login Error • Mgmt NVR IP Server • 10.10.5.100 QA1 Performance • 10.10 	Camera Name	10.10.1.159		SFD r	Camera Information Manufacturer Ax Model Ax IP Address 10 User Name roc Password ***	is 225FD 10.1.159		
	Health Monitor Health Monitor Health Manager Layouts Layout Groups Rules Manager TV Decoders			np in video		Camer	a Number 0	,	

See <u>Modifying camera details</u>, for more information on camera properties.

Setup and Configuration Tools Node

Health Monitor Facility Map Layout Overview User Manager Rules Manager
The Health Monitor runs as a service in the background and monitors the receipt of messages from other video servers to ensure server uptime and reporting of any issues affecting the servers or cameras. The Health Monitor can be configured to send email alerts to the appropriate individual if messages from the servers are not received within the pre-determined time frame. The video servers also send messages to the Health Monitor on camera operation and disk storage usage.
Current Health Monitor Servers Image: Description of the server server Add Health Monitor Server Image: Description of the server server Image: Description of the server server server Image: Description of the server
Clear Remove View

See <u>Health Monitor</u> for more information on Health Monitor. You can add any installed Health Monitor by entering its IP address and port. Click **Connect** to test the connection parameters as shown in the figure below.

Health Monitor 🛛 🛛 🔀					
Health Monitor is fou Do you want to add I	nd. this server to the list?				
Yes	No				

Click **Add** to add the Health Monitor without testing the connection.

You can view the status of a listed Health Monitor by highlighting it.

💽 Health Monitor Properties	x
System Overview	
Total Servers	6
Managed Servers	1
Server Warnings	0
Total Cameras	75
Down Cameras	6
Server Errors	1
IP Address	10.10.1.175
Port	11000
Last Health Monitor Update	, 1/27/2012 8:05:17 PM
	,
	Refresh OK

Facility Maps

Camera names may not be descriptive enough to identify a camera. You can use Facility Maps to upload floor plans of your buildings and place cameras on the plans to represent their location. This feature supports multiple layers of maps that can link to one another and supports cameras on each map. Layouts can also be placed on Facility Maps. Once Facility Maps are set up, you can use Monitor Station to view all your cameras by Facility Map views instead of the server and camera tree view.

Adding a Map

To add a facility map:

1. Click Facility Map.

All Servers	Facility Map		
IP Server -10.10.5.122 IP Server -10.10.1.179 IP Server -10.10.5.142	Video Insight Test Lab Facility Maps	Y	
⊕	Name	Server	New Map
🕀 🐖 QA1 Performance -10.10	Facility Map	Video Insight Test Lab	
🛄 Login Error - Mgmt NVR	Providence	Video Insight Test Lab	Rename
		1	Delete
			Modify
🛅 Live View Monitor			
-			

- 2. Select the server to add a map.
- 3. Click **New Map**.

💽 New Map		×
Map Name Facility Map		
Original File Location		
	Browse	
Resize Image		
Original Map Size	O 640 x 480	
O 1024 x 768	C Custom	
C 800 x 600	800 × × 600 ×	
	OK Cancel	

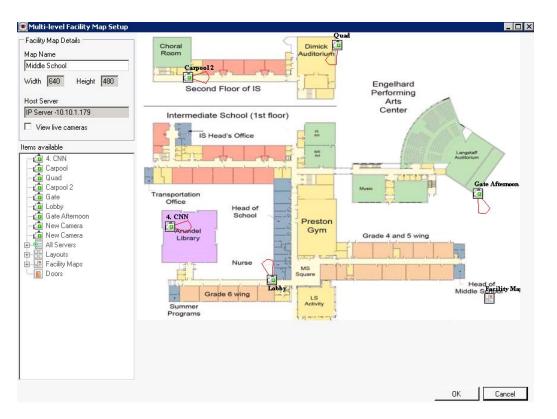
- 4. Enter the map name.
- 5. Browse to the location of the map image. JPG- or JPEG-formatted images work best.

6. Keep the original map size or select a new size for it, keeping in mind the average monitor resolution that will be used to view the map in Monitor Station.

7. Click **OK**.

Note

Double-click an existing item to remove it from the map.



8. Drag and drop available items from the left pane on to the map and align them with their view. Items such as cameras, layouts, doors (doors are access points used for Access Control integrations) and other facility maps may be overlaid on the newly created Facility Map.

9. Verify camera placement by checking the box for View live cameras to view live images from the camera.

Facility Map Details	Choral Dimick	л. — I М
1ap Name	Room Auditorium	Enter Martin Contract Action and
Middle School	Carpool2	
Vidth 640 Height 480	Second Floor of IS	
P Server -10.10.1.179	Intermediate School (1st floor)	
View live cameras	IS Head's Office	
ms available		
💼 4. CNN		
	and the local data and the second sec	
🔤 🗖 Quad		
💼 Carpool 2		Camera information
- 💼 Gate	Office	Live Recent history
💼 Lobby	Head of	
📲 Gate Afternoon	4. CNN School Preston	Camera name Carpool
📲 New Camera	Rrundel Gym	Ip Address
- 💼 New Camera	Library	
All Servers		Server name IP Server -10.10.1.179
	The same and the same	
- 🔚 Facility Maps	Nurse Ms	
- 📕 Doors	Square	January, 2012 💽
	Lobby	
	Grade 6 wing	Sun Mon Tue Wed Thu Fri Sat 25 26 27 28 29 30 31
	Summer	1 2 3 4 5 6 7
	Programs	8 9 10 11 12 13 14
		15 16 17 18 19 20 21
		22 23 24 25 26 27 28
		29 30 31 1 2 3 4
		Today: 1/28/2012

10. Click **Recent History** to view the last 30 seconds of recorded video.



11. When all items have been positioned on the map, click **OK**.

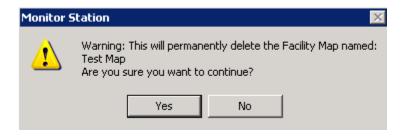
Deleting a Map

To delete a facility map:

1. Click Facility Map.

Setup and Configuration				? ×
□	Facility Map Server Video Insight Test Lab Facility Maps			
P Server -10.10.5.142 P Server -10.10.5.100 P Gerver -10.100 Login Error - Mgmt NVR □ Tools P Gerver -10.100 Login Error - Mgmt NVR □ Tools P Gerver -10.100 Login Error - Mgmt NVR □ Server -10.100 P Gerver -10.1000 P Gerver -10.1000 P Gerver -10.1000 P Gerver -10.100	Name Facility Map Providence	Server Video Insight Test Lab Video Insight Test Lab		New Map Rename Delete Modify
4			OK Canc	el Apply

- 2. Select the server that has the map to delete.
- 3. Select the map to delete from the Facility Maps list.
- 4. Click **Delete**.



- 5. Click **Yes** to confirm.
- 6. Click **Apply** and then **OK**.

Modifying a Map

To modify a facility map:

1. Click Facility Map.

etup and Configuration	Facility Map			
	Server Video Insight Test Lab Facility Maps	T		
	Name Facility Map	Server Video Insight Test Lab		
Login Error - Mgmt NVR Tools Health Monitor	Providence	Video Insight Test Lab	Renar	
Facility Map Ser Manager Live View Monitor			Modil	íy
			OK Cancel	Apply

- 2. Select the server with the map to modify.
- 3. Select the map to modify from the Facility Maps list.
- 4. Click Modify.
- 5. Make changes as needed.
- 6. Click **OK**.

Renaming a Map

To rename a facility map:

- 1. Click Facility Map.
- 2. Select the server with the map to rename.
- 3. Select the map to rename from the Facility Maps list.
- 4. Click Rename.

💽 Rename Facility Map	X
Old Facility Map Name:	
Facility Map	
New Facility Map Name:	
Hendrickson High School	
OK Cancel	

- 5. Enter the new map name.
- 6. Click OK.

Layouts

You can create custom layouts using cameras from multiple servers. When you add a custom layout to a server it is available to all Monitor Station users that have the necessary rights.

Adding Layouts

To add a layout:

1. Select Layouts.

Setup and Configuration			? ×
All Servers All Servers Video Insight Test Lab Perver -TKLECKA4.3 P Server -10.10.5.122 Perver -10.10.5.142 P Server -10.10.5.142	Layout Dverview Server Video Insight Test Lab Layouts]	
P Server -10.10.5.100 CAI Performance -10.10 Login Error - Mgmt NVR Tools Health Monitor Facility Map User Manager Color User Manager Color Live View Monitor	Layout Name Descriptio		Add Remove Properties
•		OK	Cancel Apply

2. Click Add.

Layout Description Layout Name New Layout Description	Layout Layout Type 1 Camera Layout Camera Order Max Cameras in Layout
Cameras on Layout Available Cameras P Server -10.10.5.142 - 10.10.5.22 P Server -10.10.5.142 - 10.10.5.24 P Server -10.10.5.142 - 10.	Selected 0 Open panels 1

- 3. Enter the layout name.
- 4. Adding a description is optional.
- 5. Select the layout type from the drop-down menu.
- 6. Select cameras from the left pane and add them by clicking the right arrow. Select cameras from

the right pane and remove them by clicking the left arrow.

Layout Description	Layout Layout Type	
Parking Lots A&B	16 Camera Layout	1
Description	Camera Order Max Cameras in Layout 16	
Cameras on Layout		_
Available	Cameras Selected 16 Open panels 0	
P Server -10.10.5.142 - 10.10.5.2 P Server -10.10.5.142 - 10.10.5.2 P Server -10.10.5.142 - 10.10.5.3 P Server -10.10.5.142 - 10.10.5.8 P Server -10.10.5.142 - 10.10.5.8 P Server -10.10.5.142 - 10.10.5.3 P Server -10.10.5.100 - 10.10.5.3 P Server -10.10.5.100 - 10.10.5.1 P Server -10.10.5.100 - 10.10.5.19 P Server -10.10.5.100 - 10.10.5.100 - 10.5.10	Image: Server -10.10.5.142 - 10.10.5.24 Image: Server -10.10.5.100 - 10.10.5.11 Image: Server -10.10.5.100 - 10.10.5.11 Image: Server -10.10.5.124 - 10.10.5.95 Image: Server -10.10.5.129 - 1 Im	<u>}</u>

- 7. You can reorder the cameras in the layout by clicking the up and down arrow buttons.
- 8. Click **OK**.
- 9. Click **Apply** and then **OK**.

Adding Layout Tour

To add a layout tour:

1. Repeat steps 1-5 in the Adding Layouts section.

2. When selecting cameras to add to the Layout, select Camera Tour. (This option will appear at bottom of Available pane).

💽 Camera Tour 🛛 🗙
Camera tour name
Tour name
Cameras to tour
10.10.1.138 - Axis - Model: 216FD
10.10.1.159 - Axis - Model: 225FD
10.10.1.76 - IP Camera/Encoder:
10.10.5.146
IP Server -TKLECKA4.3 - 10.10.5
□ IP Server -TKLECKA4.3 - 10.10.5
□ IP Server -TKLECKA4.3 - 10.10.5
IP Server -TKLECKA4.3 - DynaCo
IP Server -TKLECKA4.3 - DynaCol
IP Server -TKLECKA4.3 - DynaCol
IP Server -TKLECKA4.3 - DynaCol
IP Server -TKLECKA4.3 - 10.10.5
IP Server -TKLECKA4.3 - HikVisio
IP Server -TKLECKA4.3 - 3S Visio
□ IP Server -TKLECKA4.3 - 10.10.5
IP Server -TKLECKA4.3 - New Ca
□ IP Server -10.10.1.179 - 4. CNN
□ IP Server -10.10.1.179 - Carpool
□ IP Server -10.10.1.179 - Quad
□ IP Server -10.10.1.179 - Carpool 2 □ IP Server -10.10.1.179 - Gate
Check All OK Cancel

- 3. Enter the tour name.
- 4. Select the cameras the tour will cycle through, or click **Check All** to select all of them.
- 5. Click **OK**.
- 6. Click **OK**.
- 7. Click **Apply** and then **OK**.

Deleting a Layout

To delete a layout:

1. Select the Layout Overview tab.

Setup and Configuration				?
All Servers	Layout Overview			
Video Insight Test Lab	Server Video Insight Test Lab Layouts			
🕀 📲 IP Server -10.10.5.100	Layout Name	Description	Cameras	Add
	School Lay	out	10.10.1.159 - Axis - Model: 225FE	Remove
Tools				Properties
<mark>iii</mark> User Manager ⊕ <mark> Layouts</mark>				
				✓
Live View Monitor				
	•		► International	I
↓			OK Cancel	Apply

- 2. Select the Layout to remove from the Layouts list.
- 3. Click **Remove**.

Monitor	Station	X
<u>.</u>	Warning: This will permanently Are you sure you want to con	ly delete the layout named: School Layout ntinue?
	Yes	No

- 4. Click **Yes** to confirm.
- 5. Click **Apply** and then **OK**.

Modifying a Layout

To modify the layout:

1. Select the Layout Overview tab.

Setup and Configuration		? ×
All Servers All Servers Video Insight Test Lab PServer -TKLECKA4.3 FServer -10.105.122 PServer -10.10.5.127 PServer -10.10.5.122	Layout Overview Server Video Insight Test Lab	
P Server -10.10.5.100 QA1 Performance -10.10 Login Error - Mgmt NVR Tools Facility Map Server Manager Server Manager Decoders Live View Monitor	Layout Name Description School Layout	Cameras Add 10.10.1.159 · Axis · Model: 225FC Properties
()		OK Cancel Apply

- 2. Select the Layout to modify from the Layouts list.
- 3. Click **Properties**.

Layout Description		Layout		
Layout Name Parking Lots A&B		Layout T		
		[I6 Lam	era Layout 💌	
Description		_ Ca	mera Order	
			· · · · · · · · · · · · · · · · ·	_
		MaxCar	meras in Layout 16	
Cameras on Layout				
Available	Cameras Sele	ected 16	Open panels	0
🧰 IP Server -10.10.5.142 - 10.10.5.3	2	🧰 IP Server	10.10.5.142 - 10.10.5.2	
🧰 IP Server -10.10.5.142 - 10.10.5.3	2.	🧰 IP Server -	10.10.5.142 - 10.10.5.2	
🧰 IP Server -10.10.5.142 - 10.10.5.3	3	🧰 IP Server	10.10.5.142 - 10.10.5.2	
i IP Server -10.10.5.142 - 10.10.5.1			10.10.5.100 - 10.10.5.1	77
IP Server -10.10.5.142 - 10.10.5.8			10.10.5.142 - 10.10.5.9	
iP Server -10.10.5.142 - 10.10.5.5			rmance -10.10.5.199 - 1	
i 👜 IP Server -10.10.5.100 - 10.10.5.3	-		rmance -10.10.5.199 - A	
IP Server -10.10.5.100 - 10.10.5.1			rmance -10.10.5.199 - A	
IP Server -10.10.5.100 - 10.10.5.1			rmance -10.10.5.199 - A	
QA1 Performance -10.10.5.199 - 1			rmance -10.10.5.199 - A	
QA1 Performance -10.10.5.199 - 1			rmance -10.10.5.199 - A	
QA1 Performance -10.10.5.199 -		-	rmance -10.10.5.199 - 1	-
▲ 10 10 E 10 •		•		
			ОК	Cancel

- 4. Modify the layout as needed.
- 5. Click **OK**.
- 6. Click **Apply** and then **OK**.

Adding Layout Groups

Layout Groups is a new feature added to Monitor Station and is visible in the Web Client. You can use Layout Groups to logically group individual layouts. This is useful when a group of sites needs to be grouped by region.

To create a Layout Group you must first have individual Layouts created for the server. See <u>Adding</u> <u>Layouts</u> for more information on Adding Layouts.

- 1. Click Administration then select Setup and Configuration.
- 2. Select Layouts and then Layout Groups from the left navigation tree.
- 3. Select the server you would like to create the Groups for from the server drop-down menu.
- 4. Click **Add**.
- 5. End the name for the Layout Group.

6. Select the Layouts that will be part of the group. Only Layouts created on this server will appear in the list.

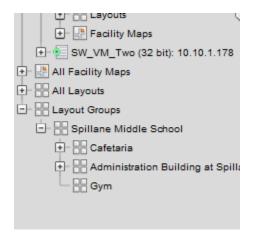
Add New Layout Group	p	- • •				
Layout Group Name	Spillane Middle School					
Check Layouts to include	in this group					
Gym	g at Spillane Middle Schoo	I				
Cafetaria						
	ОК	Cancel				

7. Click **OK**.

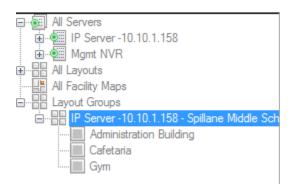
The new Layout Group displays in the Layout Groups list, as shown in the figure below.

Setup and Configuration	? 🛃
All Servers Layout Groups SW_VM_One (32 bit): 10 Server* SW_VM_Two (32 bit): 10 Server* Tools SW_VM_One (32 bit): 10 Facility Map Layouts Layout S Spillane Middle School Cafetaria, Administration Building at Spillane Middle School, Gym .	Add Remove Properties

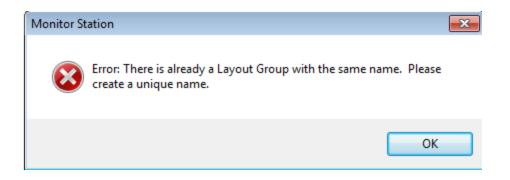
The figure below shows how a user with access to view layouts will see it on the Web Client.



The figure below shows how a user with access to view layouts will see it on the Monitor Station.



The figure below shows the error displayed if you create a Layout Group with the same name.



The figure below shows the error displayed if you create a Layout Group with a unique name but the same layouts of an existing group. You can bypass it and create the group anyway by clicking **Yes**.

Monitor S	itation	83
Â	Warning: You already have a group with the same layouts. Are you sure you want to continue?	
	Yes No	

Rules Manager

Rules Manager is a configuration wizard for Comprehensive Event Triggers and Actions. You can use it to set up a simple activity such as a recording schedule or complex cause and effect relationships involving Boolean logic.

Triggers can be:

- o DIO Input
- o Motion Event
- o Alert Button
- Scheduled
- Programmed -Remote triggers from the SDK
- o LPR License Plate Recognition
- Access Control Events

Resulting Actions include:

- o Create an action event for the Video Player
- Send a digital Output on a specific port
- o Audio Alert
- Email custom message
- o Email video to a specified user

• Flashback - Email a picture from a specific camera. The flashback function shows thumbnails of key motion movements for that recording. Instead of showing all motion, it analyzes the motion event and shows the most relevant image.

- Live Window Pops up a window displaying the live feed of a camera.
- Move a PTZ camera to a specific preset
- Record Set a recording type
- o Create a video file with audio
- \circ $\;$ Audio alert This will play a sound on the monitor station
- Instant Replay Plays the last 30 seconds of recorded video.
- Network Decoder sends Axis camera images to the network decoder
- Record with audio creates a file with audio included

• Switch camera or switch layout – Configuration allows you to have the monitor station change from the current layout to the one defined by this rule. You can set it up so that only a specific user can make the switch.

- Start time lapse recording
- Copy, Move or Delete Files
- Alarm Window

For example, if motion is detected or a door is opened between 12 AM to 8 AM, move the PTZ camera to a preset position and send an email.

For example, if motion is detected on Sundays, send an email and attach an AVI clip of the motion.

Rules in the Rules Manager can also be specific combinations of trigger events, schedules and resulting actions. For example, you could create a rule named Off-hour. Motion in Boy's Gym 12 AM and 6 AM moves the PTZ camera to a preset position, increases the recording frames per second and sends an email to the security chief.

Rules: Ability to Copy, Move or Delete a File

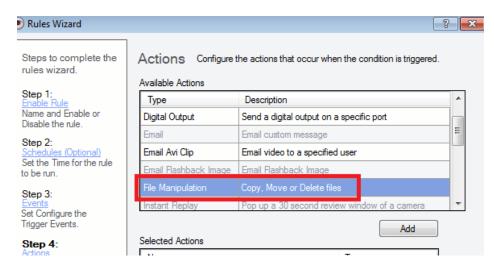
You can use Rules Manager to back-up files to another location. This new feature takes the daunting task of remembering to back-up important video recordings on a server and automates it. Using Rules Manager and File Manipulation you can also move or delete videos.

Administrator-level access is required to perform these tasks. To configure this new feature:

- 1. Click **Administration** and then select Setup and Configuration.
- 2. Select Rules Manager from the left navigation tree.
- 3. Enter the rule name for the task.
- 4. Click **Next**.
- 5. Schedule the time and frequency you want this rule to run.

Steps to complete the rules wizard.	Schedules	Add a date and t once or on a rec		to be run. It can	be set to run
Step 1: Enable Rule Name and Enable or Disable the rule. Step 2: Schedules (Optional) Set the Time for the rule to be run.	Name Rules Wizard - Sche General Information Name: Backu Type Weekd	р (Сору)]		Type
Step 3: Events Set Configure the Trigger Events. Step 4: Actions Set the list of Actions tha will run when the trigger events exist.	Weekly Scheduled D Monday Tuesday Wednesday	ays Thursday Friday Saturday		nday	Add
	Scheduled Time Start: End:		9:00:00 AM 10:00:00 AM	▲ ▼ Cancel	Finisł

- 6. Click **Next**.
- 7. Click **Next** to bypass the type of Event screen this rule should trigger.
- 8. Double-click File Manipulation from the Available Actions list.



Rules Wizard -	File Copy, Move or Delete				
File Copy, Move or Delete					
The ability to move, copy or delete video after a certain period of time.					
Name	File Manipulation				
Scope	Server Camera				
Cameras	 10.10.1.185 - Axis - Model: 216FD (10.10.1. customer camera (74.92.21.221) CA_Customer (66.180.119.123) CA_Customer_2 (66.180.119.123) CA_Customer_3 (66.180.119.123) CA_Customer_4 (66.180.119.123) CA_Customer_4 (66.180.119.123) 10.10.1.32 - Infinova - Model: 107X (10.10.1 10.10.1.46 - Toshiba - Model: Unknown (10 10.10.1.132 - Acti - Model: TCM7411 (10.1(10.10.1.148 - Axis - Model: (10.10.1.148) 				
Task	Copy video to another location 🔻 after 3 📩 days				
Destination	* Lies LINC exprise convertion & c				
	* Use UNC naming convention. (i.e \\StorageServer\Location1)				
	OK Cancel				

9. Enter the rule name.

10. Choose the scope of this rule. If Server is selected, all of the files for all of the cameras will be included. If Camera is selected, only the files for the checked cameras will be included.

11. Select the Task type: Copy, Move or Delete. You can create multiple rules to manage multiple cameras and server configurations. For example, you could create a rule to copy some camera's videos, delete others and move the rest.

12. Select the number of days, with a minimum of one day and a maximum of 999. The number selected reflects the most current days to keep; for example, if three is selected it will move, copy or delete all files older than three days.

13. Select the Destination folder. It can be a local folder or shared location. The folder must already exist for the task to complete successfully.

TV decoders

Adding a decoder

You can output system video to a television monitor. To output to a television you must add a TV decoder.

Note

Video Insight supports Axis 292 and P7701 decoders.

- 1. Click Administration and then select Setup and Configuration.
- 2. Select TV Decoders from the left navigation tree.
- 3. Select the server to add the decoder to from the drop-down menu.
- 4. Click Add.

×	oder propertie	Network
	Decoder Name	
	IP Address	
	User Name	
	Password	
	Decoder Type	
•	equence Mode	
	IP Address User Name Password Decoder Type	

OK	Cancel

- 5. Enter a decoder name.
- 6. Enter the IP address of the decoding device.
- 7. Enter the user name and password for the decoding device.
- 8. Select the Decoder Type.
- 9. Select the Sequence mode.
- 10. Click **OK**.

Deleting a decoder

- 1. Click **Administration** and then select Setup and Configuration.
- 2. Select TV Decoders from the left navigation tree.
- 3. Select the server to delete the decoder from the drop-down menu.
- 4. Select the Decoder from the list.
- 5. Click **Remove**.
- 6. Click **Apply** and then **OK**.

Modifying a decoder

- 1. Click Administration and then select Setup and Configuration.
- 2. Select TV Decoders from the left navigation tree.

- 3. Select the server to modify a decoder on from the server drop-down menu.
- 4. Select the Decoder from the list.
- 5. Click **Properties**.
- 6. Make changes as necessary and then click **OK**.
- 7. Click **Apply** and then **OK**.

Live View Monitor

Live View Monitor is an extension application used in conjunction with IP Server and Monitor Station to output control of live images displayed on walls of televisions.

You must have existing Layouts on the server before you can configure Live View Monitor.

Adding a Live View

- 1. Click Administration and then select Setup and Configuration.
- 2. Select Live View Monitor from the left navigation tree.
- 3. Select the server to add the Live View Layout to from the server drop-down menu.
- 4. Click Add.

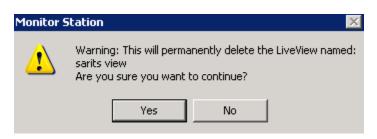
💽 Add New Li	veView Definition	X
Name	New Public View	
Description		
Layout	School Layout	
	OK Cancel	

- 5. Enter a definition name.
- 6. Add an optional description.
- 7. Select the layout from the drop-down menu.
- 8. Click OK.
- 9. Click **Apply** and then **OK**.

Deleting a Live View

- 1. Click **Administration** and then select Setup and Configuration.
- 2. Select Live View Monitor from the left navigation tree.
- 3. Select the server to delete the Live View Layout from the server drop-down menu.

- 4. Select the layout to delete from the list.
- 5. Click **Remove**.



- 6. Click Yes.
- 7. Click **OK**.
- 8. Click **Apply** and then **OK**.

Modifying a Live View

- 1. Click Administration and then select Setup and Configuration.
- 2. Select Live View Monitor from the left navigation tree.
- 3. Select the server to modify the layout from the server drop-down menu.
- 4. Select the layout to modify.
- 5. Click **Properties**.
- 6. Make changes as necessary and then click **OK**.
- 7. Click **Apply** and then **OK**.

Left navigation tree

The left navigation tree is a core functionality area for most user operations. There are three possible views of the left navigation tree:

- Enterprise View (default)
- Facility Map View
- Layout View

Enterprise View

Add/Remove Server: Select this option to show the Add/Remove Server dialog. See Adding servers manually for more information on adding and removing a server.

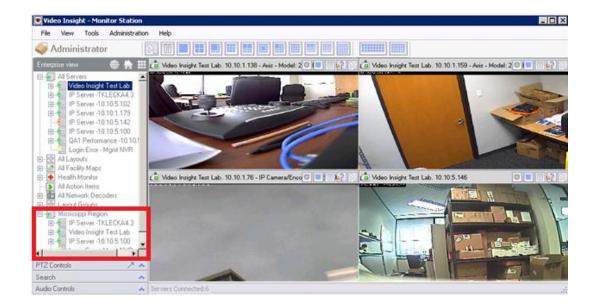
Server Name	A IP Address	Port	Status	Add New	
P Server -10.10.1.179	10.10.1.163	4011	Connected	Remove	
P Server -10.10.5.100	10.10.5.100	4011	Connected		
P Server -10.10.5.102	10.10.5.102	4011	Connected	Connect	Add/Remove Server
P Server -10.10.5.142	10.10.5.142	4011	Not Connected	Properties	
P Server -TKLECKA4.3	10.10.5.106	4011	Connected		Add Group
Mgmt NVR	10.10.5.5	4011	Not Connected		
QA1 Performance -10.10.5.199	10.10.5.199	4011	Connected	Ŷ	
	10.10.1.175		Connected		

Add Group: Select this option to add server groups. This is useful when organizing server locations by logical groups such as region in Monitor Station.

💽 Add New Group 🛛 🛛 🔀
Groups allows a means of organizing a large amount of servers. Enter the group name, and select the servers you want to include in the group. Servers can be by dragging and dropping them into this group.
Group Name
Servers in group
□ IP Server -TKLECKA4.3 □ IP Server -10.10.5.102
IP Server -10.10.1.179
□ Video Insight Test Lab □ IP Server -10.10.5.142
 IP Server -10.10.5.100 QA1 Performance -10.10.5.199 Mgmt NVR
OK Cancel

- 1. Enter a group name.
- 2. Check the servers that will be added to the group.
- 3. Click **OK**.

The figure below shows the newly added group:



There are three possible states for a server in the left navigation tree:

The left navigation tree displays a status color for each server:

Server is connected and settings may be modified

= Server is not connected due to a login error. It will continue to record video to the specified location; however, modifications to settings using MS or IPSM are not allowed

Server is not connected, possible due to a stopped service or a problem with the connection properties; confirm the IP address and port

Selecting a server from the left navigation tree displays the server's properties. Administrator rights are required to modify them. See Server Customization for more information on each field and tab.

Server is functioning properly: streaming video to clients, recording video and reporting to Health Monitor (if applicable).

= Server is stopped and is NOT recording or streaming video.

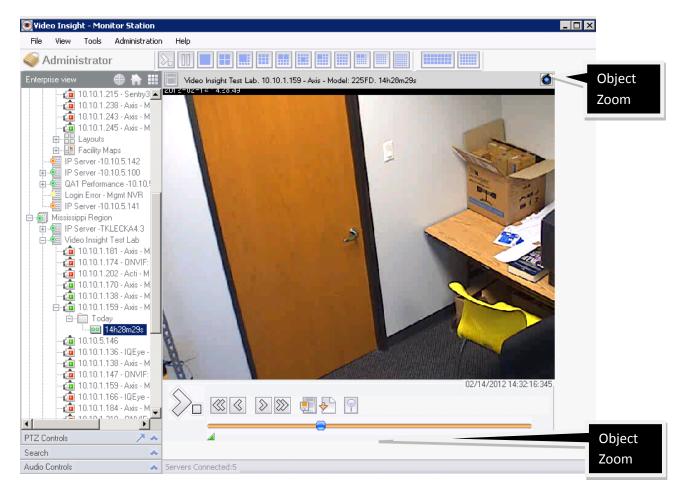
= Login Error: The server is found but security is on and the server attempted to authenticate with default credentials (Administrator/blank). Log out and log in to Monitor Station with appropriate credentials.

You can use the Enterprise view to view recorded videos if such access has been granted to the user.

To view recorded video double-click a camera in the left navigation tree. You may see several folders depending on the archiving settings configured for the server and the storage reserve space requirements. See <u>Media Player</u> for more information on accessing video on long-term storage.

You have several options when viewing recorded video from the Enterprise view.

1. Click the camera to list the video folders.



2. Click the file to play.

3. You can pause, stop or fast forwards or backward using the control buttons. You can also move one frame forward or backwards using the control buttons.

4. You can use the slider control to jump to a specific point in the video. The bottom right corner of the playback window displays time and date information.

5. You can also <u>download a video</u> or <u>create a clip</u> for distribution.

You can access the properties of any of node by right-clicking it.

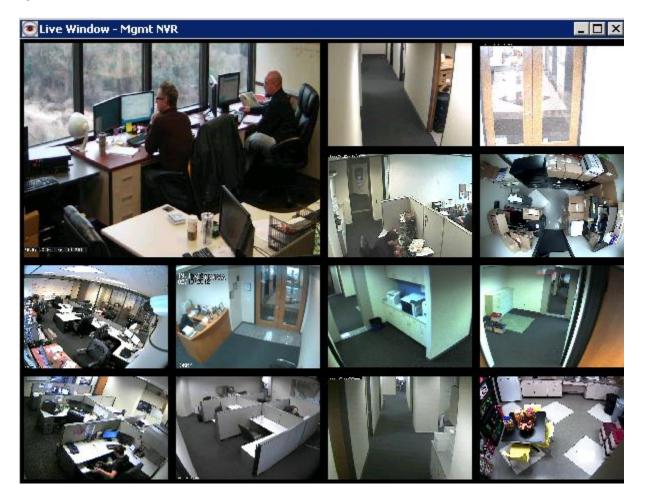
Contextual right-click menu

You can access the contextual menu for Servers and Server Groups by using a right click.

1. Right-click the server node.

Live Window	
View Server Cameras	
Disconnect	
Restart Service	
Status	
System Log	
Properties	

Live Window: Selecting Live Window displays a window with all of the server's cameras as shown in the figure below.



View Server Cameras: Selecting this option has the same effect as if clicking the server node. All of the server's cameras will appear in the main viewable area.

Disconnect: Select this option to disconnect the server. Cameras will no longer stream to the local Monitor Station. You can reconnect the server using a right click.

Restart Service: Select this option to restart the server service. IPSM must be running for the server to accept the request from the client. If IPSM is not running at the time of the request it will restart the next time it is launched.

Status: Select this option to bring up the Server Statistics dialog box. See Server statistics for more information on server status.

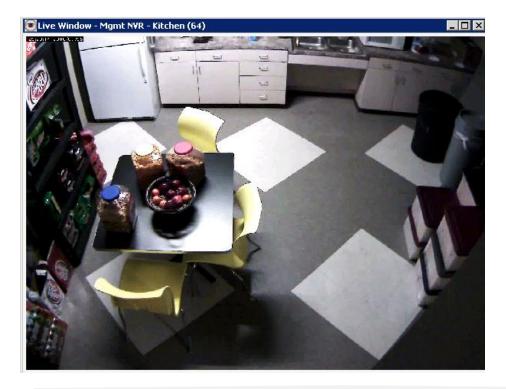
System Log: Select this option to display the system log. See System log for more information on the system log.

Properties: Selecting this option displays server properties. See IP Server customization for more information on server properties.

You can access the contextual menu for Cameras by using a right click.

Live Window
Send
View Camera
Properties

Live Window: Select this option to display a Live Window dialog box with the selected camera's view as shown in the figure below.



Send: Select this option to display a dialog box to select users to send the image to.

💽 Send to user					X
Select the users you want t	to view	this cam	era.		
Administrator swilliams userb test admin ipaduser					
		OK]_	Cancel	

Once sent, the same live window will appear on the user's Monitor Station, unless they have pop-ups blocked.

View Camera: Select this option to bring the camera into focus in a one camera layout in the main viewable area.

Properties: Select this option to change camera settings. See Modifying camera details for more information on camera settings.

For Layout:

Right-click the specific Layout node

Live Window
View Layout
Properties

Live Window: Selecting Live Window will display a pop-up with the using the selected Layout, as shown in the figure below.



View Layout: Select this option to bring the selected Layout into focus in the main viewable area.

Properties: Select this option to change Layout settings, including adding and removing cameras. See <u>Modifying a Layout</u> for more information on configuring layouts.

For Facility Map

Right-click the specific Facility Map node.

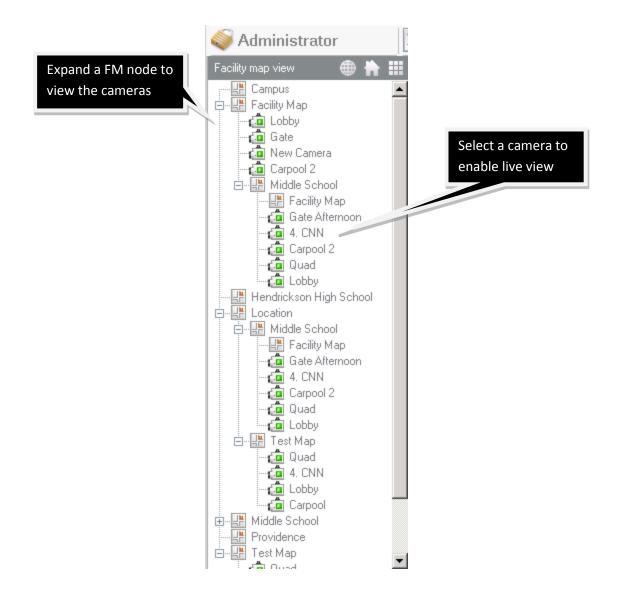
	View map
	View cameras
	Properties

View Map: Selecting this option brings the selected map into focus in the main viewable area as an integrated map (if that option is selected) or as a pop-up.

View cameras: Selecting this option brings the selected cameras overlaid on the map as a layout into focus in the main viewable area.

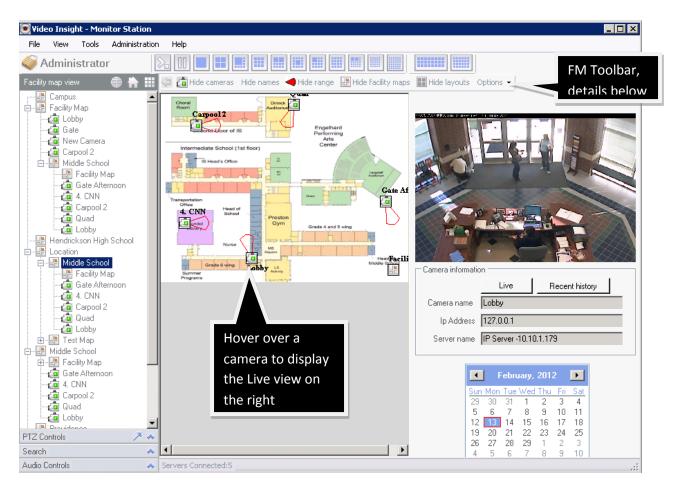
Properties: Selecting this option displays the Facility map setup pop-up to change its settings, including adding and removing cameras. See <u>Facility Maps</u> for more information on facility maps.

Facility Map View



You can view and manage surveillance operations using the Facility Map view instead of the main live view. This is useful from a tactical stand point as you will know the location of each camera and their viewable area aids security personnel.

You can view a Facility Map by clicking the desired node, as shown in the figure below.

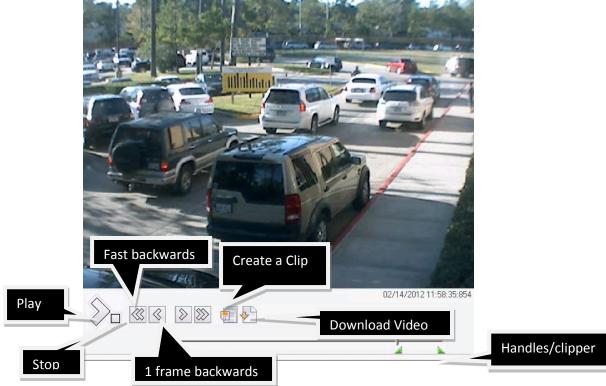


You can perform several actions on this screen.

Live: Click this button to display a live pop-up window.

Recent history: Click this button to display a 30 Second Review pop-up with the most recent history from the day selected on the calendar.

IP Server v5.5

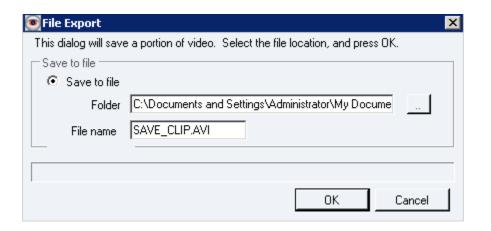


Server -10.10.1.179. Carpool. Thirty second revie

You can create a clip from the 30 Second Review pop-up.

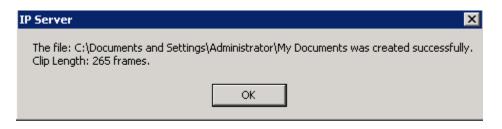
Creating a clip

- 1. Use the green symbols to bracket the desired clip.
- 2. Click **Create a Clip**.



3. Browse to the desired save location or enter the path.

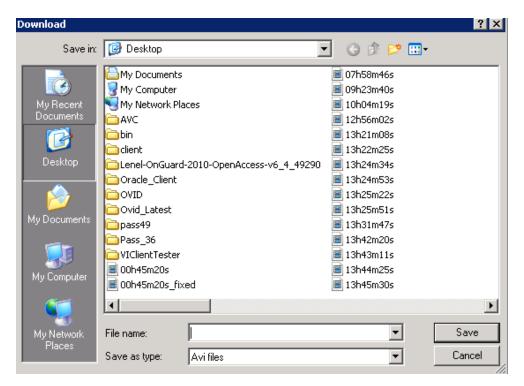
4. Enter the clip name or accept the default and then click **OK**.



5. After the file is saved a notification pop-up displays the clip length. Click **OK**.

Downloading a recorded file

1. To save a recorded file, click **Download Video**.



- 2. Select the save location and enter the file name.
- 3. Click **Save**.

💽 Media File Download	×
Please wait while the following file is being downloaded: Carpool Incident.avi This may take a few minutes.	
Cancel	

4. A notification pop-up displays download progress.

Network Media Player	×
You have successfully downloaded file C:\Documents and Settings\Administrator\Desktop\Carpool Incident.a	vi
ОК	

5. Click OK.

Facility Map toolbar

You can use the Facility Map Toolbar to further customize the Facility map view and behavior.

🤄 📩 Hide cameras 🛛 Hide names	┥ Hide range	💾 Hide facility maps	📰 Hide layouts	Options 👻
-------------------------------	--------------	----------------------	----------------	-----------

= Facility Maps can have cameras as well as other Facility Maps overlaid additional terrain detail. Use the back button to return from a sub map to the prior view.

Hide cameras =Clicking this hides the camera icon used to designate a camera on the m	nap.
---	------

Hide names = Clicking this hides the camera names that may obstruct the terrain view.

Hide range = Clicking this hides the viewable cone icon on the map.

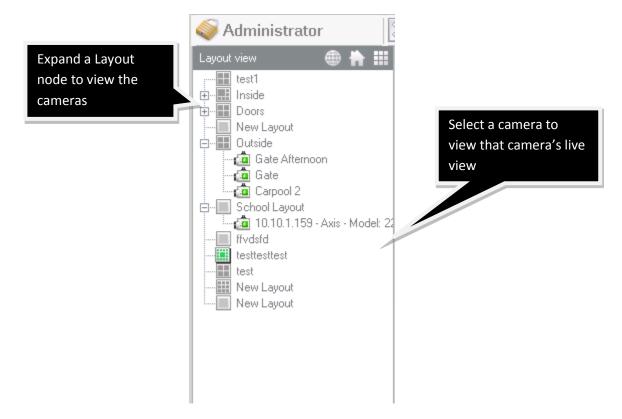
Hide facility maps = Clicking this hides sub facility maps on the current map.

Hide layouts = Clicking this hides layouts on the current map.

Options • = Clicking this displays the following menu:

Change Font... Hide Zoom Bar Change font color From this menu you can change the camera name font and the font color. You can also hide the Zoom bar that is located at the bottom right of the screen.

Layout View



You can view a Layout by clicking the desired node. The selected layout displays in the main view area. You can also right-click a Layout and display the contextual right-click menu. See Contextual right-click menu for more information on this menu.

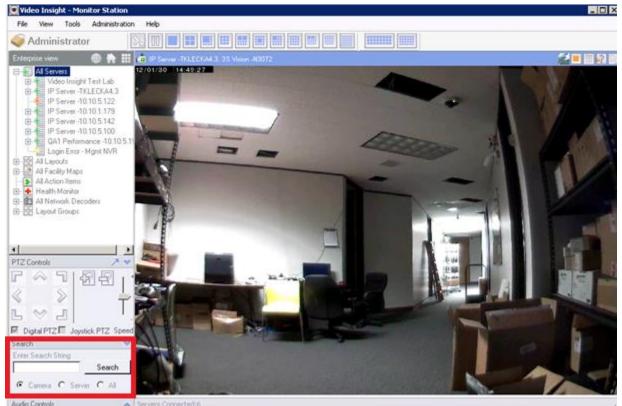
You can view recorded video by double-clicking a camera to expand the recorded video folders.



PTZ Controls pane

See <u>PTZ controls</u> for more information.

Search pane



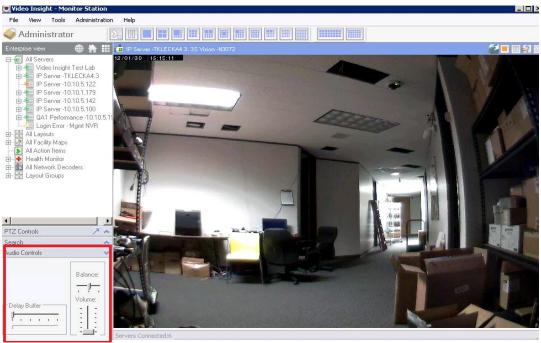
You can use the Search box in the left navigation tree to find a camera, server or anything with a matching string.

The search result displays all matches. For example, if multiple cameras use "pos" in their name the search result will look like the figure below.

Search Results		
Camera (14)		
 10.10.5.147-position 6 10.10.1.148-position 7 10.10.5.136-position 4 10.10.1.238 -position 9 position 2 front door-position 14 advidia- position 11 		
(a) 10.10.1.138-position 5 (a) 10.10.1.170-position 8 (a) ∨P-position 15 (a) position 13 (a) position 3		
ia VP16:position 1 a front desk-position 16		
	ОК	Cancel

Double-click the camera of your choice or highlight it and then click **OK**. The selected camera is highlighted in the left navigation tree.

Searching for a camera by its IP address searches the IP field instead of the camera name.



Live Audio Controls pane

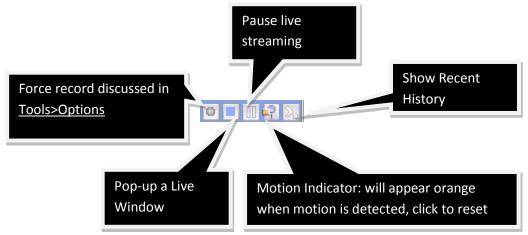
You can use the Audio Controls pane to control the speaker's volume, balance and buffering. Live Audio must be selected and supported by the camera.

Layouts toolbar

See <u>Cycle Layouts</u> for more information on the layout toolbar.

Quick Access toolbar

The camera's Quick Access toolbar includes display information and several shortcut buttons.



Server statistics

Administrators can use the Server Statistics sub menu to manage all servers, review server and camera status, as well as manage storage, licensing and online users.

Overview tab

The Overview tab displays all servers that have been added to the Monitor Station. The tab lists the server name, software version, IP address and the port used for that service. If a server is offline or security is on and incorrect credentials have been used the tab displays the software version as Unknown.

erver Name	Version	IP Address	Port
IP Server -TKLECKA4.3	Unknown	10.10.5.106	4011
IP Server -10.10.5.102	Unknown	10.10.5.122	4011
IP Server -10.10.1.179	4.3.0.62	10.10.1.163	4011
Video Insight Test Lab	4.3.0.62	10.10.1.175	4011
IP Server -10.10.5.142	Unknown	10.10.5.142	4011
IP Server -10.10.5.100	Unknown	10.10.5.100	4011
QA1 Performance -10.10.5.199	Unknown	10.10.5.199	4011
Mgmt NVR	Unknown	10.10.5.5	4011
IP Server -10.10.5.141	Unknown	10.10.5.141	4011
IP Server -10.10.5.102	Unknown	10.10.5.122	4011

Server Status tab

The Server Status tab displays all servers and their current processor usage percentage, memory available to the IP service and total memory available on the server. To have the values automatically refreshed for servers running version 4.3 or later, check the box for Constant updates.

Server Name	Processor %	Memory Available	Total Memory
IP Server -10.10.1.179	12 %	403 MB	1980 MB
🔟 Video Insight Test Lab	82 %	541 MB	2039 MB

Camera Status tab

The Camera Status tab displays the camera name, the last received communication from the server, the resolution being used, the number of frames per second, the bandwidth, frame size and the format.

The Format displays unknown if no connection to the camera has been made recently. Cameras attached to a server running Video Insight software earlier than version 4.3 will display most information as 0 or unknown.

You can filter the camera list by server from the drop-down menu, as shown in the figure below.

Camera Name	Last received	Last write	Resolution	Frames	Bandwidth	Frame size	Format
🧰 4. CNN	3:08:20 PM	-	704 x 480	4	2680 kbps	84 KB	MJPG
🧰 Carpool	3:08:20 PM	3:07:35 PM	640 x 480	10	3600 kbps	45 KB	MJPG
🤷 Carpool 2	3:08:20 PM	-	640 x 480	10	2704 kbps	34 KB	MJPG
🤷 Gate	3:08:20 PM	3:08:20 PM	1600 x 1200	4	5240 kbps	164 KB	MJPG
🧰 Gate Afternoon	3:08:20 PM	-	1600 x 1200	6	5344 kbps	111 KB	MJPG
🤷 Lobby	3:08:20 PM	-	640 x 480	5	2128 kbps	53 KB	MJPG
🤷 New Camera	3:08:20 PM	3:08:20 PM	640 x 480	10	4040 kbps	50 KB	MJPG
🧰 New Camera	3:08:20 PM	1:30:58 PM	640 x 480	10	184 kbps	2 KB	DIVX
👛 Quad	3:08:20 PM	-	640 x 480	9	3928 kbps	55 KB	MJPG
(•

Storage tab

The Storage tab displays all cameras on a selected server and their corresponding storage usage for the displayed number of days.

Camera Name	Days	Space Used	Server Folder
4. CNN	0	0	c:\video\127.0.0.1-296023494
Carpool	2	12 GB	c:\video\127.0.0.1-501745363
Carpool 2	0	0	c:\video\127.0.0.1-1227882411
Gate	2	57 GB	c:\video\127.0.0.1-1794956641
Gate Afternoon	0	0	c:\video\127.0.0.1-368440564
Lobby	0	0	c:\video\127.0.0.1-1877753883
New Camera	2	5 MB	c:\video\10.10.5.222-1428661001
New Camera	2	65 GB	c:\video\127.0.0.1-1963630245
Quad	0	0	c:\video\127.0.0.1-680714897

Licensing tab

The Licensing tab displays all servers, the maximum number of cameras allowed by the license, the number of licenses used by cameras, the number of licenses available and the serial number.

Server Name	Max Cameras	Used	Available	Serial Number	
IP Server -10.10.1.179	16	9	7	66B53	
🗏 Video Insight Test Lab	99	18	81	4DDAC	

Online Users tab

The Online Users tab displays all users connected to the server in real time. This feature displays only users logged in using Monitor Station.

Overview	Server Status	Camera Status	Storage	Licensing	Online Usen	5	
User Nar	THE	Serven	logged in	to			
Admir	nistrator	IP Serv	er -10.10.	1.142			
Refres	h						

Health Monitor

1. Double-click the Health Monitor icon on your Desktop.

🛉 Health Monitor Database Info 🛛 🕅 🔀
Enter information for the SQL Server Machine that contains your Health Monitor Database.
Database Name HealthMonitor
IP Address 127.0.0.1
SQL Server User ID sa
SQL Server Password
OK Cancel

2. Enter the IP address of the server with the Health Monitor database and the sa credentials or accept the defaults if the database is installed locally.

3. Click **OK**.

4. Find the Health Monitor icon (a medical cross) in the System Tray. The health monitor service is running if the icon is green.

- 5. Right-click on the icon and select Launch Console.
- 6. Click **Setup** and then User Manager.
- 7. Click Add.

🖵 Email Contact Properties	
Contact Information Contact [New] Contact Sarit Williams Name Email swilliams@video-insight.com Address Alternate information Alternate Contact	Optional Contact Information Location Phone # Office Address City State
Assistant	Test OK Cancel

- 8. Enter contact information. Only Contact Name and Email Address is required.
- 9. Click **Test** to send a test email to the contact. This is optional.
- 10. Click **OK**.

Configuration of Health Monitor is complete. Configure each IP Server to point to Health Monitor as described in <u>Health Monitor tab</u> and in <u>Health Monitor</u>.

🕂 System Status: All Servers - Refres	ih Rate: 60 se	cond(s)				_ 🗆 ×
Server Name	IP Address	Last Status Time	Version	Up	Dow	Record
Video Insight Test Lab	10.10.1.175	12/27/2011 12:27 PM	4.3.0.58	8	0	
<u> </u> •						
All Servers 🗾 F	Refresh					ОК

Server configuration

After an IP Server is configured to report to Health Monitor, it sends the server name, IP address, last contact date and time, IP Server version number as well as the number of cameras up and down. Health Monitor refreshes for any changes every 60 seconds by default. Server status is indicated by a colored circle to the left of the server name. There are four possible states in Health Monitor:

= Managed condition: The server has been configured or managed.



= Unmanaged condition: The server has reported to Health Monitor, but is not managed.



- = Warning condition: The server has not reported in the allotted time.
- = Error condition: The server is down or otherwise offline and attention is required.

To manage an unmanaged server:

1. Right-click on a server with gray status.

+ 9	iystem Status: All Se	ervers - Refrest	n Rate:	60 se	econd(s)				_ 🗆
	Server Name		IP Addre	ess	Last Status Time	Version	Up	Dow	Record
0	Video Insight Test La - -	Refresh Stop Update Change Interva Group Report Remove Server Manage Server	al ► s ► ►	175	12/27/2011 12:48 PM	4.3.0.58	8	0	
	Servers		efresh	1					<u></u> р

2. Click Manage Server.

🕂 Add Server	_ 🗆 🗙
General Email Conditions Information Tools	
Server Name Video Insight Test Lab Name (from Server) Video Insight Test Lab	Status Minutes to Warning 30 ∓ Minutes to Error 60 ∓
IP Address 10.10.1.175 For keeping track of a server that uses DHCP, or chan name recieved from the server is unique, and enable t	
	OK Cancel

3. On the General tab you can accept or add to the server's reported name. You cannot completely delete or rename it. You can accept or change the default warning time in minutes before an email is sent to Health Monitor contacts. You can accept or change the default error time in minutes before an email is sent to Health Monitor contacts.

- 4. Click the Email tab.
- 5. Check the contact(s) to be notified in the event of a warning or error.

Properties for Sarit-Video Insight Test Lab		. 🗆 X
General Email Conditions Information Tools Contact Information [None] I - Sarit Williams I - Sarit Williams Image: Contacts I - Sarit Williams I - Sarit Williams I - Sarit Williams Image: Contacts I - Sarit Williams I - Sarit Williams I - Sarit Williams Image: Contacts I - Sarit Williams I - Sarit Williams I - Sarit Williams Image: Contacts I - Sarit Williams I - Sarit Williams I - Sarit Williams Image: Contacts I - Sarit Williams I - Sarit Williams I - Sarit Williams Image: Contacts I - Sarit Williams I - Sarit Williams I - Sarit Williams Image: Contacts I - Sarit Williams I - Sarit Williams I - Sarit Williams Image: Contacts I - Sarit Williams I - Sarit Williams I - Sarit Williams Image: Contacts I - Sarit Williams I - Sarit Williams I - Sarit Williams Image: Contacts I - Sarit Williams I - Sarit Williams I - Sarit Williams Image: Contacts I - Sarit Williams I - Sarit Williams I - Sarit Williams Image: Contacts I - Sarit Williams	Optional Contact Information	
Contact James Whitcomb Name Email test1@video-insight.com Address	Alt Contact Assistant OK Can	cel

6. Click the Conditions tab.

🕂 Properties for Sarit-Video Insight Test La	ab 💶 🗵
General Email Conditions Information T	ools
Message From Email: swilliams@video-insight.c	Use Default Subject
Subject	Use Default Body
Message Body:	
Conditions	
🔽 Email on Warning	🔽 Email when Camera goes down
🔽 Email when Recovering from Warning	g 🔽 Email when Camera Recovers
Email on Error	Email when Recovering from Error
	OK Cancel

7. Check the condition(s) that generate an email to the contact when the warning and error time thresholds are met.

Note

Do not set the threshold too low because you may miss important notifications. For example, if a server and camera time threshold is set to 30 minutes and a server is shut down and restarted within five minutes an email will not be generated. In another example, if a server and camera time threshold is set to one minute and it takes the server five minutes to restart an email will be generated and sent to all selected contacts.

Health Monitor may report that it is unable to connect to IP Server. The table below lists possible reasons and potential solutions.

Possible reasons Health Monitor cannot connect to IP Server and potential solutions.

IP address changed	Update the server's IP address.
Server is either manually or automatically restarted	The server or its services may have been restarted to apply changes. Wait a few minutes and refresh
	Health Monitor.
Diagnostics is running	During Diagnostics the service is stopped for troubleshooting purposes. Wait for Diagnostics to
	complete or access Diagnostics and start the
	service.
The time interval set to warning or error is	Check Minutes to Warning and Minutes to Error
extremely long, server status has not updated in	settings.
some time and the last known status of a server is	
down	
Port 11000 is blocked	Access a command line and enter the DOS
	command <i>netstat</i> to verify the port is available and
	listening
The checkbox for Enable Health Monitor is	Check the box to enable management of the
unchecked in <u>Server Properties</u>	server.
Health Monitor information is removed from	Add Health Monitor back to this section.
Setup and Configuration>Health Monitor Section	
IP service is not started due to an expired	Acquire the proper license and click Update

demonstration version	Activation in <u>Diagnostics</u> .
Network outage	Wait for network service to be restored.
The server's name has changed	Health Monitor displays red status for the old server name. Status for the new server name displays gray (unmanaged). Remove the old server name from Health Monitor and configure the new server name or restore the name of the old server.
Database-related information has changed and the server can no longer access the database	Use <u>Diagnostics</u> to check database connectivity.

Security

Video surveillance is a pillar of overall security. To secure our products we have implemented secure access to the software, watermarking of recorded video and the ability to quickly know when someone has modified something by using the logs.

User Manager

You can use the User Manager utility to add, modify and delete users. You can also use it to add groups and assign permissions to groups.

- 1. Start Monitor Station.
- 2. Click Administration and then Setup and Configuration.
- 3. Click User Manager in the left navigation tree.

∃…oon All Servers ⊡…oon Video Insight Test Lab	User Manager Group Mana	ger PTZ Prioritization		
	Server Video Insight Test Lab	•		
a 10.10.1.76 - IP Came a 10.10.5.146	Users			_
🗄 📲 IP Server -TKLECKA4.3	User Name	△ Full Name	Email	Add
	admin		swilliams@video-insight.com	Propertie
	Administrator		swilliams@video-insight.com	- Hoperce
Login Error - Mgmt NVR	ipaduser	ipad user	swilliams@video-insight.com	Remove
	usera			
i≟⊶ 🥮 QA1 Performance -10.10 ⊡- 🚰 Tools	userb			Refresh
Health Monitor Facility Map Generation Generation				Import
			OK Cancel	- Apply

Adding users

To add a user using User Manager:

- 1. Select the server to add the user to.
- 2. Click Add.

🖲 Add New User	×
User Groups Came	ra Permissions Facility Maps Layouts Rules
Add .	a new user to control access to cameras and Video Server control.
User Name	JaneDoe
Full Name	Jane Doe
Email Address	JDoe@video-insight.com
Password	XXXX
Verify Password	XXXXX
	User is Administrator
	Send Test Email
	Add Close

- 3. Enter the user's information.
- 4. Check the box if the user is an Administrator.
- 5. To send a test email to the user, click **Send Test Email**.
- 6. Click Add if the user is an Administrator. If the user is not an administrator, see Modifying Users

for more information on modifying non-administrator users.

Note

When designating a user as an Administrator, access to all cameras, facility maps and layouts is generated automatically.

Deleting users

To delete a user using User Manager:

- 1. Select the server to delete the user from.
- 2. Select the user from the Users list.

⊒-• All Servers	User Manager Group Manager P	TZ Prioritization		
	Server Video Insight Test Lab Users			
🗄 📲 IP Server -10.10.5.100	User Name	🛆 🛛 Full Name	Email	Add
QA1 Performance -10.10	admin		swilliams@video-insight.com	Descrition
Login Error - Mgmt NVR	Administrator	Administrator	swilliams@video-insight.com	Properties
Health Monitor	ipaduser	ipad user	swilliams@video-insight.com	Remove
	usera			
<mark>iii</mark> User Manager ⊕	userb			Refresh
- Paules Manager - An TV Decoders - M Live View Monitor				Import
			OK Cancel	Apply

3. Click **Remove**.

Modifying users

To modify a user using User Manager:

- 1. Select the server to modify the user on.
- 2. Select the user from the Users list.
- 3. Click **Properties**.

💽 Add New User		×
User Groups Came	ra Permissions Facility Maps Layouts Rules	
Add	a new user to control access to cameras and Video Server control.	
User Name	swilliams	
Full Name	Sarit Williams	
Email Address	swilliams@video-insight.com	
Password	XXXX	
Verify Password	NHX M	
	User is Administrator	
	Send Test Email	
	OK Cancel	

- 4. To modify the user's information, click the User tab.
- 5. To modify the user's group association, click the Groups tab.

Add New User		
User Groups	Camera Permissions Fa	acility Maps Layouts Rules
	to the following groups. Th	he user will gain all of the permissions available to
these groups. Available Group	s	Groups assigned to this User
Quality Assuran	ce	
		OK Cancel

6. To add a group association, select a group from the Available Groups pane and click the right arrow button. To remove a group association, select a group from the Groups assigned to this user pane and click the left arrow button.

7. To modify the user's camera permissions, click the Camera Permissions tab.

Note

Cameras without audio or PTZ capabilities will remain unchecked regardless of the user.

Camera Name	Live View	Recorded	Ptz	Audio	Clip
10.10.1.76 - IP Camera/Enco					
10.10.5.146					
10.10.1.138 - Axis - Model: 2					
10.10.1.159 - Axis - Model: 2	▼	~			

8. To add camera permissions, check the feature boxes for each camera the user will have access to. To remove camera permissions, uncheck the feature boxes for each camera the user will no longer have access to.

9. To modify the user's map permissions, click the Facility Maps tab.

Name Tao Mara	Allow Facility Map
Facility Map Providence	

10. To add map permissions, check the box next to each Facility Map the user will have access to. To remove map permissions, uncheck the box next to each Facility Map the user will no longer have access to.

11. To modify the user's layout permissions, click the Layouts tab.

🕽 Add New User		×
User Groups Camera Per	missions Facility Maps Layouts Rules	
This is a list of layouts explicitly associating with a specific gro	assigned to this user. Any additional rights assign up will be added to these rights.	ned by
Name	Description	Allow Layout
My Tour		
	Clear All	All Layouts
	[OK Cancel

12. To add layout permissions, check the box next to each Layout the user will have access to. To remove layout permissions, uncheck the box next to each Layout the user will no longer have access to.

13. To modify the user's rules permissions, click the Rules tab.

Note

You must repeat the permissions granting process for all users and groups with each added camera, Layout, Facility Map or Rule.

	ts.	
Name	Description	Allow Rule
lew Rule	New Rule	
-44	A-44	

14. To add rules permissions, check the box next to each Rule the user will have access to. To remove rules permissions, uncheck the box next to each rule the user will no longer have access to.

- 15. Click **OK** if complete.
- 16. Click **Apply** and then **OK** to exit the Setup and Configuration module.

Importing users

If you have multiple databases and servers used by the same users, you can create the users on one server and then import them to the rest of the servers with a few clicks.

To import users using User Manager:

- 1. Select the server the users selected will be imported to.
- 2. Click **Import**.

💽 Import users 🛛 🗙
Check the users you want to import into your server.
IP Server -TKLECKA4.3 Administrator IP Server -10.10.1.179 Administrator Swilliams IP Server -10.10.5.142 IP Server -10.10.5.142 IP Server -10.10.5.100 Administrator IP Server -10.10.5.100 IP Server -10.10.5.100 Administrator IP Server -10.10.5.100 Administrator Administrator
OK Cancel
3. Check the users to import.

- 4. Click **OK**.
- 5. Click **Refresh**.
- 6. Repeat the process for all servers to import users to.

Adding groups

To add groups using User Manager:

1. Click the Group Manager tab.

Setup and Configuration		?
P-@ All Servers	User Manager Group Manager PTZ Prioritization	
Video Insight Test Lab IP Server -TKLECKA4.3 PS Server -10.10.5.122 VIEW IP Server -10.10.5.142 PS Server -10.10.5.142 VIEW IP Server -10.10.5.100 VIEW IP Server -10.100 VIEW IP Server -10.100	Server Video Insight Test Lab Group Show Users Group Name Users	Add Properties Remove Refresh
I	0	K Cancel Apply

- 2. Select the server.
- 3. Click Add.

💽 Add New Group 🛛 🔀
Group Camera Permissions Facility Maps Layout Permissions Rules Use groups to manage access to Video Servers. Group Name Quality Assurance
Active directory group Domain
Available Users Users In Group
AddClose

- 4. Enter the group name.
- 5. Check the box for Active directory group if Active Directory has already been configured.

6. To add a user to the group, select a user from the Available Users pane and then click the right arrow button. To remove a user from the group, select a user from the Users In Group pane and then click the left arrow button.

×

🗐 Add New Group

Group Camera Permissions Facility Maps Layout Permissions Rules		
Use groups to manage access to Video Servers. Group Name Quality Assurance	_	
Active directory group Domain		
Available Users Users In Group Administrator userb admin ipaduser usera Usera Users In Group userb usera		
	Add	Close

- 7. Click Add.
- 8. See Modifying groups for more information on setting permissions.

Deleting groups

To delete a group using User Manager:

- 1. Select the server from which the group will be removed from.
- 2. Select the group from the Group list.

Setup and Configuration		?
⊡-• All Servers	User Manager Group Manager PTZ Prioritization	
IP Server -10.10.5.122	Server Video Insight Test Lab	
⊕• IP Server -10.10.1.179 ⊕• IP Server -10.10.5.142	Group 🔽 Show Users	
	Group Name 🔺 Users Quality Assurance swilliams	Add
Login Error - Mgmt NVR	quality Assurance swilliams	Properties
Tools		Remove
E Layouts		Refresh
🛐 TV Decoders		
Eive View Monitor		
•	ОК	Cancel Apply

3. Click **Remove**.

Modifying groups

To modify a group using User Manager:

- 1. Select the Group Manager tab.
- 2. Select the server.
- 3. Select the group from the Group list.

tup and Configuration		?
All Servers	User Manager Group Manager PTZ Prioritization	
	Server Video Insight Test Lab	
⊕ • • • • • • • • • • • • • • • • • • •	Group 🔽 Show Users	
	Group Name 🛆 Users	Add
•• QA1 Performance -10.10 •• Login Error - Mgmt NVR	Quality Assurance swilliams	Properties
Tools		Remove
💾 Facility Map		
User Manager		Refresh
Layouts Rules Manager		
TV Decoders Live View Monitor		
•		OK Cancel Apply

4. Click **Properties**.

Add New Group	
	ty Maps Layout Permissions Rules anage access to Video Servers. ality Assurance
Active directory group Available Users Administrator userb admin ipaduser swilliams	Domain Users In Group swilliams ipaduser

5. Modify the group's name if needed.

6. To add a user to the group, select a user from the Available Users pane and then click the right arrow button. To remove a user from the group, select a user from the Users In Group pane and then click the left arrow button.

7. To modify a group's camera permissions, click the Camera Permissions tab.

Camera Name	Live View	Recorded	Ptz	Audio	Clip
10.10.1.76 - IP Camera/Enco					
10.10.5.146				~	
10.10.1.138 - Axis - Model: 2				V	
10.10.1.159 - Axis - Model: 2		•	•	~	•

8. To add camera permissions, check the feature boxes next to each camera the group will have access to. To remove camera permissions, uncheck the feature boxes next to each camera the group will no longer have access to.

9. To modify a group's map permissions, click the Facility Maps tab.

Note

Cameras without audio or PTZ capabilities will remain unchecked regardless of the user.

Add New Group				
Group Camera Permissions	Facility Maps La	ayout Permissions Ru	iles	
This is a list of facility maps ex associating with a specific gro	plicitly assigned to oup will be added to	this group. Any addition these rights.	onal rights assigned b	y.
Name		Allow Facility Map		
Facility Map				
Providence				
		Clea	r All 🔤 🔤 All Maps	
			ок	Cancel

10. To add map permissions, check the box next to each Facility Map the group will have access to. To remove map permissions, uncheck the box next to each Facility Map the group will no longer have access to.

11. To modify a group's layout permissions, click the Layout Permissions tab.

Add New Group				X
Group Camera Permission:	s Facility Maps Layout Permi	ssions Rules		
This is a list of layouts expl assigned by associating wi	icitly assigned to this user. Any a th a specific group will be added	additional rights I to these rights.		
Name	Description	Allow Layout		
School Layout				
		Classical	All Laura da	
		Clear All	All Layouts	
			OK Cance	. 1

12. To add layout permissions, check the box next to each Layout the group will have access to. To remove permissions, uncheck the box next to each Layout the group will no longer have access to.

13. To modify a group's rules permissions, click the Rules tab.

Note

You must repeat the permissions granting process for all users and groups with each added camera, Layout, Facility Map or Rule.

dd New Group		
roup Camera Permission	s Facility Maps Layout Permissions	Rules
his is a list of Rules explici ke buttons, and switching	tly assigned to this user. This will be u layouts.	sed for User interactive rules
Name	Description	Allow Rule
Record when Audio	Record when Audio	
		OK Cance

14. To add rules permissions, check the box next to each Rule the group will have access to. To remove rules permissions, uncheck the box next to each Rule the group will no longer have access to.

- 15. Click **OK** if complete.
- 16. Click **Apply** and then **OK** to exit the Setup and Configuration module.

PTZ priority

The PTZ Prioritization tab allows administrators to set the priority for users on all PTZ capable cameras. The higher the listed user or group is, the higher their priority.

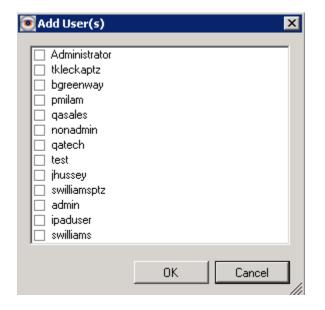
To configure PTZ priority:

- 1. Start Monitor Station.
- 2. Click Administration and then Setup and Configuration.
- 3. Click User Manager from the left navigation tree.
- 4. Click the PTZ Prioritization tab.
- 5. Select the server to set the priority on from the Server drop-down menu.

Setup and Configuration			 ? ×
All Servers	User Manager Group Mana	ger PTZ Prioritization	
afit afit afit afit afit afit afit afit	Server Sarit	•	
🖆 🚎 Tools	User\Group Name	User or Group	
Facility Map	tkleckaptz		Add User
	swilliamsptz	User	Add Group
🗄 Layouts			

E- 2 Tools	L	Sant			
Health Monitor		User\Group Name	User or Group		
		tkleckaptz			Add User
	4	swilliamsptz	User		Add Group
		Quality Assurance	Group		Remove
TV Decoders					
					\bowtie
l					

6. Click Add User or Add Group.



7. Check the user(s) or group(s) and then click **OK**.

8. Select the user or group to prioritize and click the up or down arrow buttons to increase or decrease their priority, respectively, as shown in the figure below. ? X Setup and Cor

All Servers	User Manager Group Manager Server Sarit	er PTZ Prioritization	
- 🚰 Tools 🖶 Health Monitor 💾 Facility Map	User\Group Name bgreenway	User or Group User	Add U:
<mark>≇</mark> User Manager ⊕	tkleckaptz swilliamsptz	User User	Add Gr
Rules Manager Mart TV Decoders Cive View Monitor	Quality Assurance	Group	Remo

If two users or groups want to use the PTZ feature on the camera at the same time, the lower-priority user will to wait 300 seconds. The default wait time is 5 minutes (300 seconds). The wait time can be changed in the database but is a task recommended only for advanced users.

To increase or decrease the wait time per user:

- 1. Start Microsoft SQL Server Management Studio Express.
- 2. Expand the InsightEnt database.
- 3. Right-click the PTZPriority table and select open.

KMicrosoft SQL Server Management Studio	Expre	55					_ 🗆 ×
File Edit View Query Designer Tools	Vindow	Community	Help				
😫 New Query 🛅 🛃 🗁 💖 🔩 📟	7 B	a 🖪 📴 🎉	🚰 🖕				
🗄 😨 🏢 🕺 🧱 Change Type 🕶 🕴 🥵 🛛	E *	1 🖆 🖕	_				
Object Explorer 🛛 🗸 🕈 🗙		TEST6.InsightEr	nt - dbo.Version 🗡 TE	ST6.InsightEbo.F	TZPriority		₹×
환 🦉 = 🝸		ityID	IsGroup	UserOrGroup_ID	LockSeconds	Priority	IsGoł
🛨 🔲 dbo.LiveView 🔺	í 🕨		False	1905325030437	300	3	False
🕀 🔲 dbo.Locations			False	6580421630372	300	2	False
			True	6150921219785	300	1	False
	*		NULL	NULL	NULL	NULL	NULL
🗊 🥅 dbo Servers							

- 4. Notice the LockSeconds column.
- 5. To update the value to something other than 300 seconds run the following query:

```
UPDATE [InsightEnt].[dbo].[PTZPriority]
SET [LockSeconds] = '240'
```

This sample query will change all users in PTZPriority table to a 240 second (3 minutes) delay. You can add additional clauses to further restrict certain users or groups.

Login

The software is installed with security off enabling login-free access to the Monitor Station and Web Clients. See the Advanced tab of <u>Server properties</u> for more information on setting server security.

You can choose any one or a combination of login options depending on your company and security needs.

To change Monitor Station login settings:

1. Start Monitor Station.

Monitor Station system login	×
Username Administrator Password Monitor Station system login Options C Local user mode Location of data file Brow Windows Login Domain Domain	se
OK Cancel <u>O</u> ptions	<

Local user mode: This option can be used on its own or in combination with the Windows Login checkbox (discussed later). When this option is used on its own it behaves differently depending on other system settings.

Security On: With Server Security On, the credentials entered will be checked for validity against Monitor Station User Manager. See <u>Adding users</u> for more information on adding users in User Manager.

Security Off: With Server Security Off, all logins will be accepted.

With Windows Login Check enabled: This case assumes that an Active Directory or LDAP configuration has been implemented and that all users will be authenticated against Active Directory and/or Monitor Station User Manager (because all Active Directory/LDAP users are imported to User Manager) as long as Server Security is turned on.

To login using Active Directory:

- 1. Start Monitor Station.
- 2. Click **Options**.

Monitor Station :	system login	X
Username	swilliams	
Password		
- Monitor Station	system login Options	
Local us	er mode	
Network	user mode	
Location	of data file	
		Browse
🔽 Windows	: Login	
Domain	vicorp.videoinsight.net 🔹 👻	
	K Cancel	Options <<

- 3. Check the box for Windows Login.
- 4. Select the Domain from the drop-down menu.
- 5. Enter the user name and password.
- 6. Click **OK**.

Network user mode: This option is useful in large environments where there are many clients and servers. Instead of adding every server to each client and then having to manage multiple lists when adding or removing servers from Setup and Configuration, you can add all of the servers using one Monitor Station.

To add all servers using one Monitor Station:

- 1. Navigate to Setup and Configuration.
- 2. Add all of the servers, one by one, to the Known Video Servers list.
- 3. Click **Export List** and save the .LSL file to a shared location.

Direct all users to that file. This file gives them the latest server information every time they log in without having to manage hundreds of clients. The administrator has just one file to manage by adding or removing servers at any time without interfering with daily business functions.

This option may also be used with an Active Directory or LDAP configuration using the Windows Login Mode checkbox.

You can also bypass the Login pop-up with or without Server Security being on by setting the Auto Login option:

- 1. Start Monitor Station.
- 2. Navigate to Tools and then Options.
- 3. Click the Startup tab.
- 4. Check the box for Enable Auto Login.
- a. If Server Security is off credentials are not needed
- b. If Server Security is on you must provide valid credentials.

Active Directory

Active Directory is a Microsoft Windows Server network directory service that spans the organization. It is used to manage users, groups and their access to applications and file systems. Monitor Station and Web Client integrate with Active Directory to simplify credential management. Users can use their domain user name and password to login to Monitor Station and Web Client. Consult your Microsoft documentation for more information on Active Directory.

Note

When multiple IP Servers are installed and Active Directory configuration is being considered we recommend using a shared database install to avoid importing users and groups multiple times to each database.

Prerequisites

- 1. Active Directory server with users and groups configured.
- 2. Active Directory can be configured using a local database for each server or using a shared database environment.
- 3. Administrator user account with administrator-level credentials in both the domain and on the Active Directory server (do not use an individual account).
- 4. The IP Server host is part of the domain.
- 5. IP Server must be able to communicate with all domain controllers via port 389 or 636. Port 389 cannot be changed. Port 636 is used for SSL encryption.
- 6. IP Server configuration must be done while logged into the domain with a valid domain account. This is required by Windows for security reasons.
- We recommend importing users as a group instead of individually. The group must be created in Active Directory before it can be imported. You can create groups to suit your needs and policies.

To configure the IP Video Enterprise service to run as an Active Directory account:

- 1. Click the Start button.
- 2. Enter *services.msc* and then press Enter.

- 3. Locate the IP Video Enterprise service.
- 4. Right-click and select Stop.
- 5. Right-click and select Properties.
- 6. Select the Log On tab.
- 7. Select the second option for the account.
- 8. Provide an Active Directory account with minimal rights. A basic domain user account should be sufficient.
- 9. Click the General tab and then select Start.
- 10. Click OK.
- 11. Restart the IIS Admin service if using Web Client.

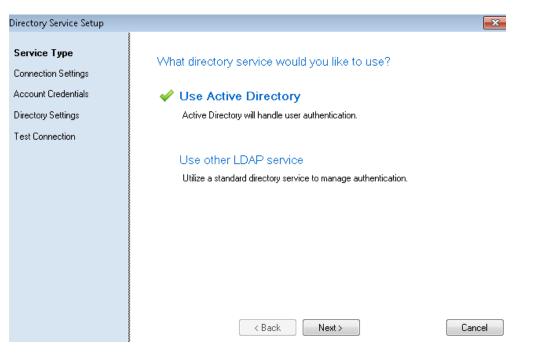
Configuring Active Directory

- 1. Access the IP Server computer.
- 2. Right-click the IPSM icon in the System Tray.
- 3. Select Server Configuration.

4. Click **Network Options**.

🔚 Network Options		×
Multi-Network Card Support Select Network Card 10.10.1.175	Connection Port	4011 🗄
Directory Support Directory support is not configured for	this server.	Configure
	OK	Cancel

5. Click Configure.



- 6. Click Use Active Directory.
- 7. Click **Next**.

Directory Service Setup	×
Service Type Connection Settings	Connect to your directory service
Account Credentials	Directory server
Directory Settings	vicorp.videoinsight.net
Test Connection	Enter the fully qualified DNS name or IP address of the directory server
	Use SSL
	Check this option if your directory service requires clients to connect over SSL (port 636)
	<pre></pre>

The domain name automatically populates the Directory server field. If it is blank, check if the prerequisites have been met.

- 8. Confirm the domain name.
- 9. Check the box for Use SSL if using SSL for Active Directory configuration.
- 10. Click Next.

Directory Service Setup	×	
Service Type Connection Settings Account Credentials Directory Settings Test Connection	Account Credentials Specify the account that the system will use to communicate with the directory service. Enter account name: vicorp\swilliams Enter password: ************************************	-
	< Back Next > Cancel	

- 11. Enter the administrator account name and password.
- 12. Click Next.

Directory Service Setup		x
Service Type Connection Settings	Configure directory service settings	
Account Credentials	Base Distinguished Name (Base DN)	
Directory Settings	DC=vicorp,DC=videoinsight,DC=net	
Test Connection	This should be the directory service's root container. Directory searches will start here.	
	Request timeout 30 Directory requests will time out after the specified number of seconds have elapsed. Limit search results 1000	
	Limits the number of users or groups returned from a single search.	

The Base Distinguished Name automatically populates the Base (DN) field. If it is blank, check if the prerequisites have been met. If they have, the Base DN should be the top (root) folder to allow for adding of any user from any group.

If the Base DN is extremely long it could mean the user has access restrictions. This could limit the number of users they will be able to add.

Request timeout: This value reflects the setting on the Active Directory server, and cannot be changed here. Any requests made to the Active Directory server that exceed that time will timeout.

Limit search results: This value reflects the setting on the Active Directory server. This is the maximum number of results returned from the Active Directory server.

13. Click Next.

Directory Service Setup			—X —
Service Type Connection Settings Account Credentials Directory Settings Test Connection	Test the directory The following setting Directory server: Port: Account:	v connection is will be used to connect to the directory vicorp.videoinsight.net 389 vicorp\swilliams	service:
	ſ	Connection established!	Test Connection Cancel

14. Click **Test Connection**.

IP Server Manager	×
Connection established!	
ОК	

15. Click **OK** to dismiss the "Connection established!" message. If the test connection fails, review steps 1-14.

16. Click **Apply**.

🔚 Network Options	
Multi-Network Card Support	Connection Port
Directory Support Server: vicorp.videoinsight.ne Credentials: vicorp\swilliams Authorized Users	et 🕢 Modify settings
and Groups 😪 Give use	rs or groups access to the system
	OK Cancel

IP Server and Active Directory are now integrated. You will need to add users and groups before users can log in to Monitor Station.

Adding users or groups

To add Active Directory users and groups:

1. On the Network Options screen click Give users or groups access to the system.

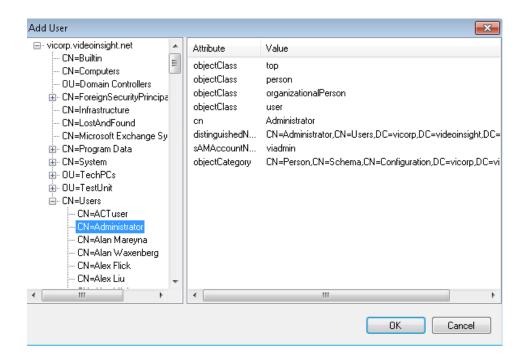
🐏 User Assignment	—
Users Groups	
Use the list below to det to the system. Assigned users for this system:	ermine which user accounts have access
User Name	Domain
Properties	Add Remove
	OK Cancel Apply

2. Click Add.

Assign User	×
Type the user name system.	of a user to give them permission to access the
User name:	
Domain:	vicorp.videoinsight.net
	Browse
	OK Cancel

Assign Group		— ×
Enter the name of a g that group will have a	group listed in the directory service. access the system.	Members of
Group name:		
Domain:	vicorp.videoinsight.net	
		Browse
	ОК	Cancel

3. Enter the user or group name exactly as it appears in Active Directory and then click **OK**.



- 17. Click **Browse** to select a user or group from the list.
- 18. Select the user or group and then click **OK**.
- 19. Click **OK** again.

🐏 User Assignment	x
Users Groups	
Use the list below to to the system. Assigned users for this system	o determine which user accounts have access
User Name	Domain
swilliams jhussey ajung	vicorp.videoinsight.net vicorp.videoinsight.net vicorp.videoinsight.net
•	4
Properties	Add Remove
	OK Cancel Apply

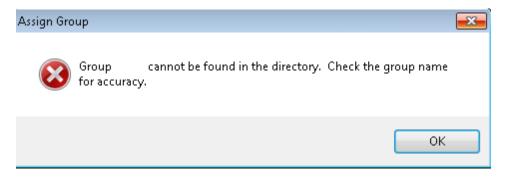
💷 User Assignment	×
Users Groups	
Use the list below to de system. Assigned groups for this system:	etermine which groups have access the
Group Name	Domain
qa Camera Integration Distribution	vicorp. videoinsight. net vicorp. videoinsight. net vicorp. videoinsight. net
•	۰ () () () () () () () () () (
	Add Remove
	OK Cancel Apply

1. Click **Apply** and then click **OK**.

2. See Monitor Station <u>User Manager</u> for more information on how to import these users and groups.

See Login for more information on how to login.

Entering an invalid user or group name displays an error message as shown in Figure below.



Removing users or groups

To remove Active Directory users and groups:

🔚 Network Options	×
Multi-Network Card Support Select Network Card 10.10.1.201	Connection Port Communication Port 4011
Directory Support	
Server: vicorp.videoinsigh	it.net 🖾 Modify settings
Credentials: vicorp\swilliams	
Authorized Users and Groups 🛛 🔍 Give (users or groups access to the system
User Permissions 🤯 View	effective permissions
	OK Cancel

1. On the Network Options screen click Give users or groups access to the system.

🛄 User Assignment	×
Users Groups	
Use the list below to determ to the system. Assigned users for this system:	ine which user accounts have access
User Name	Domain
ajung	vicorp.videoinsight.net
jhussey	vicorp.videoinsight.net
swilliams	vicorp.videoinsight.net
bgreenway	vicorp.videoinsight.net
cgarcia	vicorp.videoinsight.net
dgraeber	vicorp.videoinsight.net
atran	vicorp.videoinsight.net
•	4
Properties	Add Remove
	OK Cancel Apply

- 2. Select the user or users to remove and then click **Remove**.
- 3. Click **Apply**.
- 4. Click **OK**.

Viewing user permissions

IP Server and Active Directory are highly integrated. You can view the same user permissions using both.

You can view user permissions in several places: Network Options, Add User and Monitor Station <u>User</u> <u>Manager</u>.

🐏 Network Options			×
Multi-Network Card Sup Select Network Card 10.10.1.201		ction Port munication Port	4011
	orp.videoinsight.net orp\swilliams	🕎 Mod	ify settings
Authorized Users and Groups	🕵 Give users or gr		he system
User Permissions	View effective p		Cancel

1. On the Network Options screen click the View effective permissions.

User Permissions		Ð
ser Name View		
aroup Membership Effective Permissions		
Group	Туре	
	Ck	

2. Enter the user name and then click **View**.

ser Name hitcomb	
iroup Membership Effective Permissions	
Group	Туре
Administrators	Active Directory
Authenticated Users	Active Directory
Blackboard	Active Directory
Build	Active Directory
DEV	Active Directory
Development	Active Directory
Domain Admins	Active Directory
Domain Users	Active Directory
Everyone	Active Directory
HelpDeskIT	Active Directory
operations	Active Directory
Release	Active Directory
Remote Desktop Users	Active Directory
Testina	Active Directory
•	+

The Group Membership tab displays all Active Directory groups the user belongs to. You cannot make any changes on this tab.

The Effective Permissions tab displays all IP Server items the user has access to. You cannot make any changes on this tab. See <u>User Manager</u> for more information on modifying user permissions in Monitor Station.

oup Membership Effective Permissions			
Name	Туре	Source	
10.10.1.159 - Axis - Model: 225FD	Camera	User	
10.10.1.153 - Acti - Model: KCM7211	Camera	User	
10.10.1.148 - Axis - Model:	Camera	User	
10.10.1.161 - IP Camera/Encoder: NVE100	Camera	User	
10.10.1.158	Camera	User	
10.10.5.253 axis 225fd	Camera	User	
10.10.5.146 Vivo ip7142	Camera	User	
10.10.1.245 - Axis - Model: P3343	Camera	User	
10.10.1.136 - IQEye - Model: IQ042S	Camera	User	
Facility Map	Facility Map	User	
one	Layout	User	
one	Layout	User	

Name: Lists the object names the user has access to.

Type: Lists the object type the user has access to.

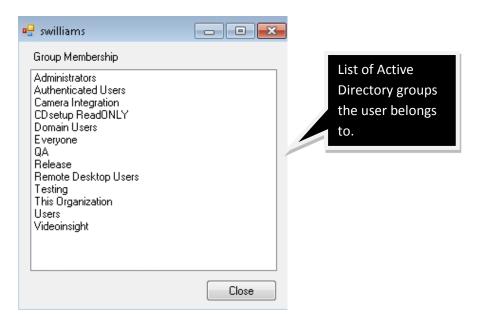
Source: Lists the source of the permission; in this example, the user was created individually and granted permissions exclusively, not as part of a group.

To view permissions from the User Assignment screen:

1. On the Network Options screen click Give users or groups access to the system.

User Assignment	
sers Groups	
Use the list below to to the system.	determine which user accounts have access
User Name	Domain
ajung bgreenway jhussey swilliams	vicorp. videoinsight.net vicorp. videoinsight.net vicorp. videoinsight.net vicorp. videoinsight.net
<	
Properties	Add Remove
	OK Cancel Apply

2. Select a user name and then click **Properties**.



3. The Group Membership screen displays a list of Active Directory groups the user belongs to. Click **Close**.

LDAP (Lightweight Directory Access Protocol)

LDAP is the information technology standard way of accessing a directory service over a TCP/IP network. Active Directory is Microsoft's directory service. Some other directory services are Novell eDirectory and OpenLDAP. Directory services store, organize and provide access to information in a directory containing information about users, computers and permissions.

LDAP uses Distinguished Name (DN) as the syntax to identify objects in the directory. The DN is composed of four discrete name parts:

- CN Common Name For example, Jane Doe
- OU Organizational Unit For example, Sales
- DC Domain component For example, mydomain
- Domain component For example, net

The DN reads from left to right, from the most specific part of the node to the least specific node on the right. The root of the DN is actually the last two parts (for example, mydomain.net).

See <u>Active Directory</u> for more information on managing users using LDAP. The process to manage users in both systems is the same.

CheckSum

The checksum logic incorporated into Video Insight software prevents modification to recordings that can be made using other software. This feature guarantees the authenticity of the recording and ensures the delivered recording has not been tampered with. This is important when using recordings as evidence in legal proceedings. Video Insight uses MD5 checksum logic.

Enabling this feature is processor intensive because the server decompresses and recompresses each image to interlace the watermark. You can interlace the watermark into clips or full recordings. The watermark is invisible to the naked eye and can only be verified using our Standalone Player utility.

Enabling CheckSum Watermark

- 1. Start Monitor Station.
- 2. Select a camera from the left navigation tree.
- 3. Right-click the camera node and select Properties.
- 4. Click the Record tab.

5. Click the Advanced tab.

eneral Record Advanced Motion Settings Video	Settings Optional	Controls Privacy Zone Contact Information
Resolution Use Camera Setting 🔹	Capture Quality	Use Camera Setting 👻
Record 10 🚔 Per Second 🔻	Recording Type	Motion Only 🔹
Audio 📃 Live 🔲 Record Audio		Record Always at 1FPS and increase to specified FPS on motion
	Capture Format	MPEG4 (RTSP)
Advanced Recording Options		Motion Buffers
Calculate Motion Detection when Recording Alway alamr log. This may increase CPU utilization.	vs to populate	Motion Buffers are only used when recording on motion only.
Insert Watermark on all raw video files at capture. insert Watermaks when creating clips and increase	This is not required as CPU utilization.	to Pre Motion 🛛 🚔 Seconds
Transcoding Options When capturing MJPEG, images can be compress size but is processor intensive.	ed to reduce the file	Post Motion 2 🔄 Seconds
Enable Transcoding		
Transcoding Quality Use Camera Setting	•	Camera ID 1481401551

- 6. Check the box to Insert Watermark on all raw video files at capture.
- 7. Click **Apply** and then click **OK**.

You can verify a video has not been tempered with by using the Standalone Player utility provided in the full DVD download for your operating system type.

Verifying a CheckSum Watermark

1. Start the Standalone Player utility (also called Video Insight Standalone Media Player).



- 2. Click the File menu and then select Open to navigate to the file that needs verification.
- 3. Select the file and then click **Open**.



4. Click the File menu and then select Check Water Mark.

5. The player will check the file and if the video is watermarked and has not been tampered with, it will display a verification message. Click **OK**.



6. The player displays a different message if the file does not have a watermark or has been tampered with.



System Log

Reviewing the System Log is a good way to identify user actions, server and camera messages as well as obtain any error logs which can aid in troubleshooting.

You can access the System Log from several areas of the application, but the functionality and available actions are the same.

1. Start the System Log.

🚽 🤤 IP Server -10.10.	5.100 • System Log • 🛛 👬 Find	12/31/2011 💌
Time	Message	Source
12/29/2011 11:20:49 AM	Administrator has logged in at 11:20 AM - 12/29/2011	CommandChannel.GetServerClass
12/29/2011 9:57:26 AM	Administrator has logged in at 9:57 AM - 12/29/2011	CommandChannel.GetServerClass
12/28/2011 3:31:18 PM	10.10.5.201 - Axis - Model: P3301 (10.10.5.201) is down	GeneralTimerClass.CheckStreamsSt
12/28/2011 3:29:48 PM	10.10.5.204 - Axis - Model: P3301 (10.10.5.204) is down	GeneralTimerClass.CheckStreamsSt
12/28/2011 3:29:38 PM	10.10.5.200 - Axis - Model: P3301 (10.10.5.200) is down	GeneralTimerClass.CheckStreamsSt
12/28/2011 12:34:17 PM	Administrator has logged in at 12:34 PM - 12/28/2011	CommandChannel.GetServerClass
12/28/2011 11:23:39 AM	Administrator has logged in at 11:23 AM - 12/28/2011	CommandChannel.GetServerClass
12/28/2011 9:59:46 AM	Administrator has logged in at 9:59 AM - 12/28/2011	CommandChannel.GetServerClass
12/28/2011 9:59:42 AM	Administrator has logged in at 9:59 AM - 12/28/2011	CommandChannel.GetServerClass
12/28/2011 8:35:39 AM	Administrator has logged in at 8:35 AM - 12/28/2011	CommandChannel.GetServerClass
12/27/2011 2:27:47 PM	Video Server started at 2:27 PM - 12/27/2011	Initialization
12/27/2011 2:27:45 PM	Warning: Server has started in Demo mode.	Initialization
12/27/2011 2:20:34 PM	Administrator has logged in at 2:20 PM - 12/27/2011	CommandChannel.GetServerClass
12/27/2011 2:12:37 PM	Administrator has logged in at 2:12 PM - 12/27/2011	CommandChannel.GetServerClass
12/27/2011 1:27:07 PM	Administrator has logged in at 1:27 PM - 12/27/2011	CommandChannel.GetServerClass
12/27/2011 12:15:29 PM	Administrator The servers properties were updated 12:15 PM - 12/27/	CommandChannel.UpdateServer
12/27/2011 11:36:57 AM	Administrator has logged in at 11:36 AM - 12/27/2011	CommandChannel.GetServerClass

Note

The number of pages available and saved in the database depends on the System Log setting. You can change this setting on the Advanced Tab of Server Properties. The default is 30 days and the maximum is 1000 days.

= The Save icon exports the System Log. Clicking it displays three options:

💽 System Log Report 🛛 🔀
Select the type of report that you would like to create. Then press OK to continue.
Report Type
C Printer
• File
C Clipboard
OK Cancel

= The Refresh icon refreshes the System Log.

IP Server -10.10.5.100 = This drop-down menu selects the server. All servers added to Monitor Station with a status of Connected display here. However, if you are using the <u>IPSM Diagnostics</u> System Log all servers in a shared database will appear, regardless of their connection status.

System Log • = This drop-down menu selects the type of log to view. System Log is the default.

He field next to this icon allows you to search for a specific string.

12/31/2011 \blacksquare = The calendar control selects the "through" date of the logs. For example, when 12/31/2011 is selected all logs available up to and including 12/31/2011 display.

System Log Entry			
Message	Source	Explanation	Resolution
Warning: Server has started in Demo mode.	Initialization	A reminder that this server is in Demo mode	Upgrade to a fully licensed version to avoid this message
Video Server started at 2:45 PM - 12/22/2011	Initialization	Message will appear each time the server is started whether manually or using Auto Restart	Informational message
Administrator has logged in at 2:45 PM - 12/22/2011	CommandChannel.Ge tServerClass	User logged in to Monitor Station	Informational message
Administrator The servers properties were updated 12:15 PM - 12/27/2011	CommandChannel.Up dateServer	Administrator happens to be the user (security is likely off) that updated server properties	Informational message
ErrCode: 0 -Fail to write file: c:\video\127.0.0.1- 1963630245\12.31.2011\18h17m 14s.avi	(10:0:8)	Camera failed to write to path listed	Check permissions: could be due to an invalid path, the folder may have been moved or rights to write to that folder have changed
Cannot delete folder:(c:\video\127.0.0.1- 1794956641\12.22.2011)	GeneralTimer.CleanDr ive()	Deletion routine is unable to delete the folder	If one of the files is currently being viewed or is locked for another reason the folder cannot be deleted. The server deletion routine will now revert to deleting one file at a time in this folder instead

Video Server Task: DIO-Alarm Log	Task Manager	This entry is due to a rule that was just triggered	Informational message
10.10.5.151 - Axis - Model: P3301 (10.10.5.151) is down	General Timer Class. Ch eck Streams Status	Camera streaming is down	The server will continue to attempt to restore connection.
Could not find a part of the path 'c:\video\10.10.5.148- 453894083'.	System.IOError.Wi nIOError(20:0:1)	Unable to find write path	Check the path and that the camera is indeed still added to the server with that Camera Unique ID
Restart Request	CommandChannel.Re moveCamera	A client has requested a server restart	The next time the IPSM is running it will process the request automatically
Video Server was shut down at 2:58 PM - 12/22/2011	Board.Close	The server was properly shutdown	Each time a server is stopped either manually or using Diagnostics this informational message will appear.
10.10.5.212 - Hikvision - Model: Universal (10.10.5.212) is restored	GeneralTimerClass.Ch eckStreamsStatus	Camera connectivity is restored	The server was able to resume connection.
Object reference not set to an instance of an object.	Videoinsight.LIB.Acces sControl_BlackBoard. CheckForNewEvents(200:0:45)	Access Control Blackboard is configured for specific cameras and constantly checks for new alarms. The camera can no longer be found, it was removed from the server.	Change the camera in Blackboard or re- add the original camera to the server.
No Security granted user JWhitcomb permission to map Facility Map (ID:1073740123)	CommandChannel.Us erUpdate	Security was off on this server when the JWhitcomb user was	Informational message

10:57 AM - 12/31/2011		granted access to a Facility Map	
vicorp.videoinsight.net\swilliams has logged in at 6:39 PM - 12/31/2011	CommandChannel.Ge tServerClass	A user logged in with Active Directory or LDAP and security was on	Informational message
vicorp.videoinsight.net\swilliams updated camera properties at 12/31/2011 2:29:22 PM : Camera login,	CommandChannel.Up dateCamera	Specific LDAP or Active Directory user made changes to a camera	Informational message
vicorp.videoinsight.net\swilliams [GetUserGroupMembership]	LDAP Authentication	Prior to actually logging an Active Directory/LDAP user login in the server authenticates the user against Active Directory/LDAP	Informational message
Access to the path 'C:\Program Files\VI Enterprise\Enterprise Service\app\mycamera.bin' is denied.	System.IOError.Wi nIOError(9:0:1)	The action performed at this time did not have the right access to write to that folder	Check the user logged in, they should have local admin rights
Login successful for User ID administrator User Address : ::1	WebClient	With security enabled Web Client users logins are also captured	Informational message
A New Camera was added at 12:41 PM - 12/2/2011	CommandChannel.Ad dNewCamera	User added a new camera to this server	Informational message

Alarm Log

The Alarm Log is a list of all motion events for all cameras set to <u>Motion-only</u> recording or Record Always with the <u>Calculate Motion Detection When Recording Always</u> option selected on the Record tab.

- 1. Start the System Log.
- 2. Click the View menu and then select Alarm Log.

File Edit View				
🚽 🔄 IP Server -10.10.	1.201 •	Alarm Log 🔻	A Find 12/31/2011	
Time	Camera Name	Duration	Description	
12/31/2011 8:23:35 PM	10.10.1.153 - Acti - Model:	121s	Motion is detected on a specific camera	
12/31/2011 8:21:34 PM	10.10.1.153 - Acti - Model:	121s	Motion is detected on a specific camera	1
12/31/2011 8:19:32 PM	10.10.1.153 - Acti - Model:	121s	Motion is detected on a specific camera	
12/31/2011 8:17:31 PM	10.10.1.153 - Acti - Model:	121s	Motion is detected on a specific camera	
12/31/2011 8:15:30 PM	10.10.1.153 - Acti - Model:	120s	Motion is detected on a specific camera	
12/31/2011 8:12:07 PM	10.10.1.153 - Acti - Model:	121s	Motion is detected on a specific camera	
12/31/2011 8:10:05 PM	10.10.1.153 - Acti - Model:	122s	Motion is detected on a specific camera	1
12/31/2011 8:08:04 PM	10.10.1.153 - Acti - Model:	120s	Motion is detected on a specific camera	
12/31/2011 8:06:02 PM	10.10.1.153 - Acti - Model:	122s	Motion is detected on a specific camera	
12/31/2011 8:04:01 PM	10.10.1.153 - Acti - Model:	121s	Motion is detected on a specific camera	
12/31/2011 8:02:00 PM	10.10.1.153 - Acti - Model:	121s	Motion is detected on a specific camera	
12/31/2011 7:59:59 PM	10.10.1.153 - Acti - Model:	120s	Motion is detected on a specific camera	
12/31/2011 7:57:53 PM	10.10.1.153 - Acti - Model:	123s	Motion is detected on a specific camera	
12/31/2011 7:55:51 PM	10.10.1.153 - Acti - Model:	122s	Motion is detected on a specific camera	
12/31/2011 7:53:47 PM	10.10.1.153 - Acti - Model:	124s	Motion is detected on a specific camera	
12/31/2011 7:51:46 PM	10.10.1.153 - Acti - Model:	121s	Motion is detected on a specific camera	
12/31/2011 7:49:44 PM	10.10.1.153 - Acti - Model:	122s	Motion is detected on a specific camera	
12/31/2011 7:47:43 PM	10.10.1.153 - Acti - Model:	121s	Motion is detected on a specific camera	1

Please Note: The number of pages available and saved in the DB depends on the Alarm Log setting in Server properties, Advanced tab, discussed on page 39; the default is 30 days and the maximum is 1000 days.

The camera name and event duration displays for all motion events. You have several options on this screen.

= The Save icon exports the Alarm Log. Clicking it displays three options:

💽 System Log Report 🛛 🛛 🔀
Select the type of report that you would like to create. Then press OK to continue.
Report Type
C Printer
● File
C Clipboard
OK Cancel

🔄 = The Refresh icon refreshes the Alarm Log.

IP Server -10.10.5.100 = This drop-down menu selects the server. All servers added to Monitor Station with a status of connected display here. However, if you are using the <u>Diagnostics</u> System Log all servers in a shared database will appear, regardless of their connection status.

System Log • = This drop-down menu selects the type of log to view. System Log is the default.

Barch functionality is disabled in this view.

12/31/2011 \blacksquare = The calendar control selects the "through" date of the logs. For example, when 12/31/2011 is selected all logs available up to and including 12/31/2011 display.

Cameras

IP Server supports over 2300 cameras. Video Insight adds support for new cameras as part of its ongoing development process.

Adding cameras

Note

You can also access Server Properties by right-clicking the server name in the left navigation tree and selecting Properties and then Cameras.

You can add cameras during or after an install or upgrade.

- 1. Start Monitor Station.
- 2. Enter the user name and password if Security is enabled or click **OK** to login.
- 3. From the main dashboard navigate to Administration and then Setup and Configuration.
- 4. Select your server from the left navigation tree.
- 5. Click the Camera tab.

Automatically

This wizard searches your current network segment for online IP cameras. When it detects one it examines the MAC address to determine the manufacturer. It then accesses the camera using the user name and password. If the camera responds successfully, the software obtains the camera model.

On the Cameras tab click Auto Discovery. The figure below shows a sample result.

Manually

On the Cameras tab click Manual Add.

Camera Name: Enter the camera name or IP address. The default is Camera Name.

Note

For PTZ capable cameras a "Disable PTZ" checkbox will also appear. Check it if you need to disable PTZ for users. Disabling PTZ also disables PTZ Presets.

Time Stamp: Use this option to stamp all recorded video with the server time. If you select "Burn Time Stamp on Video" and the camera does not support this feature, the server will do it; however, this uses additional CPU which can affect overall performance.

Manufacturer and Model: Choose the manufacturer and model of the camera here. The software supports a wide variety of camera models from major camera manufacturers. Every camera has its own mechanism for communicating with the server. Selecting the correct model informs the system with specific information about the camera such as communication method, DIO support, compression type and whether it supports audio. If your camera model is not found, try the ONVIF universal protocol offered on most cameras.

IP Address: Enter the camera's IP address or domain name. If entering a domain name, do not include http:// or www.

Camera Credentials: Enter the camera's user name and password. Some manufacturers require credentials to view live images and others only when modifying camera settings. Video Insight recommends entering credentials when security is enabled on the camera for proper integration and to configure certain features on the camera such as side motion detection or camera flip.

Shared IP Address: This checkbox should be used with cameras such as those from Arecont. Arecont is a four lens camera available in 180- or 360-degree views that use only one license. Adding it to the system requires entering the camera information four times, selecting a different channel number (1-4) each time. If you are adding a single lens camera leave this box unchecked.

Alternate Ports: If you are adding a camera or encoder that reports to a port other than the standard port of 80, change it under this section. Check the box for Alternate Ports and enter the proper port or ports.

Web Access: The Web Access link becomes active after you add the camera's information. Click it to verify camera connectivity. Camera manufacturers use different interfaces and setup functionality at the camera level. Clicking the link displays an image of the camera. If no image displays, the most likely reason is an incorrect IP address or credentials.

Removing cameras

Note

Cameras are never truly deleted; they become unassigned. To add a deleted camera to another server sharing the same database click **Load** to view Unassigned Cameras.

To remove a camera:

- 1. Start Monitor Station.
- 2. Enter the user name and password if Security is enabled or click **OK** to login.
- 3. From the main dashboard navigate to Administration and then Setup and Configuration.
- 4. Select your server from the left navigation tree.
- 5. Click the Camera tab.
- 6. Double-click the camera to be removed from the Cameras to be Monitored pane. The camera now displays in the Unassigned Cameras pane.
- 7. Click **Apply** and then **OK**.

Modifying camera details

You may need to modify or tweak camera details after installation or as the environment changes. You may also need to apply new camera firmware. To modify camera details:

- 1. Navigate to Administration and then Setup and Configuration.
- 2. Expand the All Servers node from the left navigation tree.

All Servers	General Record Advanced Motion Settings Video Set	tings Optional Controls Privacy Zone Maintenance
- 10.10.1.175	Camera Name 10.10.1.238 - Axis - Model:	Camera Information
- 🧰 10.10.1.151 - ON	2.11 - 2*00*2.2502	Manufacturer Axis
- 🧰 10.10.1.76 - IP C		
		Model Axis MJPEG Camera
10.10.1.138 · 102		IP Address 10.10.1.238
10.10.1.148 - Axi	in m	
		User Name root
- 🤖 10.10.1.173 - ON		Password ***
🤖 10.10.1.152 - Axi		1 033/010
- 🙆 10.10.1.166 - IQE		Shared IP Address
		Camera Number
10.10.1.158 - Act		,
		Alternate Ports
🧰 10.10.1.153 - Act		HTTP 80 FTP 21
🤖 10.10.1.29 - ONV	Display Options	RTSP 554
- 🧰 kom	Time Stamp Burn time stamp in video	
💼 Gym - South Side 💼 stardot demo		
Gym - South Side		Web Access: http://10.10.1.238:80
	1	

Each tab is explained in detail below.

General tab

General Record Advanced Motion Settings Video Se	ettings Optional Controls Privacy Zone Maintenance
Camera Name 10.10.1.238 - Axis - Model:	Camera Information
2.11- 2-0018.20164	Manufacturer Axis
	Model Axis MJPEG Camera
	IP Address 10.10.1.238
	User Name root
	Password ***
	Shared IP Address
	Camera Number 🔋 😁
	Alternate Ports
	HTTP 80 😴 FTP 21 😴
Display Options	RTSP 554 🚔
Time Stamp Burn time stamp in video 🔽	
	Web Access: <u>http://10.10.1.238:80</u>

Camera Name: Enter the camera name or IP address. The default is Camera Name.

NOTE: For PTZ capable cameras a 'Disable PTZ' checkbox will also appear, check it if you'd like to disable PTZ for users. Disabling PTZ will also disable Presets.

Time Stamp: Use this option to stamp all recorded video with the server time. If you select "Burn Time Stamp on Video" and the camera does not support this feature, the server will do it; however, this uses additional CPU which can affect overall performance.

Manufacturer and Model: Choose the manufacturer and model of the camera here. The software supports a wide variety of camera models from major camera manufacturers. Every camera has its own mechanism for communicating with the server. Selecting the correct model informs the system with specific information about the camera such as communication method, DIO support, compression type and whether it supports audio. If your camera model is not found, try the ONVIF universal protocol offered on most cameras.

IP Address: Enter the camera's IP address or domain name. If entering a domain name, do not include http:// or www.

Camera Credentials: Enter the camera's user name and password. Some manufacturers require credentials to view live images and others only when modifying camera settings. Video Insight recommends entering credentials when security is enabled on the camera for proper integration and to configure certain features on the camera such as side motion detection or camera flip.

Shared IP Address: This checkbox should be used with cameras such as those from Arecont. Arecont is a four lens camera available in 180- or 360-degree views that use only one license. Adding it to the system requires entering the camera information four times, selecting a different channel number (1-4) each time. If you are adding a single lens camera leave this box unchecked.

Alternate Ports: If you are adding a camera or encoder that reports to a port other than the standard port of 80, change it here. Check the box for Alternate Ports enter the proper port or ports.

Web Access: The Web Access link becomes active after you add the camera's information. Click it to verify camera connectivity. Camera manufacturers use different interfaces and setup functionality at the camera level. Clicking the link displays an image of the camera. If no image displays, the most likely reason is an incorrect IP address or credentials.

Record tab

General Record Advanced Motion Settings Video Settings Optional Con	trols Privacy Zone Maintenance
Resolution Use Camera Setting 🔽 Capture Quality Us	e Camera Setting
Record 10 😴 Per Second 💌 Recording Type Mo	otion Only
	Record Always at 1FPS and increase to specified FPS on motion
Capture Format MJ	IPG 💌
Advanced Recording Options Calculate Motion Detection when Recording Always to populate alamr log. This may increase CPU utilization. Insert Watermark on all raw video files at capture. This is not required to insert Watermarks when creating clips and increases CPU utilization. Transcoding Options When capturing MJPEG, images can be compressed to reduce the file size but is processor intensive.	Motion Buffers Motion Buffers are only used when recording on motion only. Pre Motion 0 Seconds Post Motion 2 Seconds
Enable Transcoding Transcoding Quality Use Camera Setting	Camera ID 40996983

Resolution: Most cameras can support multiple resolutions. You can change camera resolution using the Web Access link. You can also change camera resolution without going to the camera itself. Unfortunately, camera manufacturers have different ways of expressing resolutions. For example, Axis expresses resolution in CIF, 2 CIF, 4 CIF and D1 whereas ACTi expresses resolution in more common terms such as 1280 x 1024 and 640 x 480. Resolution settings in this option are more generic and are mapped to the appropriate resolution based on the camera. You can select from Lowest to Highest, as well as the default setting of Use Camera Setting. Video Insight recommends using the highest setting for high resolution cameras. You cannot change the resolution if this option is not available.

Record and Per: The software can capture images at between 1 and 30 frames per second (FPS). The higher the FPS, the more fluid motion will be. A higher FPS setting requires more storage. Adjusting FPS settings per camera optimizes storage space. These values do not represent what the camera is producing, but what the server is willing to accept. Available bandwidth and camera performance may result in a FPS lower than what is set, but never higher. "Frames Per" defaults to seconds, but you can also choose Minute, Hour or Day. This is useful in time lapse situations.

Capture Quality: If the camera allows it, this setting modifies its capture quality. Settings range from Lowest to Highest. You can also select Use Camera Setting, which defaults to the camera's native setting. The higher the quality the image, the larger the image size. If the camera does not have settings for quality, this option is unavailable.

Note

Audio options will appear if the camera supports audio. Enable Audio – Capture live and listen using Monitor Station. Record Audio – Capture Live and Record with Video. Note that Enable Audio must be set in order Record Audio.

Recording Type: There are four recording type options. The default is Motion-only.

Record Off: Images are not recorded but live images are still available. If the camera offers live audio, it is also available if selected.

Record Always: Images are recorded 24 hours a day, seven days a week. This setting consumes a lot of storage. See <u>Storage Consideration</u> for more information on storage consumption.

Motion-only: Images are only recorded when motion is detected. Motion sensitivity depends on motion zones, camera environment and sensitivity settings. Camera Pre and Post settings are also taken into account. See the <u>Motion Settings tab</u> for more information on motion settings.

Schedule: Images are recorded per a defined schedule. This setting is useful in reducing storage consumption when combined with Record Always. Selecting Schedule displays a Config button next to Recording Type. To setup a Scheduled Recording Type:

1. Click **Config**.

amera schedule				X
Scheduled recordings are dor Then add the scheduled times				
Schedule(s) for record always				
Name			Туре	
	Modify	Delete	Add	
Schedule(s) for record motion				
Name			Туре	7
	Modify	Delete	Add	1
	modily	Delete		
		OK	Cancel	٦

The process to add a schedule to record always and record motion is the same. Record motion takes into account the Pre- and Post-motion settings of the camera.

Click Ad	d.
Rules Wizard - Sch	edule
General Information -	
Name: New So	chedule
Type Weekly	· ·
Weekly Scheduled D	ays
🗖 Monday	🗖 Thursday 🗖 Sunday
🗖 Tuesday	🗖 Friday
🗖 Wednesday	🗖 Saturday
Scheduled Time	
Start:	1:00:00 PM
End:	2:00:00 PM
	OK Cancel

2. Enter a schedule name.

3. Select the occurrence type.

a. **Weekly**- The camera will record weekly on the days selected. Holidays are not taken into account.

b. **One Time**- The camera will record one time on a scheduled day with beginning and ending at specified times. Should the rule not be able to run due to Server or Network problems, the rule will NOT execute.

c. **Daily**- The camera will record on a selected day, week day or weekend day. Holidays are not taken into account and the rule will execute as usual.

d. **Monthly**- The camera will record monthly on a specific date or dates. You can also combine a day with its recurrence, such as the fourth Friday of every month.

4. Enter the start and end time.

You can setup more than one schedule and type for each camera. In effect, the software is actually setting up a rule in Rules Manager. See <u>Rules Manager</u> for more information on setting up rules.

Capture Format: This option sets the format the camera uses to stream video from it to the server. Cameras vary in the formats they offer, as well as the number of streams allowed per format type.

Note

Drop-down lists, as well as their values, on the Record tab will change depending on the camera type selected due to the available capabilities of that camera.

MJPG: MJPG format creates the largest file sizes due to the raw images received from the camera. If your camera only supports this format you may want to consider Transcoding for more efficient storage utilization; however, Transcoding is CPU intensive. See <u>Transcoding</u> for more information on this feature.

MPEG4: MPEG4 format images are slightly more compressed than MJPG format, but still much larger than current formats. MPEG4 absorbed many of the features of MPEG1 and MPEG2 and other related standards as well as AAC standardization for audio compatibility.

H.264: H.264 format is the current standard for streaming images from IP cameras. This format adds video compression used for HDTVs, Blu-Ray and other high quality video. It allows for higher quality with a lower bit rate, lower storage consumption and improved audio capture and playback.

In some cases you may notice a capture format with RTSP appended to it. Where this appears, Video Insight modified the capture format protocol to bridge the gap between the thin support provided by the Software Development Kit (SDK) and our customer's needs. The RTSP class offers tighter integration and avoids some known bugs when using the manufacturer-provided SDK. The RTSP class is not available or needed for all camera models and manufacturers.

Record Always at 1 FPS: This option is best used in conjunction with Motion-only recording. Its purpose is to combine the benefits of Record Always (no missed events) with Motion-only (only events). Recording always at one FPS reduces the storage consumed by Record Always yet still ensures smooth playback by switching to the higher frame rate defined in the Record field.

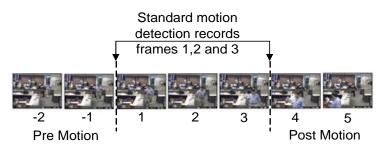
Calculate Motion Detection When Recording Always: Select this option to go with Record Always when you want the server to calculate motion percentages and include them in Timeline view and Media Player as motion events. Doing so increases CPU utilization, but accessing motion events immediately instead of viewing video of non-events may be worthwhile.

Insert Watermark on all raw video files at capture: Select this option to ensure video integrity. The server interlaces all raw images with a checksum that can only be read or verified with Video Insight's CheckSum Utility found in the stand alone Media Player. See <u>Security</u> for more information on watermarking.

Transcoding: Transcoding was created to mitigate large files created by older cameras utilizing only the MJPEG format. Transcoding is a process performed by our server while the images are received and saved into the AVI container or file. MJPG images are received by the server and converted to WMV format while simultaneously compressing the images. This is a CPU-intensive process. Many cameras on one server utilizing Transcoding can greatly affect server performance. Transcoding

quality also determines CPU usage. The higher the transcoded quality the larger the image and thus the file size.

Motion Buffers: Motion Buffers are used when the camera is using Motion-only and ensures the preand post-motion pictures are also captured.



Note MPEG4 Capture Format does not use motion buffers.

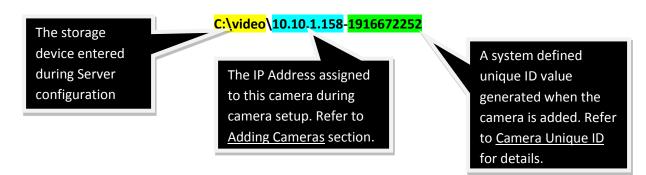
Camera ID: This is for reference only. A unique camera ID is added to each stream to identify it on the server. This ID also correlates to the exact folder where the camera's recordings are saved. Adding the same camera (as opposed to unassigning and reassigning cameras) creates a unique ID for each instance. In the case of a four-stream Arecont camera, adding the same camera IP address four times, once for each stream, creates a different folder of recorded video for each view.

Advanced tab

General Record	Advanced	Motion Settings	Video Settings	Optional Controls	Privacy Zone	Maintenance
Muliple camera: Max D Image	be configure s associated f isk Space [e Location [d for the drive sele to the same drive o 0 🔹 (in GB C:\video\10.10.1. 200 💼 (in MB	ected by the imag will use the same) 158-1916672252	e location. settings.	Camera transmiss Live Maximum 5 📑 Optimize Video O Use serve C Low CPU	sion preferences Refresh Rate Frames per Second Streams

Max Disk Space: This option specifies the maximum amount of disk space each camera can use, in gigabytes. If set to zero, camera recordings will defer to the server disk space minimum before the deletion logic triggers to delete the oldest recordings.

Image Location: Recordings for each camera can be stored in different folders and across multiple hard drives. The recording path is a combination of values entered during server and camera setup, and is specific to the configuration. For example:



Max File Size: Each camera records to a unique file that is limited to 200 MB by default. A new file is created when the limit is reached. Different camera settings will create more or less files as a result. For example, if you have a camera set to 3 FPS with motion activation, the system might only use one file for the entire day. In contrast, the same camera set to record always might result in five 200 MB files for the day. The system creates a new file when the file size reaches the specified size. The system automatically creates a new file for each camera at midnight, regardless of the current recording file size.

Note

The record "time" of the 200 MB files varies depending on several factors: Bit-rate, Quality, Resolution, Compression format and Recording type. As a result, some files may contain only two minutes of video and others two hours of video.

Live Maximum Refresh Rate: This option is used to set live refresh frame rates sent to Monitor Station or Web Client. Using lower FPS saves bandwidth. This camera-level setting overrides the server's settings for this camera.

Optimize Video Streams: This option affects the video streams from the IP Server to Monitor Station and Web Client. There is a tradeoff between bandwidth utilization and CPU utilization.

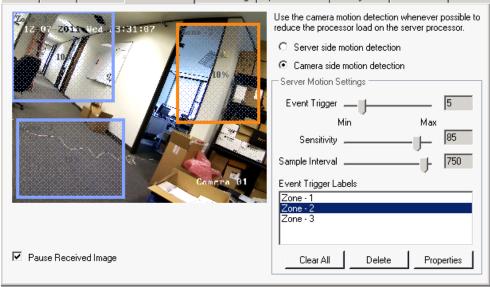
When you optimize for a low bandwidth environment, video compression occurs at the server. The server then sends a compressed MPEG4 image to the Monitor Station and Web Client. When you optimize for a high bandwidth environment, no compression occurs at the server. Uncompressed images are sent to the Monitor Station and Web Client.

User server default- This setting defers to server default options.

Low CPU\High Bandwidth- This setting sends uncompressed images directly to the Monitor Station and Web Client.

High CPU\Low Bandwidth- This setting compresses the image, sends them and then decompresses them. It allows the system to get a much higher frame rate over slower networks.

Motion Settings tab



General Record Advanced Motion Settings Video Settings Optional Controls Privacy Zone Maintenance

Note

You can create unlimited Motion Zones when using Server-Side Motion detection.

Camera and encoder motion detection capabilities can differ greatly from model to model. One camera may offer partial motion detection with multiple zones and another only one motion zone which spans the entire image.

Pause Received Image: Check this box to pause the received image while you create a motion zone. Leaving it unchecked can cause the motion zone to flicker while it is being created.

Server side motion detection: Use this setting if the camera does not support side motion detection. The server compresses each image and is **extremely processor intensive**.

Camera side motion detection: Use this setting if the camera supports side motion detection. When camera detection is used, there is no need to decompress the image and server CPU utilization is not affected.

Server Motion Settings: This setting is only enabled if Camera side motion detection is selected.

Event Trigger: The Event Trigger slider determines how large or small an event or object) the motion trigger looks for when determining whether something is considered motion or not. Moving the slider to the right reduces software alertness, causing it to only watch for larger, more distinct changes. Moving the slider to the left raises software alertness, causing it to watch for less distinct changes. Setting the Event Trigger closer to maximum generates more recordings. The camera records more events, but

many can be "false positives." The sliding bar below the live image shows the current Event Trigger level. The maximum event or object size is 30. This is 100% of the image area, or a very large event or object.

Sensitivity: The Sensitivity slider sets proximity distance thresholds for any changes to be counted in determining motion. At high sensitivity, a random pixel change across the picture from another pixel change would be added to the sum of other changes to determine if motion thresholds have been met. At low sensitivity, the changes must be in close proximity to other changes or they will be ignored. To increase sensitivity, move the slider bar to the right. To decrease sensitivity, move the slider bar to the left.

Sample Interval: This option is only available if Server side motion detection is selected. The Sample Interval slider determines the interval time in milliseconds the server checks for changes. To increase the frequency the server checks for changes, lower the value. To decrease the frequency the server checks for changes, increase the value.

Setting up Motion Zones: Motion Zones are areas created within the image that the camera monitors for motion. Motion Zones allow for more precise motion detection. When combining Motion Zones with Motion-Only recording, the camera will ignore certain areas in its view. You can create a Motion Zone in the Event Trigger Labels section.

For example, you might have an outdoor camera set to record motion overlooking a playground with many trees. You only want the camera to record substantial movement, like that of vehicles, people and animals, and not when leaves move on a tree. You can create a motion zone in an area that is free of trees, focusing on real movement.

To create a Motion Zone:

1. On a camera's Motion Settings tab draw a square or rectangular shape over all or part of the live image.

2. After a shape is drawn a zone is added to the Event Trigger Labels section.

3. Create additional shapes for additional zones, up to the cameras maximum. You have reached the maximum when you can no longer create zones.

- 4. Click **Apply** and then **OK**.
- 5. You can check the camera's <u>Web Access</u> to verify the zone(s) were sent to the camera properly.

To modify a Motion Zone:

- 1. Select the zone from the Event Trigger Labels list.
- 2. Click Properties.

💽 Motion Zone Properties	×
Zone Name:	
Zone - 1	
The lower the Event Trigger Level the less amount of motion is required to trigger an event.	
Event Trigger Level 🛛 📑 (0 - 30)	
Sensitivity 90 🕂 (0 - 100)	
Location Use these values for fine-tuning image areas.]
Left 89 🐳 % Width 28 🐳 %	
Top 42 🕂 🎗 Height 44 🕂 🖇	
OK Cancel	

- 3. Change the zone name or leave it as-is.
- 4. Select the Event Trigger Level and Sensitivity settings.
- 5. To fine-tune the image area, change the left, width, top or height settings.

Note

Properly naming zones makes the motion event appear in the Motion Log with the specified name (i.e., Door Open) rather than the default of Zone - 1.

You can make a zone more sensitive than the rest of the camera view by setting its trigger level higher; to reduce a zone's sensitivity, lower the trigger level lower. Setting a zone to zero percent prevents motion detection from operating in that zone. Setting a zone to zero is useful if there is frequent motion in part of the image that you want to ignore. You can also manually move or resize the motion zone using the location settings.

Video Settings tab

General Record Advanced Motion Settings	Video Settings	Optional Controls	Privacy Zone	Maintenance	
		Image Quality Sett	ings		
	La b	Brightness 50	4		►
		Hue 50	4		Þ
	2 602	Color Adjustment -			
	1	Saturation 50	4		Þ
	and the second	Contrast 50	4		Þ
	- <u>-</u>	Sharpness 50	4		Þ
		RGB Color Adjustn	nents		
Rotate Image		Red 50	4		►
Use Camera Setting		Green 50	<		Þ
		Blue 50			Þ

You can use the Video Setting tab to modify certain camera settings. The software determines which settings can be modified based on the camera model. Options that are not supported cannot be modified.

Note

Most digital cameras use HSV color scheme rather than RGB.

There are generally two ways to defining color: HSV (hue, saturation, value) or RGB (red, green, blue). Most digital cameras use HSV instead of RGB.

Image Quality Settings:

• **Brightness**: Brightness is the amount of light in the image. You can adjust image brightness by moving the slider control. The higher the brightness, the brighter the image.

• **Hue**: Hue is described with words we normally think of as describing color: red, purple, blue and so on. You can adjust the camera color to make it more "true" by moving the slider control.

Color Adjustment:

- **Saturation**: Saturation describes the difference of a color from the gray of the same lightness. Increasing saturation deepens image colors, making reds redder and blues bluer. Decreasing saturation brings images closer to a grayscale, making them look more black-and-white.
- **Contrast**: You can adjust image contrast by moving the slider control.
- **Sharpness**: Adjusting image sharpness changes its colors in a way similar to saturation, but reducing sharpness generally makes images look more "flat."

RGB Color Adjustments: If the camera uses the RGB color model, you can adjust the levels of red, green and blue in your image by moving the slider controls.

Rotate Image: Some cameras display an upside down image by default. You can use this drop-down menu to change how the image displays.

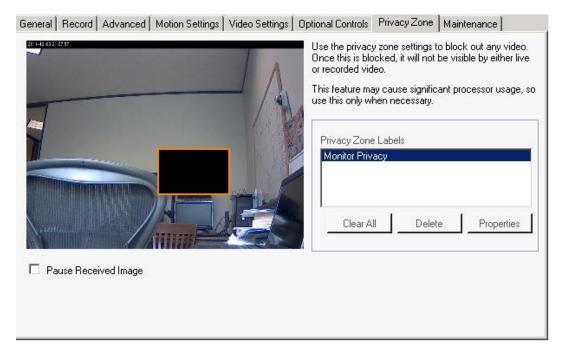
- Use Camera settings: Use the image orientation sent from the camera.
- **No rotation:** The image is not rotated. If camera rotates the image, the system rotates it back.
- **Flip:** The image is flipped 180 degrees.

Optional Controls tab

Advanced video settings	General Record Advanced	Motion Settings Video Settings	Optional Controls Privacy Zone Maintenance
Gain style Light grabber Autogain Light behavior	Advanced video settings		Dewarping Parameters Use Default Center X 0

You can use the Optional Controls tab to manipulate complex features offered by some cameras. For example, the Sentry 360 camera has de-warping capabilities and feature-specific configuration settings. In The figure below, the Optional Controls tab shows the enabled controls for this camera feature. See the appendices for more information on configuring specific camera types.

Privacy Zone tab



You can use the Privacy Zones tab to block live images and recorded video from a specified part of the camera image. Once set, that zone cannot be viewed, recorded or monitored. In addition, if a camera with a Privacy Zone is set to Motion-Only Recording, motion in the zone will not trigger recording.

Pause Received Image: Check this box to pause the received image while you create a privacy zone. Leaving it unchecked can cause the privacy zone to flicker while it is being created.

To create a Privacy Zone:

1. From the Privacy Settings tab of a camera start drawing a square shape over the live image on the left.

2. Use the mouse to left-click and draw a box around the area to be blocked. Enter a name for the zone that will be displayed on the Privacy Zone Labels list. You can move the zone on the live image to fine-tune its placement.

- 3. You can add as many zones as the view field allows.
- 4. Click **Apply** and then **OK**.
- 5. You can check the camera's <u>Web Access</u> to verify the zone(s) were sent to the camera properly.

To modify a Privacy Zone:

- 1. Select the zone from the Privacy Zone Labels list.
- 2. Click **Properties**.

Privacy Zone Properties	×
Zone Name:	
Monitor A Privacy Zone	
_ Location	7
Use these values for fine-tuning image areas.	
Left 25 🕂 % Width 32 🕂 %	
Top 20 🚔 % Height 42 🚔 %	
OK Cancel	1

- 3. Change the zone name or leave it as-is.
- 4. To fine-tune the image area, change the left, width, top or height settings.
- 5. Click **OK**.

Contact Information tab

General Record	Advanced Motion Settings	/ideo Settings Dptional Controls Privacy Zone Contact Informat	ion
Camera Inform	ation		
Camera Name	KCM5211E	Description Camera is overlooking Science lab, enter ro	om,
Building	Science Building		
Floor	second	City Houston	
Room	310	State Texas	
Phone	(713) 621-9779	Country USA	
Contact Inform	ation		
Primary Con	tact Officer Bert	Primary Phone (713) 621-9600	
Secondary Cor	tact Joe Aldine	Secondary Phone (713) 621-9780	
Police Nur	nber 911		
N	btes Firmware Version = A1D-3 MAC Address = 00:0F:7C:1		

You can use the Contact Information tab to identify the camera in more detail. The only information displayed by default is the camera name. The server administrator can enter the additional camera information. Click **Apply** and then **OK** to save the information.

Maintenance tab

General Record	Advanced	Motion Settings	Video Settings	Optional Controls	Privacy Zone	Maintenance	
Camera Inform	ation						
Camera Name	KCM5211	E	Vendo	ACTi			
Mode	ACTI KOM	1-5211	Installec	12/01/2011	Warranty	1 year	
Firmware	A1D-311-\	/5.03.02-AC	Othe	r Purchased From	Video Insight o	n 11/15/2011	
IDF/Switch	IDF-E200/	/10.4.52.103	Othe	r Cable Label: CI-R	E2 STAIR		
	New Service 12/17/2011 <officer bert="">: Camera was damaged on December 17th by a couple of teenagers, Incident Record # 15225-DFH. Called Video Insight and spoke to Joan to order a replacement; ETA: 2 days.</officer>						
Service History	11/15/2011: Camera received by Officer Bert						
Contact Inform	ation						
Contac	t Officer Be	rt	F	hone 713-621-97	79		

You can use the Maintenance tab as another option to enter detailed camera information. The only information displayed by default is the camera name and model. The server administrator can enter the additional camera information.

Note

Switching between the two tabs erases all information entered on the other tab.

Information entered in the **New Service Record** field is added to the Service History for later review.

Click **Apply** and then **OK** to save the information.

Dual-streaming capability

The Video Insight VP encoder series (VP 1, 8 and 16) offers a sub-stream for H.264. This is a useful option when bandwidth and CPU utilization are a concern. This feature allows you to add the VP 16

using channels 1-16 in Monitor Station for Live view using one stream of H.264 with lower FPS and resolution, and add channels 17-32 with a much higher FPS and resolution for recording purposes.

Adding the VP Encoder in this method results in a smoother live view that works best with a less-thanideal environment. It provides great quality and the highest resolution possible for recorded video.

Access controls

Access controls manage entry and exit to monitored facilities. IP Server integrates with a variety of access controls to provide an enhanced security environment.

S2

Video Insight and S2 certification is another offering to customers that would like to use Video Insight as a robust, dependable NVR system on the backend with an S2 user interface. This integration requires Video Insight Server version 4.3.0.40 and higher and S2 version 4.2 and higher. Documentation on how to configure and use S2 can be found by browsing to the following link for the latest OVID installer and an integration manual.

http://downloadvi.com/downloads/Current/OVID_S2_SERVER.zip

RS2

RS2 is a command line integration you can execute using a batch file or a simple command line. RS2 integration offers a live and recorded view of each camera.

To use RS2 to view recorded video:

1. Access a command line.

2. Enter "DVRViewer -sserverip -c1 -ddate -bbegintime –eendtime", where sserverip is the server IP address, ddate is the date in mmddyyyy format, bbegintime is the time point to start the video in 24-hour hh:mm:ssformat and eendtime is the time point to end the video in 24-hour hh:mm:ss format. For example, entering

DVRViewer -s10.10.1.213 -c1 -d07062011 -b09:00:00 -e10:00:00

Displays video recorded by server 10.10.1.213 from 9 AM to 10 AM on July 6, 2011 in a stand -alone player, as shown in the figure below.



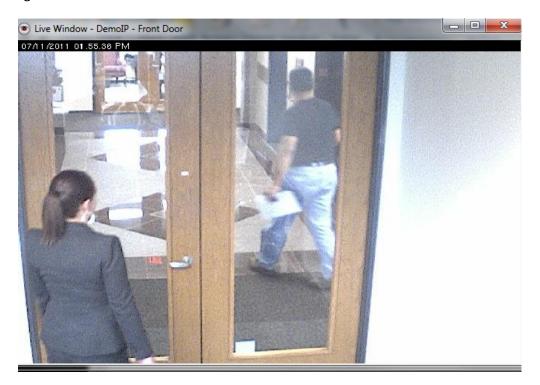
To use RS2 to view live video:

1. Access a command line.

2. Enter "DVRViewer –sserverip:portnumber-c1 –dlive", where sserverip is the IP address of the server and portnumber is the server port number. For example, entering

DVRViewer -s38.100.66.196:4021 -c1 -dlive

Displays live video from server 38.100.66.196 through port 4021 in a stand-alone player, as shown in the figure below.



Video Insight does not provide support for RS2. Contact RS2 for more information.

DSX

Video Insight supplies an installer for the required files. You can download it from <u>http://downloadvi.com/</u>. Integrating Video Insight with DSX gives you live and recorded video as well as the ability to use your camera's PTZ presets.

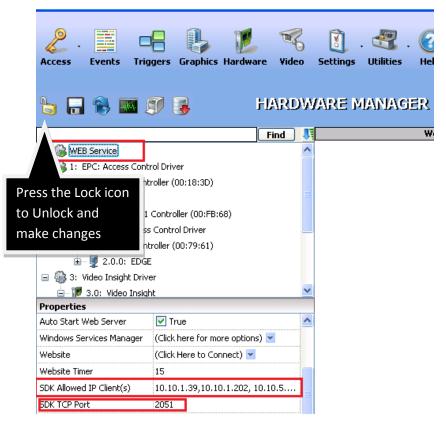
Video Insight does not provide support for DSX. Contact DSX for more information.

MonitorCast

Video Insight offers MonitorCast integration. The access control capability, hardware, features and integrations are built into our software. You must have a MonitorCast server running to configure the integration. You can contact Video Insight Technical Support for instructions on installing a MonitorCast server. Video Insight supports MonitorCast version **8.8.61** and higher.

You must add the IP Server IP address to the MonitorCast authorized clients list prior to configuring Monitor Station.

- 1. Log on to the MonitorCast server.
- 2. Click the Hardware Manager icon.
- 3. Click the Lock icon to make changes.
- 4. Select the Web Service node.



5. Enter the IP Server's IP address into SDK Allowed IP Client(s). Separate all IP addresses with a comma.

- 6. Note the pre-defined SDK TCP Port number. You will need it when configuring Monitor Station.
- 7. Click Save.
- 8. Click the Lock icon to secure changes.

To configure MonitorCast using Monitor Station:

1. Login to IP Server directly or through Monitor Station.

2. Start Server Properties by clicking on Administration followed by Setup and Configuration and select the desired server from the left tree.

- 3. Click the Access Configuration tab.
- 4. Enter the MonitorCast Server IP address, TCP Port number and Operator user name.

[Setup and Configuration Cameras Advanced Healt	h Monitor Client Access Configuration Contact Information
	Enable access control support MonitorCast Server Connection	Access Control Type MonitorCast
MonitorCast address, TCF port number and an administrato	P ess Configuration Options Log all card events in the event motion log Log Alarms in the system log	D51 Operator Admin Test Imported Doors Door/Device Name Server Camera
username	Or Send alarms to Monitor Station	
		Import Properties Delete Door Delete All

5. Click **Test**. If successful, the system displays the message "Access control system connection successful." If unsuccessful, return to step one on the previous page.

6. Click **Import**. All doors and devices configured in MonitorCast are displayed under Available Access Control Doors.

7. Ensure the port is allowed on the firewall or Windows Firewall is disabled.

Device Address ID	Door/Device Name	-		Device Address ID	Door/Device Name	Server	Camera
1.0.0.11	Door Contact						
1.0.0.13	Door Contact						
1.0.0.15	Monitor Point #5						
1.0.0.16	Monitor Point #6		Add ->				
1.0.0.17	Monitor Point #7	1					
1.0.0.18	Monitor Point #8						
1.0.0.R1	Proximity Reader						
1.0.0.R2	Proximity Reader						
1.1.0.11	Door Contact						
1.1.0.R1	Proximity Reader	-					
•	I∎I						
	Refresh			Properties	Sync Names	Delete D	oor Delete

8. Select the door or device to import and then click **Add**.

Device Address ID	Door/D	Device Address ID	1.0.0.13		Door/Device Name	Server 🗠	Camera
1.0.0.R1	Proximit		1		Door Contact	10.10.1.175	Not set
1.0.0.R2	Proximit	Door/Device Name	Door Contact		Door Contact	10.10.1.175	Not set
	Door Co	Associated Camera	10.10.1.238 - /	Axis - Mod 🔻	Door Contact	10.10.1.175	
1.1.0.R1	Proximit		1		Door Contact	10.10.1.175	Not set
1.1.0.R2	Proximit	Remove Camera	1 ок	Cancel	Monitor Point #5	10.10.1.175	Not set
1.2.0.11	Door Co				Monitor Point #6	10.10.1.175	Not set
1.2.0.R1	Proximity	Reader		1.0.0.17	Monitor Point #7	10.10.1.175	Not set
1.2.0.R2		Reader		1.0.0.18	Monitor Point #8	10.10.1.175	Not set
2.0.0.11	Door Co	ntact		1.0.0.R2	Proximity Reader	10.10.1.175	Not set
2.0.0.R1	Proximity	Reader		1.0.0.R1	Proximity Reader	10.10.1.175	Not set
•				•	1		

- 9. To associate a camera to the imported door or device, click **Properties**.
- 10. Enter a door or device name or accept the default.
- 11. Select the camera from the Associated Camera drop-down menu.
- 12. Click **OK**.

To modify MonitorCast using Monitor Station:

- 1. Right-click a server from the left navigation tree and select Properties.
- 2. Click the Access Configuration tab.

Setup and Configuration Cameras Advanced Health Image: Configuration Enable access control support MonitorCast Server Connection Host IP 10.10.1.91 Port 20	Access C	ontrol Type Monit	orCast
Access Configuration Options	Imported Doors		
	Door/Device Name	Server	Camera 🔺
 Log Alarms in the system log Send alarms to Monitor Station 	Proximity Reader	10.10.1.175	Not set
Send alarms to Monitor Station	Proximity Reader	10.10.1.175	Not set
	Proximity Reader	10.10.1.175	Not set
Photo	Proximity Reader	10.10.1.175	Not set
User Password	Proximity Reader	10.10.1.175	Not set
	Sarit Name Test	10.10.1.175	10.10.1.245+.
	Import Prop	erties Delete D	oor Delete All

- 3. Select an Imported Door and click **Properties**.
- 4. Change the name and/or the camera.
- 5. Click **OK**.

If the name of an Access Point changes on the MonitorCast server, click **Import** on the Access Configuration tab and then click **Sync Names**.

BlackBoard

BlackBoard is an integration similar to MonitorCast. BlackBoard requires an ORACLE™ server.

To configure BlackBoard using Monitor Station:

- 1. Login to IP Server directly or through Monitor Station.
- 2. Start Server Properties by clicking on Administration, followed by Setup and Configuration.
- 3. Click the desired server in the left tree navigation.
- 4. Click the Access Configuration tab.
- 5. Enter the Oracle Connection String.

	Cra	Oracle Connection String SOURCE=ENVISION;USER ID=INSIGHT;PASSWORD=VINSIGHT Test						
Connection str values will be specific to you ORACLE installation	ring	og all card events in the event motion log Log Alarms in the system log Send alarms to Monitor Station Send entries to Monitor Station	Door/Device Name Door Contact Door Contact Door Contact	Server	Camera ▲ Not set Not set Not set			
			Monitor Point #5 Monitor Point #6	10.10.1.175 10.10.1.175	Not set Not set			
	Up	ling Options date Alarms once every 3 📑 second(s) date Events once every 3 📑 second(s)	Monitor Point #7	10.10.1.175 10.10.1.175 perties Delete D	Not set Not set Door Delete All			

6. Click **Test**. If successful, the system displays the message "Access control system connection successful." If unsuccessful, contact your System Administrator to confirm the connection string and whether the ORACLE client is running.

7. Click **Import**. All doors and devices configured in BlackBoard are displayed under Available Access Control Doors.

Device Address ID	Door/Device Name 🔺		Device Address ID	Door/Device Name	Server	Camera
1.0.0.11	Door Contact					
1.0.0.13	Door Contact					
1.0.0.15	Monitor Point #5					
1.0.0.16	Monitor Point #6	Add ->				
1.0.0.17	Monitor Point #7					
1.0.0.18	Monitor Point #8					
1.0.0.R1	Proximity Reader					
1.0.0.R2	Proximity Reader					
1.1.0.11	Door Contact					
1.1.0.R1	Proximity Reader					
•						
	Refresh		Properties	Sync Names	Del	ete Door Delete A

8. Select the door or device to import and then click **Add**.

Device Address ID	Door/D	Device Address ID	1.0.0.13			Door/Device Name	Server 🔺	Camera
1.0.0.R1	Proximit	Device Address ID	11.0.0.15		Г	Door Contact	10.10.1.175	Not set
	Proximiț	Door/Device Name	Door Contact	t		Door Contact	10.10.1.175	Not set
	Door Co	Associated Camera	10.10.1.238	- Axis - Mod 💌		Door Contact		
	Proximiț		1		Г	Door Contact	10.10.1.175	Not set
	Proximiț	Remove Camera	1 ок	Cancel		Monitor Point #5	10.10.1.175	Not set
	Door Co				Г	Monitor Point #6	10.10.1.175	Not set
	Proximity	Reader		1.0.0.17		Monitor Point #7	10.10.1.175	Not set
		Reader		1.0.0.18		Monitor Point #8	10.10.1.175	Not set
2.0.0.11	Door Con	tact		1.0.0.R2		Proximity Reader	10.10.1.175	Not set
2.0.0.R1	Proximity	Reader		1.0.0.R1		Proximity Reader	10.10.1.175	Not set
•				4		1	İ	

- 9. To associate a camera to the imported door or device, click **Properties**.
- 10. Enter a door or device name or accept the default.
- 11. Select the camera from the Associated Camera drop-down menu.
- 12. Click **OK**.

Note

Clicking the Delete Door icon removes the door or device from Monitor Station only.

To modify BlackBoard using Monitor Station:

- 1. Right-click a server from the left navigation tree and select Properties.
- 2. Click the Access Configuration tab.

etup and Configuration Cameras Advanced Health	Monitor Client Acce	ss Configuration Co	ntact Information
Enable access control support	Access (Control Type Black	board 💌
Oracle Connection String SOURCE=ENVISION;USER ID=INSIGHT;PASSW	ORD=VINSIGHT		Test
Access Configuration Options	Imported Doors		
Log all card events in the event motion log	Door/Device Name	Server	Camera 🔺
✓ Log Alarms in the system log	Door Contact		Not set
 Send alarms to Monitor Station Send entries to Monitor Station 	Door Contact		Not set
	Door Contact	10.10.1.175	Not set -
	Monitor Point #5	10.10.1.175	Not set
	Monitor Point #6	10.10.1.175	Not set
Polling Options	Monitor Point #7	10.10.1.175	Not set
Update Alarms once every 999 🚔 second(s)	Monitor Point #8	10 10 1 175	Not set
Update Events once every 409 📑 second(s)	Import Prop	perties Delete D	oor Delete All

- 3. Select an Imported Door and click **Properties**.
- 4. Change the name and/or the camera.
- 5. Click **OK**.

If the name of an Access Point changes on the BlackBoard server, click **Import** on the Access Configuration tab and then click **Sync Names**.

There are two additional areas where BlackBoard is used: Lane Viewer and Access View in Facility Maps.

Lane Viewer

Use Lane Viewer when you need to view several cameras and their associated card swipes at the same time.

To enable Lane Viewer:

- 1. Start Monitor Station.
- 2. Click the Tools menu and then select Options.
- 3. Click the Tools Configuration tab.
- 4. Check the box to Enable Access Control Lane Viewer.
- 5. Click **Apply**.
- 6. Click **OK**.

Enabling the access control lane viewer adds it as an option on the Tools menu. Select it.

	💽 Lane Picture Viewer				
	pelco2		pelco2	•	
List of all cameras for all servers added to this MS					ve view will pear here
List of all imported doors	VITESTDOOR		VITESTDOOR		
				Pau	se Live image
	Pause		Pause		
Save configuration	Name Time		Name		ard swipe etails
changes		Configuration nenu	e Config	Exit	

1. Select the camera from the upper drop-down menu or select the door from the lower dropdown menu. Selecting a door displays the corresponding camera in the live view.

2. When a card is swiped the name, time and message display as shown in the figure below.



If no photo exists for the name, the system displays a No Photo message will appear:

You can customize Lane Picture Viewer options by clicking the Config button.

Picture Size:

• Width/Height: The sizes entered here determine the lane size. Click Restore to reset the width and height to their default.

• Always show last entry: Checking this option displays data from the last card swipe. If unchecked, the data is blacked-out after 30 seconds by default.

• **Keep History:** Checking this option allows you to press Pause and iterate through the preceding 10 images by default.

Viewing options:

Number of Lanes: Select the number of lanes to view at once, up to six.

You can check or uncheck the next five boxes to include or exclude the display of that information.

VITESTDOOR	•
No Photo	
Pause	
Name Invalid Card -	_
Time 07/30/2012 09:41:51 AM	_
Message Customer Not Found	

Live Video: Select these options to show live video. If unchecked, only the card swipe information and photo display.

Access View

Access view is accessible either by the facility map and hovering over a door or from Tools > Access View in the Monitor Station. If the facility map is open and Access View is closed, it will pop up when an alarm or event occurs.

Alarm History

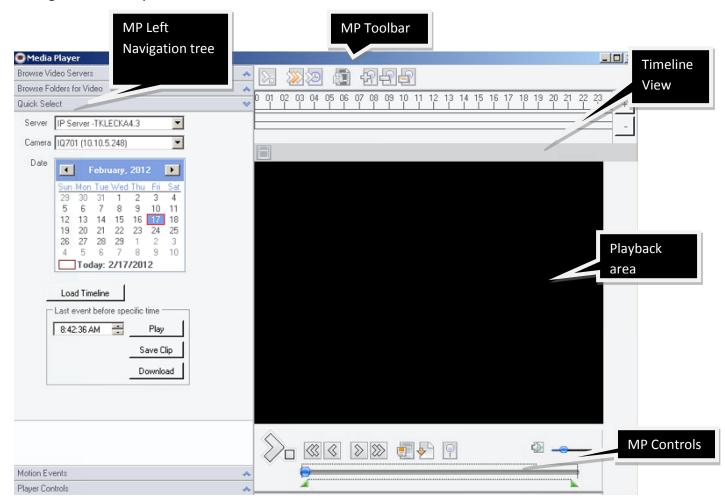
Click this tab to display a complete list of the most recent alarms. Double-click on an alarm in the list to play the recorded video for that event.



User Entry History tab: Click this tab to display a complete list of the most recent card swipe history. Double-click on the entry to display the recorded video for that event.

Media Player

Video Insight's built-in Media Player offers a slew of filtering options, printing and managing of videos making it fast and easy to find a video or motion event.

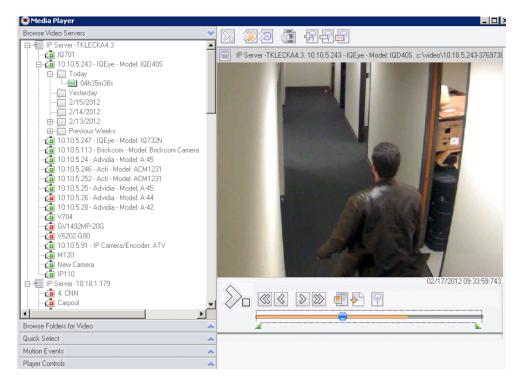


Left navigation tree

The left navigation tree has multiple panes. The Quick Select pane is expanded by default.

- Browse Video Servers
- Browse Folders for Video
- Quick Select
- Motion Events
- Player Controls

Browse Video Servers



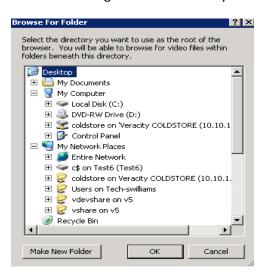
Browsing video servers is done the same as you would from Monitor Station's left navigation tree. You can browse to the server, camera, day folder and file you want to view. The selected object plays on the right. You can also download a clip, print an image and perform an object search from this view.

Browse Folders for Video

💽 Media Player	
Browse Video Servers	<u>→</u> R 22 R R R R R A
Browse Folders for Video	* <u></u>
Root Directory C:\video	File: \\10.10.1.215\coldstore\01.24.2011\12h02m11s.avi
🗆 🦳 video	
· ☐ 10.10.1.116-792740811	
🖮 🗁 08.31.2011	
10h35m19s	
10.10.1.122-1835783811	
10.10.1.136-793036133	
	<u> </u>
Quick Select	*
Motion Events	*
Player Controls	*

Browsing folders for video is similar to browsing using Windows Explorer.

1. To change the root directory click the icon.



- 2. Select a location and all video recordings in that network path display on the left.
- 3. Select a recorded file to play.

Quick Select

Browse Video Servers	
Browse Folders for Video	
Quick Select	♥ 0 10 20 30 405 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 +
Server IP Server -TKLECKA4.3	
Camera 10,701 (10.10.5.248)	
Date	IP Server -TKLECKA4.3 - IQ701 on day Friday, February 17, 2012
February, 2012	
Sun Mon Tue Wed Thu Fri Sat 29 30 31 1 2 3 4	
29 30 31 1 2 3 4 5 6 7 8 9 10 11	
12 13 14 15 16 17 18	
19 20 21 22 23 24 25 26 27 28 29 1 2 3	
4 5 6 7 8 9 10	
Today: 2/17/2012	
Load Timeline	
Last event before specific time	
4:22:31 PM 🚔 Play	
Save Clip	
Download	
	02/17/2012 16:19:32:454
fotion Events	

Quick Select is useful when viewing recorded files as motion events in the timeline view. These are shown in the figure below as orange marks.

- 1. Select the server from the Server drop-down menu.
- 2. Select the camera from the Camera drop-down menu.
- 3. Select a date from the calendar.
- 4. Click Load Timeline.

5. Place your cursor on any orange mark on the timeline (motion events). The motion event plays in the view.

You can search for a specific event around a known time using the Last event before specific time option. Enter a time closest but past when the event occurred and then click the Play button.

Motion Events

Added cameras are set to Motion-Only Record type by default. You can use this panel and avoid going through hours of video looking for a specific event if you know the exact camera, server, and time of the event.

and the second s	yer										
Browse Video	Servers				* 5			5. For	9		
Browse Folder	s for Video							ET LUC			
Quick Select						P Server -TKL	LECKA4.3	. 10.10.5.26	- Advidia - N	1odel: A-44. (c:\video\10.
Motion Events					*						
Server IP	Server -TKLE(CKA4	.3	Reload		02-2	1 7	017	Tue	02.	56.1
Y Y Y Y M	otion Eivents 💌	.5.24 IQEy (10.1 IQEy	8)	Clear All			1	X	Ţ,		
- Restrict Mo					1000	1		1.200			
	cess Events cess Alarms	12 12		3:40 PM 🚽 3:40 PM 🚽					Y		1
	cess Events cess Alarms ile Event	12	2:05	3:40 PM 📑			R			5	
	cess Events cess Alarms ile Event deo Analytics		2:05	3:40 PM				-		5	
Not E Ac Not A Ru Not A Ru Vic	cess Events cess Alarms ile Event jeo Analytics Time	× 0		3:40 PM 📑						5	
Not E Ac Not A	cess Events cess Alarms le Event Jeo Analytics Time 02:02:02	% 0 13	∑ 2:09 File ▲ 02h02m02s	Search Camera 10.10.5.252 - 6					k	6	
Not E Ac Ac Ac Not A R Vic Not A R Vic Day 2/19/2012 2/20/2012	cess Events cess Alarms le Event deo Analytics Time 02:02:02 14:00:48	8 0 13 10	 ✓ 2:09 File ▲ 02h02m02s 11h56m51s 	2:40 PM Search Camera 10:10:5:252 - A 10:10:5:26 - A						6	
Not E Ac Ac Bu Vite Day 2/19/2012 2/20/2012 2/20/2012	cess E vents cess Alarms le E vent eo Analytics Time 02:02:02 14:00:48 13:51:57	8 0 13 10	▼ 2:05 File ▲ 02h02m02s 11h56m51s 11h56m51s 11h56m51s	2:40 PM Search Camera 10.10.5.252 - A 10.10.5.26 - A 10.10.5.26 - A						0	
□ Not € Ac △ Not 4 Ac □ Not 4 Not 4 2/19/2012 2/20/2012 2/20/2012 2/20/2012 2/20/2012 2/20/2012	cess Events cess Alarms de Event deo Analytics 7 1 02:02:02 1 4:00:48 1 3:51:57 1 3:04:44	% 0 13 10 12	Z:05 File A 02h02m02s 11h56m51s 11h56m51s 11h56m51s	240 PM Search Camera 10.10.5.252 - A 10.10.5.26 - A 10.10.5.26 - A 10.10.5.26 - A						C.	
□ Not € Acc Acc Pic □ Not 8 Acc Pic 2/19/2012 2/20/2012 2/20/2012 2/20/2012 2/20/2012 2/20/2012 2/20/2012 2/20/2012 2/20/2012	cess E vents cess Alarms le Event leo Analytics 02:02:02 14:00:48 13:51:57 13:04:44 12:51:04	% 0 13 10 12 5	7:00 File 02h02m02s 11h56m51s 11h56m51s 11h56m51s 11h56m51s	240 PM Search Camera 10.10.5.252 - 4 10.10.5.26 - Ac 10.10.5.26 - Ac 10.10.5.26 - Ac							
□ Not € Acc Acc Not € □ Not € Acc Acc Not € 0 2/19/2012 2/20/2012 2/20/2012 2/20/2012 2/20/2012 2/20/2012 2/20/2012 2/20/2012 2/20/2012 2/20/2012 2/20/2012	Cess E vents Cess Alarms le E vent eo Analytics Time 02:02:02 14:00:48 13:51:57 13:04:44 12:51:04 12:12:00	 <i>%</i> 0 13 10 12 5 6 6 	Z:09 File A 02h02m02s 11h56m51s 11h56m51s 11h56m51s 11h56m51s 11h56m51s 11h56m51s 11h56m51s 11h56m51s 11h56m51s	240 PM Search Camera 10.10.5.252 - A 10.10.5.25 - A 10.10.5.26 - A 10.10.5.26 - A 10.10.5.26 - A 10.10.5.26 - A	ASLE						

- 1. Select the server from the Server drop-down menu.
- 2. Select the specific camera that recorded the event or select all.
- 3. Select a before and after time under Restrict Times or uncheck the boxes for a greater interval.
- 4. Click **Reload**. Motion events that match the search parameters display.
- 5. Click the motion event and the file will play on the right.

Motion events can also be filtered to include specific motion types:

Motion Events: Cameras set to Motion-Only Record type display events here.

Access Events: Positive alarms of successful access control swipes from integrations such as MonitorCast and BlackBoard display here.

Access Alarms: Negative alarms of failed access control swipes from integrations such as MonitorCast and BlackBoard display here.

Rule Event: Motion events created because of a Rule display here.

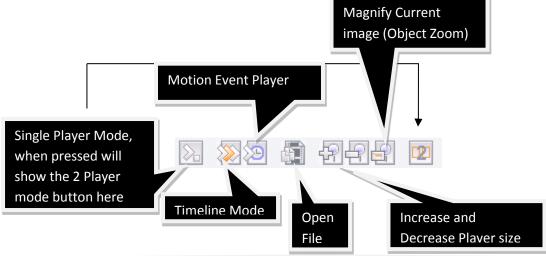
Video Analytics: Motion events created because of VCA Analytics (rules) display here.

Player Controls

Motion Events Server IP Server -TKLECKA4.3 Reload Cameras 10.10.5.220 - Video-Insight - M Basic I 10.10.5.243 - IQEye - Model: IC Basic New Camera (10.10.5.29) Select All Not Before: 2/20/2012 X Not Before: 2/20/2012 Search Search Day Time Y File Camera 2/20/2012 15:07:04 15:07:07 0 14h55m30s IQ701 2/20/2012 15:06:37 15:06:37 0 0 08h23m57s 10:10.5.243 - 1 2/20/2012 15:06:37 15:06:37 0 2/20/2012 15:06:37 15:06:29 0 14h55m30s IQ701	🖲 Media Pla	ayer			
Quick Select IP Server -TKLECKA4. Motion Events Reload Cameras 10.10.5.220 · Video-Insight - M IQ701 (10.10.5.248) Basic 10.10.5.243 · IQEye · Model: II Basic New Camera (10.10.5.29) Select All 10.10.5.247 · IQEye · Model: II Select All Not Before: 2/20/2012 Xot After: 2/20/2012 Search 3:13:52 PM Not After: 2/20/2012 Xot After: 2/20/2012 Xot After: 2/20/2012 15:07:04 0 08h23m57s 10:10.5.243 · I 2/20/2012 15:06:37 0 2/20/2012 15:06:37 0 2/20/2012 15:06:37 0 2/20/2012 15:06:37 0 2/20/2012 15:06:37 0 2/20/2012 15:06:29 0 14h55m30s 2/20/2012 15:06:28 0 15h03m33s 10:10.5.247 - I 1 10:10.5.247 - I 2/20/2012 15:06:28 0 15h03m33s 10:10.5.247 - I <t< td=""><td>Browse Video</td><td>o Servers</td><td></td><td></td><td></td></t<>	Browse Video	o Servers			
Mation Events Server IP Server ·TKLECKA4.3 Reload Dameras 10.10.5.220 · Video-Insight - M Basic IQ701 (10.10.5.248) Basic 10.10.5.243 · IQEye · Model: I(Basic New Camera (10.10.5.29) Select All New Camera (10.10.5.29) Select All Minimum Motion Select All Not Before: 2/20/2012 Xot After: 2/20/2012 Search Search Day Time File Camera Search 2/20/2012 15:10:8 0 2/20/2012 15:07:04 0 15h03m33s 10.10.5.243 · I 2/20/2012 15:06:37 0 8h23m57s 10.10.5.243 · I 2/20/2012 15:06:37 0 8h23m57s 10.10.5.243 · I 2/20/2012 15:06:37 0 8h23m57s 10.10.5.243 · I 2/20/2012 15:06:37 0 14h55m30s IQ701 2/20/2012 15:06:28 0 15h03m33 10.10.5.247 · I 2/20/2012 15:06:28 0 15h03m33 1	Browse Folde	ers for Video			
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2/20/2012 15:04:58 0 15h03m33s 10.10.5.247 - I	Day 2/20/2012 2/20/2012 2/20/2012	Time 15:11:08 15:07:04 15:07:07 15:06:37	2012 % 0 0 0 0 0	File 08h23m57s 15h03m33s 14h55m30s 08h23m57s	52 PM Search Camera 10.10.5.243 10.10.5.247 10.701 10.10.5.243
	Day 2/20/2012 2/20/2012 2/20/2012 2/20/2012	Time 15:11:08 15:07:04 15:07:07 15:06:37 15:06:29	2012 2012 0 0 0 0 0 0	File 08h23m57s 15h03m33s 14h55m30s 08h23m57s 14h55m30s	52 PM Search Camera 10.10.5.243 10.10.5.247 10.701 10.10.5.243 10.701

Media Player controls are located below the right view and also in the left pane. The left controls are useful when player size is increased to the point making the right controls disappear or when the size of the monitor coupled with the camera resolution size causes the controls below to disappear.

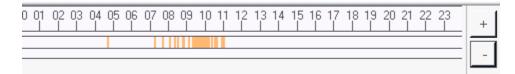
Toolbar



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Single/Dual Player Mode: You can use these buttons to display one or two players and play and control the same video in two different players.

Timeline Mode: Timeline Mode is best used with cameras that are set to Motion-Only Recording type. Clicking the Timeline Mode button displays a timeline as shown in the figure below.



The orange marks indicate recorded motion events. You can use the plus and minus buttons to display whole days, hours or minutes. Place your cursor on any of the orange marks to play that motion event.

Motion Event Player: Clicking this button expands the Motion Events pane. See Motion Events for more information on motion events.

Open File: In some cases browsing to a video's location is not enough you will need to open a specific file. Click this button and browse to the location of the file.

Magnify Current Image (Object Zoom): Each click of the Object Zoom button displays a pop-up that allows printing, zooming in and out as well as saving to a location for later retrieval. The figure below shows an example of an Object Zoom pop-up.



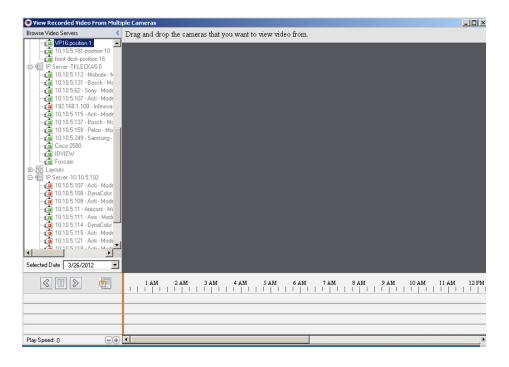
Note

To use cameras in the Sync Player the server the cameras reside on must be running IP Server version 5.0 or later.

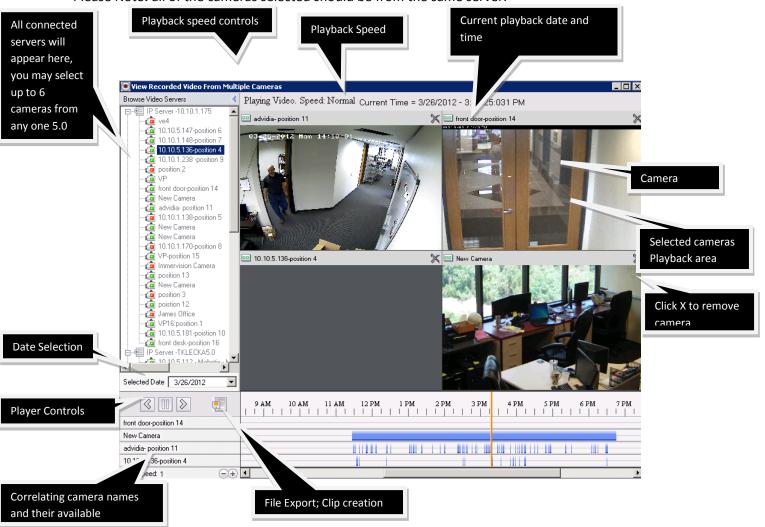
Synchronized Player

The Video Insight Synchronized Player is easy to access and use.

- 1. Start Monitor Station.
- 2. Click the Tools menu and then select Synchronized Player.



3. Drag-and-drop up to six cameras from the left navigation tree to the viewing area.

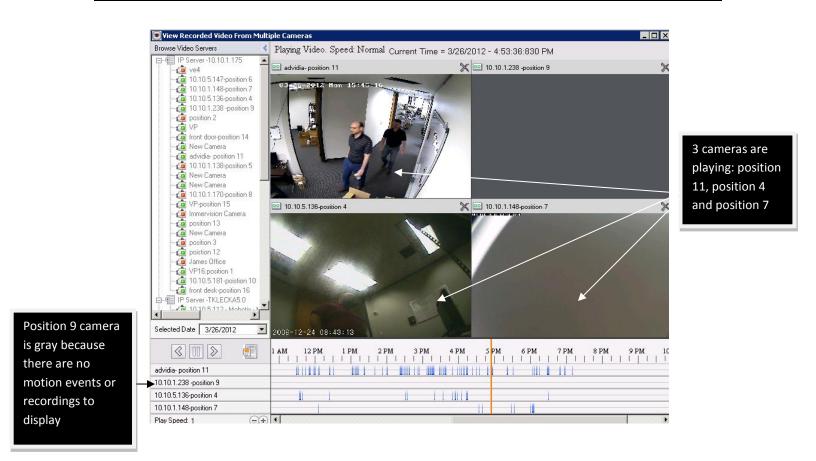


Please Note: all of the cameras selected should be from the same server.

Placing a camera in the playback area loads its available recordings for the selected date (the default is Today).

Recording Types: A solid blue line indicates that a camera uses Record Always Recording. Blue marks indicate that the camera uses Motion-only Recording.

Once the recordings load, the vertical orange bar moves to the earliest recording and begins playing the video for the applicable camera(s). Not all cameras added to Synchronized Player have recordings at the same time and as such the camera(s) without recording pauses or remains gray while the camera(s) with recordings play. When the vertical orange bar reaches a point where all cameras in the viewing area have recordings (i.e., all cameras show a blue mark for the same time) all the recordings play synchronously. The figure below shows an example of synchronized playback.



The vertical orange bar progresses from left to right as video is playing. It progresses along the timeline until the end of the day or the end of the recordings are reached. You can click anywhere in the timeline to replay a motion event.

The Synchronized Player defaults to the current date when started. To view video from a different date click the Selected Date drop-down menu.



The default playback speed is 1. Click the '+' or '-' buttons to increase or decrease video speed. 64 is the fastest forward speed and -64 is the fastest reverse speed.

The player displays three controls at first: Play, Pause and Rewind.



After any of the control buttons is pressed fast forward and fast reverse controls become available.



Synchronized Player clip option

Once Synchronized Player is used with a set number of preselected cameras and the video with the interesting footage is displayed it is possible to create a synchronized clip that will play in all supported media players just as a regular video would; only displaying the synchronized view of the matrix.

To export a file from Synchronized Player:

1. Click the File Export icon.

File Export
Save to file Save to file Folder C:\Documents and Settings\Administrator\Desktop File name Exported_Video.avi
Start Time: 3:15:00 PM 💌 3/26/2012 💌 End Time: 3:25:00 PM 💌
Compiled Image Resolution Normal - 1280 x 960
OK Cancel

- 2. Accept the default save location or enter or browse to another.
- 3. Accept the default file name or enter another.
- 4. Change the default time and date and time if different than what is currently playing.
- 5. Select a compiled image resolution.
- 6. Click **OK**.

File Export
Save to file Save to file Folder C:\Documents and Settings\Administrator\Desktop
File name Exported_Video.avi
Start Time: 3:15:00 PM 💌 3/26/2012 💌 End Time: 3:25:00 PM 💌
Compiled Image Resolution Normal - 1280 x 960
OK Cancel

7. Click **Cancel** after the file export is completed.

Troubleshooting

Your registered Video Insight product includes one year software maintenance and a technical support plan that begins on your purchase date. This is verified by the serial number used to activate the software. The one year of software maintenance entitles users to one full year of free software upgrades and unlimited technical support. Video Insight recommends renewing your maintenance before it expires to avoid a lapse in upgrades and support.

Our technical support team is highly skilled in our software and in the world of IP cameras, as well as networking and access control systems. Video Insight technical support works to make sure your issue is resolved as quickly and completely as possible.

Frequently Asked Questions

What types of cameras are supported?

Video Insight supports a most camera manufacturers and models. Camera support includes feature support. You can view the most recent list of supported cameras at: <u>http://www.video-</u> insight.com/supported-cameras.php

Why am I seeing skipping in Live View?

Live View performance depends heavily on your server, client and network capabilities. If you are seeing skipping in Live View is could be related to these capabilities and the number of concurrent connections to the camera exhibiting the skipping.

I'm having trouble installing IP Server on my computer.

The Video Insight Application Suite installer takes all pre-requisites into consideration to allow users to install any or all of our applications using one installer. The installer considers which SQL or IIS versions are needed and when and how they should be installed. Due to the many variables involved, it is possible that the Video Insight installer may fail to properly install SQL or IIS, which in turn may cause the Video Insight suite to be installed and configured properly. There are two options to overcome any possible installation issues.

Option I: If the destination server is not in production and can be reformatted we recommend it as the fastest route to a successful install.

Option II: If the destination server is currently in production and cannot be reformatted, you must manually remove the following items:

1. Use the Add/Remove Program applet in Control Panel to uninstall all Video Insight software.

2. Remove the Video Insight IP Enterprise folder from all installed locations, typically C:\Program Files.

3. Remove all registry keys related to Video Insight. These are different for 32- and 64-bit installations.

4. Use the Add/Remove Program applet in Control Panel to uninstall all SQL-related applications, including SQL Server Management studio and SQL Native Client

- 5. Remove MSSQL folders located in C:\Program Files.
- 6. Remove all registry keys related to the SQL installation.
- 7. Restart the computer.
- 8. Reinstall the Video Insight application suite.

Note

We recommend backing-up your database prior to any database modification and removal.

I can't get Health Monitor and my IP Server to connect.

Verify that Health Monitor information is correct on the <u>Health Monitor tab</u> of the IP Server's properties. Verify that Health Monitor installation and configuration steps described in <u>Health Monitor</u> were followed. If this is correct, check that:

1. The IP Server name does not exceed 30 characters. Health Monitor supports a maximum of 30 characters for the IP Server name.

2. Verify that the Health Monitor service is running on the server hosting Health Monitor. The service name is HealthMonitorService.exe.

I just added my servers, so why does it keep asking me to reenter them? It's not saving added servers.

If the Server Setup pop-up appears every time Monitor Station is restarted it means the user logged on to the computer does not have rights to edit the registry. Both Monitor Station and IP Server require Registry access to save specific settings; in this case, the server list. Login to the computer using a local Administrator account.

Another possibility is that Windows User Access Control is still active. A restart of the computer hosting Monitor Station is required after installation. Restart the computer and import the server list again.

Is there a list of all the ports used by IP Server and their purpose?

See Appendix A.

What does 'There was a database error, or this version of the database...' mean?

This error may appear in several different areas but is most likely due to a problem with the database. Either Health Monitor or the IP Server is unable to connect to the database to capture current settings and configurations. If you think the problem may be related to an IP address change or credentials you can use <u>IPSM Diagnostics</u> to check for database connectivity.

This error may also be due to the SQL service not running. To check if the SQL service is running:

- 1. Start the Administrative Tools applet in Control Panel.
- 2. Double-click Services.
- 3. Find the SQL Server (MSSQLSERVER) service.

Computer Management (Local)	Services					
🗄 💼 Event Viewer	SOL Server (MSSOLSERVER)	Name 🗸	Description	Status	Startup Type	Log On As
🗈 浸 Sharec Foders	Sector (issection)	System Event Notification	Tracks sys:	Started	Automatic	Local System
E Local Lsers and Groups	Description:	SSDP Discovery Service	Enables dis	Started	Manual	Local Service
🗄 📲 Performance Logs and Alert:		SQL Server VSS Writer	Provides th	Started	Automatic	Local System
Device Manager	controlled access of data and rapid transaction processing.	SQL Server Browser	Provides S	Started	Automatic	Network S
🛅 Storage	claristic on processing.	50L Server Active Directory He	Enables int		Disabled	Network S
E 🔐 Removable Storage		SQL Server (MSSQLSERVER)	Provides st		Disabled	Network S
		SNMP Trap Service	Receives tr		Manual	Local Service
Services and Applications		SNMP Service	Includes a	Started	Automatic	Local System
Services		Smart Card	Manages a		Manual	Local Service
WMI Control		Simple Mail Transfer Protoco (S	Transports	Started	Automatic	Local System

- 4. Note the Status and Startup Type values for this service.
- 5. Right-click the service and select Properties.

SQL Server (MSSQ	LSERVER) Properties (Local Computer)	? ×
General Log On	Recovery Dependencies	
Service name:	MSSQLSERVER	
Display name:	SQL Server (MSSQLSERVER)	
Description:	Provides storage, processing and controlled access of data and rapid transaction processing.	▲ ▼
Path to executabl ''c:\Program Files	e: \Microsoft SQL Server\MSSQL.1\MSSQL\Binn\sqlser	vr.
Startup type:	Disabled	- I
Service status:	Stopped	-
Start	Stop Pause Resume	
You can specify th from here.	ne start parameters that apply when you start the servic	e
Start parameters:]
	OK Cancel App	yle

- 1. Select Automatic from the Startup type drop-down menu.
- 2. Click **Apply**.
- 3. Click Start.

- 4. Click **OK**.
- 5. Restart Health Monitor and the IP Service if necessary to reestablish a connection.

How do I set the IP Service to restart in the event of a crash?

You can set Windows service parameters to automatically restart a service in the case of a crash.

- 1. Start the Administrative Tools applet in Control Panel.
- 2. Double-click Services.
- 3. Find the IP Video Enterprise service.

IP Video Enterprise	Name	Description	Status	Startup Type
	🔍 Fax	Enables you		Manual
Start the service	🔅 Function Discovery Provide	The FDPHO	Started	Manual
	Sunction Discovery Resourc	Publishes th	Started	Automatic
Description:	🔍 Group Policy Client	The service	Started	Automatic
IP video surveillance software allows you to view live and recorded video from IP cameras on the server, or remotely.	🔍 Health Key and Certificate	Provides X.5		Manual
	🎑 HomeGroup Listener	Makes local		Manual
	🎑 HomeGroup Provider	Performs ne		Manual
	鵒 Human Interface Device Ac	Enables gen		Manual
	🎑 IKE and AuthIP IPsec Keyin	The IKEEXT		Manual
	🎑 Interactive Services Detection	Enables use		Manual
	🎑 Internet Connection Sharin	Provides ne		Disabled
	🤍 IP Helper	Provides tu	Started	Automatic
	🤹 IP Video Enterprise	IP video sur		Automatic
	🔍 IPsec Policy Agent	Internet Pro		Manual
	🧠 KtmRm for Distributed Tran	Coordinates		Manual
	🔍 Link-Layer Topology Disco	Creates a N		Manual
	🧠 Media Center Extender Serv	Allows Med		Disabled
	🎑 Microsoft .NET Framework	Microsoft		Manual
	🎑 Microsoft .NET Framework			Manual
	A 100 COLUMN CONCENTRAL COLUMN COLUM COLUMN COLUMN COLU	K.A		K.d.,

- 4. Note the Status and Startup Type values for this service.
- 5. Right-click the service and select Properties.

IP Video Enterprise Properties (Local Computer)
General Log On Recovery Dependencies
Service name: VIEntService
Display name: IP Video Enterprise
Description: IP video surveillance software allows you to view live and recorded video from IP cameras on the
Path to executable: "C:\Program Files (x86)\VI Enterprise\Enterprise Service\IPEntService.exe"
Startup type: Automatic
Help me configure service startup options,
Service status: Stopped
Start Stop Pause Resume
You can specify the start parameters that apply when you start the service from here.
Start parameters:
OK Cancel Apply

Click the Recovery tab.

IP Video Enterprise Properties (Local Computer)								
General Log On Recovery	Dependenc	ies						
Select the computer's response if this service fails. <u>Help me set up recovery</u> actions!								
First failure:	First failure:							
Second failure:	Second failure:							
Subsequent failures:	quent failures:							
Reset fail count after:	0	days						
Restart service after:	2 minutes							
Enable actions for stops wi	Enable actions for stops with errors. Restart Computer Options							
Run program								
Program:								
		Browse						
Command line parameters:	Command line parameters:							
Append fail count to end	Append fail count to end of command line (/fail=%1%)							
	OK	Cancel Apply						

The installation of IP Server automatically sets this parameter to restart the service on failure.

How do I backup and restore my Video Insight database?

Backing up your database regularly is good IT practice. Regular backups speed disaster recovery.

To back up your database:

- 1. Click the **Start** button.
- 2. Enter *services.msc* and then press Enter.
- 3. Find the SQL Server (MSSQLSERVER) service.
- 4. Right-click on the service and select Stop.
- 5. Using Windows Explorer, browse to C:\Program Files\Microsoft SQL

Server\MSSQL.1\MSSQL\DATA

- 6. Copy the files *Insightent.mdf* and *Insightent_log.ldf* to a safe location.
- 7. Click the **Start** button.
- 8. Enter *regedit* and then press Enter.
- 9. Browse to *HKLM>Software>Video Insight*.
- 10. Right-click the Video Insight folder and select Export.
- 11. Save this file to the same location that you put your database files in.

To restore your database:

- 1. Click the **Start** button.
- 2. Enter *services.msc* and then press Enter.
- 3. Find the SQL Server (MSSQLSERVER) service.
- 4. Right-click on the service and select Stop.
- 5. Browse to where you saved *InsightENT.mdf* and *InsightENT_Log.ldf*.
- 6. Copy the files to C:\Program Files\Microsoft SQL Server\MSSQL.1\MSSQL\DATA.
- 7. Click **OK** to replace the existing files.
- 8. Return to where you saved your database files and double-click your registry export file (.reg).

Your registry keys are re-installed.

9. Repeat steps 1-3.

10. Right-click on the service and select Start.

I'd like to migrate all of my servers to one centralized database.

Review the <u>Database considerations</u> and <u>Storage considerations</u> to choose the proper server to migrate to.

- 1. Stop the service on all secondary servers.
- 2. Uninstall SQL from all secondary servers. This is optional.
- 3. Delete ServerID from the registry on secondary servers by:
- a. Click the **Start** button.
- b. Enter *regedit* and then press Enter.
- c. Browse to HKLM>Software>Video Insight>IP Server Ent.
- d. Right-click on ServerID key.
- 4. Run <u>Initialization</u> on secondary servers. See page 25 for more information.

- 5. Enter the new SQL information.
- 6. Restart the IP Service.

How do I completely remove Microsoft SQL without reformatting the drive?

Completely removing SQL is a bit more complicated than simply using Add/Remove Programs in Control Panel. Add/Remove Programs does not remove everything and remnants will interfere with a new install of SQL and the Video Insight software. There are three methods of removing SQL manually:

Note

Making changes to your registry can make your Microsoft Windows operating system unusable. We recommend backing up your registry before making any changes.

Method 1

1. Remove SQL using Add/Remove Programs. If you are using MSDE, there is only one entry. If you are using SQL Express, there are four. Remove the top entry first and then proceed to the next.

- 2. Download MSIINV and MSIZAP from http://www.downloadvi.com/downloads/ftp .
- 3. Extract the files to C:\.
- 4. Click the **Start** button.
- 5. Enter '*cmd*' and then press Enter.
- 6. At the command prompt enter cd \.
- 7. Enter msiinv >C:\openme.txt.
- 8. Using Windows Explorer, browse to C:\ and open the file named openme.txt.
- 9. Press the CTRL and F keys to open a search box.
- 10. Enter SQL and click **Find**.
- 11. After SQL is found locate {product id} and note it. Leave the document open.
- 12. Return to the command prompt and enter msizap T {product id}. Include the brackets with the

product ID.

- 13. Repeat step 12 until all SQL references are removed.
- 14. To verify that all services have been removed, click the **Start** button.
- 15. Enter *services.msc* and then press Enter.
- 16. In the Services list locate any service that starts with Microsoft SQL or SQL.
- 17. Right-click each of these and select Stop.
- 18. Click the Start button.
- 19. Enter *cmd* and press Enter.
- 20. Return to the command prompt and enter cd \.
- 21. Enter sc query state= all>c:\openme1.txt.
- 22. Return to Windows Explorer and browse to C:\ and open the file named openme1.txt.

- 23. Press the CTRL and F keys to open a search box.
- 24. Enter SQL then click **Find**.
- 25. After SQL is found locate Service Name.
- 26. Return to the command prompt and enter sc delete <service name>.
- 27. Repeat step 25 until all services are removed.
- 28. Return to Windows Explorer and browse to C:\Program Files and delete the Microsoft SQL Server folder.
- 29. Click the **Start** button.
- 30. Enter *regedit* and then press Enter.
- 31. Browse to *HKLM>software>Microsoft*.
- 32. Remove any object that has SQL in the name.
- 33. Browse to *HKLM>Services>Current Control Set*.
- 34. Remove any object that has SQL in the name.
- 35. Shutdown and restart the server before attempting another installation.

Method 2

1. Download Microsoft Windows Installer Clean Up Utility from

http://www.support.microsoft.com/kb/290301.

- 2. Install the utility.
- 3. Start the program.
- 4. Select the product you want to uninstall and then click **Remove**.
- 5. Using Windows Explorer, browse to C:\Program Files and delete the Microsoft SQL Server folder.
- 6. To verify that all services have been removed, click the **Start** button.
- 7. Enter *services.msc* and then press Enter.
- 8. In the Services list locate any service that starts with Microsoft SQL or SQL.
- 9. Right-click each of these and select Stop.
- 10. Click the **Start** button.
- 11. Enter *cmd* and then press Enter.
- 12. At the command prompt enter cd \.
- 13. Enter sc query state= all>c:\openme1.txt.
- 14. Return to Windows Explorer and browse to C:\. and open the file named openme1.txt.
- 15. Press the CTRL and F keys to open a search box.
- 16. After SQL is found locate Service Name.
- 17. Return to the command prompt and enter sc delete <service name>.
- 18. Repeat step 17 until all services are removed.
- 19. Click the **Start** button.
- 20. Enter *regedit* and then press Enter.
- 21. Browse to *HKLM>software>Microsoft*.
- 22. Remove any object that has SQL in the name.
- 23. Browse to *HKLM>Services>Current Control Set*.

- 24. Remove any object that has SQL in the name.
- 25. Shutdown and restart the server before attempting another installation.

Method 3

- 1. Download CCleaner from http://www.piriform.com/ccleaner/download/standard.
- 2. Install the software. Uncheck the option to install the Toolbar.
- 3. Run the program.
- 4. Click the Tools menu, select the software and then click **Run Uninstaller**.
- 5. Using Windows Explorer, browse to C:\Program Files and delete the Microsoft SQL Server folder.
- 6. To verify that all services have been removed, click the **Start** button.
- 7. Enter *services.msc* and then press Enter.
- 8. In the Services list locate any service that starts with Microsoft SQL or SQL.
- 9. Right-click each of these and select Stop.
- 10. Click the **Start** button.
- 11. Enter *cmd* and then press Enter.
- 12. At the command prompt enter cd \.
- 13. Enter sc query state= all>c:\openme1.txt.
- 14. Return to Windows Explorer and browse to C:\. and open the file named openme1.txt.
- 15. Press the CTRL and F keys to open a search box.
- 16. After SQL is found locate Service Name.
- 17. Return to the command prompt and enter sc delete <service name>.
- 18. Repeat step 17 until all services are removed.
- 19. Click the **Start** button.
- 20. Enter *regedit* and then press Enter.
- 21. Browse to *HKLM>software>Microsoft*.
- 22. Remove any object that has SQL in the name.
- 23. Browse to *HKLM>Services>Current Control Set*.
- 24. Remove any object that has SQL in the name.
- 25. Shutdown and restart the server before attempting another installation.

I'm getting errors when playing recordings in Windows Media Player and Video Insight's Media Player.

Errors like "unable to play file", black screen, or "SonyNetwork.dll didn't load" when attempting to play recordings in Windows Media Player or in Video Insight Media Player are usually indicative of codecs missing on that server. Codecs allow video players to decode video files and play them properly. Video Insight recommends downloading and installing the latest codecs package on every server expected to play back videos.

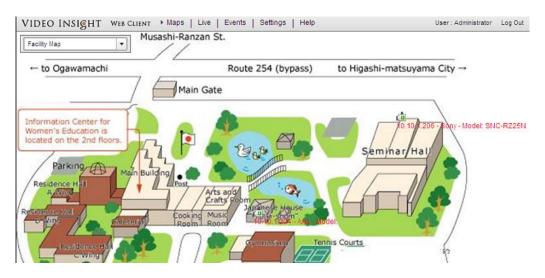
http://download.cnet.com/Windows-7-Codec-Pack/3000-13632_4-10965840.html?tag=mncol;3

How do I add a VP1, VP8, VP16 Encoder or an Arecont-type camera with multi channels?

Multi-channel devices are cost effective inclusive devices with either multiple ports such as the Video Insight VP series of encoders or multiple eyes such as Arecont cameras. Adding them to our software is as simple as checking the channel number and assigning it a port number (1-16 for VP encoders) or eye position (1-4 for Areconts).

How do I disable Map Labels for the Web Client?

Facility Maps can have lots of cameras and their names can clutter the map. To remove camera names in the Web Client map view you must add a registry key. Figure x shows a Facility Map with camera names.



- 1. Click the **Start** button.
- 2. Enter *regedit* and then press Enter.
- 3. Browse to *HKEY_LOCAL_MACHINE>SOFTWARE>Video Insight>Web Client>4.0*. Note, this path is

for a 32-bit system. For 64-bitsystems use the Wow64 folder.

- 4. On the left side pane right-click and select New and then select String Value.
- 5. Enter ShowMapLabels and then press the Enter key.
- 6. Right-click the new string value and select Modify.
- 7. Enter 0 in the Value Data field.

Edit View Favorites Help	Name	Туре	Data
- BRAMSVC	ab](Default)	REG_SZ	(value not set)
🕀 🦲 Schlumberger	ab]DataConnectionString	DEC S7	SERVER=localbost;UID=;
- 📄 Search Settings	ab ShowMapLabels	REG_SZ	0
- 🦲 Secure		Ned_pe	Ű
😟 🧰 SlySoft			
😟 🧰 Sunbelt Software			
🕀 🧰 SurveillanceSystem			
😟 🧰 TeamViewer			
😟 🧰 Ultra-Scan			
😥 🧰 VI DB Tool			
🖻 🧰 Video Insight			
🛄 Axis Joystick			
Components			
🗀 Health Monitor			
🛄 IP Server Ent			
Monitor Station			
🖻 🧰 Web Client			

The figure below shows the same Facility Map without camera names.



My C-drive is filling up due to Temp Cache, how do I clear it?

Viewing videos in Web Client adds temporary folders on the local computer while buffering or downloading video. Windows saves a local copy and does this automatically to avoid downloading the same media again. There are two ways to remove these files and create some space:

Automatically:

"First go to Start, then run and type in gpedit.msc

Next select -> Computer Configuration/Administrative Templates/Windows Components/Terminal Services/Temporary Folder. Then right-click "Do Not Delete Temp Folder upon Exit". Go to properties

and click **Disable**. Now next time Windows puts a temp file in that folder it will automatically delete it when it's done! Remember, GPEDIT (Group Policy Editor) is only available in XP Pro." (Source: http://www.marvswindowstips.com/cleanup.htm)

Manually:

- 1. Click the **Start** button.
- 2. Enter %TEMP% and then press Enter.
- 3. Sort files by descending date.
- 4. Select the files you want to remove and press the Delete key.

Online Resources

Youtube Tutorials: <u>http://www.youtube.com/user/videoinsighttv</u>

Downloads: <u>http://downloadvi.com</u>

Remote Support

If you require personal assistance from one of our Technical Support representatives, please contact us using one of our <u>contact methods</u>. Install the Team Viewer client application prior to requesting remote support.

To install Team Viewer:

- 1. Browse to http://www.downloadvi.com
- 2. Click the VI Remote Support QS button.
- 3. Click **Run** at the prompt.
- 4. Click **Run** again.
- 5. Call us at Technical Support at 713-621-9779.
- 6. Give the representative your ID. Your ID is randomly generated every time you request remote

support.



7. The representative will log on to your computer and show you how to correct the issue or fix it for you.

Contact Us

In person:

3 Riverway, Suite 700 Houston, Texas 77056

Hours of Operation:

9:00 AM - 6:00 PM CST, Monday - Friday

By Phone: 713-621-9779

800-513-5417

By Fax: 713-621-7281

Sales Department:

713-621-9779

Technical Support Hours:	8:00 AM - 6:00 PM CST, Monday – Friday
For Saturdays and Holidays :	10:00 AM - 2:00 PM

Please call our Answering Service at **877-743-2403** and the support engineer on call will be paged to assist you.

By Email: <u>support@video-insight.com</u>

Feature Request

http://www.questionpro.com/akira/TakeSurvey?id=1028953

Appendices

Appendix A: IP Server port list

- Appendix B: Current Customers Examples
- Appendix C: Commonly Used Camera Credentials
- Appendix D: Configuring a CNB camera

Appendix E: Configuring Sentry FS1000 and FS2000 cameras

Appendix F: Configuring an IQEye Camera using Optional Controls

Appendix A: IP Server port list

Port Number	Name	Purpose
4010	Data Port	Sends live video streams from IP Server to Monitor Station
4011	Command Port	To get and set system information by Monitor Station
3010	Ovid Server	Communication between S2, IP Server and the Ovid Server for Video Insight and S2 Access Control Configuration
80	НТТР	IIS for serving the Web Client Note: Some ISPs block port 80 access. You may need to configure IIS to use a different port
2051	MonitorCast	Access control communication between Video Insight and MonitorCast
554	RTSP	Specific camera properties
21	FTP	Specific camera properties
11000	N/A	Communication between IP Server and Health Monitor
636	Active Directory SSL	Active Directory configured with Secure Socket Layer (SSL)
389	Active Directory non-SSL	Active Directory configured without Secure Socket Layer (SSL)

Appendix B: Current Customers Examples

<u>Klein ISD</u> – is using HP servers with Dual Xeon E554 2.53GHz processors with 8GB memory and Windows 2003 Server.

1. Server CS21 has (90) 1.3MP H.264 cameras

2. Server 41 has (100) 1.3MP H.264 cameras and (30) D1 cameras running MJPEG

rerview Server Status Cam	1 - 2					
Server Name	Max Cameras	Used	Available	Serial Number	Processor %	Memory Available
🕮 CS 21	150	120	30	69247	13%	6732 MB
🕮 CS 23	150	140	10	317DA	15%	6808 MB
🕮 CS 25	200	72	128	12345	10%	7016 MB
🕮 CS 27	150	116	34	C116A	10%	6898 MB
🕮 CS 29	150	89	61	F64A2	11 %	6891 MB
🕮 CS 33	150	64	86	552F0	3%	7011 MB
🕮 CS 35	150	105	45	06678	13%	6822 MB
🕮 CS 37	150	86	64	4A4D6	5%	6960 MB
🕮 CS 39	150	63	87	3CDA1	5%	7096 MB
🕮 CS 41	300	130	170	0429B	7%	6291 MB
🕮 CS PD	150	24	126	8451A	34 %	2468 MB
CS-KMS	40	11	29	12345	28 %	1976 MB

<u>Pflugerville ISD</u> – is using Dell R510's with Dual Xeon E5620 2.4GHz processors, 12GB memory and Windows Server 2008 R2. The servers are running 1,200 2MP H.264 cameras and 400 D1 cameras spread across the servers.

erview Server Status Came	ra Status Storage	Licensing (Online Users			
Server Name	Max Cameras	Used	Available	Serial Number	Processor %	Memory Available
🐖 VS01 .31	300	141	225	F789F	5%	4312 MB
🐖 VS02.32	300	147	225	AA475	3%	3877 MB
1.33	300	148	230	9C205	2%	2843 MB
🐖 VS04 .34	300	246	177	B7347	9%	3074 MB
🐖 VS05.35	300	169	197	B0554	7%	3236 MB
🐖 VS06 .36	300	218	194	E2528	14 %	2580 MB
🐖 VS07 .37	300	191	191	5C790	11 %	3370 MB
🐖 VS07 .38	300	208	194	47B84	19%	2689 MB
🐖 VS09.39	300	156	215	1099A	7%	3282 MB
🐖 VS10.40	300	117	241	816CA	5%	3683 MB
🐖 IP Server -10.225.187.41	300	0	300	D5292	0%	10772 MB
🐖 VS12.42	300	0	300	BD600	0%	10856 MB
€ VS13.43	300	15	294	AD283	1%	7601 MB

Recommendations - the following are general guidelines based on the previous discussion assuming Xeon processors and camera side motion detection:

- a. D1 or 4CIF cameras 150-200 cameras per OS
- b. 1.3 MP cameras 90 cameras per OS
- c. 3 MP cameras 50 cameras per OS

Appendix C: Commonly Used Camera Credentials

Here is a list of the default usernames/passwords for a few of the supported IP camera manufacturers. Should your camera model not appear here please refer to the manual included with your camera.

Brand	UserName	Password	Notes
35	root	root	
Acti	Admin	123456	or 'admin' with lowercase a
Arecont Vision			No credentials needed
Avigilon	admin	admin	
Axis	root	blank or pass	You will be asked to create a root password the first time you go into the cameras interface.
Basler	admin	admin	
Bosch Dinion			No credentials needed
Brickcom	admin	admin	
Cisco			You will be asked to create a root password the first time you go into the cameras interface.
Dlink	root	blank	
Grandstream	admin	admin	
Hikvision	admin	12345	
Honeywell	Administrator	1234	
Huviron	Admin	admin	To change settings
Huviron	root	root	To view images
Infinova	infinova	INFINOVA	
IPX-DDK	root	admin	Also try 'Admin'

IQeye	root	system	
IQinVision	root	system	
Mobotix	admin	meinsm	
Panasonic	admin	12345	
Pelco Sarix	admin	admin	
Pixord	admin	admin	
Samsung Electronics	root	root	or admin/4321
Samsung Techwin (new)	admin	4321	
Samsung Techwin (old)	admin	1111111	
Sanyo	admin	admin	
Scallop	admin	password	
Sony	admin	admin	
Stardot	admin	admin	
Starvedia	admin	leave blank	
Toshiba	root	ikwb	
Toshiba	root	ikwd	
Trendnet	admin	admin	
Ubiquiti	ubnt	ubnt	
VideoIQ	supervisor	supervisor	
Vivotek	root	leave blank	
VP16	admin	12345	
VP16-A	Admin	12345	

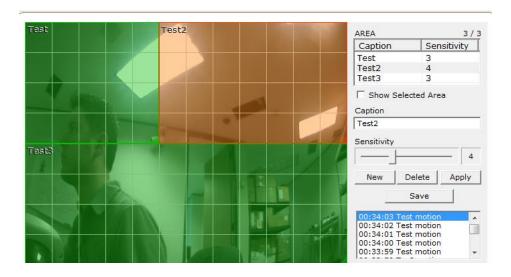
Appendix D: Configuring a CNB camera

Due to the nature of the CNB camera integration and the capabilities of the camera will turn on Motion detection inside the camera, but we cannot draw zones inside the Motion Detection page, all zones must be created inside the CNB web page under Motion Detection as shown below.

1. Access the camera's Web page

System Setup
Status
Users
Date & Time
Maintain Server
System / Log
Audio & Video
Audio
Video
RTP
Camera Conditions
Network Setup
TCP/IP
IP Filtering
HTTP
UPnP / DDNS / Bonjour
CMS
Event Configuration
Event Types
Motion Detection
Sensor / Alarm
SMTP(E-mail)

2. Click the Motion Detection option



With the CNB cameras the best way for Motion Detection to work is to draw at least two zones; the camera will not detect motion anywhere there is not a zone and allows you to draw up to three zones.

The Sensitivity adjusts the threshold for the amount of motion that needs to occur. The lower the number, the less amount of motion that needs to occur to trigger a motion event, setting the Sensitivity to 10 turns off Motion Detection in that area.

Motion Zones can over lap and it appears the zone with the lower sensitivity takes precedence over the other zone.

The window is dynamic once you save the changes you have made, but as you can see from the picture, it does not tell you the amount of motion, just that motion has occurred and in which zone.

While testing we discovered that a zone with sensitivity between 3 and 5 work the best, but it will depend on the size of the zone drawn as well. The bigger the zone, the lower the number will need to be.

Appendix E: Configuring Sentry FS1000 and FS2000 cameras

Web client requirement of cameras streaming JPEGs may require specific configuration to ensure these two models are streaming both H.264 and JPEG to properly display in Monitor Station and the Web Client.

If the Sentry cameras you are de-warping have menus that look like this:

Megapixel	Home	System	Streaming	Camera	Logout
Video Format	Video Fo	ormat			
Video Compression	Video R	esolution :			
Video OCX Protocol		MJPEG + H			
Video Frame Skip			'20p (30fps) + '20p (30fps) +		
Video Mask			20p (30fps) +		
Audio			20p (30fps) +		
		_	20p (30fps) +		
		Save			

Then the correct setting should be H.264 + MJPEG for the web client and the dewarp to work properly.

Conversely, if the camera's web interface looks like this:



No changes are needed; the camera streams both h.264 and JPEG as requested, regardless of what the image settings are set to.

Appendix F: Configuring an IQEye Camera using Optional Controls

Once the camera is added to the software, access the Optional Controls tab in the Camera's Properties.

🖲 Setup a	Setup and Configuration- Modify settings for camera: IQ701					?>	
General	Record	Advanced	Motion Settings	Video Settings	Optional Controls	Privacy Zone	Contact Information
Adva	anced vide	o settings —					
	Gain s	tyle Peak (Detect	•			
	Light grab	ber Most F	rames	•			
	Autog	jain Undefi	ned	V			
	Light beha	avior Optimiz	ze Speed	•			
					0	K Ca	ncel Apply

These controls change the way that the IQ Eye cameras handle different light settings and adjust the iris accordingly.

Gain Style- The autogain algorithm of your camera will set brightness to best display. The gain style setting chooses which pixels within the exposure window will be used by the autogain algorithm for setting brightness levels.

• **Peak Detect:** uses only the brightest pixels in the exposure window, making sure they're appropriately-adjusted for bright pixels. This is a good setting for watching bright areas.

- **Backlight:** uses only the darkest pixels in the exposure window, making sure they're appropriately-adjusted for dark pixels. This is a good setting for outdoor scenes where you want to watch a shaded region.
- **Average:** uses **all** of the pixels in the exposure window. This is a good setting for indoor scenes where there are no very bright or very dark areas to skew the gain calculations.

• **Clip Average:** uses all pixels **except** for the very darkest and brightest pixels. This is a good setting for outdoor scenes where you want to ignore both sky and shadows and to watch a region of intermediate brightness levels. This is also a good setting for interior scenes.

• Undefined- This setting turns off Gain Style

Light Graber- Enables or disables special processing for low-light images. These values can be seen at the camera's web page under Image tab.

• Most Frames- Sets the Light Grabber value to 4x, which specifies "integration" of four frames, twice the lowlight correction as the 2x setting which specifies integration of two frames.

- Medium- Sets the Light Grabber value to 2x.
- Undefined- Sets the Light Grabber value to 4x
- Disabled- Turns Light Grabber off at the camera.

Light Behavior- This setting adjusts the electronic shutter values for the IQeye camera

• **Optimize speed:** Use this setting for fast moving subjects. This setting may cause images to appear grainy in low light conditions.

• **Optimize quality:** Use this setting for high quality images. This setting may cause images to blur in low light conditions.

• **Auto:** This setting is ideal when there is adequate light and objects are not moving too fast.

The other values set a fixed exposure. This is useful for tuning a camera to minimally changing conditions or to capture objects moving at predictable speeds. The list of available exposures may change based on other settings like frame rate, Light Grabber and resolution.

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