BridgeVMS

Unparalleled Hardware Flexibility

Network Recorder
User Manual

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A. Overview

The BH-16/16 model is a hybrid device that can be used for both Analog and IP Cameras at once allowing the organization to utilize up to 16 Analog cameras as well as 16 or more IP cameras depending on the bitrate, resolution and other factors.

A.1 Device Details

- √ Support 16-ch analog input with 4CIF(D1)/CIF real-time encoding
- √ Support up to 16-ch 4CIF (main stream) +16-ch CIF (sub stream) encoding under dual stream encoding mode.
- √ Support 16-ch alarm in and 4-ch alarm out
- √ Atom N270 1.6GHZ CPU with low power consumption
- √ Open IA structure, various PC application software can be applied to the product
- √ Two 1000M Ethernet interfaces, support multiple IPC connection
- √ Support multiple analog video & audio input
- √ Support H.264 hardware compression
- √ Programmable front panel button & LED configuration
- √ Compact and flexible structure design

A.2 Recommendations

Before connecting and operating your device, consider the following:
- √ Ensure unit is installed in a well-ventilated, dust-free environment
- √ Unit is designed for indoor use only
- √ Keep all liquids away from the Device
- √ Dropping the unit due to a faulty install location may damage the internal sensitive electronics within the unit
- √ Use a Universal Power Supply if possible
- √ Power down the unit before connecting and disconnecting accessories and peripherals
- √ Use a reliable HDD to ensure best performance and storage
- √ CPU Usage will vary depending on the models of IP cameras used and their specific configurations

B. Device Interface

The device was created for organizations with a need for a medium size camera implementation and a small area for storage of the device itself allowing up to 8 drives and lots of storage.
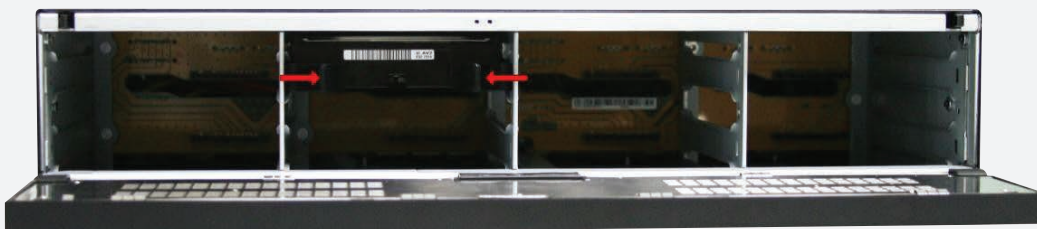
B.1 Front Panel
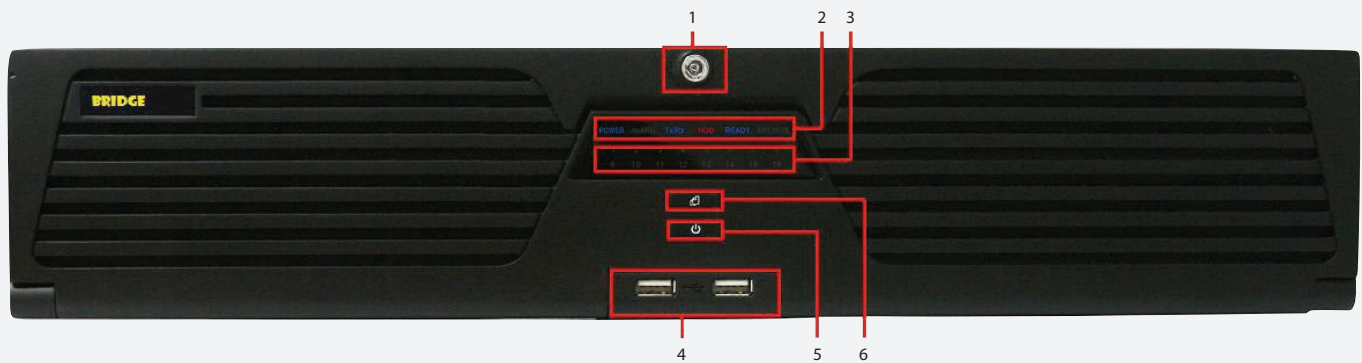
No.	Type	Name	Description
1	Lock	Front Panel Lock	
2	LED	POWER	Power LED will be red for standby status and green if the device is running
		HDD	HDD LED blinks on hard disk write/read status
		Tx/Rx	Tx/Rx blinks with red or green color when there is network data transmission
3	LED	Channel indicator 1-16	LED status programmable via SDK, the LED can be set as red or green color
4	Interface	USB 2.0	
5	Button	Power	Press the Power button for over 1.3 seconds to shut down the unit, yet if you press more than 4 seconds, it will execute force shutdown.
6	Button	User-Defined	Button response programmable via SDK

B.2 Within the Front Panel

The front panel can be opened as shown below; press the position marked with label 1 and open the front panel with direction indicated with label 2.
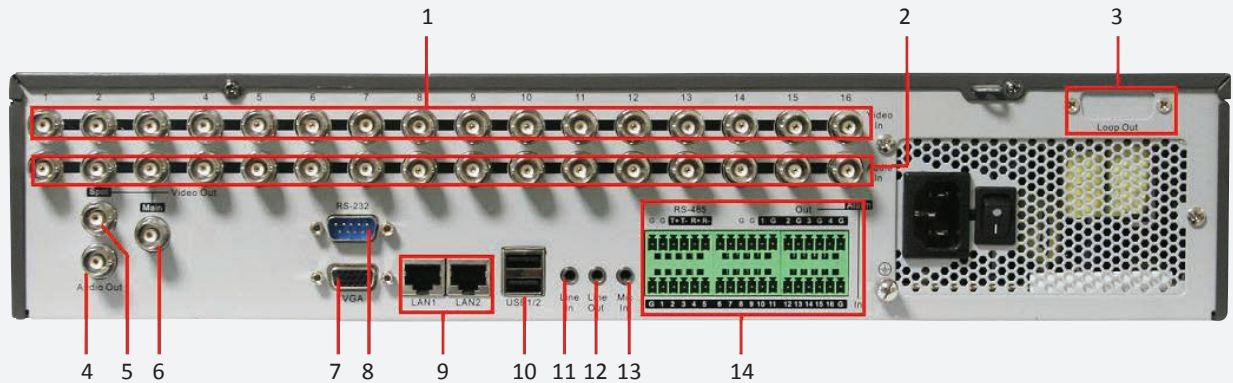

As seen below there are 8 hard disk slots when the front panel is opened; press the position indicated by the red arrow to plug/unplug the desired hard disk.

The figure below indicates the operation method to open and close the front panel and plug/unplug the hard disk.

B.3 Back Panel Description

No.	Description
1	Video input 1-16
2	Audio input 1-16
3	Video Loop Out (Optional)
4	Audio output (DSP)
5	Video output (DSP)
6	Reserved
7	VGA
8	RS-232
9	RJ45 Ethernet interface
10	USB
11	Line In
12	Line Out
13	Mic In
14	Alarm I/O (16/4) and RS485 interface

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B.4 Additional Description

Model		DS-5216HFI-A
Motherboard	CPU	Intel Atom N270 2GB
	Memory	2GB
	VGA	1, support up to 1900*1200@60HZ resolution
	Audio	Line In/Line Out/Mic In
Video/Audio In	Analog Video Input	16-ch BNC (1.0Vp-p, 75Ω)
	Audio Input	16-ch BNC (2.0Vp-p, 1kΩ)
Video/Audio Compression	Video	H.264
	Playback	4CIF/2CIF/CIF/QCIF
	Frame Rate	PAL: 1~25 fps, NTSC: 1~30fps
	Bit Rate	32Kbps-4Mbps user adjustable
	Stream Type	Video / Video & Audio
	Audio	G. 711A-law
	Audio Bit Rate	64kbps
HDD	Type	10 SATA Interface (Refer to Note below)
	Maximum	Support up to 2TB hard disk for each HDD interface
Other Drivers	Type	1 CF card interface
External Interface	Netwrok	2 RJ45 10M/100M/1000M adaptive Ethernet port
	Serial Interface	1 standard RS-485 serial interface
		1 standard RS-232 serial interface
	USB Interface	2 in front panel and 2 in rear panel, USB 2.0
	Alarm Input	16
	Alarm Output	4
Others	Power Supply	AC220V, 47--63 HZ
	Power	≤50W
	Working	0°C--50°C
	Working	10%--90%
	Chassis	19" Standard 2U Chassis
	Dimension	441mm(W) ×470mm(D) ×90mm(H)
	Weight (Not include HD)	≤8Kg

Note: SATA1-2 can be detected by BIOS. We recommend installing the operating system on SATA1 or SATA2; SATA 3-10 can be recognized after installing Marvell 6145 driver on the operating system.
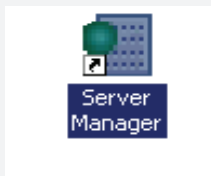
C. Software

The hybrid device will arrive with a pre-installed version of Windows 7, 32 bit and the Video Insight application with the latest version of the video surveillance software optimized for this device and any applicable cameras that may have been pre-ordered.

Once the Hybrid unit is booted and online there will be two icons on your desktop:
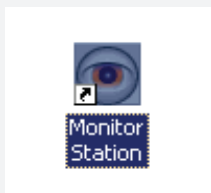
Monitor Station Client – This is the client that should be installed and accessed from other client machines when viewing video. Running this application on the server (the Hybrid unit) will max out the CPU.

It is NOT recommended to launch the Monitor Station or Web Client on the Bridge DVR , install the Client on other servers.

Server Manager – Use this utility to manage the server, refer to the comprehensive Administrator manual for details.

Each application is explained in detail below. Users may also prefer to use the Web Client using a standard browser or a mobile device; the Web Client is discussed in detail on page 100.

Please Note: Due to the inability to anticipate each camera's capabilities that are added to this server it is imperative that the software is checked regularly to ensure that cameras are recording as planned. In some instances it is possible for a camera's motion detection feature to fail; if that's the case it is recommended to set each camera's Recording Type to Record Always.

Refer to http://downloadvi.com/downloads/Documents/50admin.pdf for details regarding cameras and settings available to Administrators.
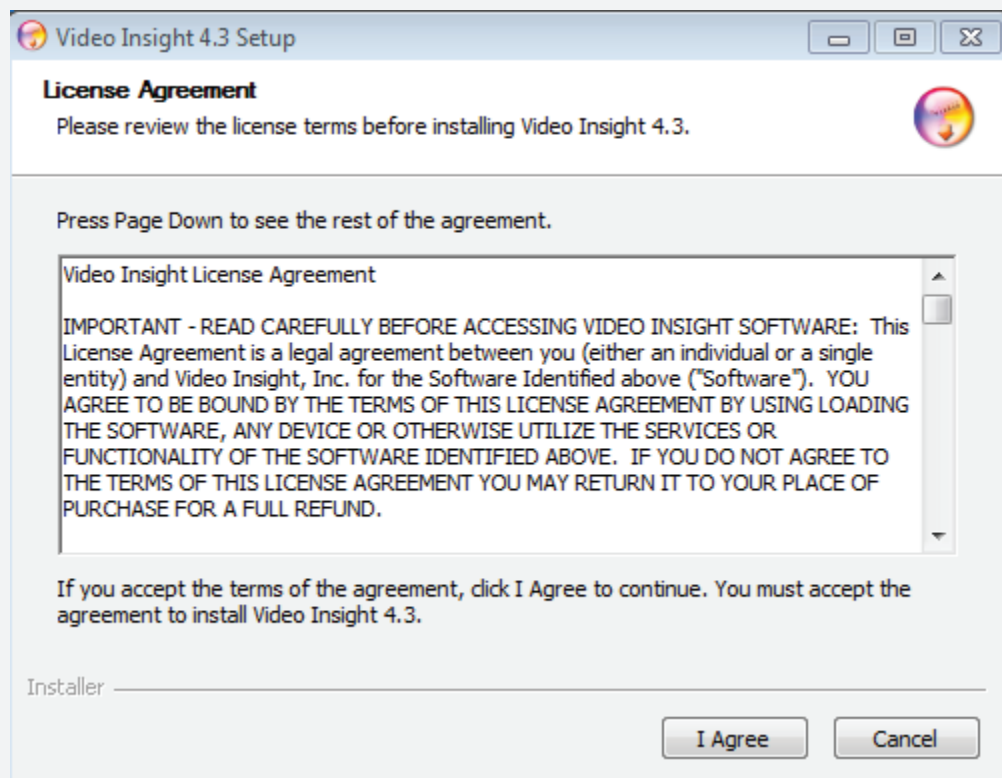
C.1 Monitor Station

The 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 from. Any Monitor Station configuration will affect the current client where that Monitor Station is installed, changes will not affect the server or any other Clients, unless Administrator Level access changes are made in Setup and Configuration notated discussed in our comprehensive manual.

C.2 Monitor Station Client Install

The Monitor Station client will be installed automatically with either the IP Enterprise Server Install OR IP Server install with Existing SQL so a client is easily accessible from the server as well. In some cases a Client only install is needed for Video Monitor personnel; if so, follow these installation procedures:

1. Double click the Setup.exe applicable to your system type: 32 or 64 bit OS, the following will appear:

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2. Click the Agree button to accept the terms and continue the installation; otherwise choose Cancel to terminate the installation. The following will appear:
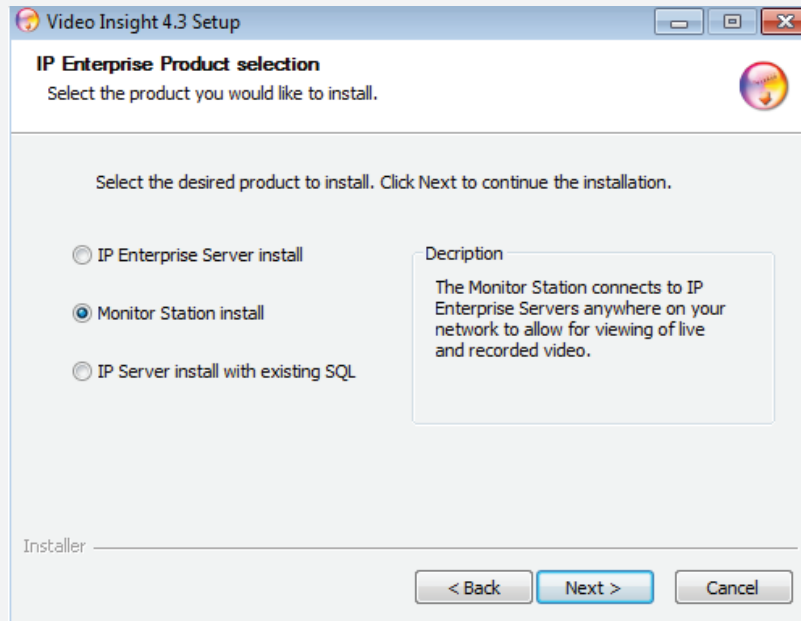

3. The second option: Monitor Station install should be selected.
4. Click Next, following will appear:
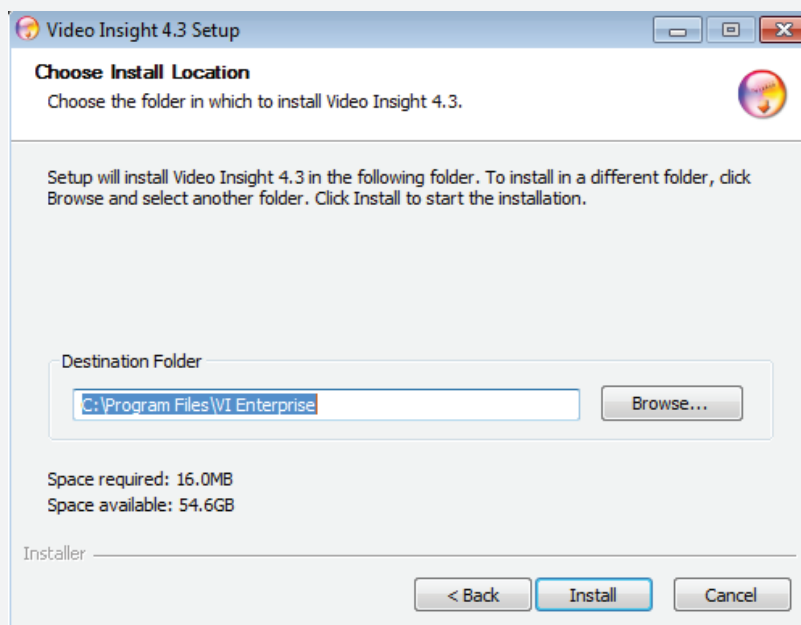
1. Enter the destination folder if different than the default by selecting Browse; most customers using a
   server with multiple drives may choose to install Programs in the D:\ location rather than
   the OS drive.
2. Click Install, following will appear:
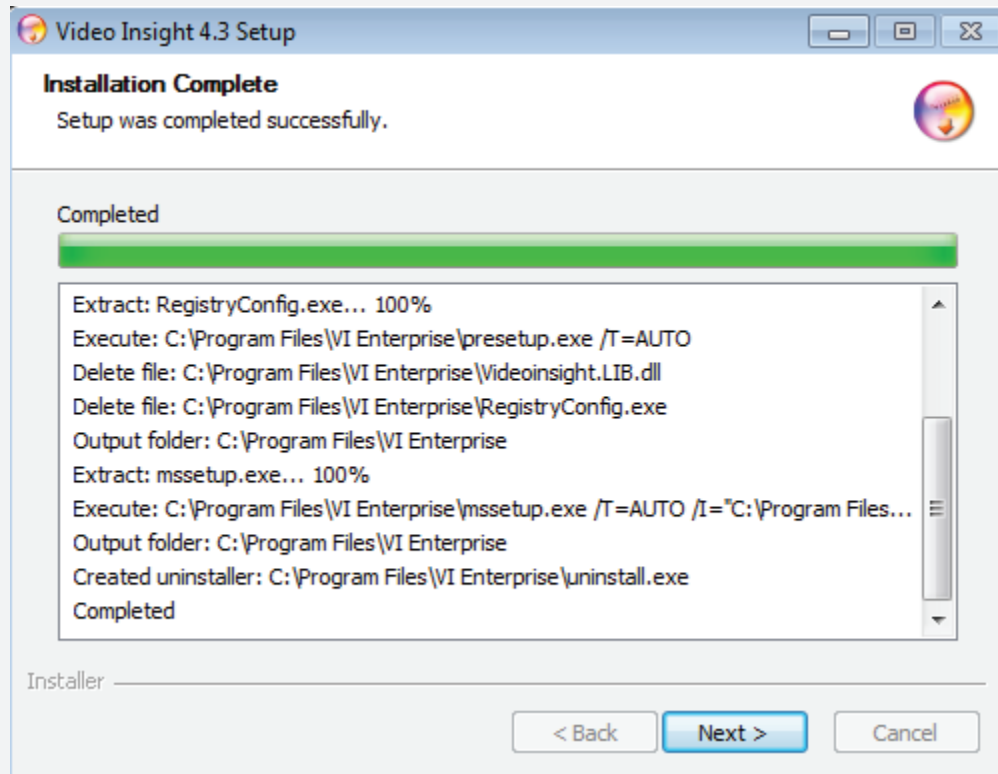
3. Click Next
4. Click Finish
5. Click Yes to the Reboot prompt
6. Monitor Station is now installed and ready to be initialized and configured.
7. Double click the Monitor Station icon on your desktop
8. Click OK to bypass the Login prompt
9. At minimum one server should be entered before the Client can be used, the following Server Setup
   pop-up will appear:
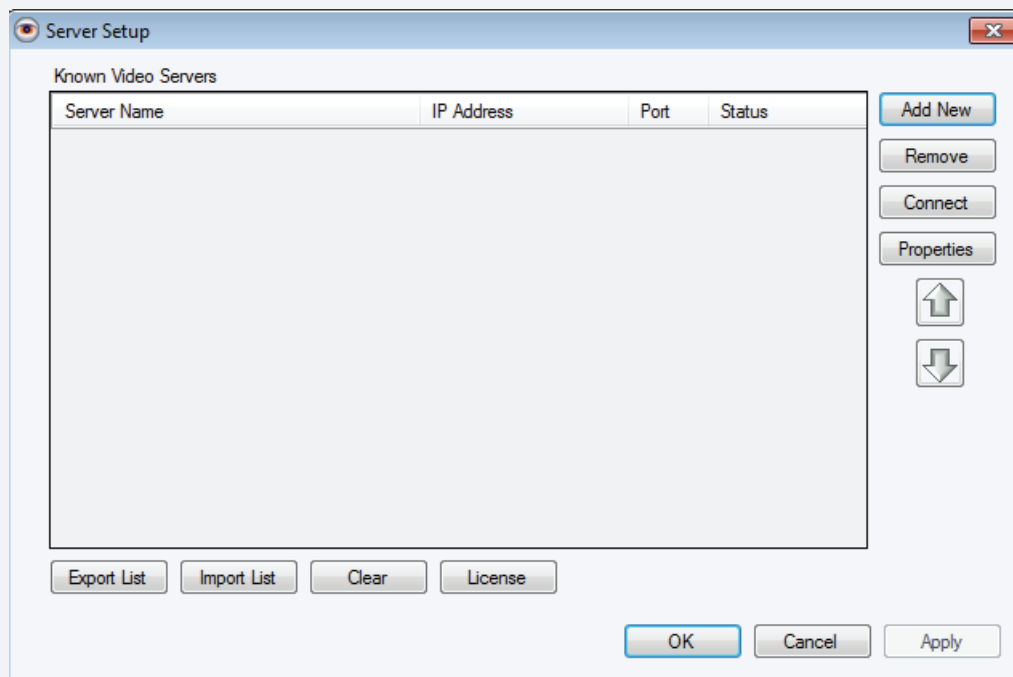
There are several ways to enter servers, you may enter one server at a time, or import a list of servers used throughout your organization; we'll cover both options below.

Please Note: The licensing structure of this device limits the number of servers that can be added. Adding more than 3 (three) servers will display the following error: "Error: Server license is exceeded."

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Add Servers Manually

1. In the Server Setup pop-up above click the Add New button
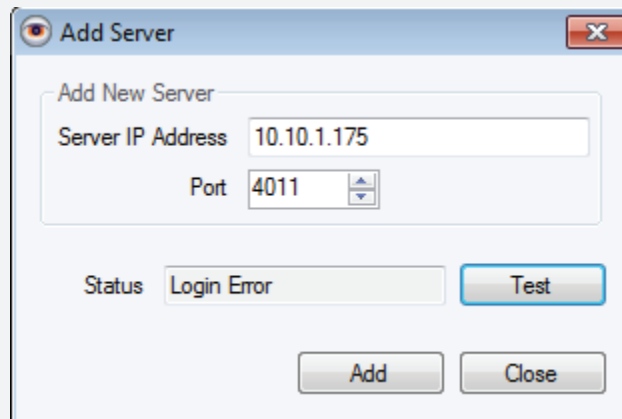
2. Enter the IP Address or name of the server to connect to; change the port if different than default.

3. Click the Test button to initiate a connection, the attempt to connect may result in one of three possible states:

Login Error: The server is found but security is on and the server attempted to authenticate with the credentials we used when login in to MS initially (Administrator/blank). The server can still be added and once added log out and back into Monitor Station with the right credentials.

No Server Found: Either the IP Address, Name, Port number or a combination is incorrect. Change the values and attempt to Test again.

Server Found: The server is found, connection was made successfully using current credentials (Administrator/blank) since security is off. The Server's name will appear in the Status field.

4. Click Add

5. Repeat steps 1-5 for any additional servers

6. Click Apply and OK

Add Servers Automatically

When the Video Insight software is used in a large organization or School Districts it is possible to have upwards of 20 or more Video Surveillance servers across multiple locations. To easily add a long list of servers at once use the import feature as shown below.

An already exported list of servers is needed; the file format should be an 'lsl' file. For instructions on how to create this file refer to the Login section on page on 20.
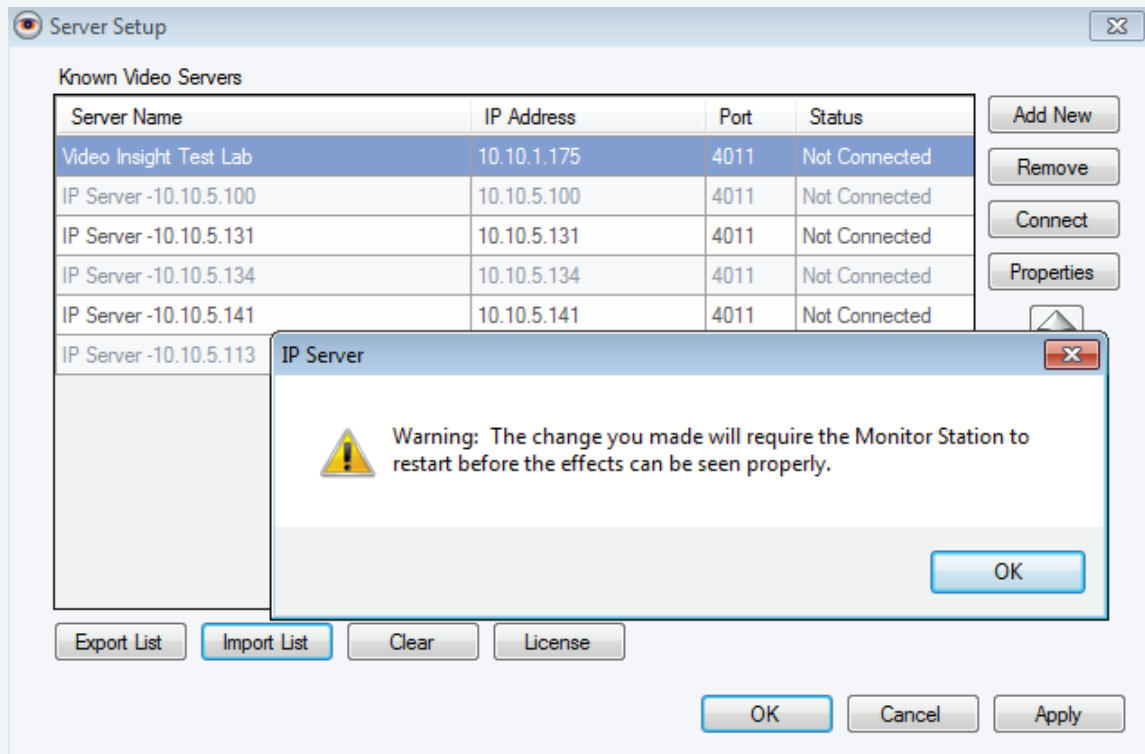
1. In the Server Setup pop-up click the Import List button
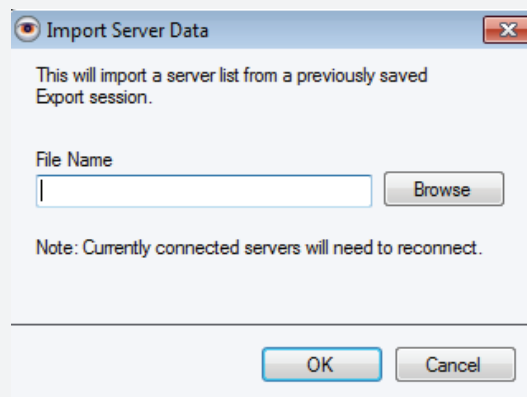
2. Browse to the location of the saved 'lsl' file as shown below:
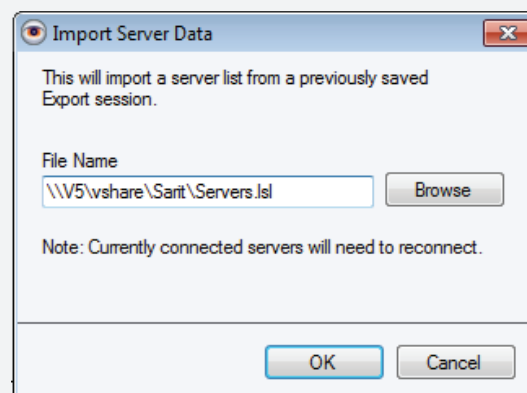
3. Click OK
4. If the file is unreadable, or not found an error will appear. Otherwise the full list of servers will now appear in the Known Video Servers grid. A prompt asking to restart Monitor Station will also appear:

5. Click OK to acknowledge

6. Click Apply and OK

7. Restart Monitor Station by clicking the Lock icon on the upper left of the main dashboard as shown here:
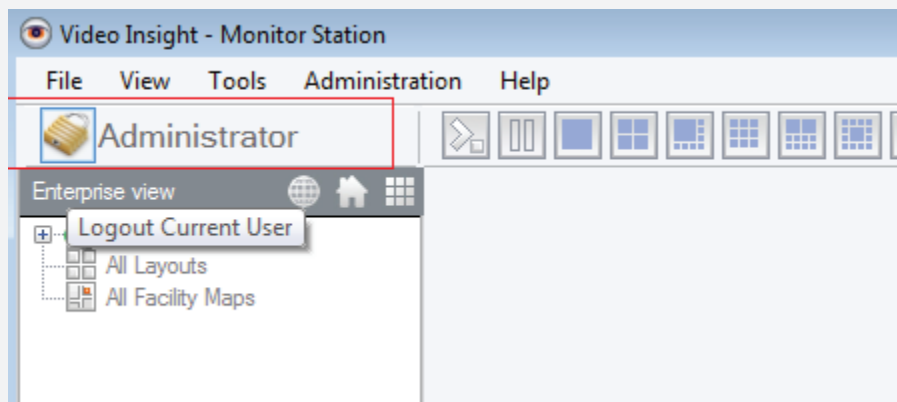

8. At the Login prompt enter the credentials to login to the desired server(s) or Click OK to bypass the Login screen without any credentials.

D. Login

Upon installation the software is installed with security off enabling login free access to the Monitor Station and Web Clients. Security can be easily turned on by accessing the Server properties as discussed in the Administrator manual.

Depending on your specific company and security specifications you may choose any one or a combination of login options currently available to you; each is explained in detail below.

1. Launch Monitor Station by clicking the Desktop icon
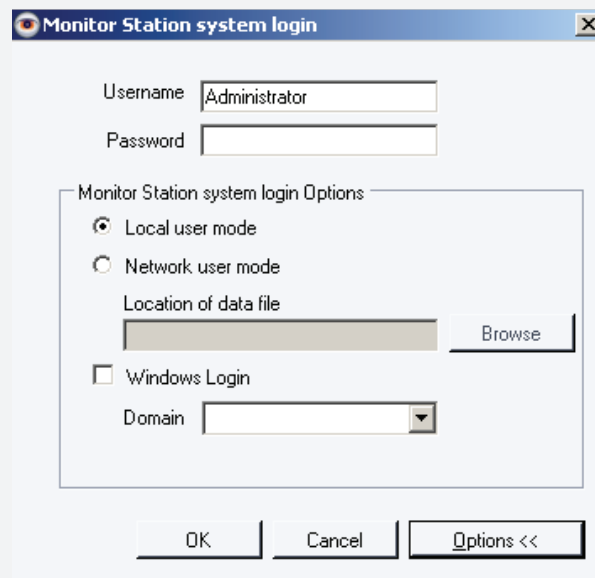
Local User Mode: The first option when selected can be used on its own or in combination with the Windows Login checkbox (discussed later). When used on its own it behaves differently depending on several settings.
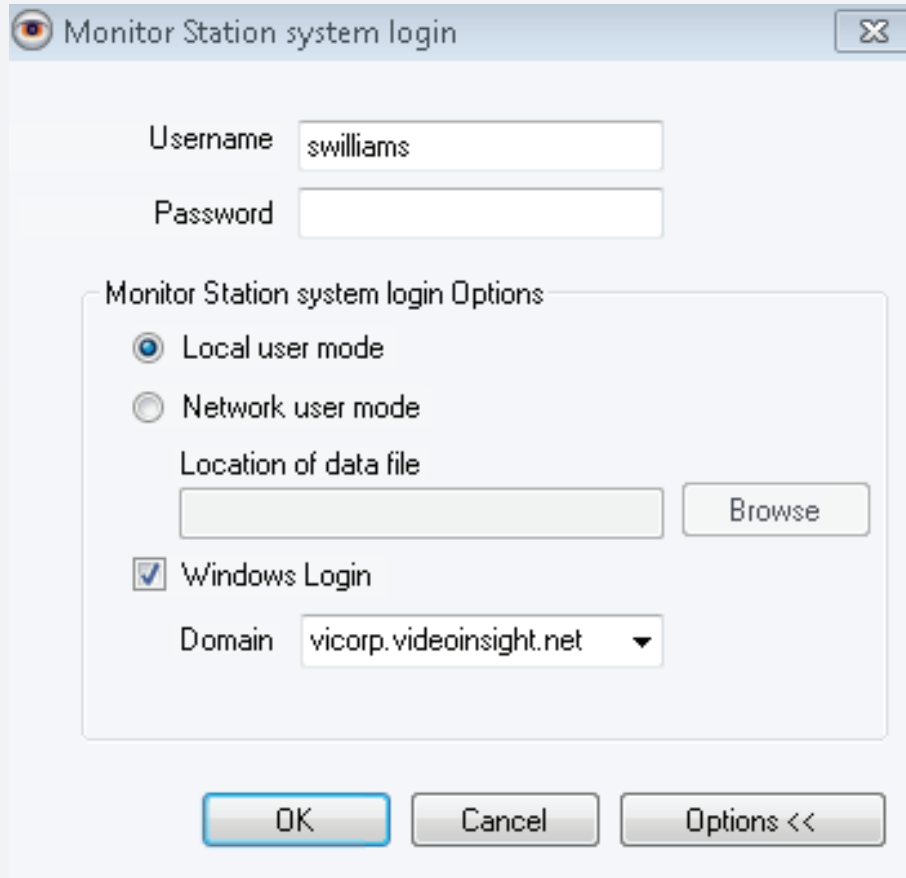
Security On: when Security is turned on for the server the credentials entered will be checked for validity against the User Manager in Monitor Station.

Security Off: when Security is not enabled for a server all logins will be accepted, any combination of

With Windows Login Check enabled: In this case it assumes that an Active Directory (AD) or an LDAP configuration has been implemented and ALL users will be authenticated against Active Directory and/or the User Manager in Monitor Station (since all AD/LDAP users are imported to the User Manager) as long as Security for the server is turned on.

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To login using Active Directory from the Login screen:

1. Launch Monitor Station by clicking the desktop icon
2. Click the Options>> button

3. Check the Windows Login checkbox
4. Select the Domain from the dropdown if not already defaulted
5. Enter the Username and Password
6. Click OK

Network User Mode: This option is very useful in large environments where there are multiple 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 Config, the following may be utilized;

In one Monitor Station add all of the servers:

1. Navigate to Setup and Config
2. Add all of the servers, one by one, to the Known Video Servers list.
3. Click Export List, save it on a Shared location
4. An ".lsl" file is created with all servers

Point all other users to Browse to that same file which will give them the latest server information each time they log in without having to manage hundreds of clients , the administrator will just need to manage that one .lsl file by adding or removing any servers at any time without affecting daily business functions.
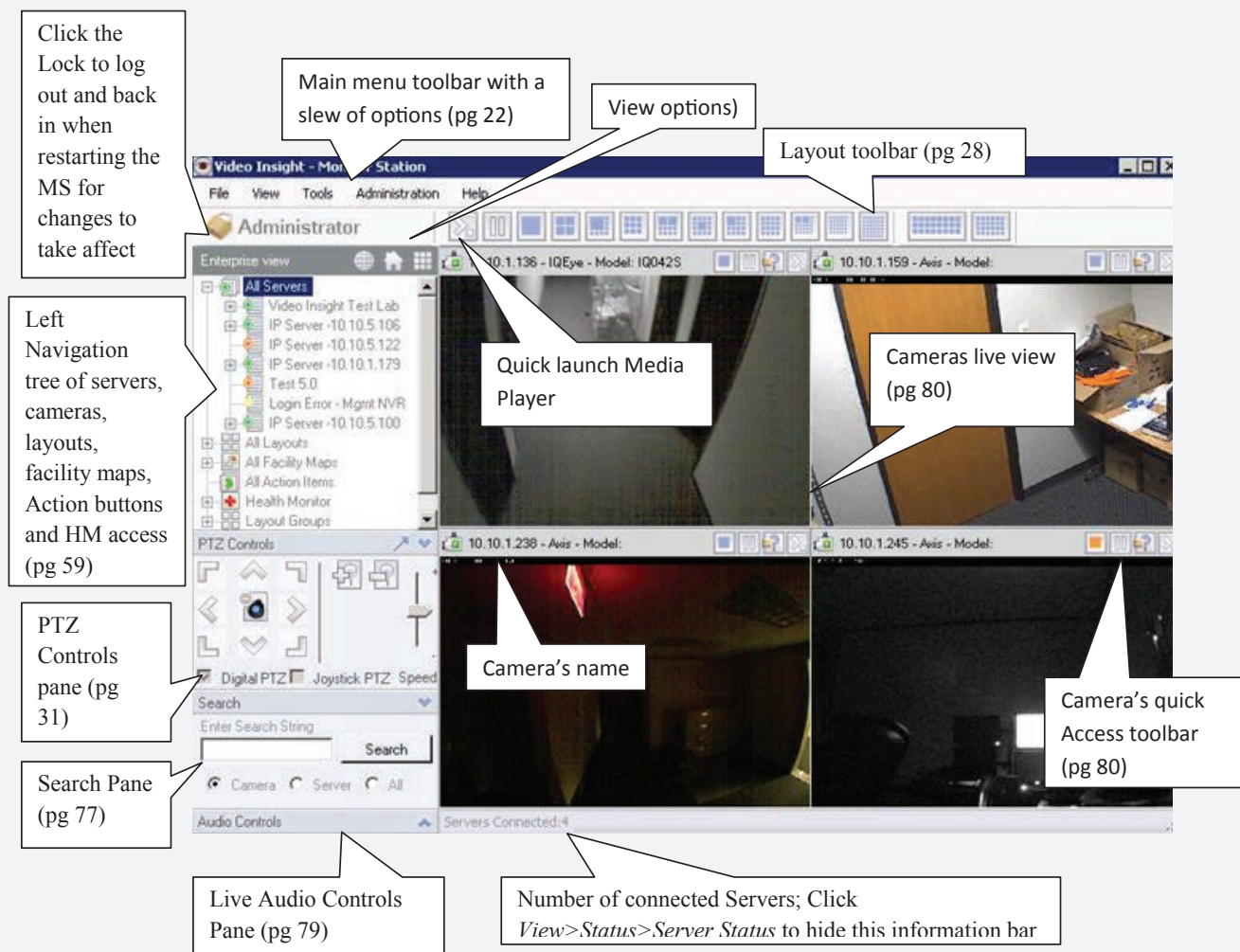
This option may also be used with Active Directory or LDAP configuration using the Windows Login Mode checkbox.

You may also bypass the Login pop-up all together with or without Security being on by setting the Auto Login option as follows:

1. Launch Monitor Station
2. Navigate to Tools>Options
3. Click the Startup Tab
4. Check Enable Auto Login

   a. With security off you may just check it; credentials are not needed
   b. With security on you must provide valid credentials.

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Main Dashboard

The main dashboard is full of functions to make daily monitoring easy and manageable. Upon launching the Monitor Station the following will appear. Each section is discussed in greater detail in the following sections.

Click the Lock to log out and back in when restarting the MS for changes to take affect

Main menu toolbar with a slew of options (pg 22)

View options)

Layout toolbar (pg 28)

Quick launch Media Player

Cameras live view (pg 80)

Left Navigation tree of servers, cameras, layouts, facility maps, Action buttons and HM access (pg 59)

PTZ Controls pane (pg 31)

Search Pane (pg 77)

Camera's name

Camera's quick Access toolbar (pg 80)

Live Audio Controls Pane (pg 79)

Number of connected Servers; Click *View>Status>Server Status* to hide this information bar

Main Menu Toolbar

The Monitor Station's main toolbar encompasses the following options: File, View, Tools, Administration and Help; each is explained in detail below.

The File menu has two selections: Media fixer used to fix corrupted video files and Exit.

File>Media Fixer

1. Click Media Fixer

2. Click Next

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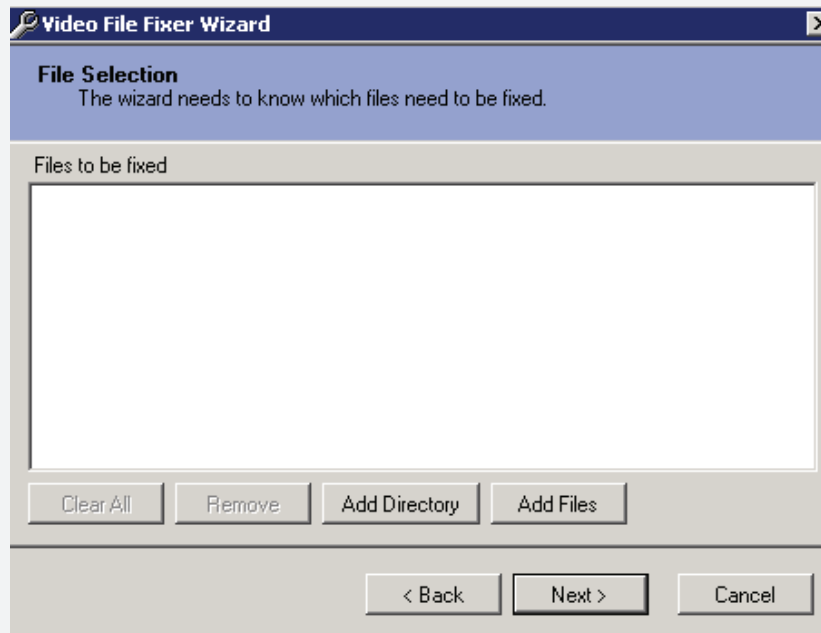
3. Choose to add single multiple files or complete folders of videos to be fixed, once added a full list of each video's path will appear as shown below:
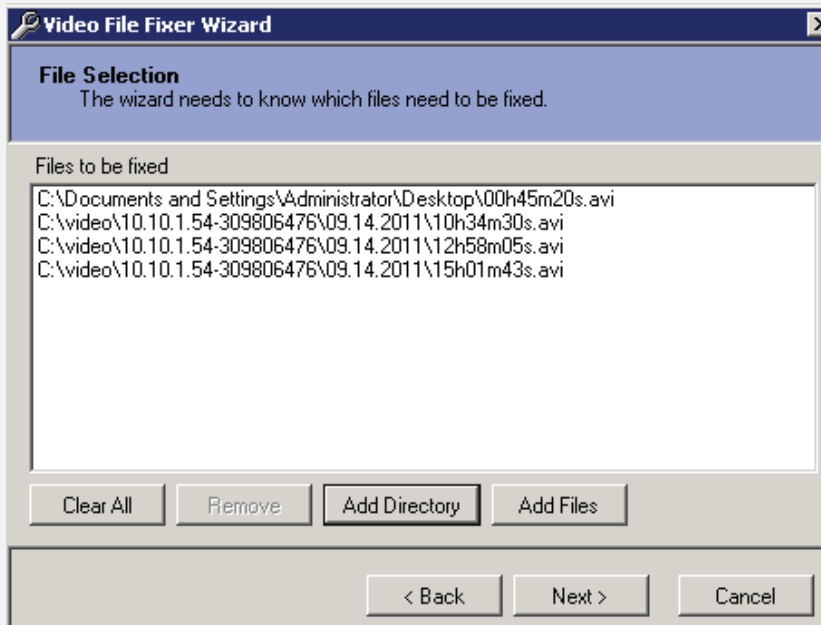
4. Click Next
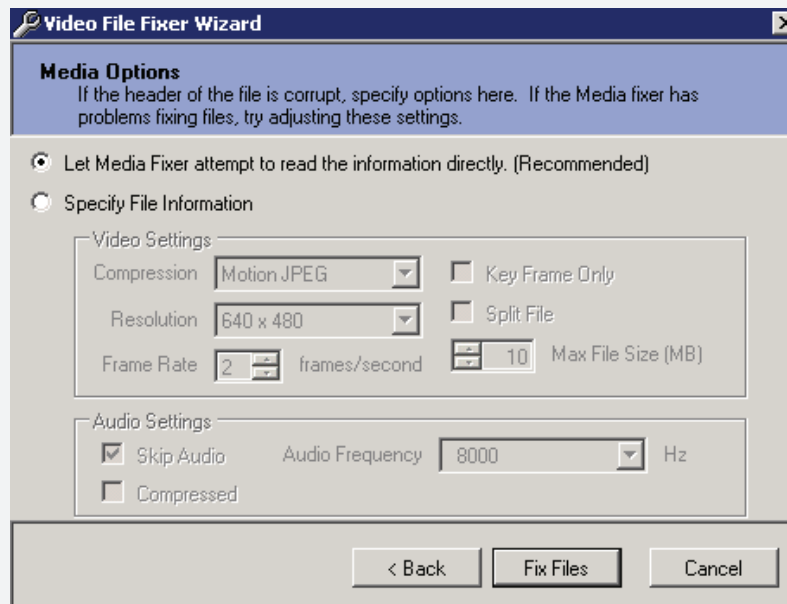
5. Leave the first option selected and click Fix Files to begin the process. If choosing the second option: Specify File Information it is recommended to provide the correct file header information as fixing it with incorrect information may render the file unusable.
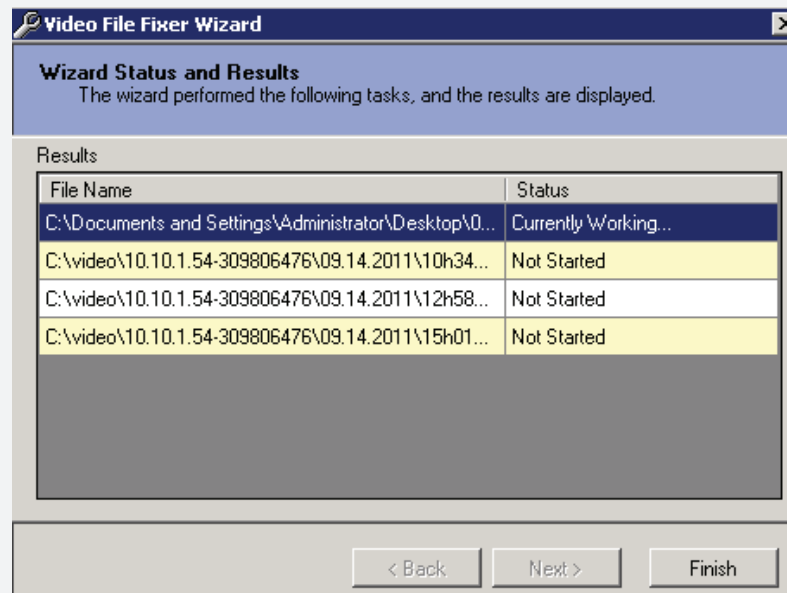
6. The pop-up will appear on the screen until all files are fixed, once complete it will include the path of the fixed file as shown below:
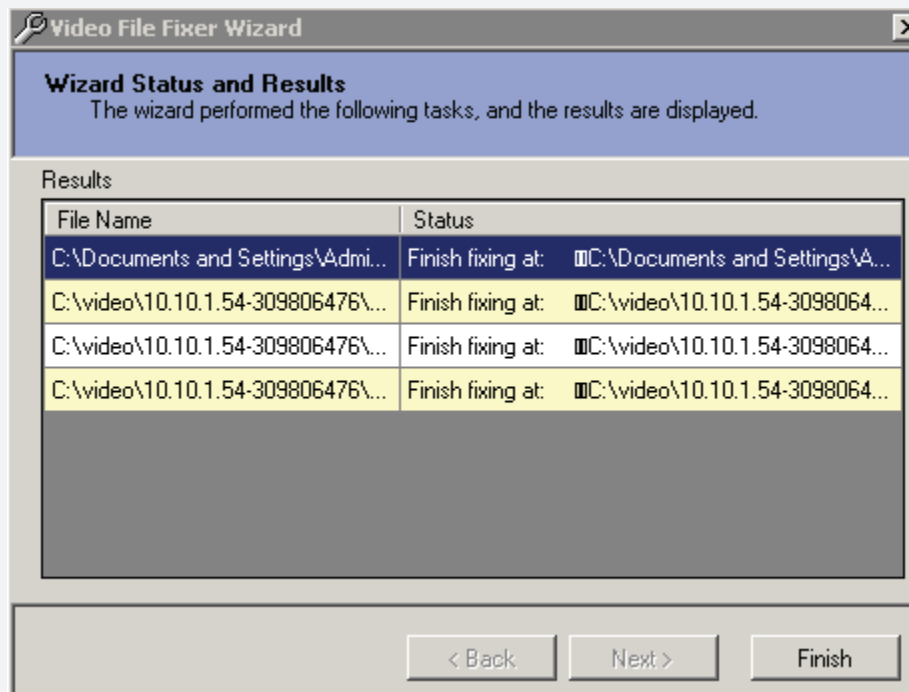
7. The word 'fixed' will be appended to the file name, the original file will still be available.

8. Click Finish to exit this utility

File>Exit

Once clicked, Monitor Station will prompt for a confirmation to exit the application. This function is exactly as if pressing the Lock Icon.
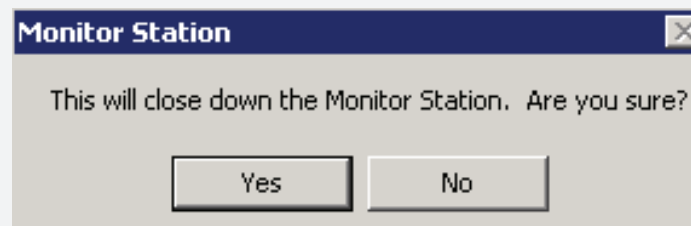
It is possible to exit the application without having to confirm by unchecking the Exit confirmation checkbox in Tools>Options>General tab.

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

View>Archive Tree

The Archive Tree option is elected by default, when unchecking it the left tree navigation will be hidden. This option is useful when wanting to view more of the monitor's real estate for the Live view streaming.

Default view with Archive Tree selected:
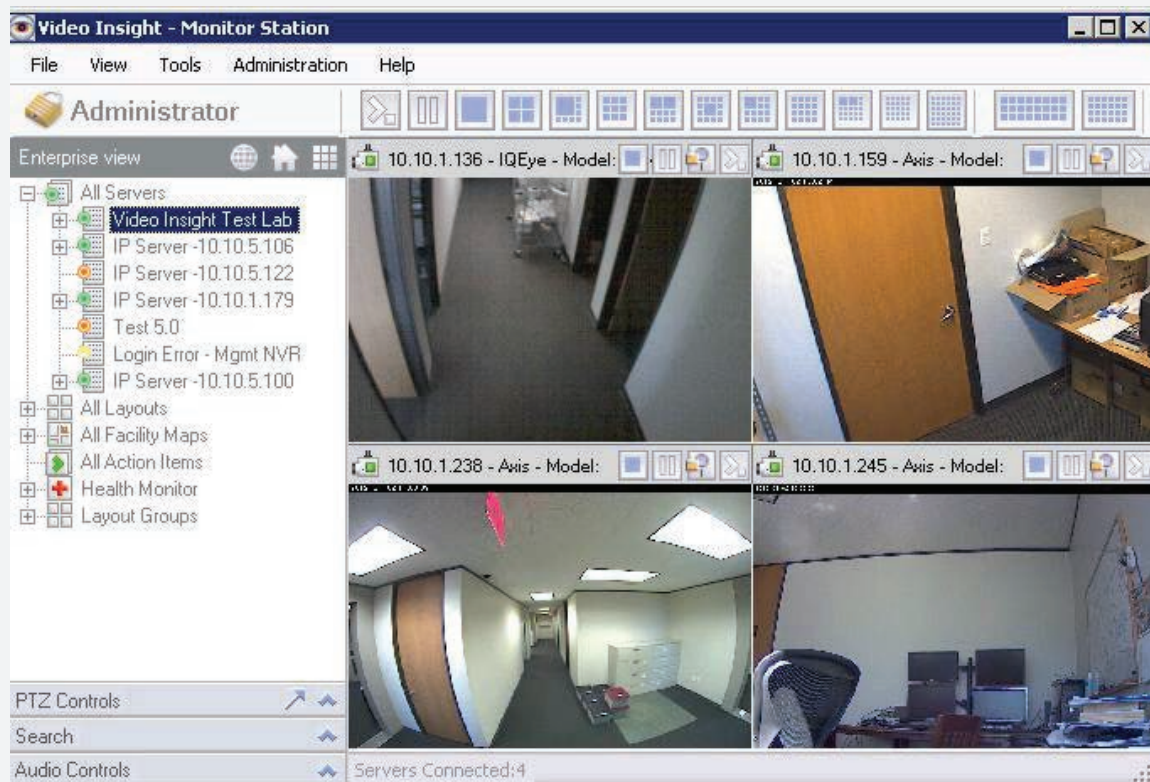
View with Archive Tree deselected:
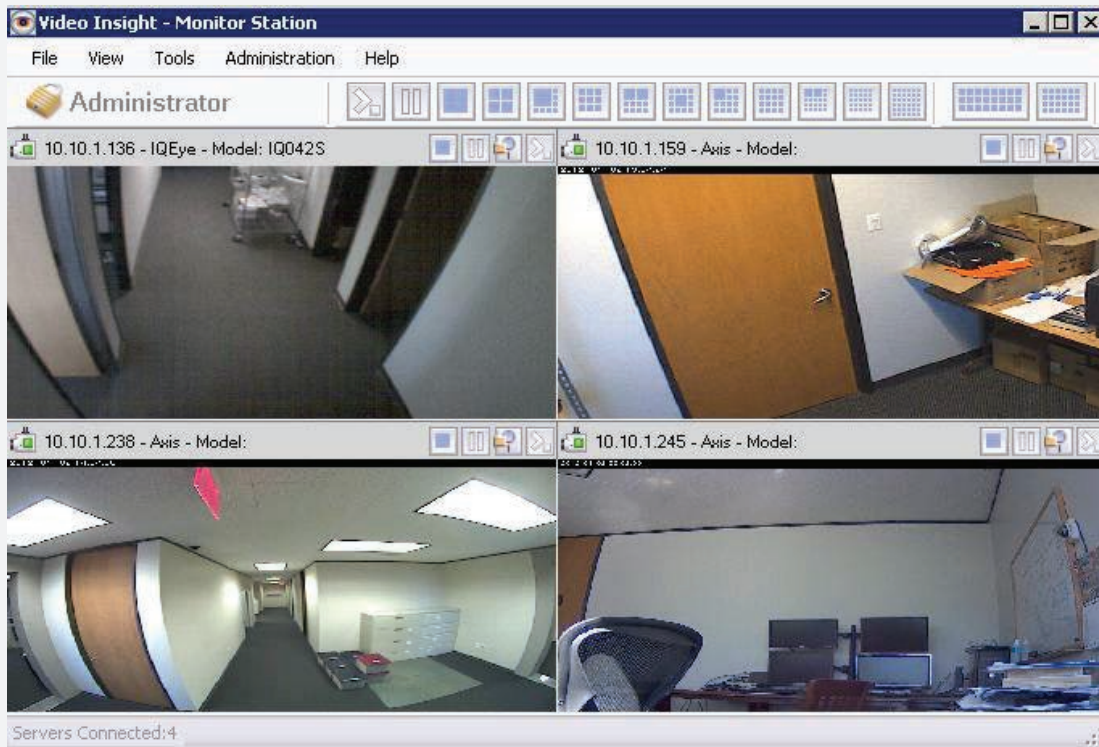
View>Full Screen

This option, also available by pressing the F11 key on your keyboard, will expand the main dashboard view to span the full size of your monitor.

View>Layout

The view Layout option will show a full list of the predefined layouts and it will change the number of cameras visible in the main dashboard view.

1 Camera Layout	F1
4 Camera Layout	F2
8 Camera Layout	F3
9 Camera Layout	F4
10 Camera Layout	F5
13 Camera Layout	F6
13 Camera Layout - 2	F7
16 Camera Layout	F8
19 Camera Layout	
25 Camera Layout	F9
36 Camera Layout	F10

Use the shortcut keys on your keyboard to change the layout

View>Mini Toolbars

The Mini Toolbars option includes Cycle Layouts and Ptz Controls standalone pop-ups that can be repositioned anywhere on your dashboard for easy access to those functions.

Cycle Layouts

Video monitors and Police Officers may be assigned to a particular area and as such may need to review only certain locations which are usually grouped by server. For example, one Monitor Station may have multiple Servers, one per campus so when doing your usual virtual walkthrough of the campus you may need to review only one server and cycling Layouts is one way to accomplish that quickly and easily.

There are two ways a user may cycle Layouts: manually or automatically. Manual Layouts cycling is done by pressing any of the predefined Layout buttons shown below:
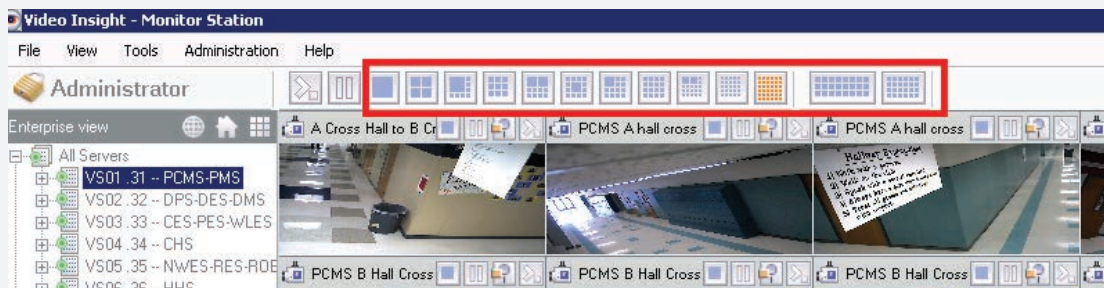
To configure the one server cycling for manual selection:

1. Access Tools>Options

2. On the General tab check the "Use tree navigation server selection for default layout buttons" checkbox as shown on the next page.

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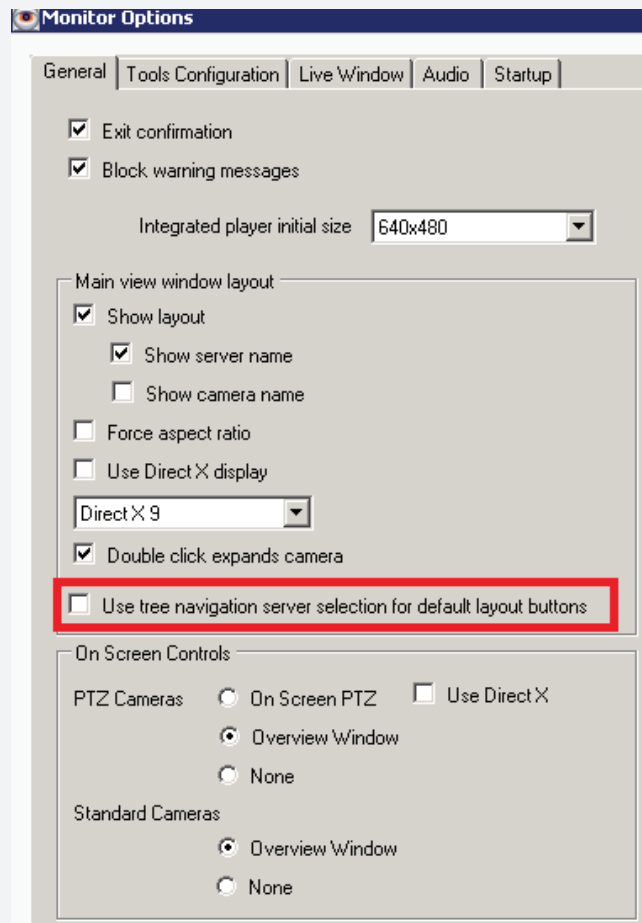
3. Log out and back into the Monitor Station to refresh the settings.

4. Select a server (it will appear highlighted) from the left navigation

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

**To configure the one server cycling for automatic selection:**

1. Access Tools>Options

2. On the Tools Configuration tab check the "Layouts cycle through current server" checkbox as shown on the next page. Checked is the default value for this checkbox.
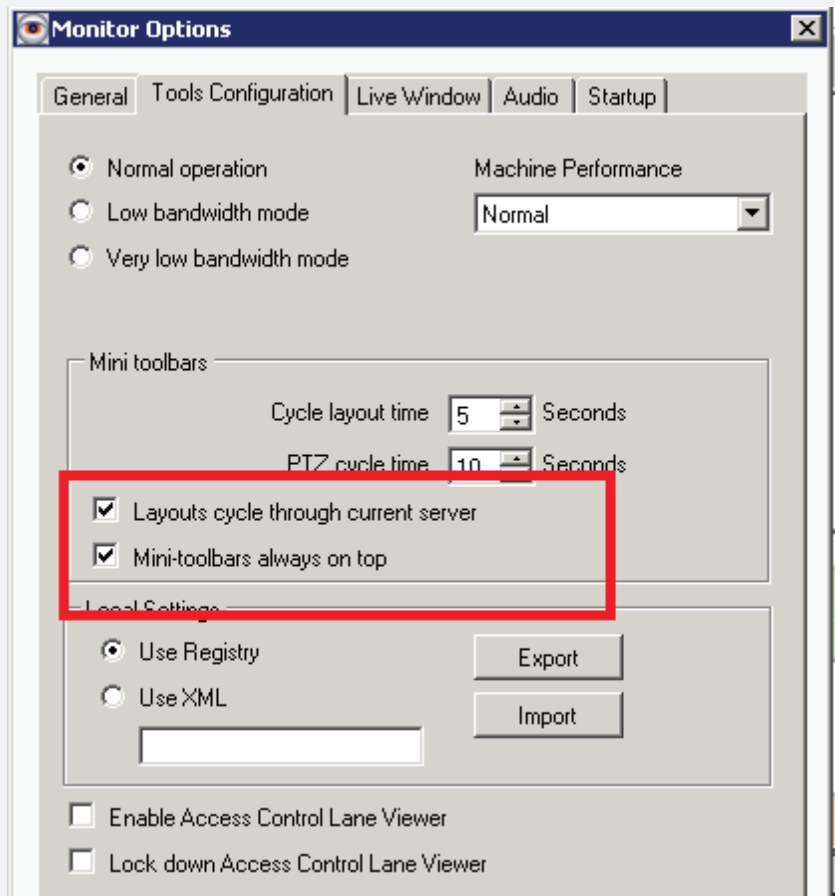
3. Log out and back into the Monitor Station to refresh the settings.

4. Click View>Mini Toolbars>Cycle Layouts

5. Click the Layout scheme of your choice and press the Play button
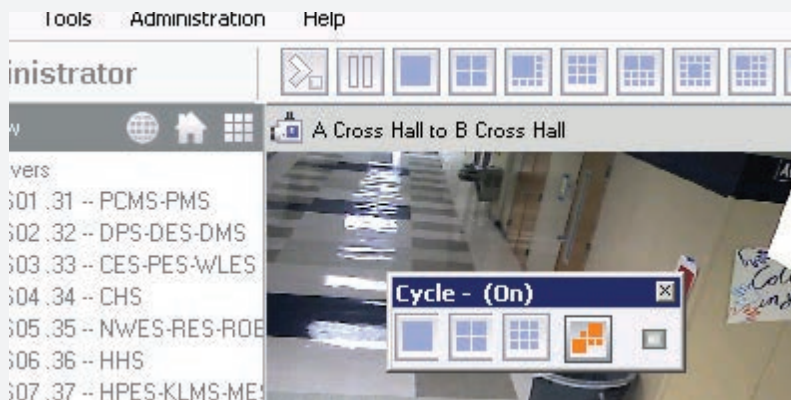
PTZ Controls

The ability to control PTZ operations for a PTZ capable camera is accessible from multiple locations in the application while offering a slight variation in capability from each location.

The View>Mini Toolbars>PTZ Controls pop-up is as follows:

Camera name

Will select the next PTZ capable camera on the server to mange

Use arrows to pan left right, up or down

Once clicked will move the camera to the next saved preset location

Focus near or far

Close or Open shutter if exists on camera
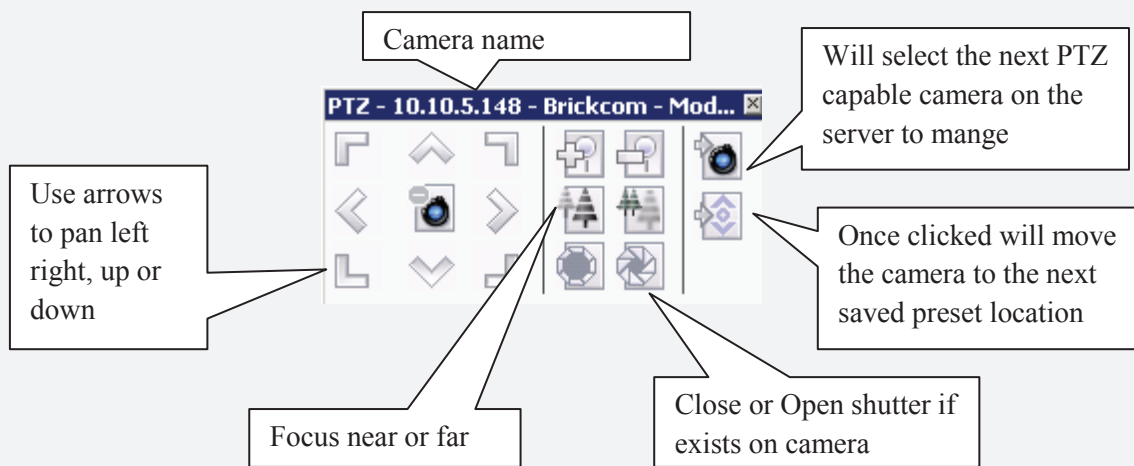
The Left Navigation Tree PTZ Controls pane is as follows:

Also called *Home* button, once pressed will return the camera to the home position if camera supports this feature. This icon will not appear if camera does not support this feature.

PTZ sensitivity slider; higher the setting the longer distance one mouse click will move. Setting it to lowest position will require multiple mouse clicks to move the camera further.

Digital Zoom

Joystick capability

The Left Navigation Tree PTZ Controls pane pop-up (click the arrow) is as follows:

PTZ Operations can also be launched using Tools>PTZ Operations

Select the server name from the dropdown

Zoom in or out

List of camera's presets

Select the PTZ camera to move. Only PTZ capable cameras will appear in this dropdown
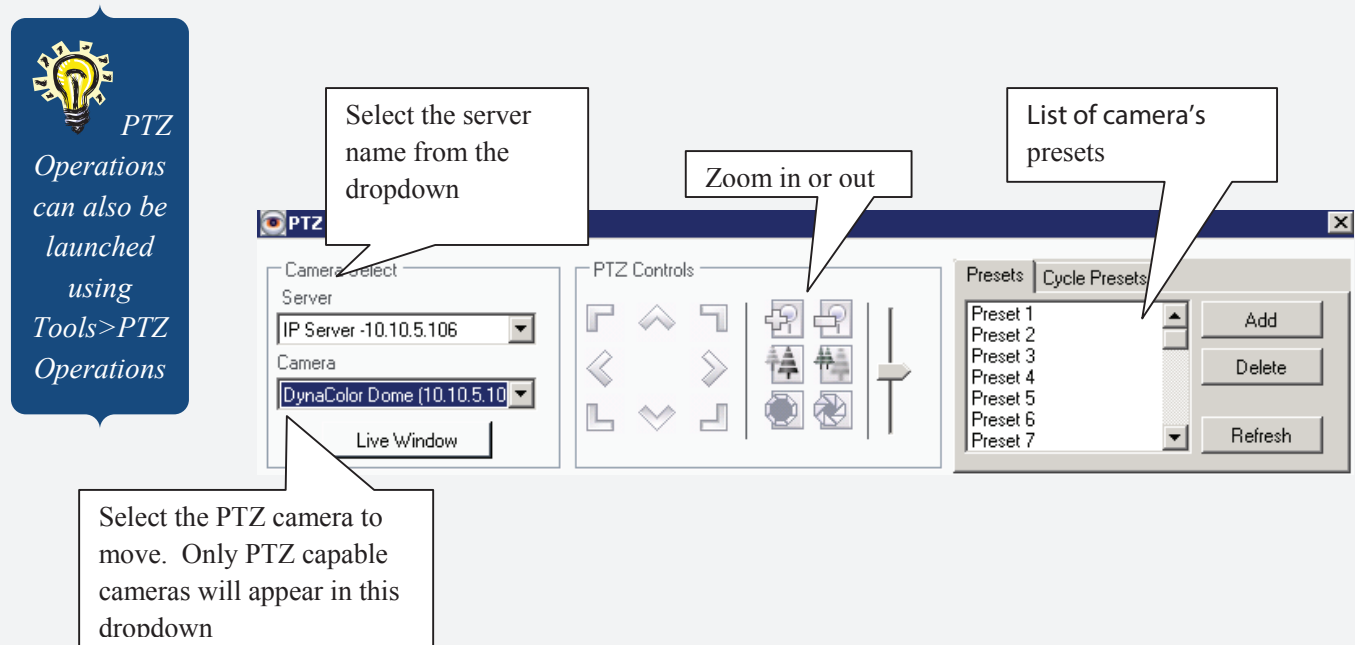
The Live Window button will launch a Live window of the selected camera, this window can be used to manipulate the live view using the PTZ controls.
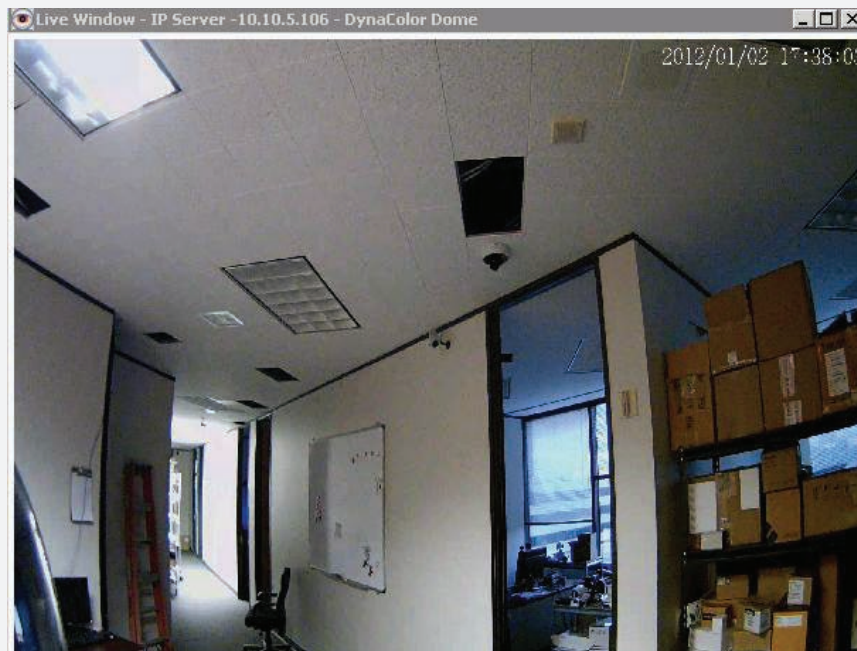
Using the PTZ Operations pop-up with its expanded features you can create and manage PTZ presets. PTZ presets are predefined views that can be used to for cycling or manually going to with a click of a button during live view from the main dashboard.

Creating a preset

1. Launch the PTZ Operations pop-up
2. Select the Server and Camera from the dropdown
3. Click the Live View button to view the camera as it is being moved
4. In the Live Window move the camera to the desired preset location
5. Click the Add button
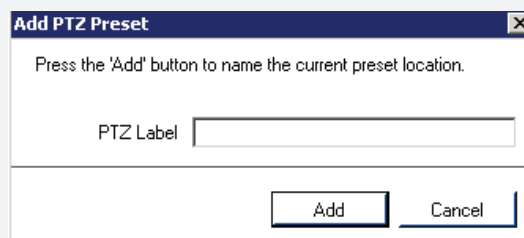
6. Enter a Descriptive name for the preset, e.g. Northwest Entrance
7. Click Add
8. The Newly added Preset will now appear in the Presets pane as shown below:
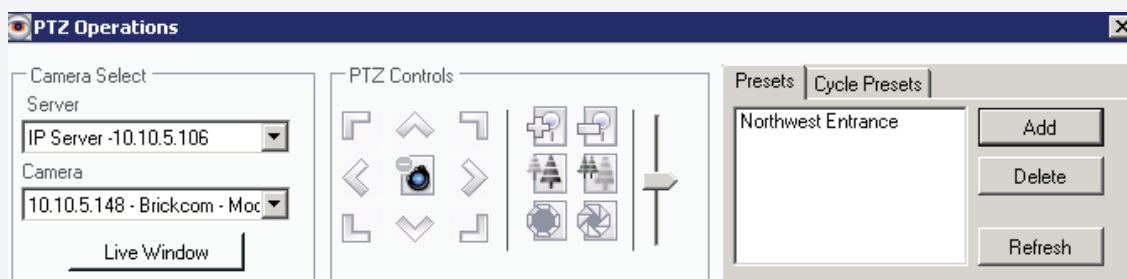
9. Continue moving the camera to the second position and repeat steps 4-7 to add as many presets as required; a maximum of 32 presets is supported depending on the camera.

To remove a Preset simply select it from the Presets pane and click the Delete button, the following confirmation will appear:
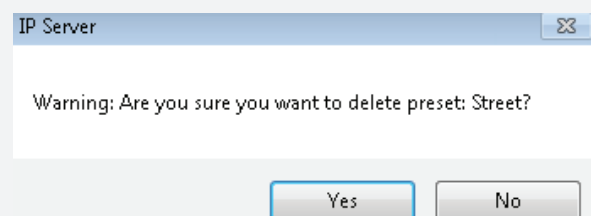
Click Yes to permanently remove it or No to cancel the operation and return to the PTZ Operations screen.

You may also cycle automatically through the recently added presets by navigating to the Cycle Presets tab and clicking the Start button.
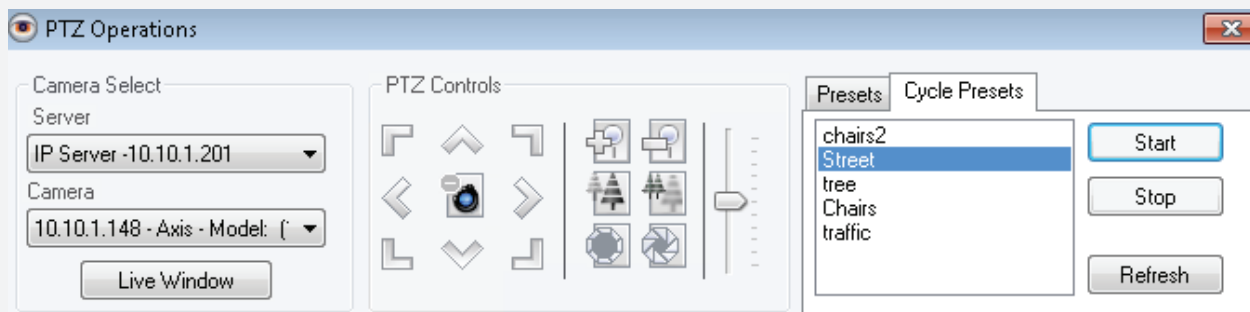
Once added Presets can also be selected from the Live view camera toolbar in the Main Dashboard as shown below:
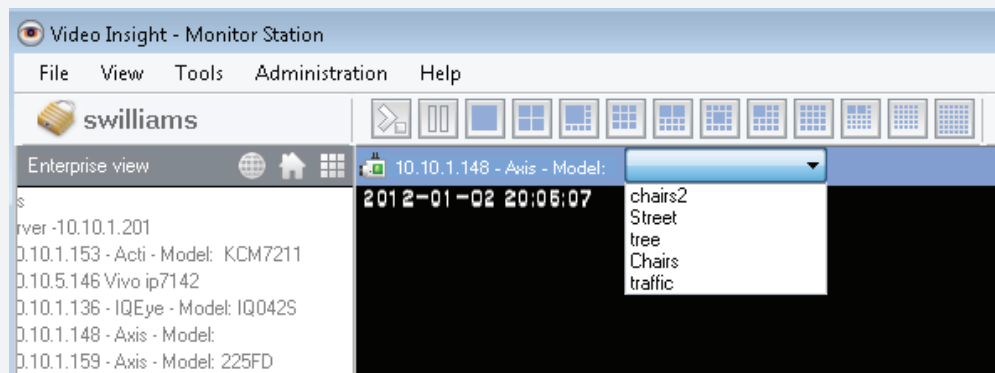
View> Toolbars

The View>Toolbars option is available to further hide additional options displayed by default in the main dashboard. Hiding them will add additional space to view the live view of the cameras.

1. Navigate to View>Toolbars
2. Notice the following three sub options are checked
3. Unchecking all three will hide the following
Main Dashboard items:

Login   Layouts   Widescreen Layouts
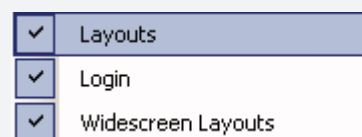
Tools>System Log

The System Log is not available to non-admin users when security is on. Otherwise please refer to the comprehensive Administrator manual.

Tools>Axis Joystick Control

This option was added specifically for use with an Axis Joystick, it replaces the need to use mouse clicks.

Once the USB joystick is connected and the option is selected from Tools the following will appear:
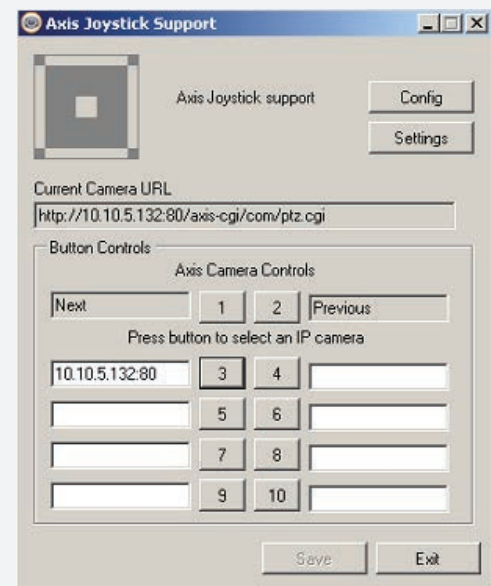
All of the Axis PTZ cameras added to any of the servers in this Monitor Station will populate above for a maximum of 10 cameras; both the IP address and port will populate.

To further customize the Joystick's sensitivity click the Settings button where Pan, Tilt and Zoom sensitivities can be set:
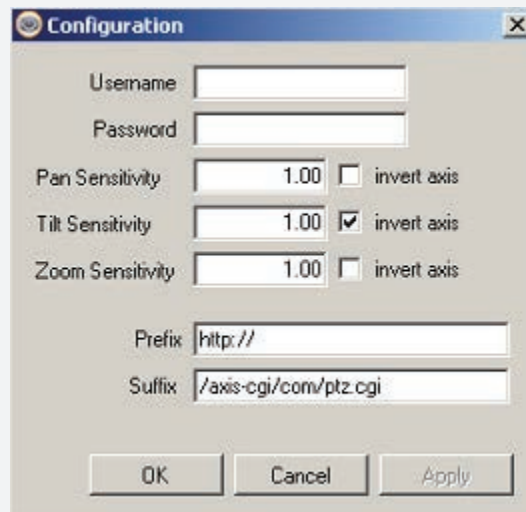
Enter credentials if the Joysticks has authentication turned on, otherwise leave blank.

Moreover, another option is added to manage any game controller's settings and firmware by clicking the Config button:
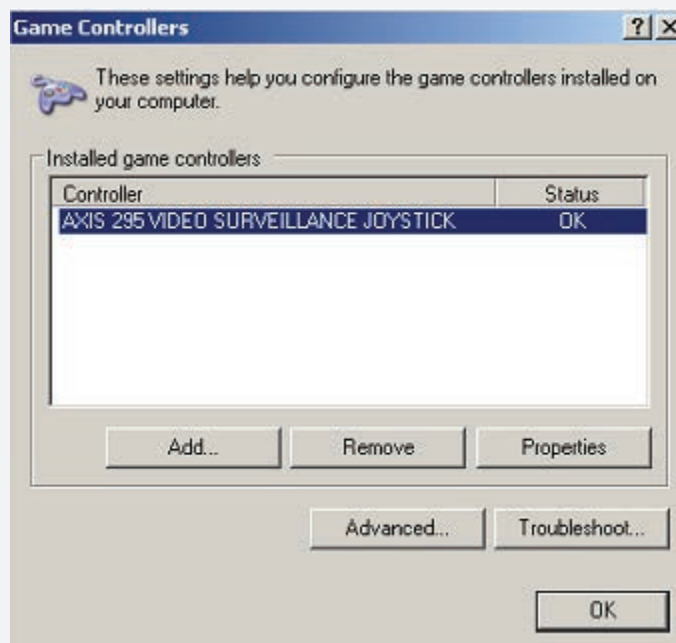
Select the controller you'd like to manage and click Properties, you may calibrate and test the controller's settings here:
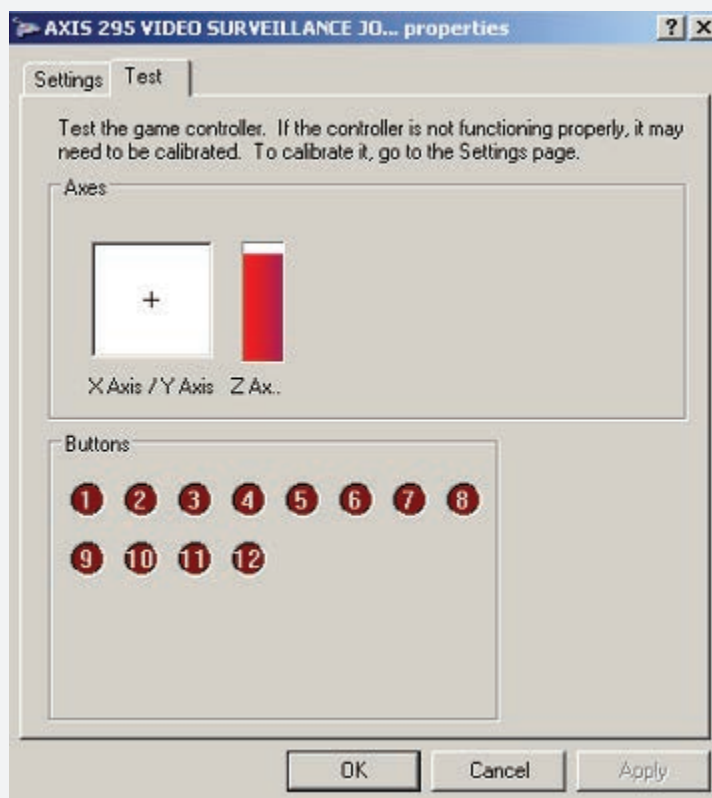
If the Tools>Axis Joystick Control option is selected without having an Axis Joystick attached the following will appear:
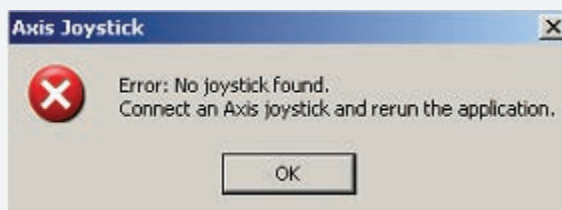
Tools>Live Window

The Live Window option is used as a free floating single or multi camera view and is another feature that is accessible from several different areas of the application with slightly different options with each method.

When Launching Live Window from the main toolbar the following will appear:

The Layouts dropdown will not appear if no Layouts exist
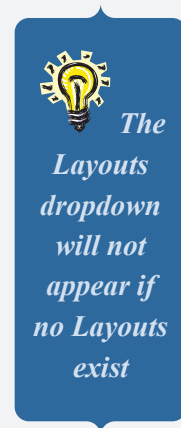
Select the Server name from the Server dropdown; once selected that server's camera(s) will become available for selection from the Camera dropdown. In addition, all Layouts for all servers in that Monitor Station will become available in the Layouts dropdown.

The red outline shown above is used to signify motion was detected on this camera. To remove this red outline motion indicator simply uncheck the Red Outline on Live Window option in Tools>Options>Live Window tab.

Tools>Media Player

The Media Player is a standalone Video Player created by Video Insight with many capabilities and is built in to Monitor Station. The Media Player is discussed in detail in Media Player section found on page 87.

Tools>PTZ Operations

The PTZ Operations pop-up and its many features are discussed on page 31.

Tools>Synchronized Player

The Synchronized player allows for multiple camera synchronized playing and this stand alone application is discussed in detail in Chapter 8 on page 95.

Tools>Options

The Options pop-up is additional configuration aimed at personalizing your Monitor Station. Each tab is explained in detail on the next few screens.

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General Tab
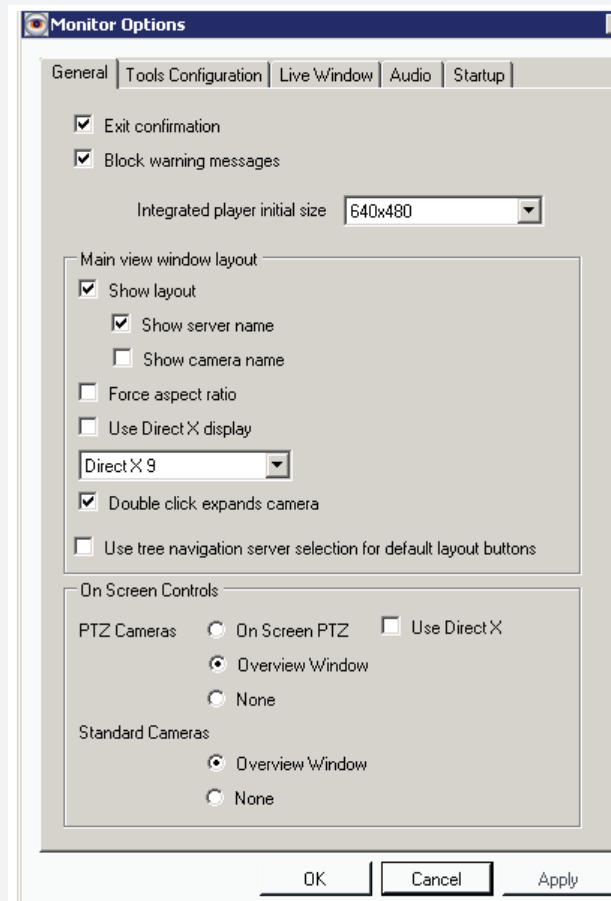
Exit Confirmation: This checkbox is checked by default and once a user closes Monitor Station or restarts it will show the following pop-up, to avoid seeing this message simply uncheck this box.
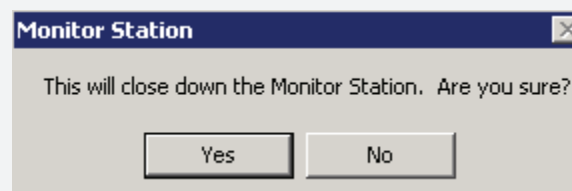
Block Warning Messages: Warning messages in Monitor Station include pop-ups informing you of cameras when they lose connectivity and when the connection is restored as well as any disk write errors that may occur. To avoid seeing these informational pop-ups simply check the box to prevent them from appearing.

Integrated Player Initial Size: The Integrated Player size is the size of the player when playing files from the Main Dashboard; changes made in this dropdown do not affect Media Player player size. Choose a size your Monitor will support: 320x240, 400x300, 480x360, 560x420, 640x480, 720x540, 800x600, 960x720, 1080x810, 1280x960, 1440x1080, and 1600x1200.
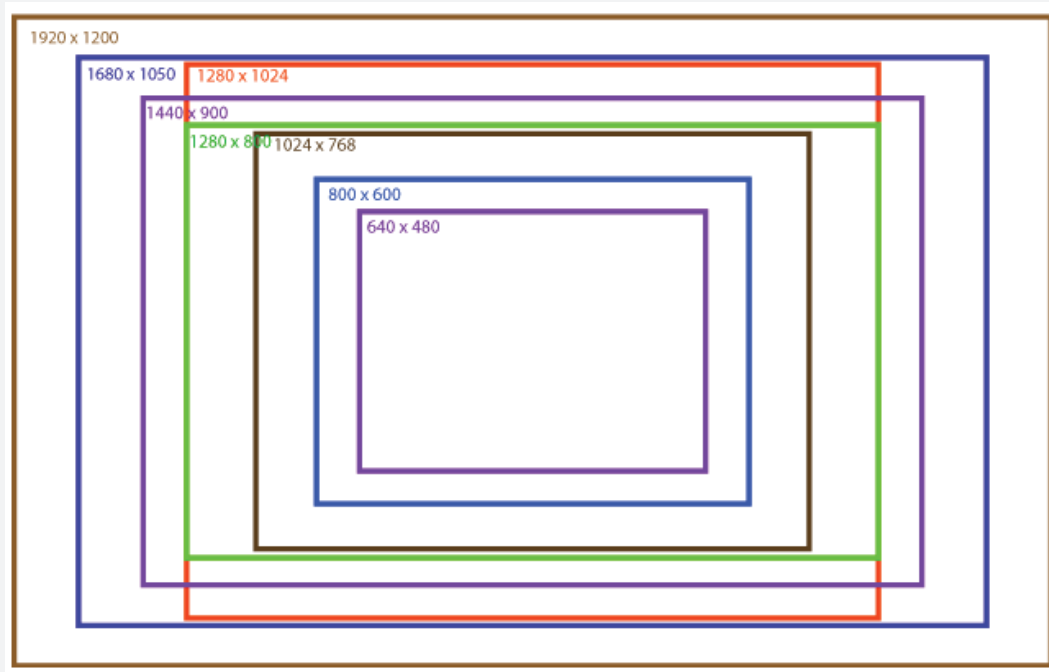
Show Layout: This checkbox, which is checked by default, determines whether the camera's toolbar in Live view will display or not. When unchecked more of the screen is used to view the live image of the camera(s) rather than displaying the camera information.

With it checked it will display as follows, notice the red rectangle

Choose a player size that can be supported by the size of your Monitor and screen resolution; otherwise you will NOT see the Controls bar at the bottom of the player

Unchecked it will appear as follows, notice no camera headers are displayed:
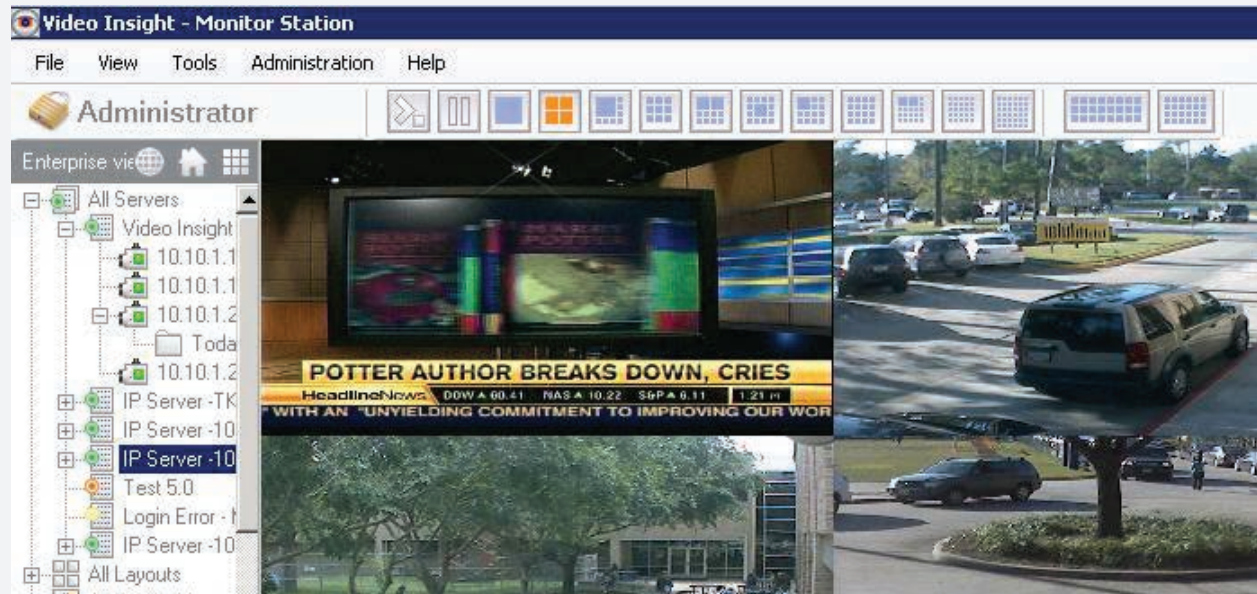
Force Aspect Ratio: This checkbox is another customization aimed at displaying the best layout for your monitor's screen resolution and Monitor size. With force aspect ratio checked all of the live images will be forced to a 4:3 size in the main layout. This option will not affect the Live Window pop-ups. Here is a sample of the view:

Use DirectX Display: This checkbox gives users the opportunity to save on CPU usage by attempting to use DirectX rather than the onboard graphics card installed. When selecting this option, the correct version of the installed DirectX should also be selected: DirectX 7, 9 or Legacy which is older than version 7.

If the DirectX version selected is NOT available on this machine a "Cannot Initialize renderer (0x80040273)" will appear. Select a different version of DirectX or simply uncheck the option.

Show Server Name: When checked (default) it will display the server name in the camera toolbar in the main view as well as Server and Camera Live window pop-ups. The show Layout checkbox must also be checked for this information to appear.

> *This capability will affect only the first 4 cameras in live view and in layouts*

Show Camera Name: When checked (default) it will display the camera name in the camera toolbar in the main view as well as Server and Camera Live window pop-ups. The show Layout checkbox must also be checked for this information to appear.

Double Click Expands Camera: This option gives you the ability to specify whether a single or double click is required to expand the camera in the left navigation tree to show recordings. If Double Click is selected, then a single click on the camera name merely shows 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. To learn more refer to Cycling Layouts on page 28.

On Screen Controls for PTZ Cameras: There are three options to select from:
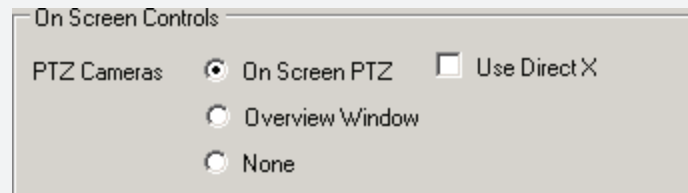
The *On Screen PTZ* is the defaulted selection; it will superimpose directional arrows on the view for PTZ Cameras to signify a PTZ camera was selected in live view on the main dashboard.

If the Overview Window option is selected it will show a magnifying glass as a cursor in the live view. Draw a square with the cursor on the area you'd like to zoom to. Here is a sample view once the square shape has been drawn:
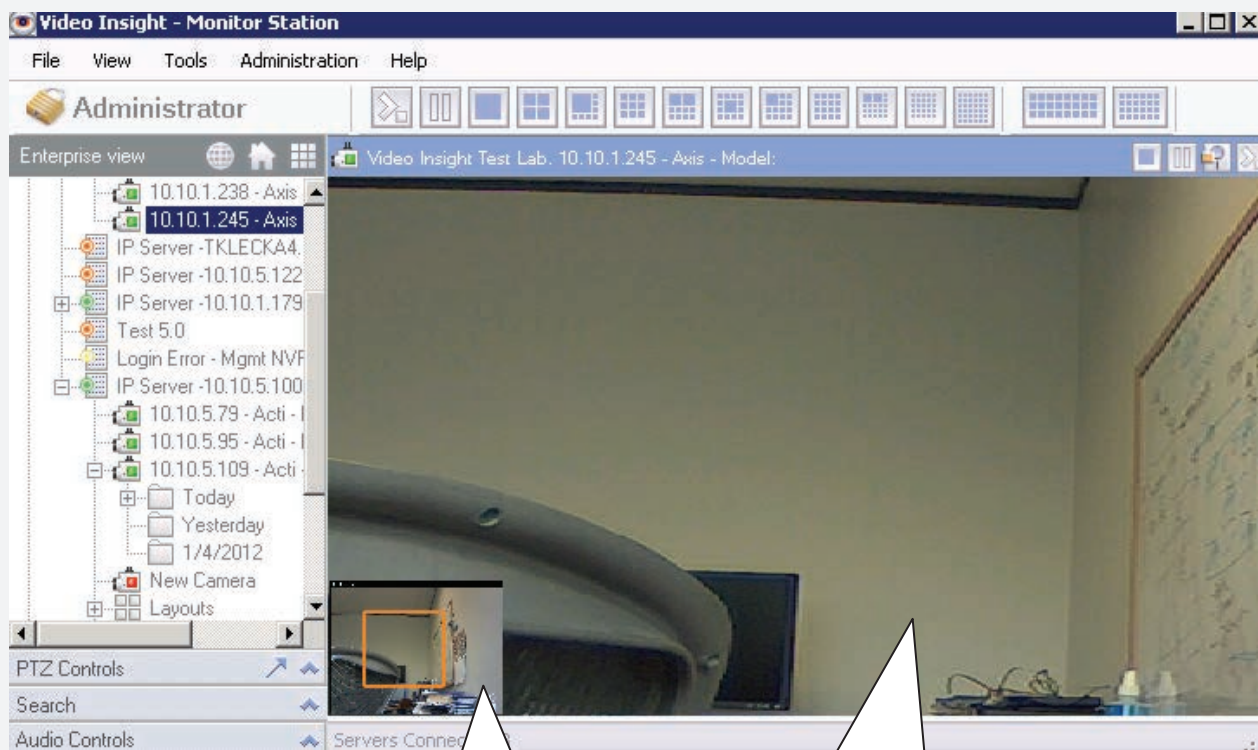

Overview Window of full camera view

Zoomed in area; to move it drag the orange square within the Overview Window
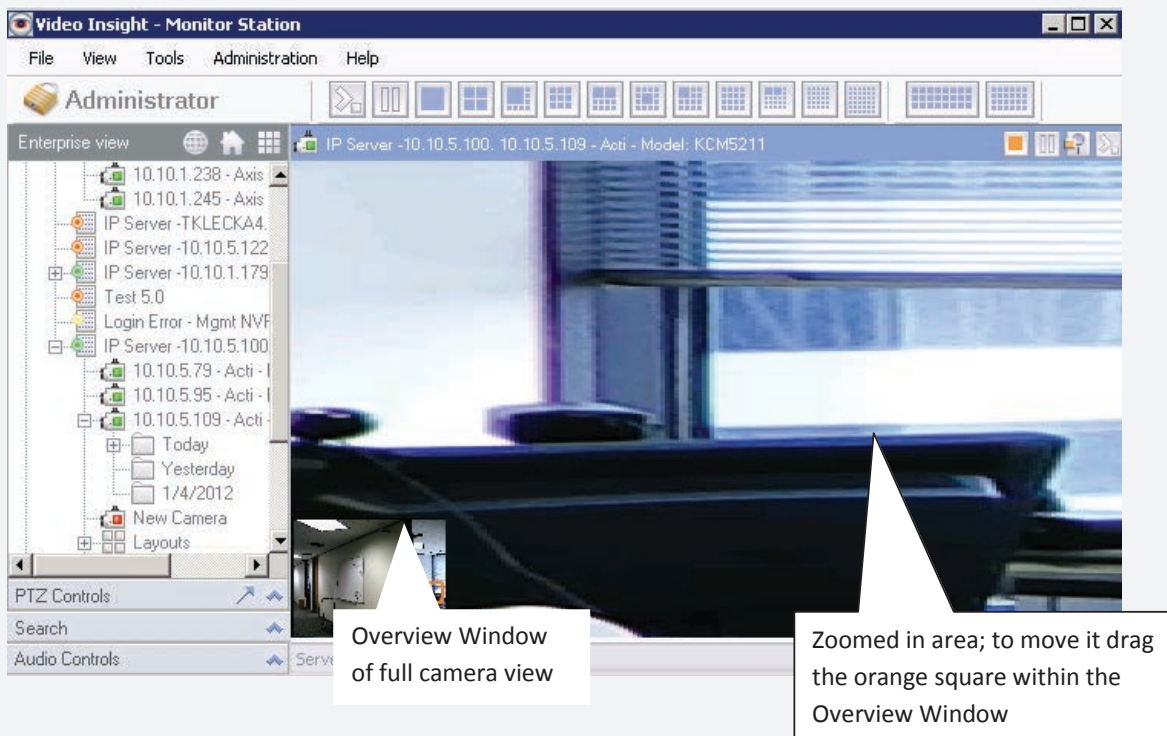
The None option will not display any special cursors for PTZ cameras and for PTZ only the PTZ controls pop-up should be used found in the left navigation.

On Screen Controls for Standard Cameras: There are two options to select from:
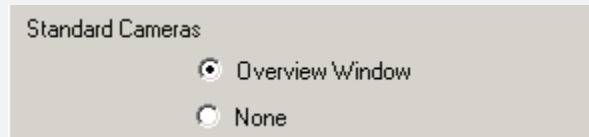
The default Overview Window option will show a magnifying glass as a cursor in the live view. Draw a square with the cursor on the area you'd like to zoom to, for standard non-PTZ cameras a digital zoom would be used. Here is a sample view once the square shape has been drawn:

Overview Window of full camera view

Zoomed in area; to move it drag the orange square within the

The *None* option will disable the ability to digitally zoom in live view for non-ptz cameras.

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Tools Configuration Tab
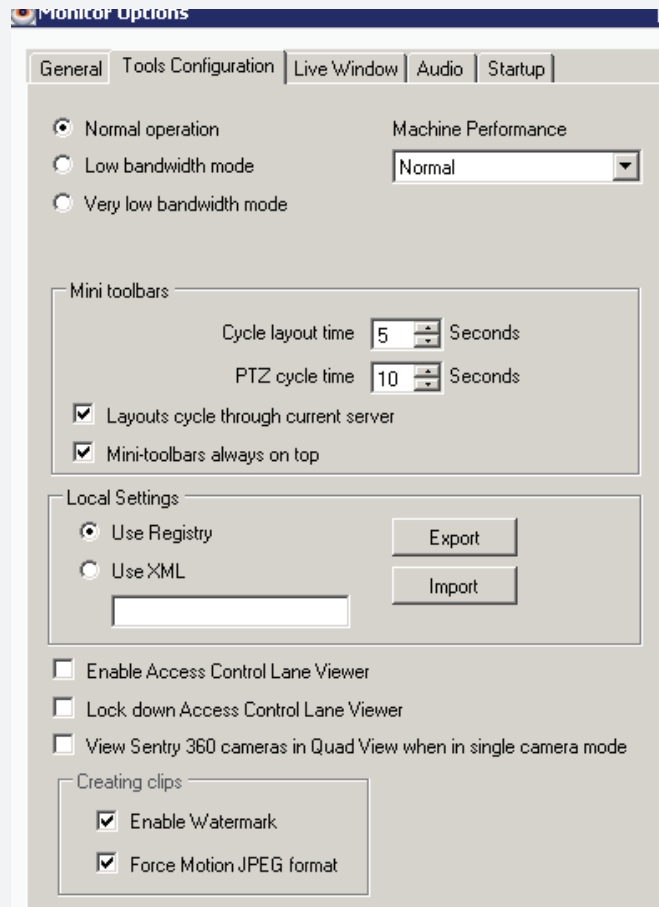
There are three options available to optimize the live view performance in Monitor Station depending on the bandwidth available at your organization.

Normal Operation: will use all available resources to display the best live streaming, however, should network bottleneck occur it will be visible in live view; select this option for clients that have very good connectivity and thus you want to stream at Normal which will send all images as uncompressed MJPEG.

Low Bandwidth Mode: In Low bandwidth mode if you are viewing multiple images on a screen it will compress those images but if you switch to a single image it will send that image as uncompressed.

Very Low Bandwidth Mode: The difference between Low bandwidth mode and Very Low Bandwidth Mode is somewhat subtle. In Very Low bandwidth mode, all images will be compressed regardless of whether you're viewing multiple or a single image. Choose this option for clients with poor connectivity.

The Machine Performance dropdown has 3 options to improve live streaming when in multiple camera views; specifically 9 and above layout views.

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

Workstation: When selecting this option expect the Monitor Station to use approximately the same CPU than in the Normal mode when in 4 camera layout and a higher performance of live streaming. Once 9 camera layout you will see an increase in CPU since more cameras are visibly streaming and of course better live performance.

High Performance: When selecting this option expect the Monitor Station to use the most CPU to deliver the smoothest live view (16 camera layout and higher); a powerful machine with a strong processor is recommended for this option.

Mini Toolbars for cycling layouts section is covered in greater detail in to Cycling Layouts on page 28.

Local Settings: Once Monitor Station is configured to your liking you have the option of exporting those settings using two different methods:
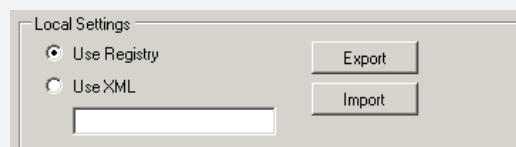
1. Select Either Registry or XML
2. Click Export, the following will appear
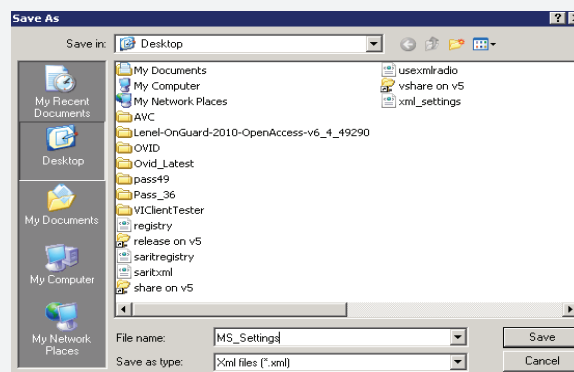
3. Enter a name for the file and choose a save location from the dropdown

4. Click Save

Here is a snippet of a sample file

```
<?xml version="1.0" standalone="yes" ?>
- <NewDataSet>
  - <Table1>
      <Key>LocalServerItem</Key>

        <Value>Zj+MzOm4ntVS8qCxIy9l4OIM/YAM2+K2
    </Table1>
  - <Table1>
      <Key>ExitConfirm</Key>
      <Value>1</Value>
    </Table1>
  - <Table1>
      <Key>StandardSecurityLevel</Key>
```

The Exit Confirmation checkbox value is true in this exported settings file

The file may be used to configure other clients by clicking Import button above and selecting the file previously exported.

Enable Access Control Viewer: This option is for our Blackboard integration

Lock Down Access Control Viewer: This option is for our Blackboard integration

View Sentry 360 Cameras in Quad View When in Single Camera Mode: When unchecked Sentry 360 cameras include multiple views: Full image, Quadview and a panoramic view as seen below:
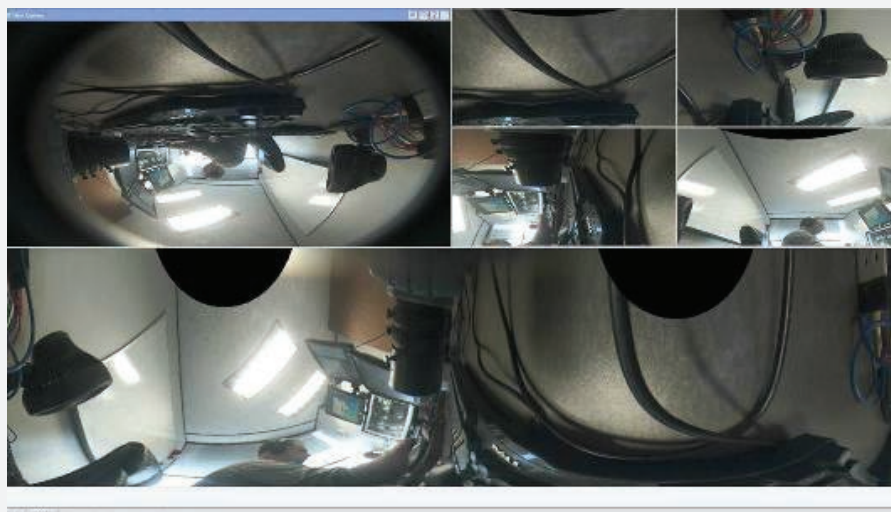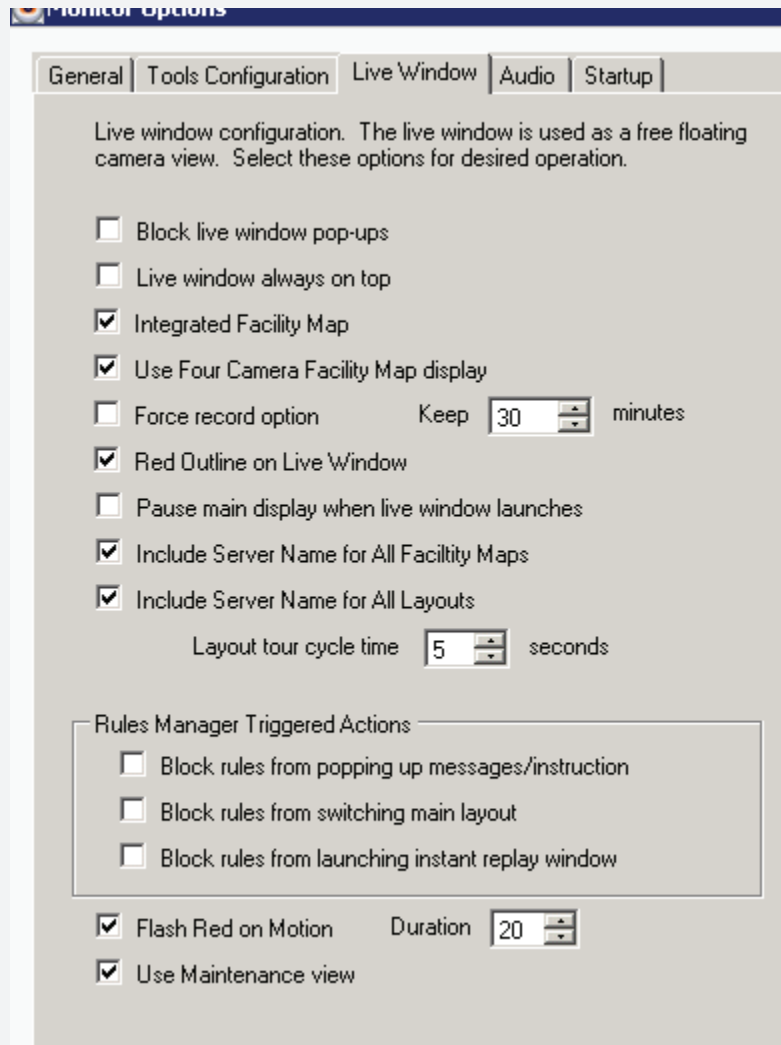
Once the option is checked and the camera is selected from the main dashboard or the left tree only the quad view will appear as seen below:

Enable Watermark for Clips: This option, which is checked by default, will interlace the Checksum security mark to detect any tempering with the created clips. To learn how to create clips refer to page 71.

Force Motion JPEG Format for Clips: This option, which is checked by default, will create all clips in Motion JPEG format. This ensures that they can be read by most available off the shelf players

Live Window Tab

Block Live Window Pop-ups: This option is unchecked by default. However, once checked it will suppress all possible Live Windows from popping up while Monitor Station is launched. Live windows may be sent to you from other users or by use of rules or may be launched manually.

Live Window Always on Top: This option is unchecked by default. However, once checked it will show all received Live Windows on top of Monitor Station.

Integrated Facility Map: When a Facility Map is selected it will, by default, appear as a pop-up. However, once this checkbox is checked the Facility map will appear in the main dashboard area of Monitor Station on the left side of the Left Navigation Tree as shown below.

Use Four Camera Facility Map Display: This option is applicable for both integrated and non-integrated maps. The four camera view is excellent when attempting to seam together a four eye camera such as the 180 or 360 Arecont cameras to view a complete hallway at a time. This view can also be used for all other cameras, here is a sample:

Force Record Option: Once checked this option will add a button to the Camera Toolbar in the Main Dashboard. This button, once pressed, will record immediately and will continue recording until the button is pressed again or the time set has been reached for a maximum of 200 minutes.

The Camera's Recording Type will not be changed permanently, record always will be performed once this action is triggered and when complete the camera will resume normal recording setting such as Motion Only for example.

Red Outline on Live Window: When launching Live Window by right clicking on the Server node from the left tree it will display all cameras for that server and will outline each with a redline for a few seconds when motion is detected as shown below:

Pause Main Display When Live Window Launches: When launching Live Window either for a server from the left navigation tree or for a single camera, the main dashboard will pause all streaming to improve performance and conserve bandwidth. After a few seconds of paused images they will appear gray.
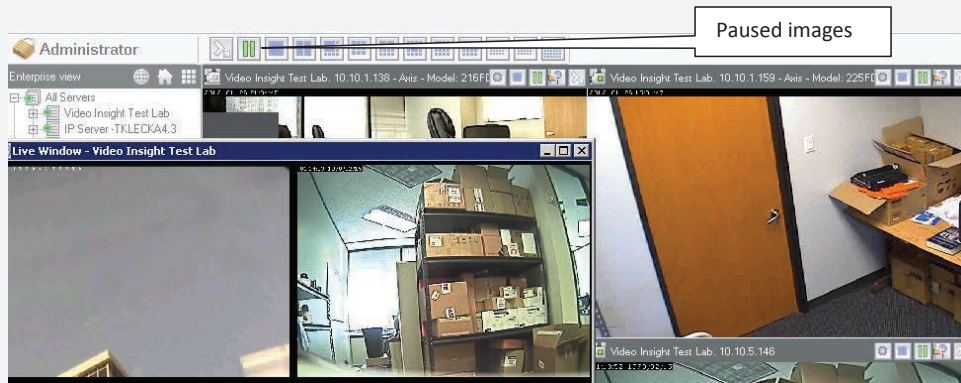
When closing the Live Window click the Pause button as shown above to resume live streaming.

Include Server Name for All Facility Maps: All Facility Maps appear in the Left Navigation Tree for quick access, but when multiple servers are added to a single Monitor Station it may be a bit difficult to decipher which facility Maps belongs to which server; adding the server name will make it easier. Once checked the server name will preface the Facility Map name.
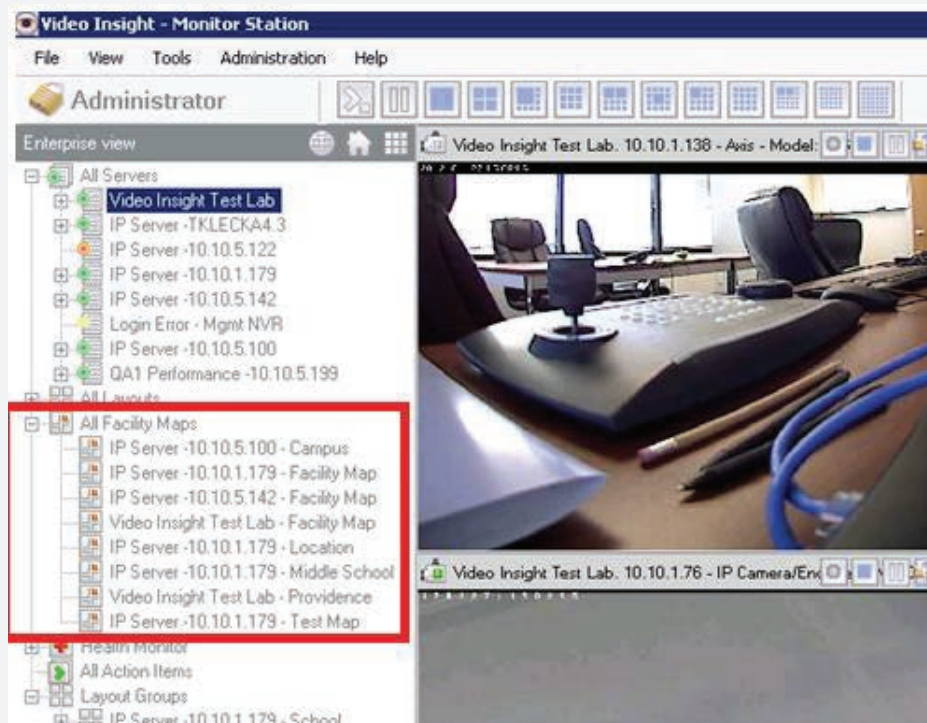
Include Server Name for All Layouts: All Layouts appear in the Left Navigation Tree for quick access, but when multiple servers are added to a single Monitor Station it may be a bit difficult to decipher which Layout belongs to which server; adding the server name will make it easier. Once checked the server name will preface the Layout name.
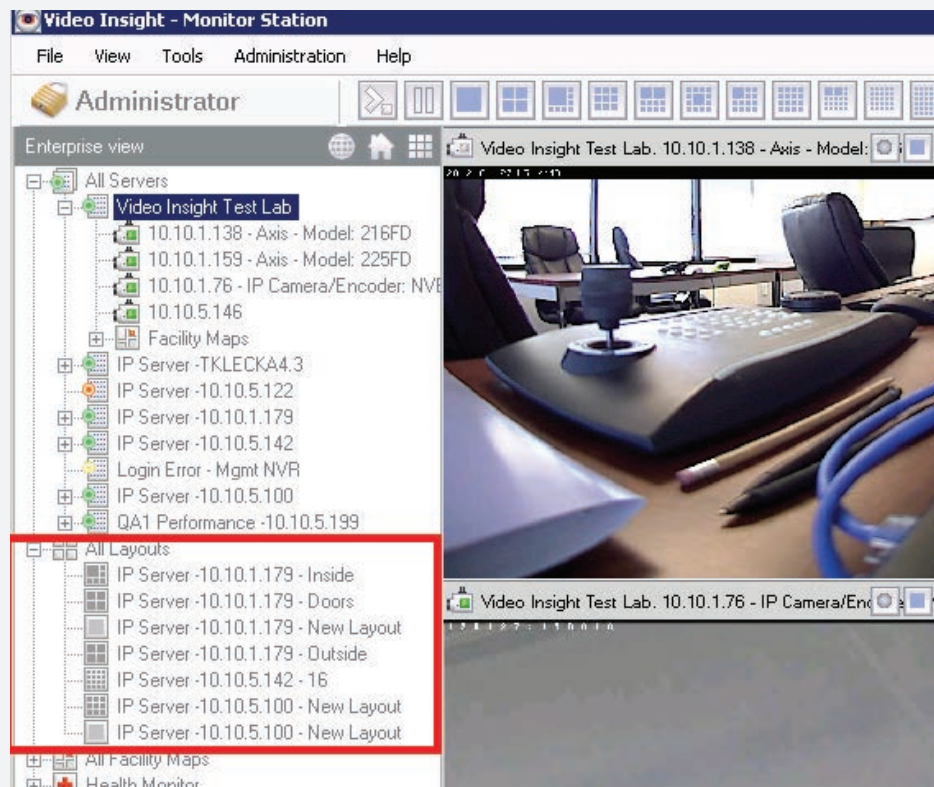
Layout Tour Cycle Time: When creating a camera tour you can set the time interval between each camera here.

Rules Manager Triggered Actions: The creation of rules adds additional flexibility and customization to your software. Certain rules can include results that send notifications to all Monitor Stations or specific users. To prevent those pop-ups from appearing in your Monitor Station simply check the applicable checkboxes.

Block rules from popping up messages/instruction

Block rules from switching main layout

Block rules from launching instant replay window

> **Please Note:** *There is no way to retrieve the messages you would have received once they are blocked.*

Flash Red on Motion: When checked this will highlight the Camera toolbar in red to indicate motion has been detected on a particular camera. This option makes it especially helpful when viewing many cameras at once as shown below.
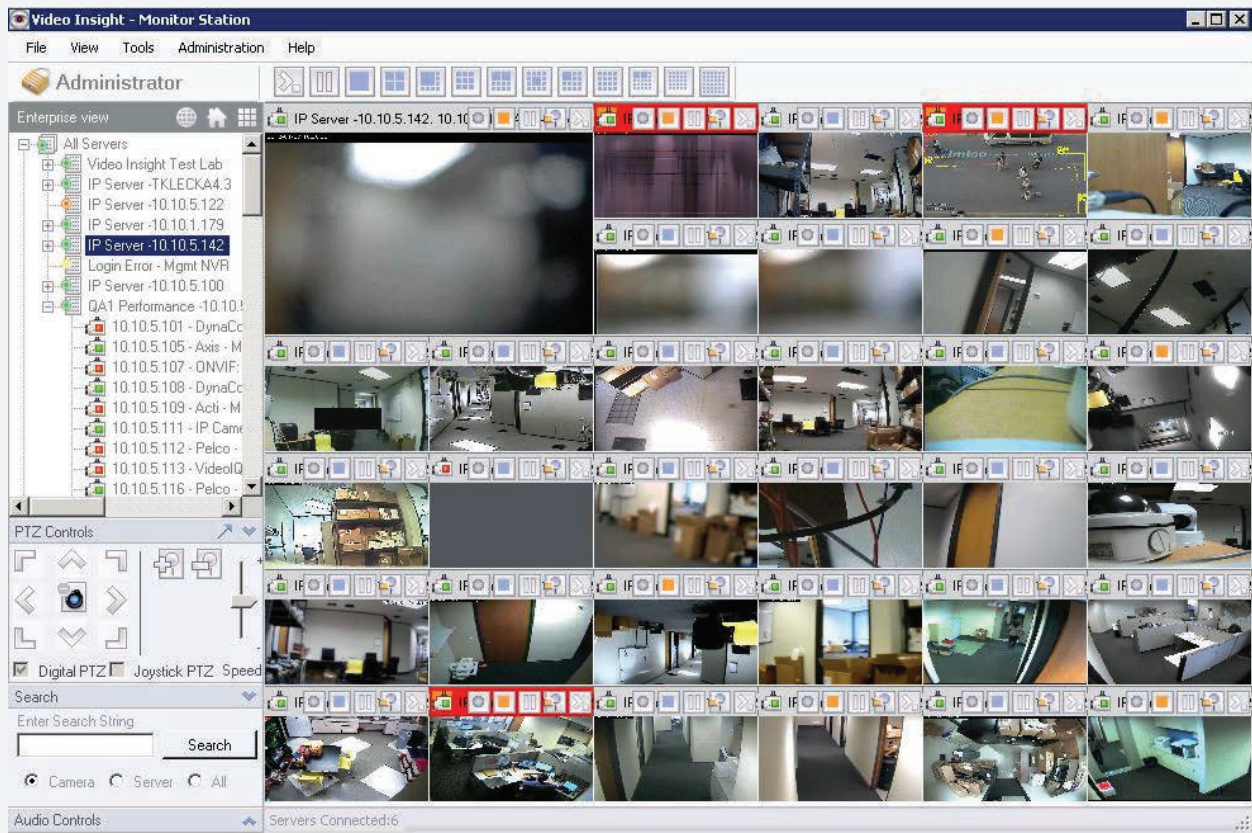
Use Maintenance View: When checked this will change the Contact Information tab in Camera Properties to Maintenance tab properties with offers different fields.

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Audio Tab
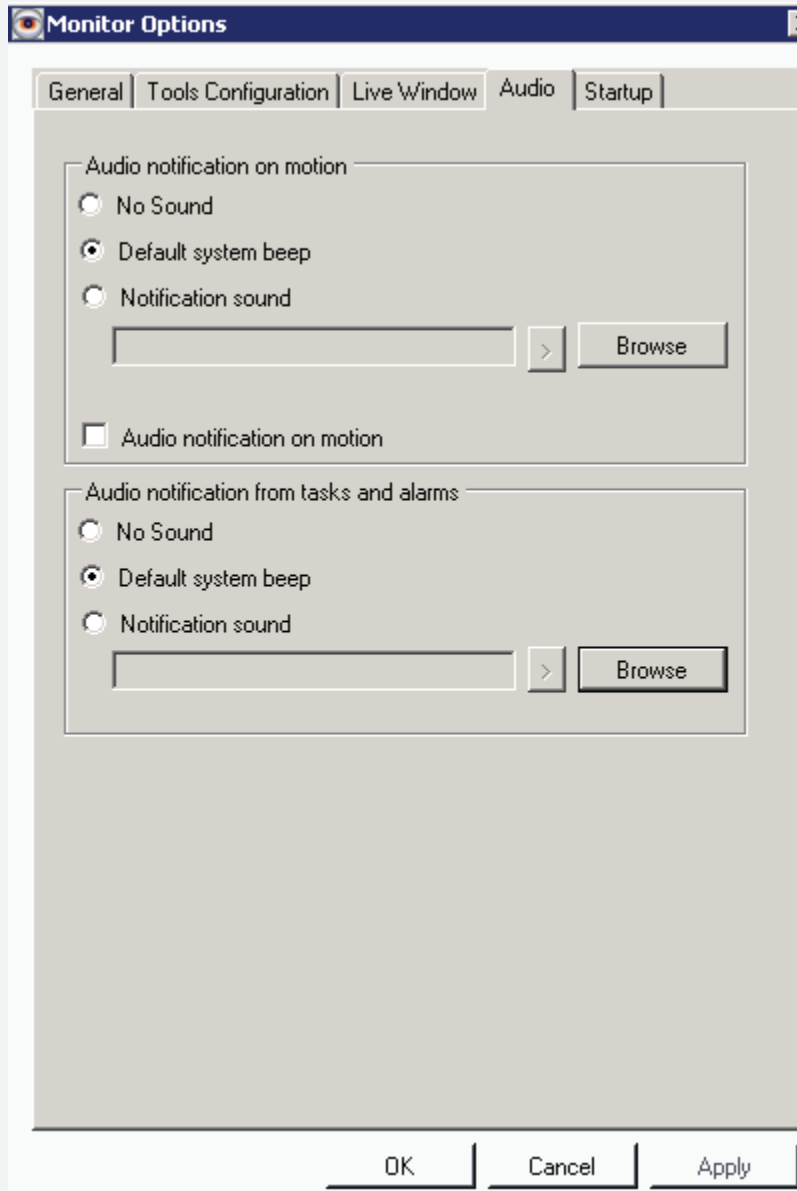
Audio notification on motion: This option gives the user the ability to specify if there will be any audio notification on motion in a camera. You have the option of no sound, the default system beep, or you can load your own notification sound using a .Wav file.

Audio notification on tasks: In some situations, rules have been created that specify that an audio notification will be generated based on some predetermined set of events. You can elect to have no sound, the default system beep or you can load your own custom notification sound.

Startup Tab

Starting Layout: Upon launching the Monitor Station the main dashboard display will be determined by what is selected here. If you'd like to display one particular camera (for example the first one) choose the first Camera in layout option and choose a 1 Camera Layout from the dropdown. If displaying a specific customized layout is desired instead choose Custom Layout and the correct server/layout option from the dropdown.

Hide Archive Tree on Startup: Hides the left navigation tree.

Launch Facility Map on Startup: Check this option and select the desired Facility Map from the dropdown. Upon launching the Monitor Station a separate pop-up window will also launch with the previously selected Facility Map.

Auto Upgrade: When this option is turned on, the next time the Monitor Station is launched it will compare its version to all of the servers that are currently connected to it. If a later version is found on a server Monitor Station will be prompted with an Auto Upgrade pop-up.
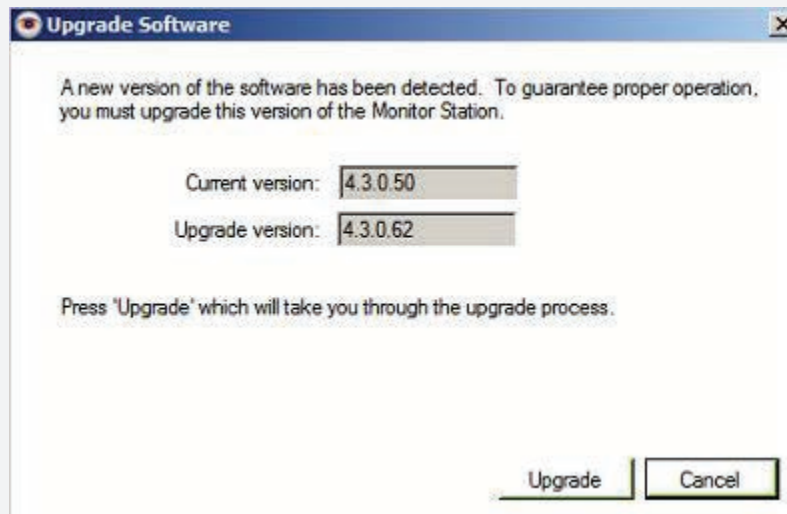
As shown above the Current version correlates to the Monitor Station version and the Upgrade version correlates to one of the servers this MS is currently connected to.

Once Upgrade is selected the Monitor Station will close and the installation will quickly flash on the screen. Launch Monitor Station again and navigate to Help>About Video Insight to confirm the upgrade was successful.

Start in Full Screen Mode: When this option is turned on, the next time the Monitor Station is launched it will display in full screen.

Verify Active Directory: When login in using Active Directory and checking this box the authentication of the user's credentials will be verified against Active Directory in real-time, not just the cache. If choosing this option please note that depending on your organizational security setting failed login attempts may lock your domain account.

Enable Auto Login: Enter the credentials here to bypass the Login pop-up. To learn more refer to the Login section found on page 18.

Administration>Setup and Configuration

The Setup and configuration module is used for many aspects of the video surveillance setup; options ranging from changing server properties to user management and other application integration such as Health Monitor settings and Live View Monitor setup. Administrator level access is required for most of the options; please refer to the Comprehensive Administrator Manual.

a. Left Navigation Tree

The Left navigation tree is a core functionality area for many of the daily operations of an end user. The many functions are discussed below; there are three possible views of the left tree pane:

→ 🌐 Enterprise View (default)

→ 🏠 Facility Map View

→ ▦ Layout View

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Enterprise View

All Servers node

List of all added
Servers

Server Groups

Network Decoders

Layout Groups

List of all Layouts

List of all Facility Maps

Health Monitor

Action buttons created
by Rules
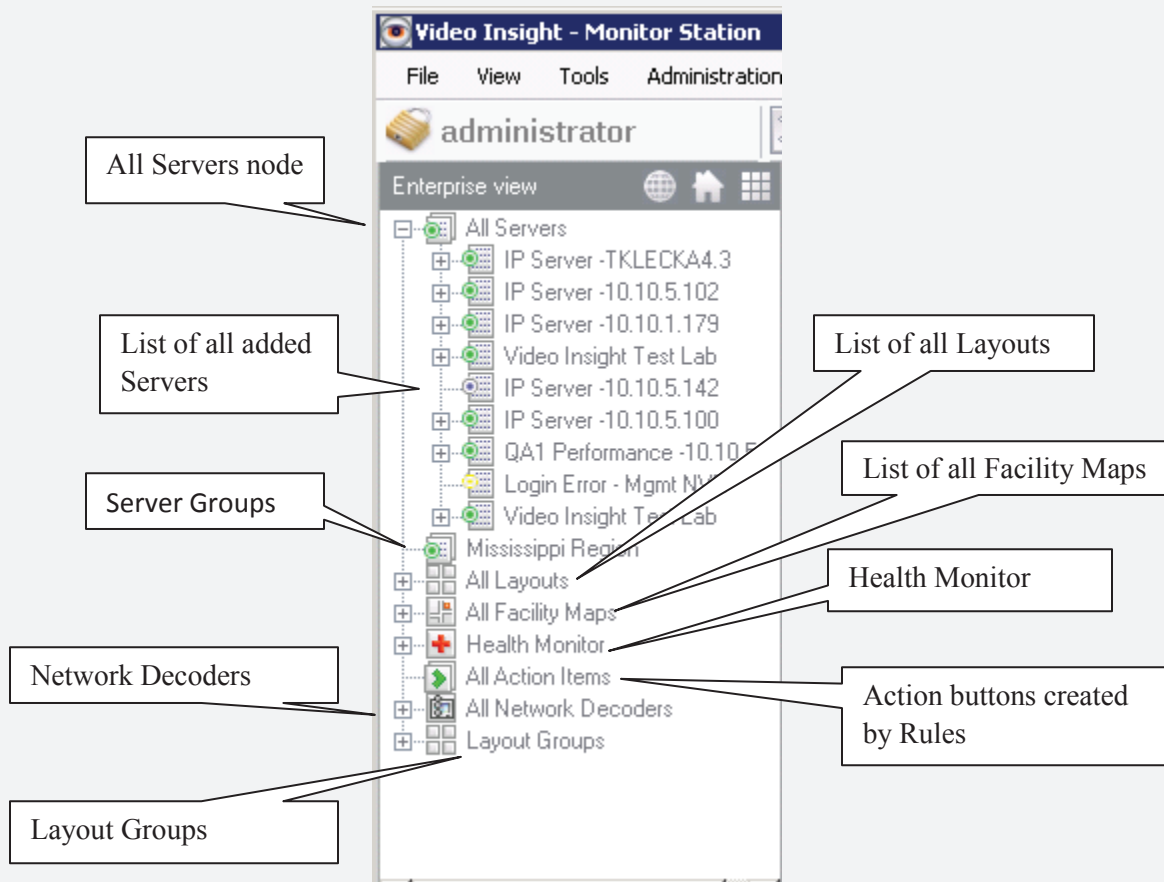
The *All Servers* node is the parent node; right clicking on it will show the following options:

Add/Remove Server
Add Group
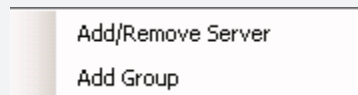
Add/Remove Server: This option when clicked will show the Add/Remove server screen in a pop-up, this screen is discussed in detail on page 15 .

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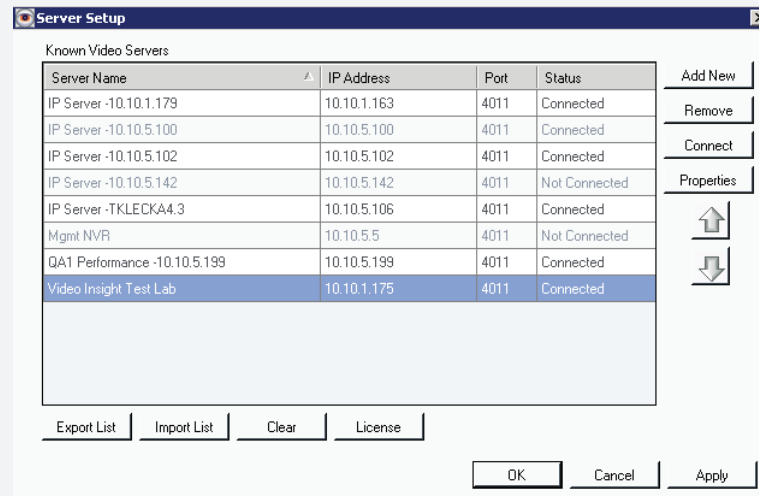
Add Group: This option when clicked will allow the addition of Server groups. Creating groups of servers may be beneficial when organizing server locations by region or any other logical grouping of servers in the Monitor Station.
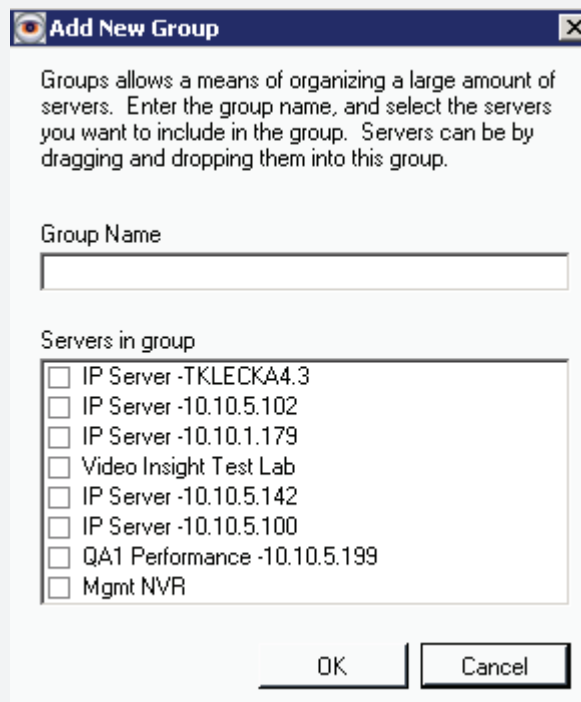
1. Enter a server Group Name

2. Check the applicable servers that should be added to that group

3. Click OK

The newly added group will now appear at the bottom of the tree as follows:
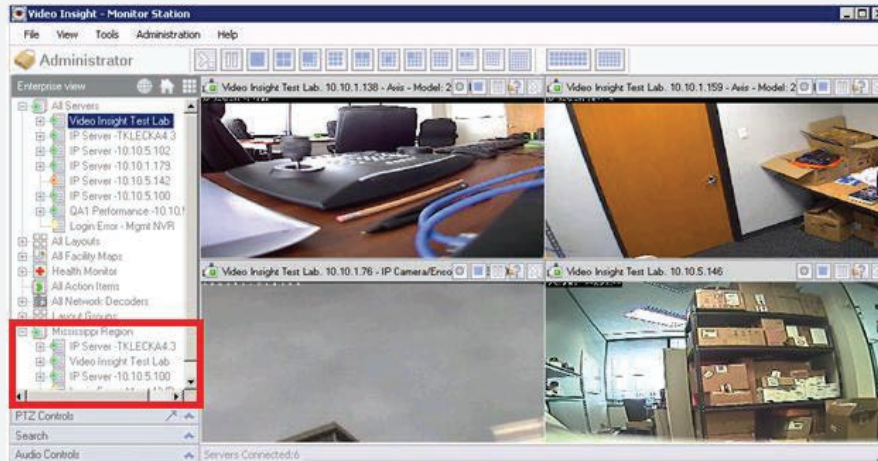
There are three possible states for a server in the left navigation tree:

= Server is functioning properly; streaming video to clients, recording video and reporting to HM, 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 the credentials we used when login in to MS initially (Administrator/blank). Log out and back into Monitor Station with the right credentials.

The Enterprise view also allows for viewing recorded videos, assuming access has been properly granted if security is enabled.

To view recorded video simply double click a camera node in the left tree to expand the tree. One or several folders may appear depending on the archiving settings configured for this server or the storage disk reserve space requirements which will move older files to a separate storage device (you can still access the long term storage location to view older files using the Media Player discussed on page 87.

When viewing a Recorded video from the Enterprise view there are several options available below the video that is currently playing. To play a video follow the steps on the following page:

1. Double or single click the camera node of your choice to expose the folders
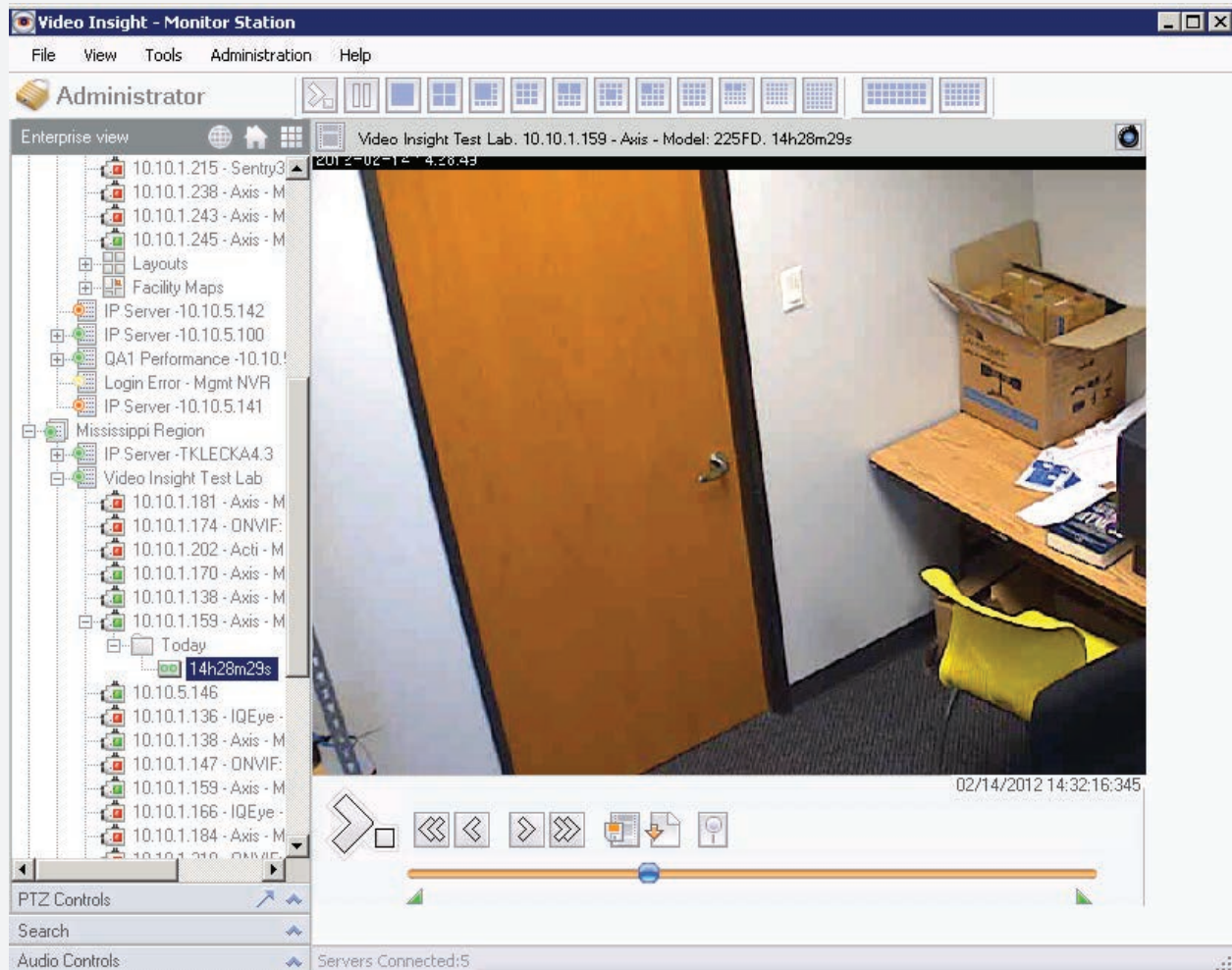
2. Click the desired file to play
3. Notice the file will begin playing immediately
4. The playback may be paused, stopped or Fast forward/backwards using the buttons provided above. In addition using a 1 frame forward or backwards are also provided.
5. Use the blue dot slider to jump to a point of interest in the video, the exact time of the image will appear in the bottom right corner of the file playing back.
6. You may also download a video (pg 72) or Clip a shorter file (pg 71) for distribution.

Properties of any of the nodes, whether it is a camera layout, facility map, or any group can be accessed by simply right clicking the applicable node.

Contextual right click menu

For Servers and Server Groups: 1. Right click the server node
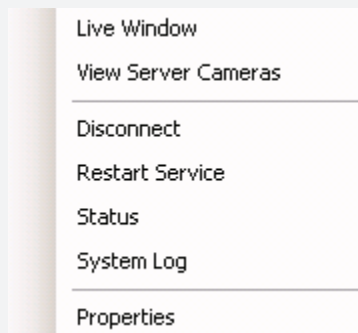
Live Window: Selecting Live Window will show a pop-up with all of the server's cameras as shown below:
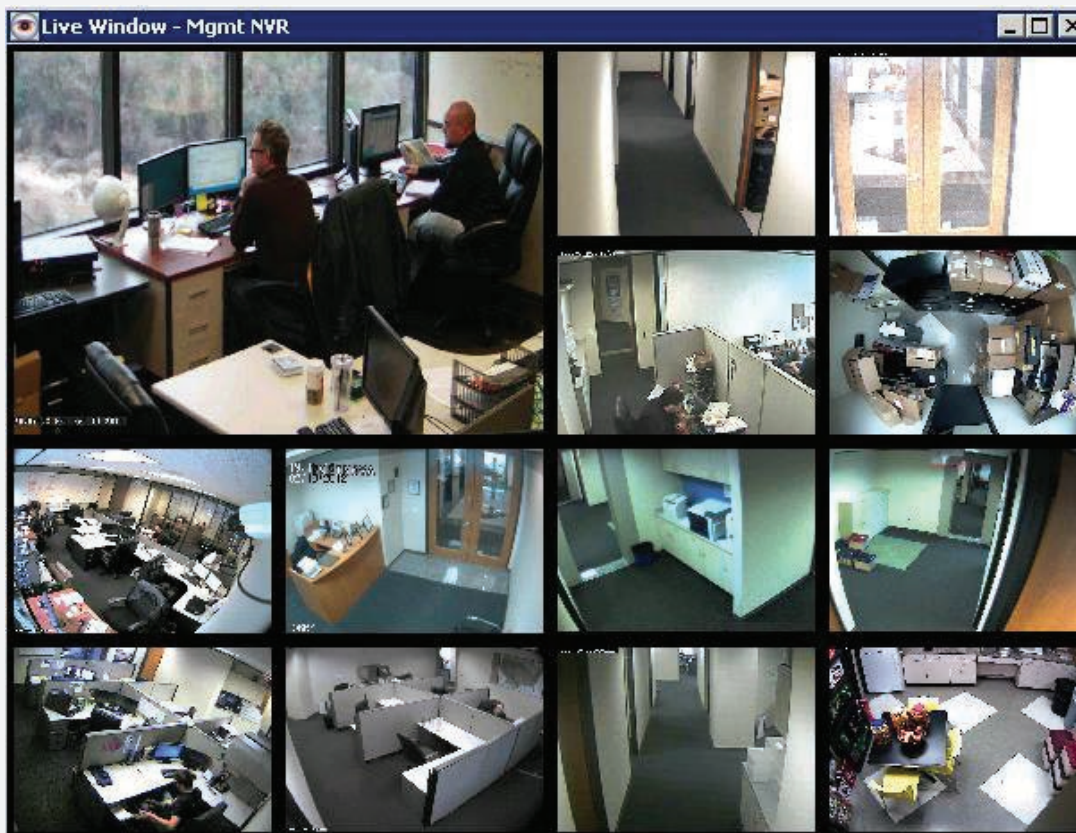
View Servers Cameras: Choosing this option has the same effect as if clicking the server node; all of the server's cameras will appear in the main viewable area.

Disconnect: This option will disconnect the server and cameras streams will no longer stream to this Monitor Station. A Connect option will be available when right clicking a disconnected server.

Restart Service: When a restart of the service is needed select this option; the client requesting the restart request sends the request to the server, the IPSM application must be running for the server to accept the request. If the IPSM is not running at the time it will restart the next time it is launched.

Status: Clicking this option will bring up the Server Statistics pop-up. Server Statistics is discussed in detail on page 80.

System Log: Choosing this option will display the System log which is available to System Administrators.

Properties: Will display the Server Properties; also discussed in Administrator Manual

For Cameras: 1. Right click the camera node
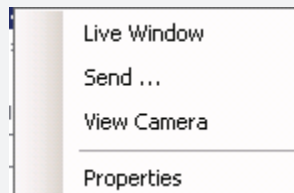
Live Window: Selecting Live Window will show a pop-up with the selected camera's view as shown below:

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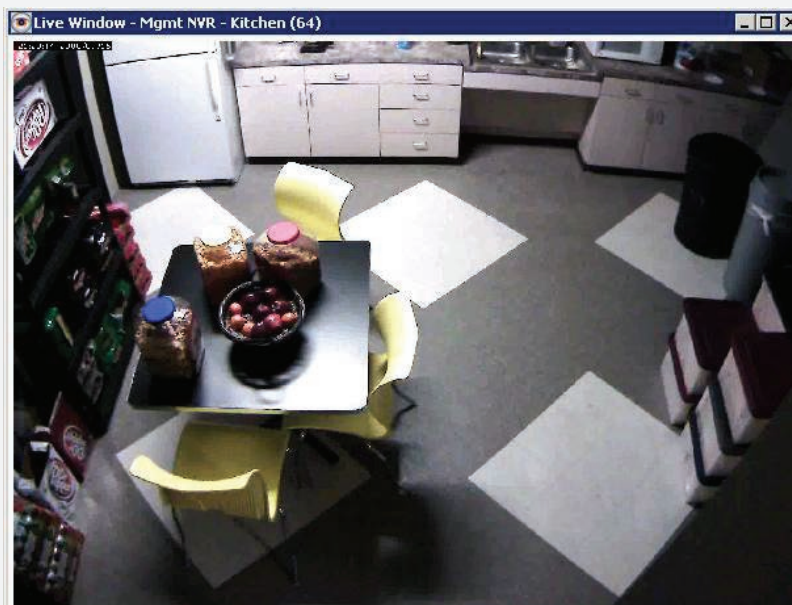
Send: when clicked this option will display the following pop-up; select the users to send the image to.
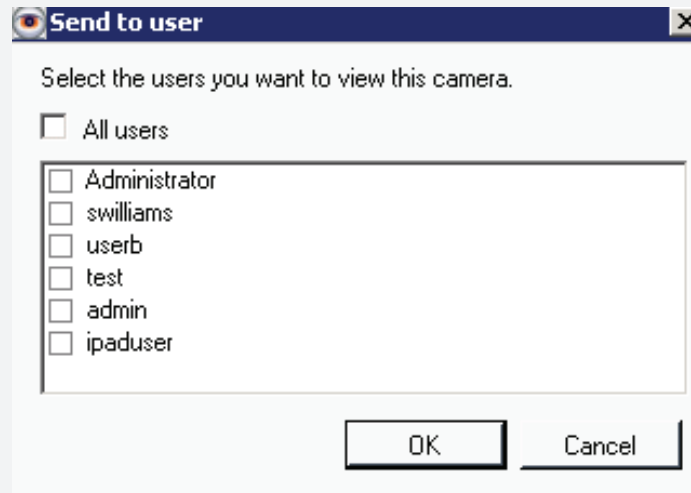
Once sent, the same live window will appear on their Monitor Station, unless they have the block pop-ups option enabled.

View Camera: Will bring the selected camera into focus and 1 camera layout in the main viewable area.

Properties: Will open the Camera properties to change any of the settings. Camera properties are discussed in further detail in Administrator Manual.

For Layout: 1. Right click the specific Layout node
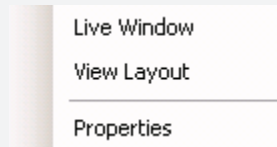
Live Window: Selecting Live Window will show a pop-up with the selected Layout's view as shown below:

View Layout: Will bring the selected Layout into focus in the main viewable area.

Properties: Will open the Layout properties to change any of the settings, add/remove cameras and other modifications. Layout Configuration is discussed in further detail in Administrator manual.

For Facility Map   1. Right click the specific Facility Map node

View map

View cameras

Properties
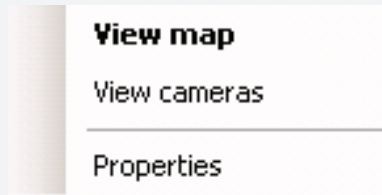
View Map: Will bring the selected map into focus in the main viewable area as an integrated map (if option is selected) or as a pop-up.

View cameras: Will bring the selected cameras overlaid on the map as a layout into focus in the main viewable area.

Properties: Will open the Facility map setup pop-up to change any of the settings, add/remove cameras and other modifications. Facility Map setup is discussed in further detail in Administrator manual.
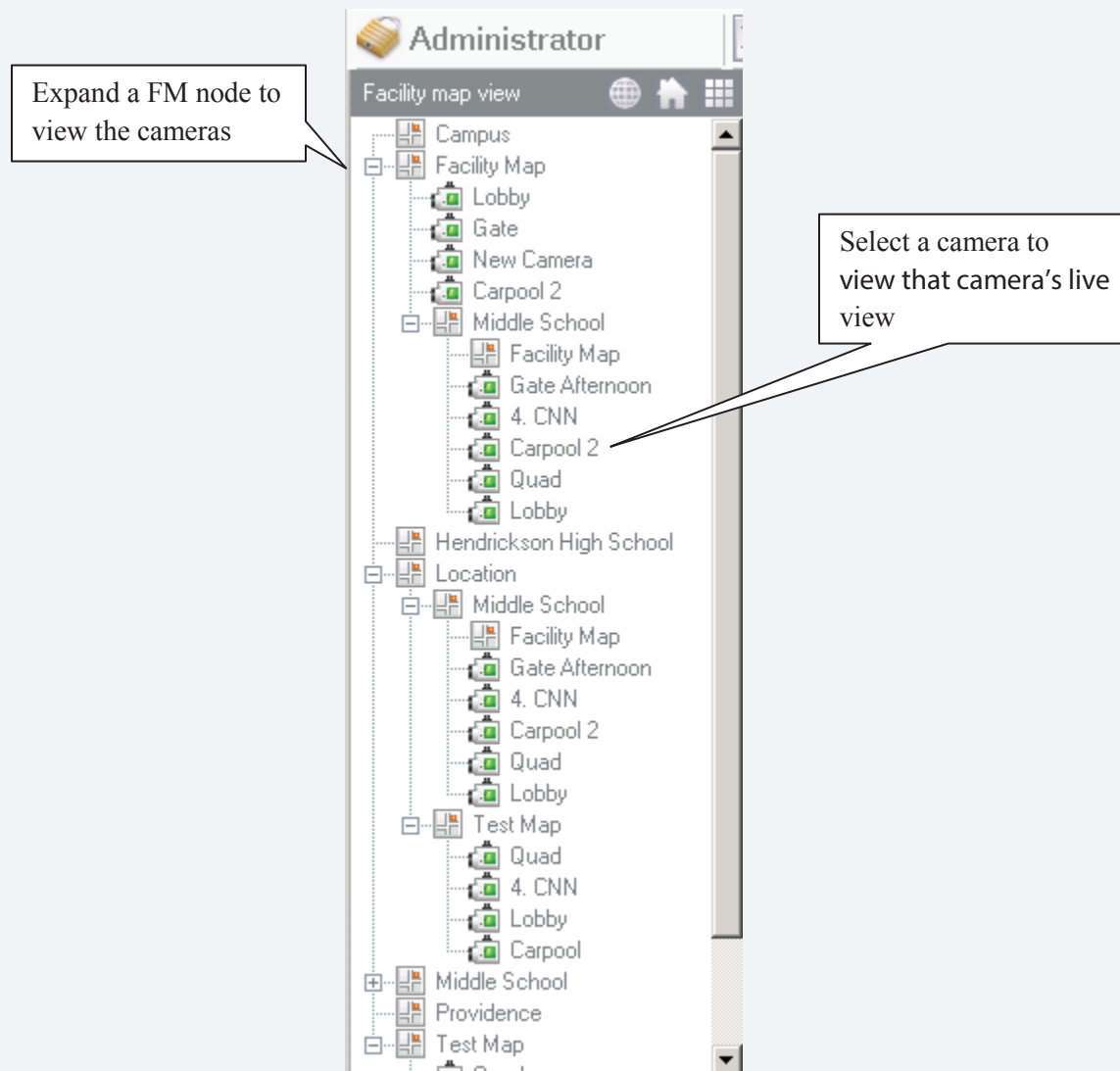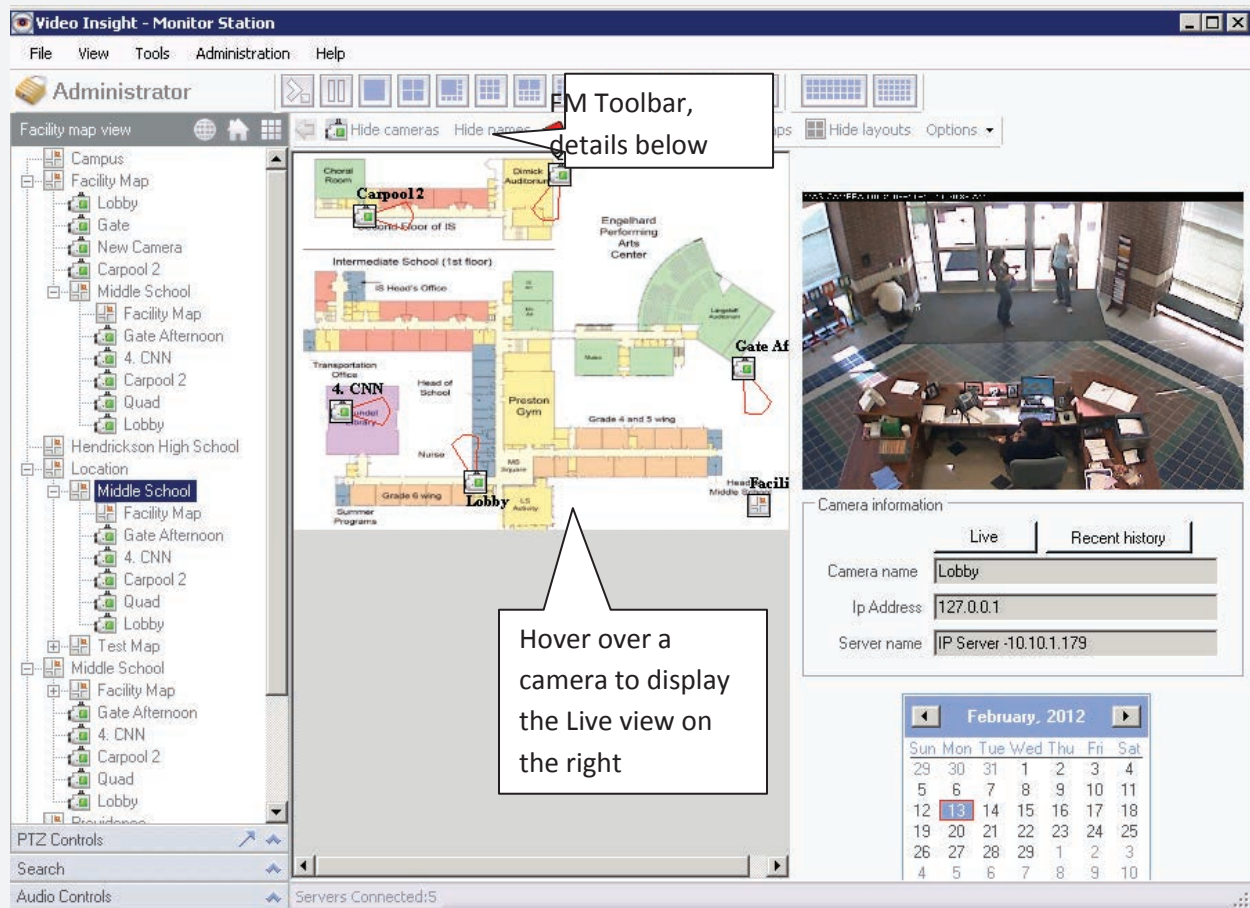
From this screen there are several options available to the video monitor user.

Live button: Clicking this button will display a Live pop-up window.

Recent History: Clicking this button will display a 30 Second Review pop-up with the most recent history as follows; use it in conjunction with the calendar control to select the desired date:

From the 30 Second Review pop-up there are a few available options:

Creating a Clip

1. Use the green triangular handles to select the length of your desired clip
2. Click the Create a Clip button
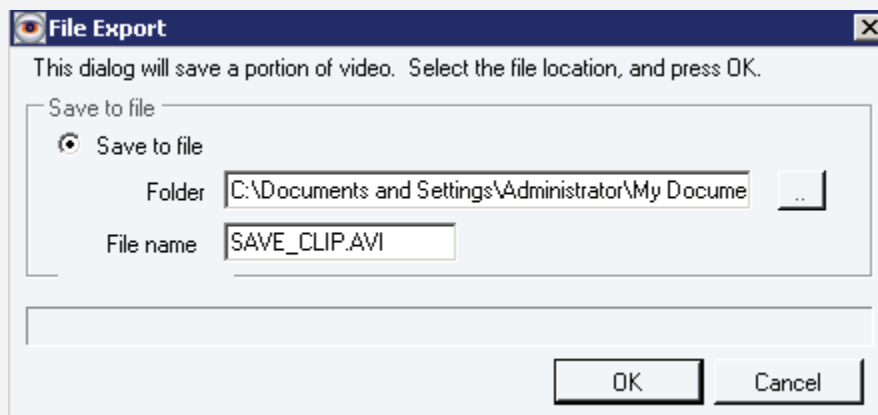
3. Select the Folder location to save the clip to by clicking the ellipses button

4. Change the default name of the clip or simply click OK to accept the default

5. Once complete the following will appear:
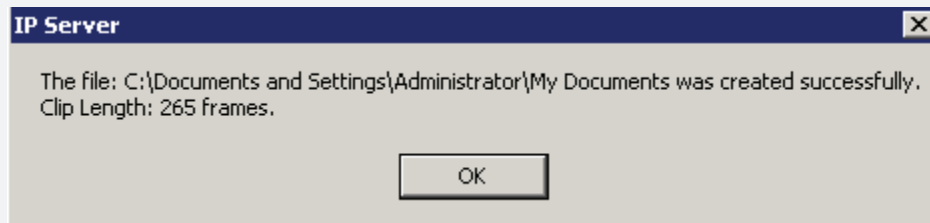
6. Click OK to dismiss pop-up

Downloading a Recorded file

1. Click the Download Video button, the following will appear:
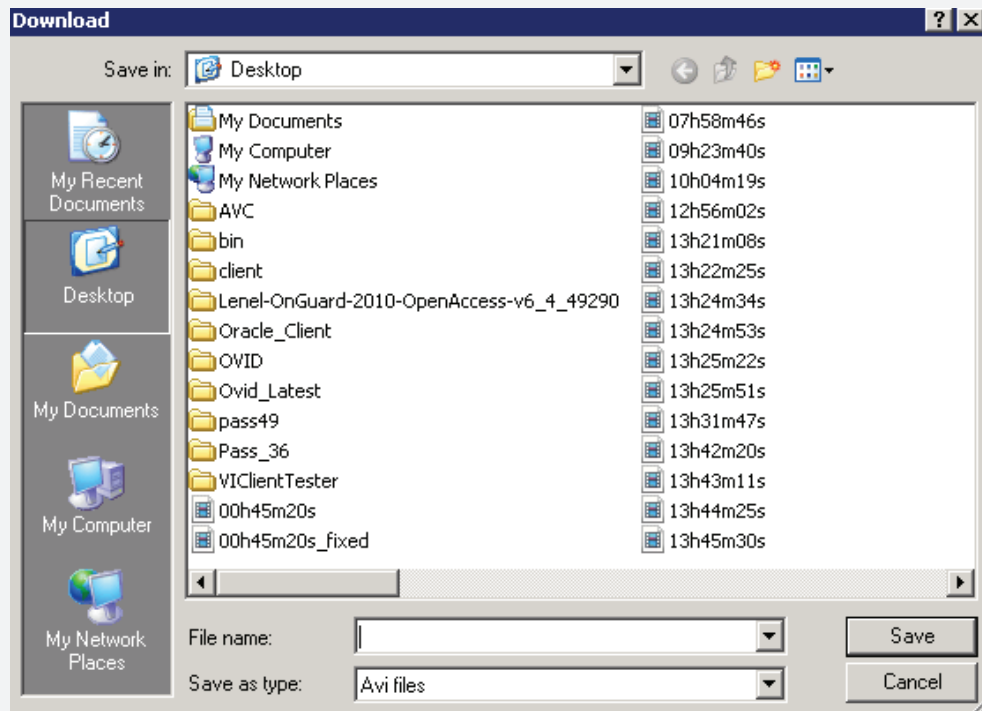
2. Select the Save location for the video

3. Enter a File Name of your choice

4. Click Save, the following will appear:

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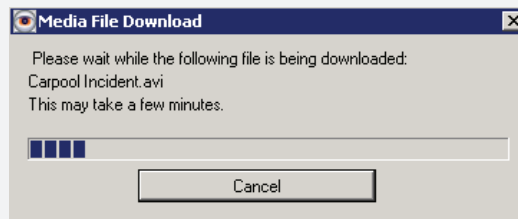
5. Once complete the following will appear:
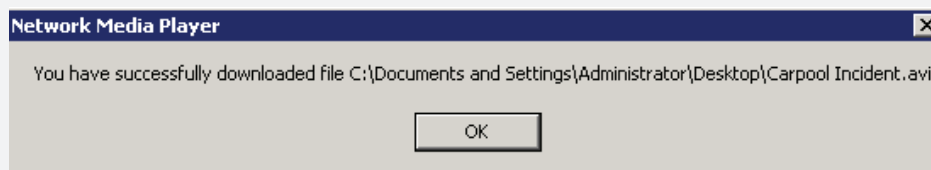
6. Click OK to dismiss pop-up

Facility Map Toolbar

The Facility Map Toolbar allows for further customization of the Facility map view and behavior as discussed below.

= Some Facility Maps have overlaid cameras as well as other Facility Maps to expose additional terrain detail. When viewing a sub Facility Map use the back button to return to the prior view.

= pressing this will hide the Camera icon used to designate a camera on the map.

= will hide the camera names that may sometime obstruct the terrain view

= will hide the viewable cone icon on the map

= will hide sub facility maps on the currently viewed map

= will hide layouts on the currently viewed map

= Clicking Options will display the following menu:
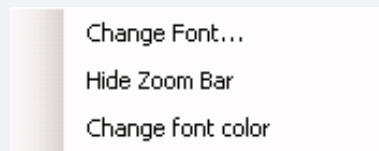
Select any of the options to change the camera name font and or the font color to make it more noticeable. In addition you may hide the Zoom bar functionality displayed on the bottom right of the screen.

Expand a Layout node to view the cameras

Select a camera to view that camera's live view
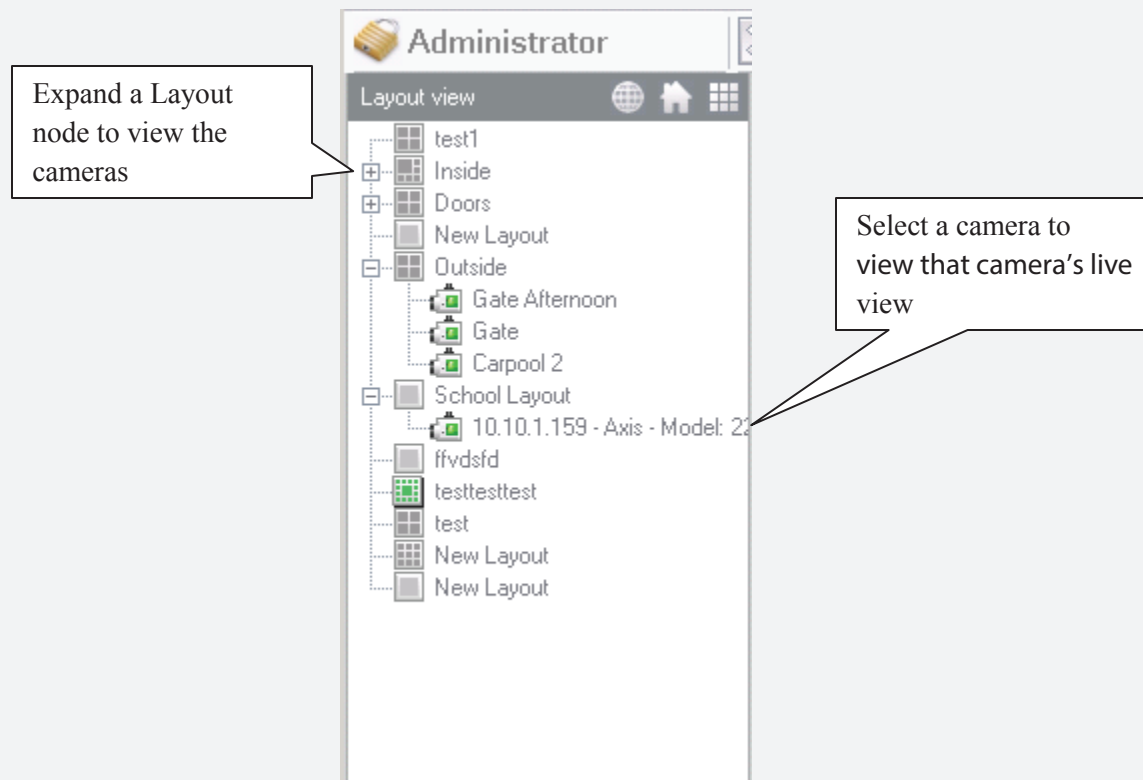
To view a Layout simply click the desired node, it will display the chosen layout in the main view area. The ability to right click a Layout and expose the contextual right click menu is also available, discussed on page 64.
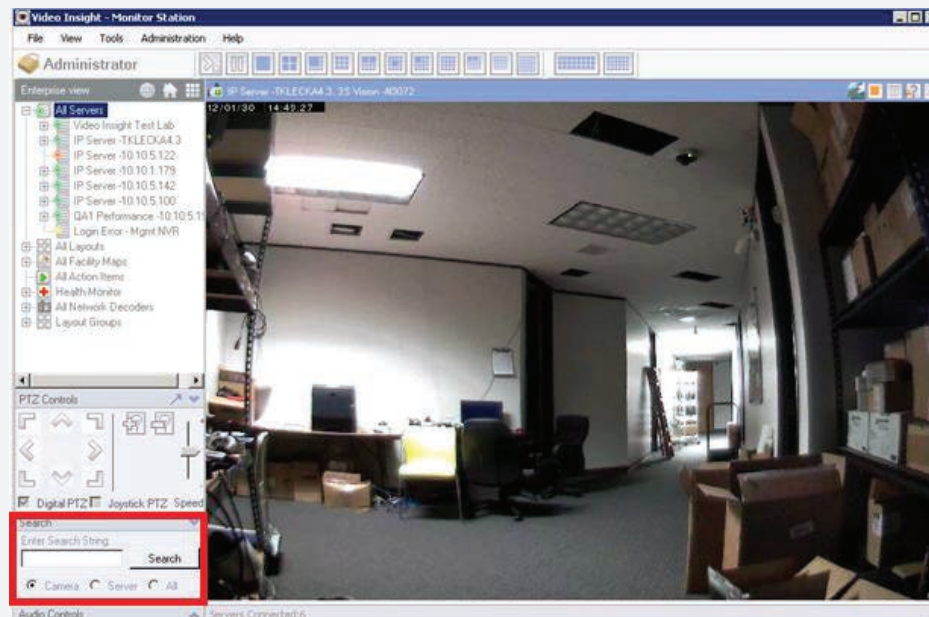
Moreover, viewing recorded video is also available by double clicking the camera of your choice as shown below to expand the recorded video folders.
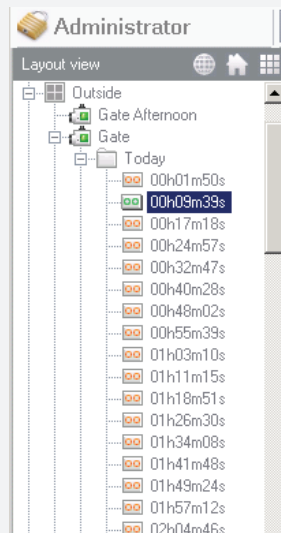
b. PTZ Controls pane

PTZ functionality and PTZ controls pane is discussed in greater detail in Section B on page 31.

c. Search Pane

Use the Search box in the Left Navigation tree to find any search string, change the radio button to the applicable item type: Camera, Server or simply All.

Search can now show all matches with the search string entered. For example, if there are multiple cameras using "pos" in their name the search feature will now show the following:

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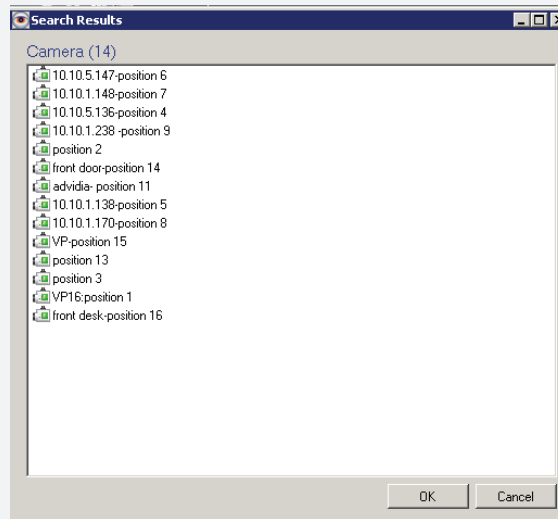
Double click the row of your choice or highlight the row and click OK, the pop-up will close and the camera selected will be highlighted in the tree. Furthermore, now searching for an IP address will do a search In the IP field itself rather than just the camera name.
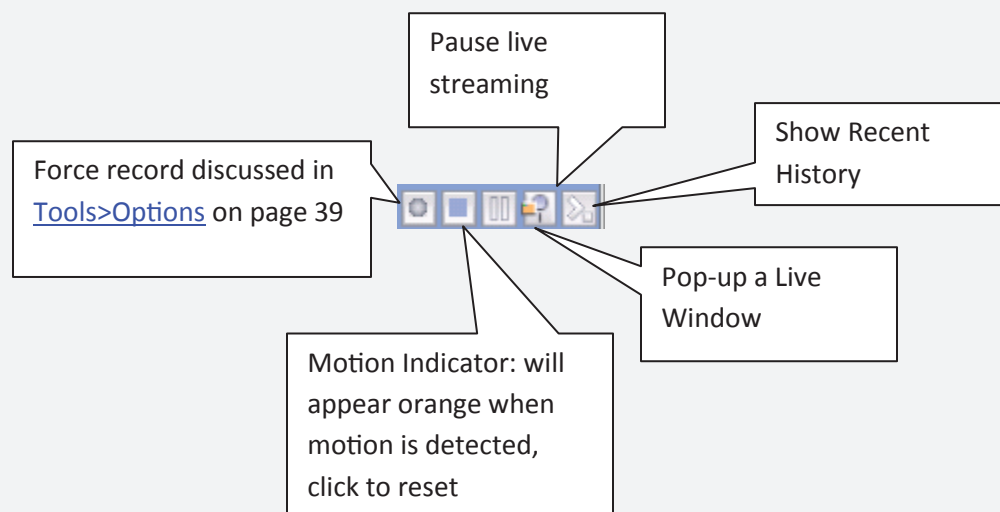
d. Live Audio Controls pane
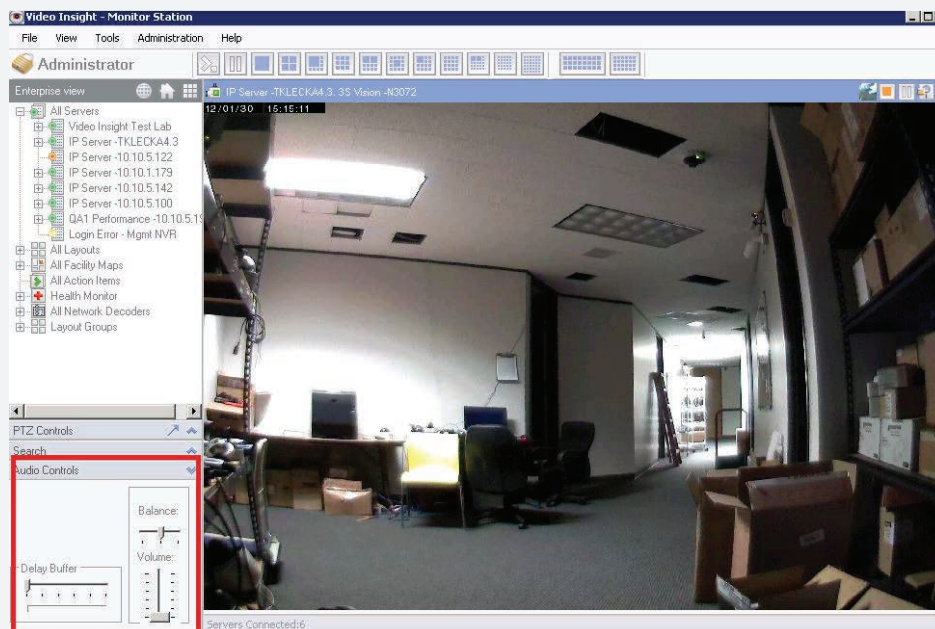
Use the Audio Controls pane to control the speakers' volume and balance as well as the buffering. Live Audio must be selected and supported for the camera.

e. Layouts Toolbar

Layout Toolbar is discussed in greater detail in Cycling Layouts on page 28.

f. Camera's Quick Access toolbar

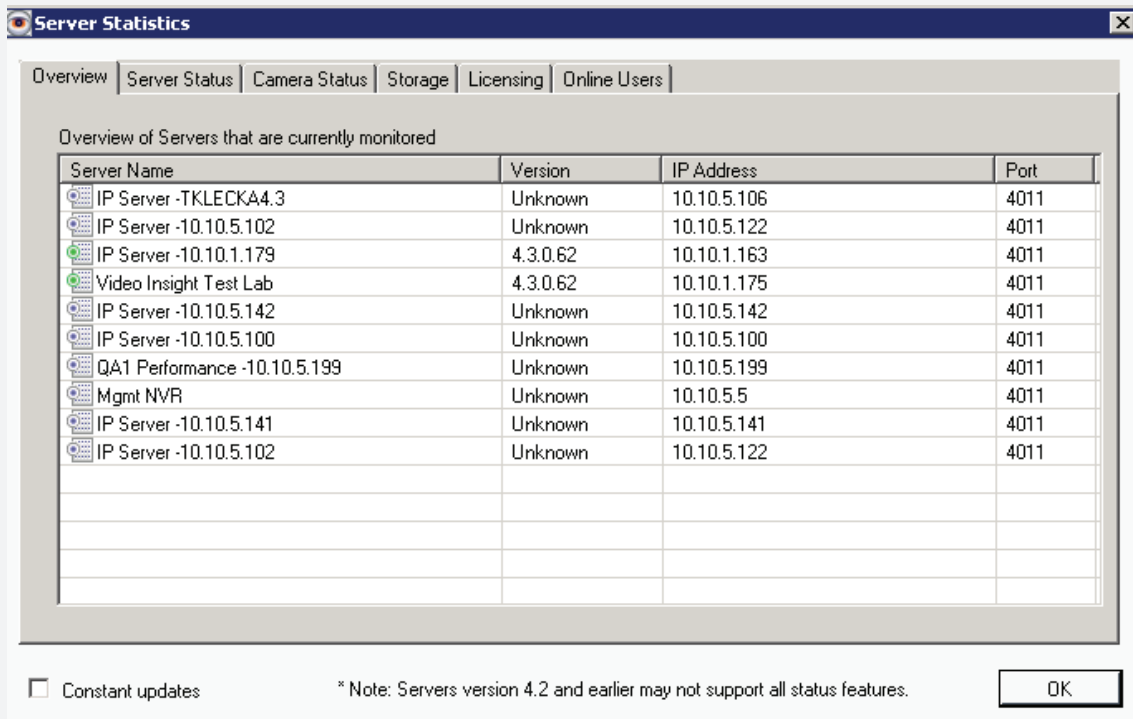The Camera's Quick Access toolbar includes several shortcut buttons and information.

Pause live
streaming

Show Recent
History

Force record discussed in
<u>Tools>Options</u> on page 39

Pop-up a Live
Window

Motion Indicator: will
appear orange when
motion is detected,
click to reset

g. Server Statistics

A new sub menu has been added to the Administration set of options. This menu will allow
administrators to manage all servers, review server and camera status, as well as manage storage,
licensing and online users.

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Overview Tab

The over view tab will display All servers that are currently added to this Monitor Station. It will list the Server Name, Version of software installed on that server, the IP address and the port used for that service. If a particular server is offline or security is on and incorrect credentials have been used it will show the server name, but the version will appear as Unknown.

Server Status Tab

The Server Status tab will list all servers and their current Processor usage in percentages, Memory Available to the IP service and Total Memory available on the machine. To refresh the values check the Constant Updates checkbox at the bottom to get the latest updates on 4.3 servers and higher.
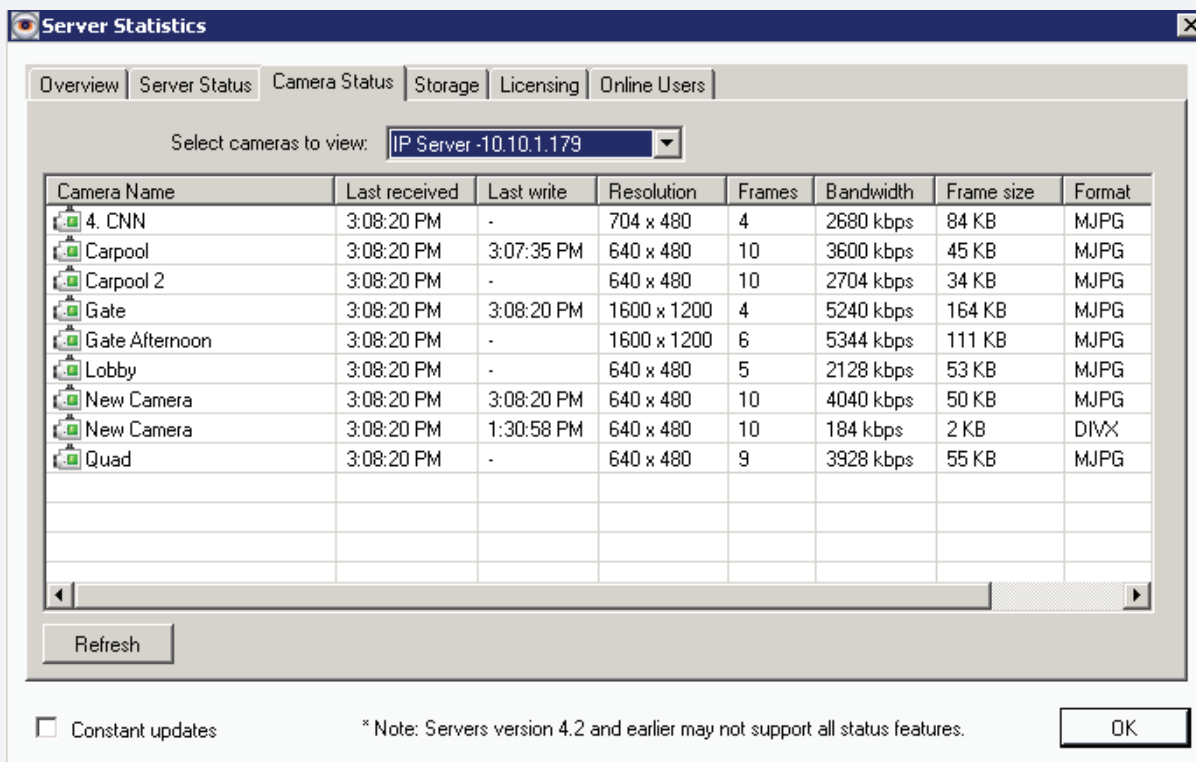
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Camera Status Tab

The Camera Status tab will list the Camera name, the Last received communication from it to the server, the resolution being used, the number of Frames Per Second, The Bandwidth used by it currently, Frame size and the format configuration for the camera.

There are instances when the Format will appear as Unknown if no connection to the camera has been done recently. Also, Cameras that belong to a version earlier than 4.3 will display most information as 0 or unknown.

You may also filter the Camera list by filtering it by Server from the dropdown. Sample screen below:

Storage Tab

The Storage tab will list all cameras and their corresponding storage usage for a listed number of days.

Licensing Tab

The Licensing tab is a great way to manage all servers, and cameras and easily view whether a license needs to be upgraded or not.

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	

Refresh

☐ Constant updates   * Note: Servers version 4.2 and earlier may not support all status features.   OK

Online Users Tab

The Current Online Users feature will allow administrators to view all users connected to that server in real time. At the moment this feature will capture only users logged in using the Monitor Station.
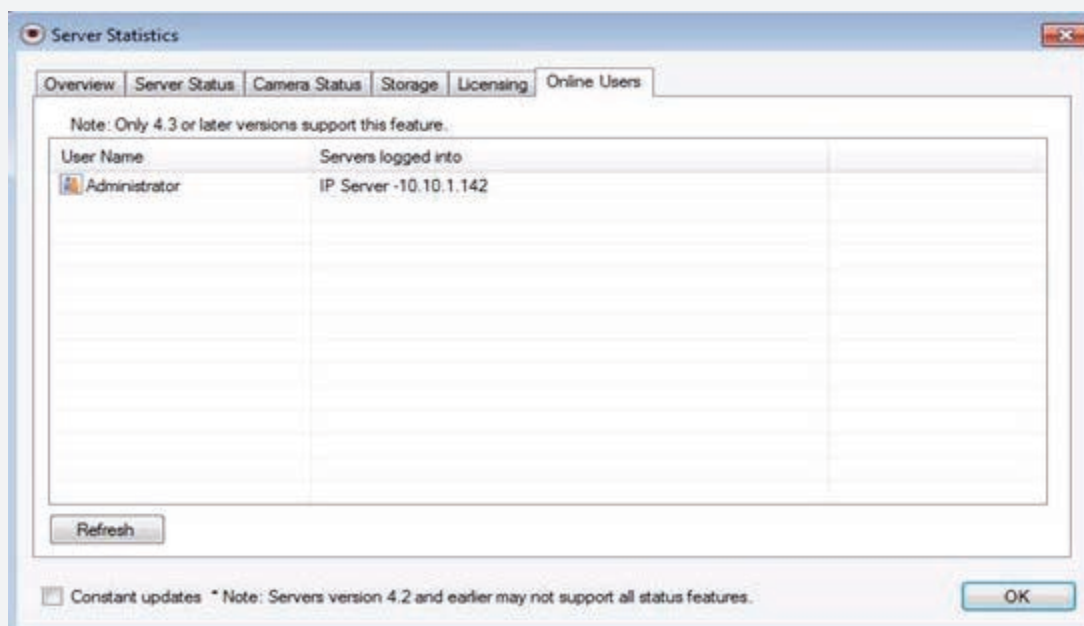
E. Media Player

Media Player is Video Insight's built in player for videos, it offers a slew of filtering options, printing and managing of videos making it easy and fast to find the video or motion event desired.

MP Toolbar

MP Left Navigati-on tree
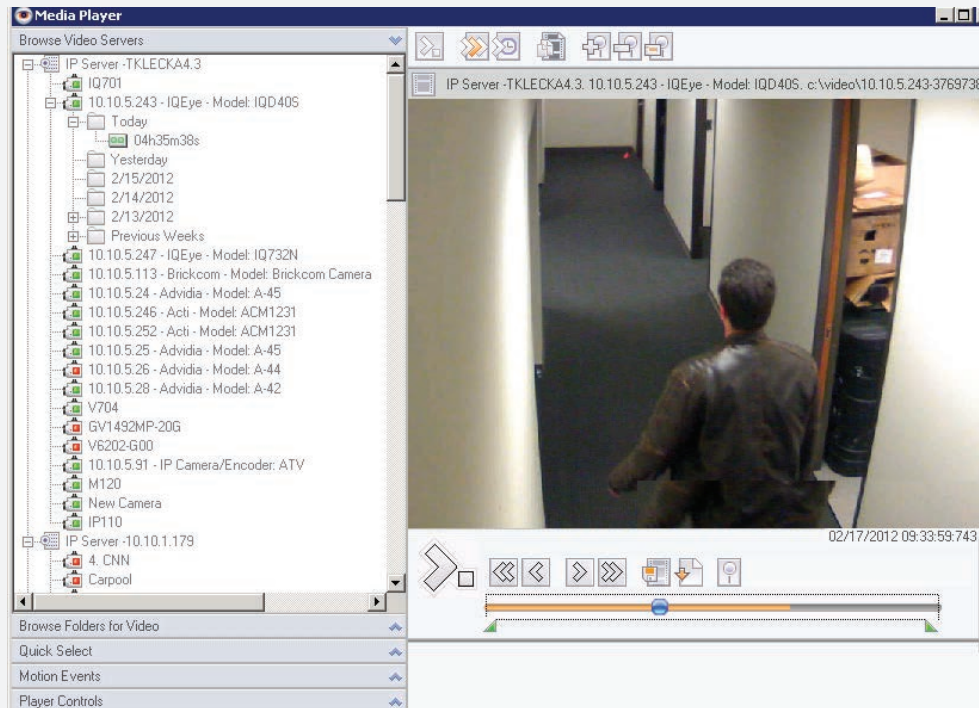
Timeline View

Playback area

MP Controls
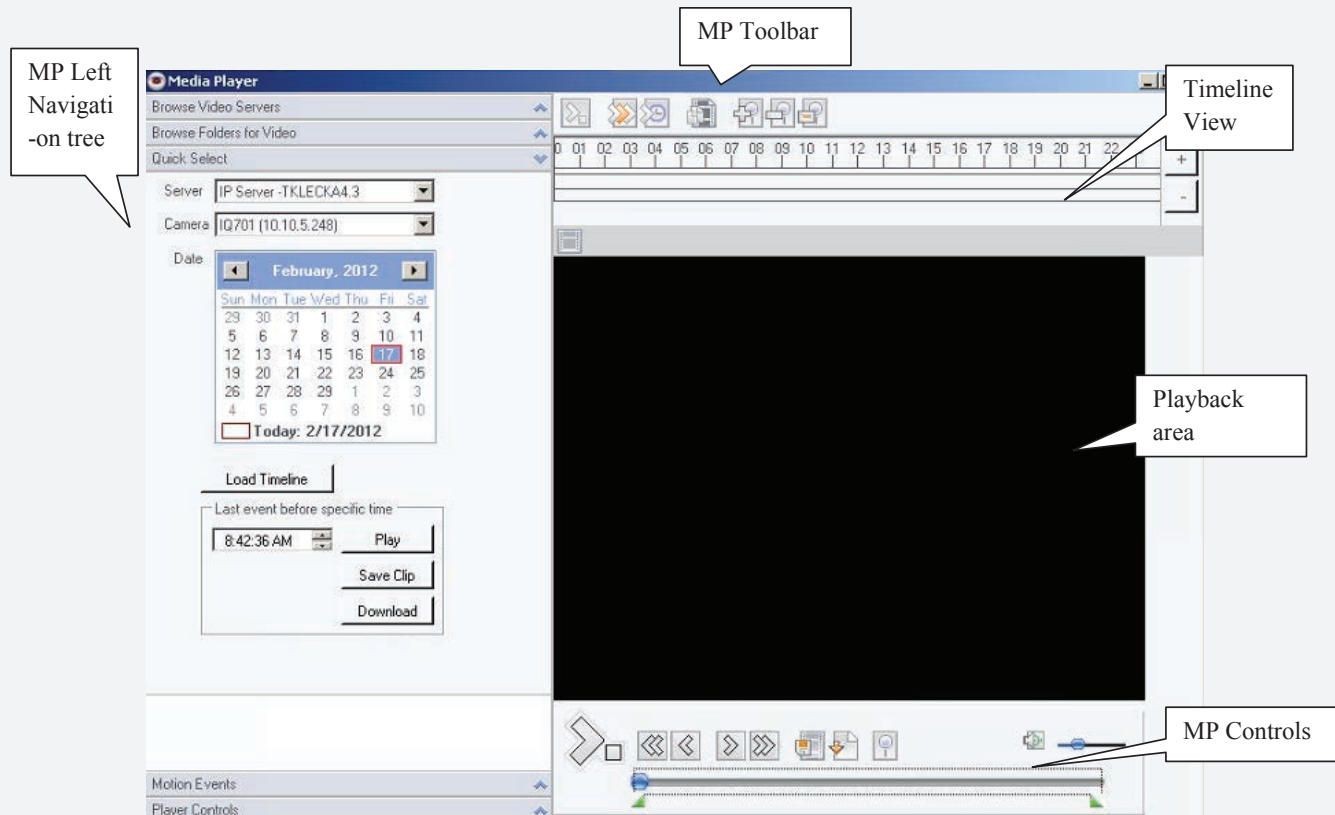
a. Left Navigation Tree

The left navigation tree has multiple panes; the initial pane will appear expanded and is the Quick Select option. Each pane is explained in detail below:

» Browse Video Servers
» Browse Folders for Video
» Quick Select
» Motion Events
» Player Controls

Browse Video Servers

Browsing the Video Servers is performed exactly as you would from the Monitor Station's left navigation tree. Browse to the server, camera, day folder and file you would like to view. The file will begin playing on the right; downloading a clip, printing an image and performing an object search can all be done from this view as well.

Browse Folders for Video
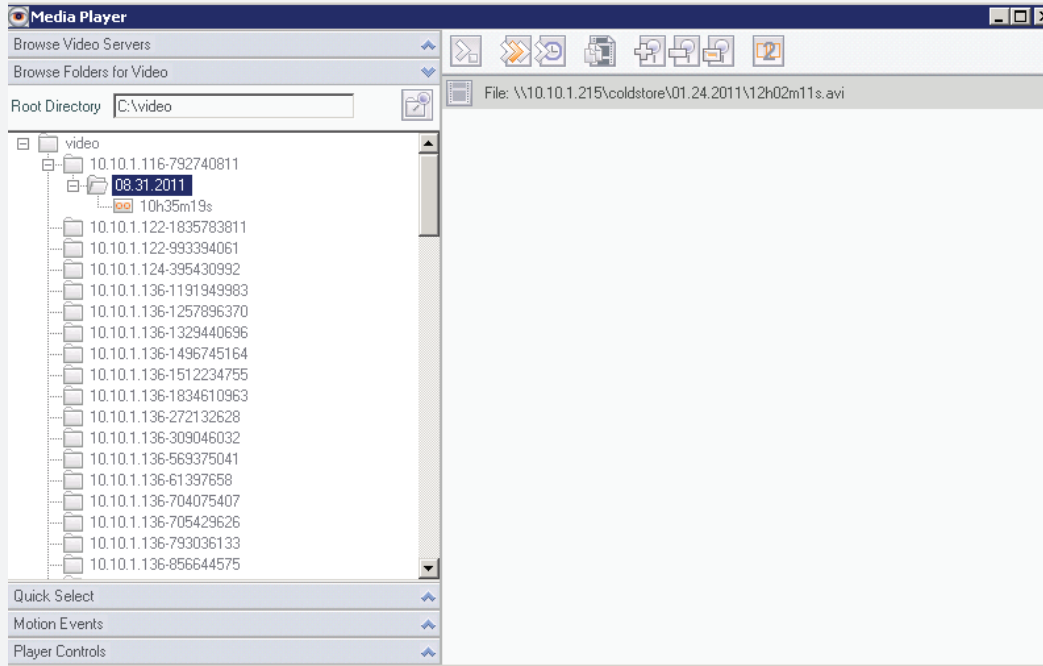
Browsing Folders for Video is similar to browsing using Windows Explorer.

    1. To change the Root Directory simply click the icon
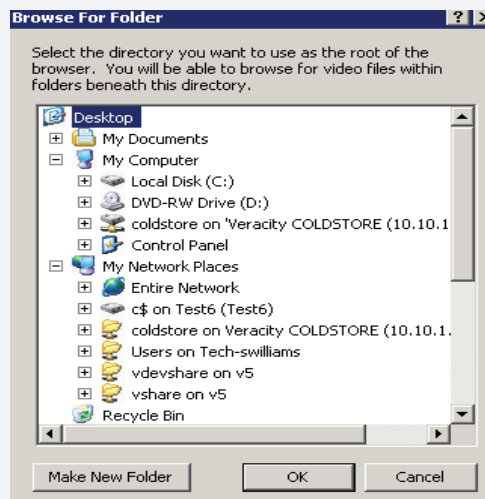
    2. Choose a location of your choice and all video recordings in that network path will appear on the left.

    3. Choose recorded file to play

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Quick Select

Quick Select is especially useful when viewing the recorded files as motion events in the timeline view shown above as orange tick marks.

1. Select the server from Server dropdown
2. Select the applicable camera from Camera dropdown
3. Select a date from the calendar
4. Click Load Timeline
5. Place your cursor anywhere in the timeline mode where it is marked orange (motion events).
6. The file will begin playing on the right

If the event you are searching for occurred around a known time, using the Last Event before Specific Time" option is for. Enter the time closes to when the event occurred (past the event, not before) and click Play.

Motion Events

All added cameras, by default, are set to Motion Only Record Type. Rather than going through hours of video to view a specific motion event this panel is a good option to consider when looking for an exact recording when camera, server, and time of the event are known.

1. Select the server from Server dropdown

2. Check the specific camera, if known or simply select all

3. Uncheck the Restrict Times checkboxes for a greater interval or change to the desired times.

4. Click Reload

5. A full List of Motion Event snippets will appear, click the desired motion event and the file will play on the right.

Motion Events can also be filtered to include specific Motion types:

Motion Events: all Cameras set to Motion Only Record Type will show events here

Access Events: all positive alarms of successful Access Control swipes will appear here, for integrations such as Blackboard, MonitorCast, etc.

Access Alarms: all negative alarms of failed Access Control swipes will appear here, for integrations such as Blackboard, MonitorCast, etc.

Rule Event: all motion events created because of a Rule will be shown here.

Video Analytics: all motion events created because of VCA Analytics (which are also rules.)

Player Controls

The Player Controls are available both below the video playback on te right and also in the left pane for several reasons. The left pane controls are there for use when the player size in increased thus making the controls below disappear or when the size of the monitor coupled with the camera resolution size causes the controls below to disappear.

b. Toolbar

Magnify Current image (Object Zoom)

Motion Event Player

Single Player Mode, when pressed will show the 2 Player mode button here

Timeline Mode

Open File

Increase and Decrease Player size
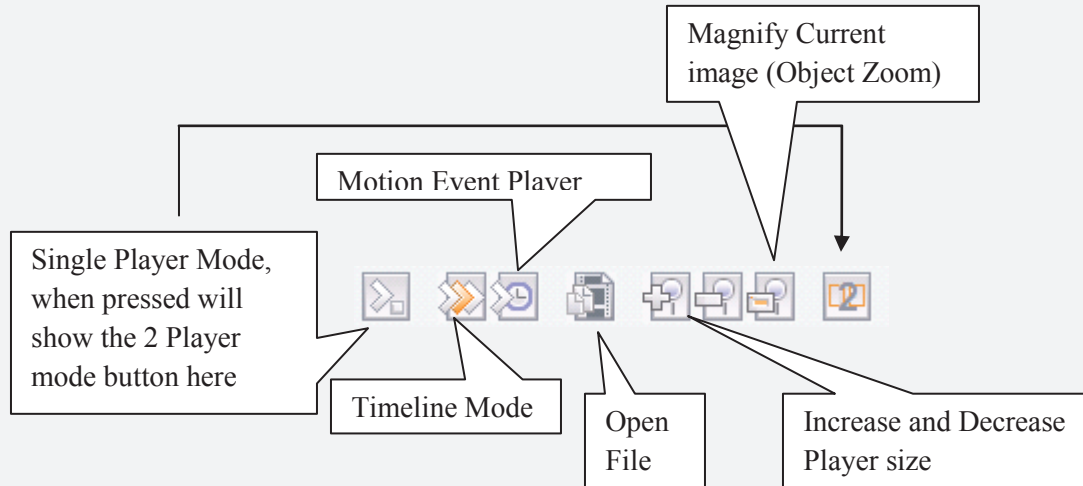
Single/dual Player Mode: These buttons will allow you to either display one or two players to play the same video and control it in two different players.

Timeline Mode: Timeline mode is best used with cameras that are set to Motion Only Recording Type, pressing the Timeline Mode button will display the following:

The orange tick marks designate motion events/recordings, use the plus and minus buttons to display whole days, hours or minutes. Place your cursor on any of the orange tick marks to begin playing that motion event.

Motion Event Player: Pressing this button will expand the Motion Events pane; refer to page 91 to learn about Motion Events.

Open File: In some cases browsing to video location is not enough and the ability to open a specific file is needed. In that case press this button and browse to the location of this specific file.

Magnify Current Image (Object Zoom): Object zoom, when pressed, each click will produce a pop-up titled Object Zoom that will allow for printing, zooming in and out as well as saving to a location for later retrieval. Here is a sample:
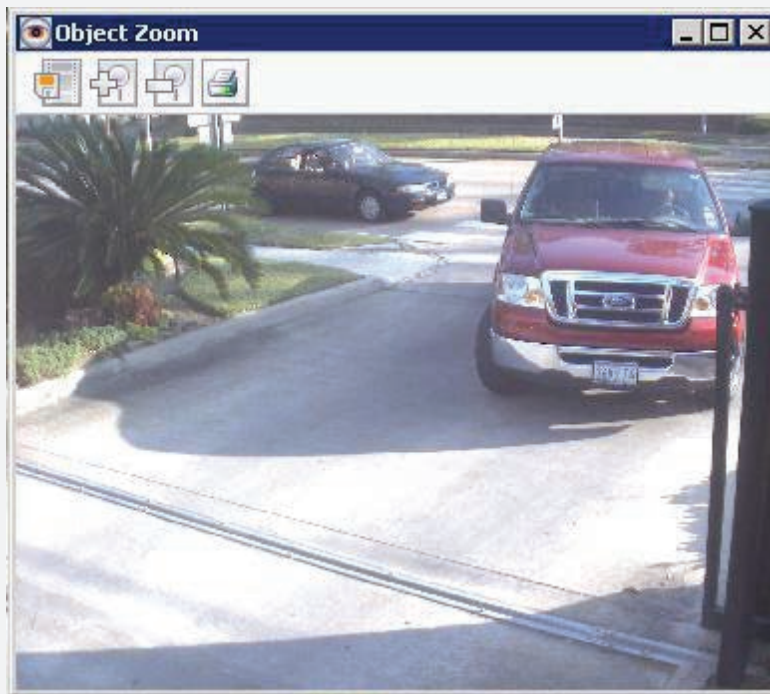
> *Please Note:* Regardless of the option selected the size of the image that will print will always be the resolution size the camera is configured for.

F. Synchronized Player
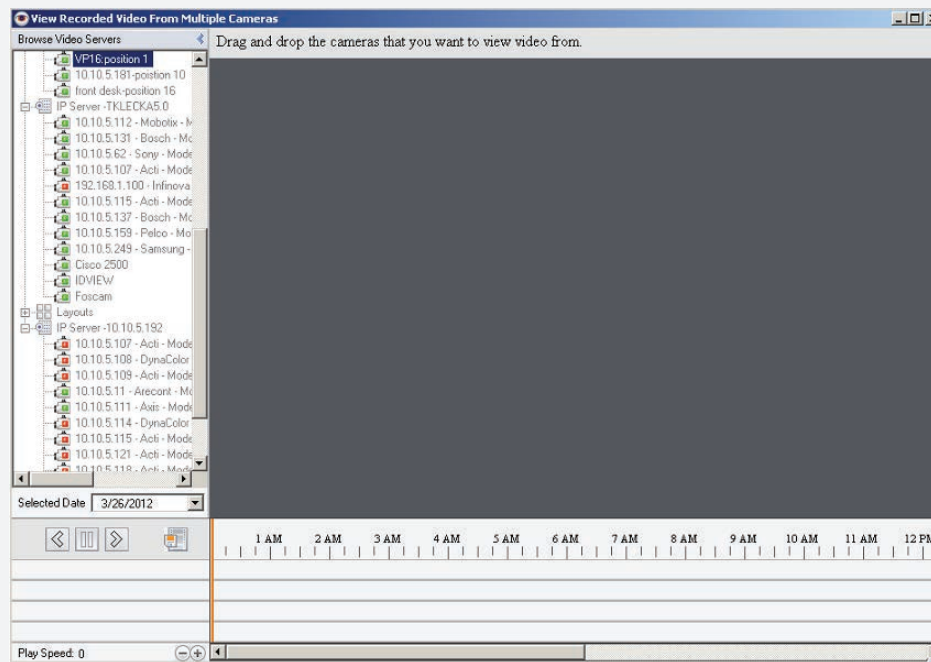
The new Synchronized player is easy to access and use, to access it follow the steps outlined below:

 1. Launch Monitor Station
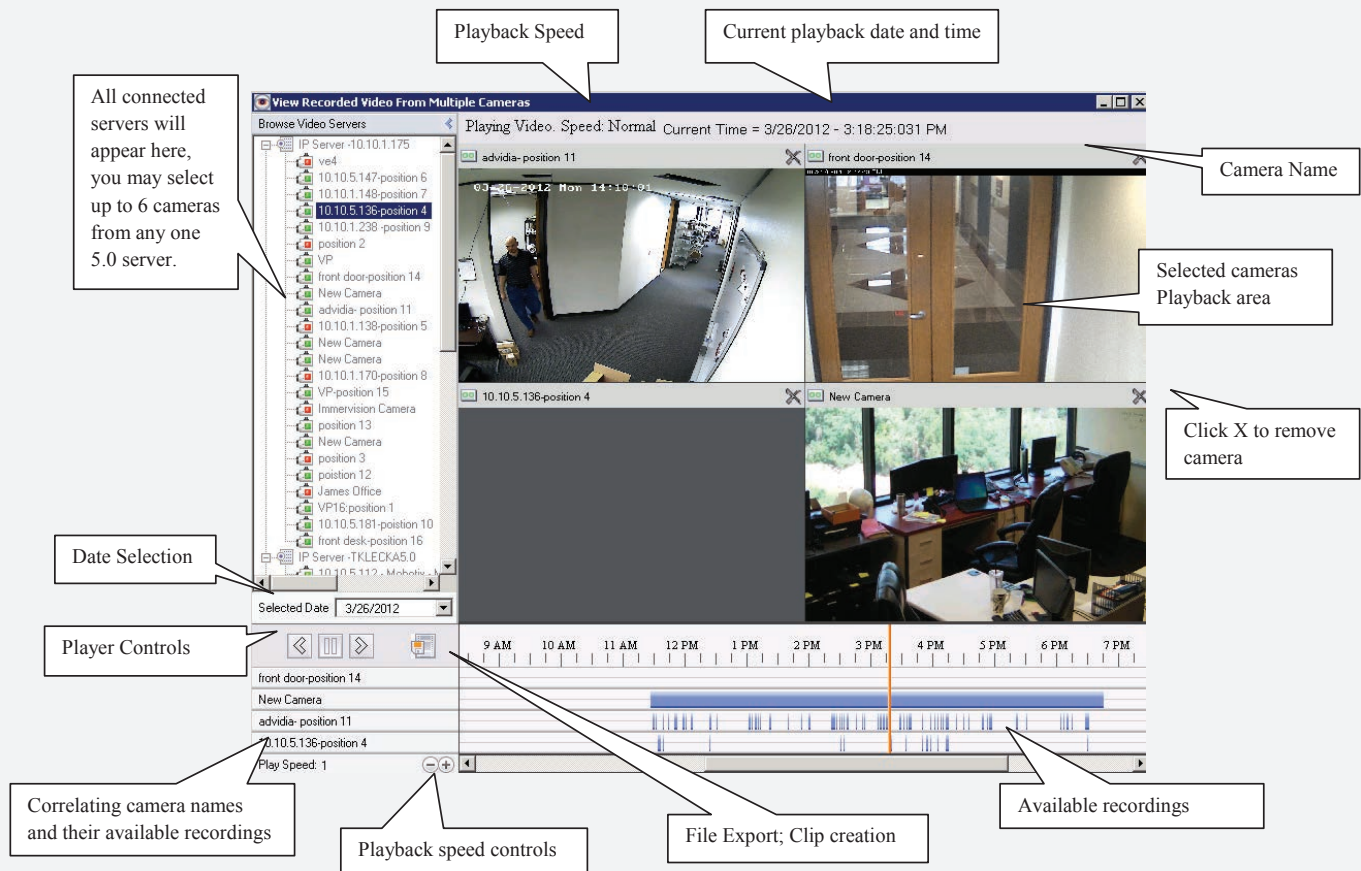 2. Navigate to Tools>Synchronized Player

3. Drag and drop up to 6 cameras of your choice from the left navigation tree to the main playing area.

Please Note: all of the cameras selected should be from the same server

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Playback Speed

Current playback date and time

All connected servers will appear here, you may select up to 6 cameras from any one 5.0 server.

Camera Name

Selected cameras Playback area

Click X to remove camera

Date Selection

Player Controls

Correlating camera names and their available recordings

Playback speed controls

File Export; Clip creation

Available recordings

Once the cameras are placed in the playback area all of the available recordings for the selected date (default date is Today) will begin loading and will appear as they do in the Available Recordings area.

Recording Types: The solid blue line indicates a camera that is using the Record Always Recording Type; the thin scattered blue lines indicate the camera is using the default Motion Only Recording Type.

Once the recordings load, the vertical orange bar will move to the earliest recording and begin playing the video for the applicable camera(s). As seen above not all cameras added to Synchronized Player will have recordings at the same time and as such the camera(s) without recording will pause or remain gray while the camera(s) with recording continue to play. Once the recording is synchronized (e.g. all cameras show a blue mark for the same time) all of the camera(s) with recordings at the same time will play synchronously. Here is a sample to illustrate that scenario:

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3 cameras are playing: position 11, position 4 and position 7

Position 9 camera is gray because there are no motion events or recordings to display
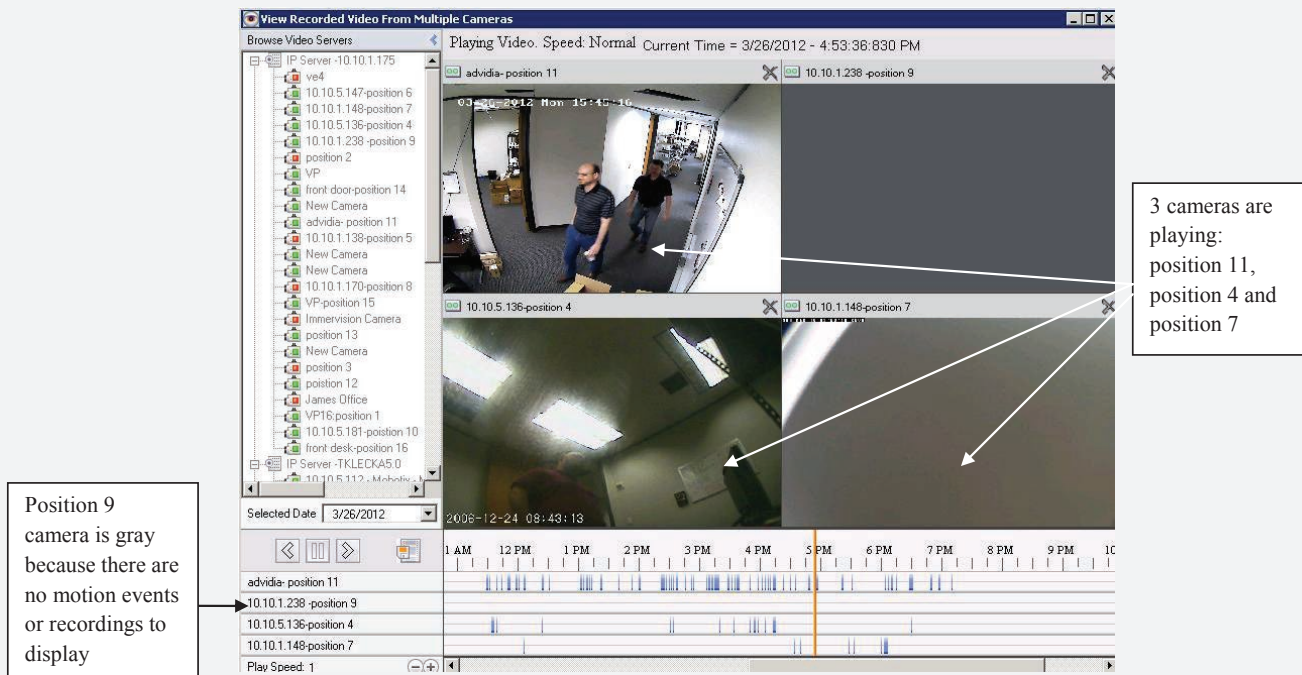
Replay Video: As the video is playing back the vertical orange bar will progress along the timeline until end of day or end of recordings is reached. You may click anywhere in the timeline to replay a motion event.

Changing Date: Upon launching the Synchronized Player, the Scheduled Date dropdown will default to today's date as shown below; simply elect a different date from the calendar to load those videos.
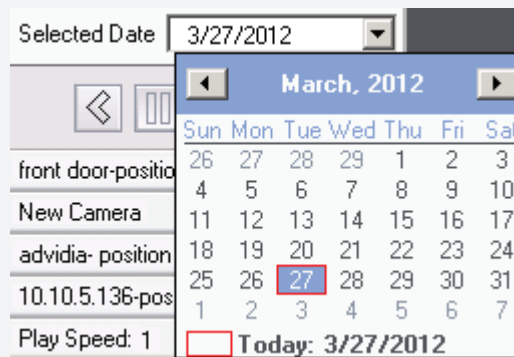
Playback Speed: Click the '+' or '-'signs to accelerate either forward or backwards speed of the of the video. The number 1 signifies normal playback speed, a 64 is the fastest forward speed and a -64 is the fastest backwards speed.

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Player Controls: The player controls, by default, will first show 3 buttons: Play, Pause and Rewind.

Once any of the buttons is pressed additional speed controls will also appear:

a. 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.

1. From the Synchronized Player pop-up click the File Export icon below the left navigation
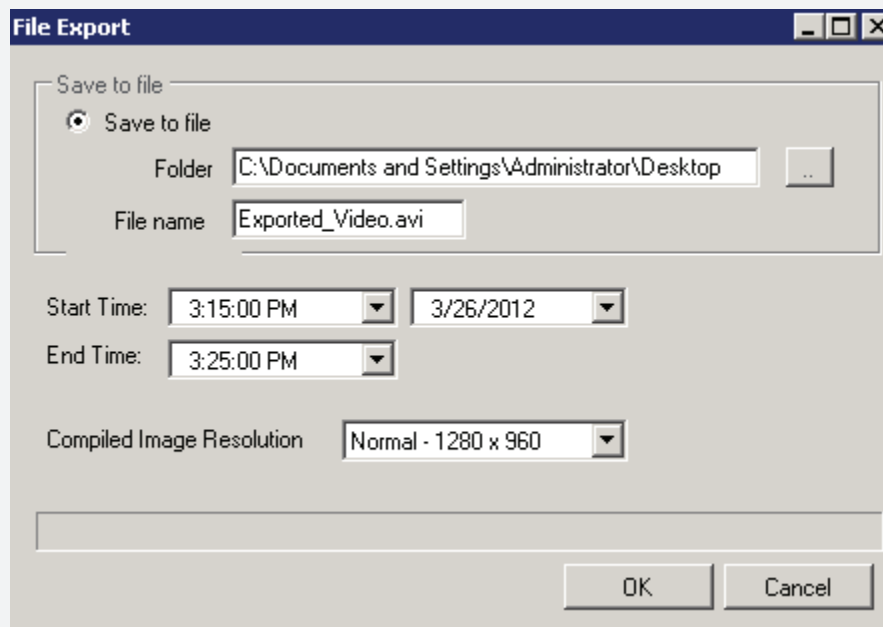
2. Save the file to a location of your choice
3. Accept or change the default File Name
4. Change the default date and time if different than what is currently playing
5. Choose a compiled image resolution
6. Click OK
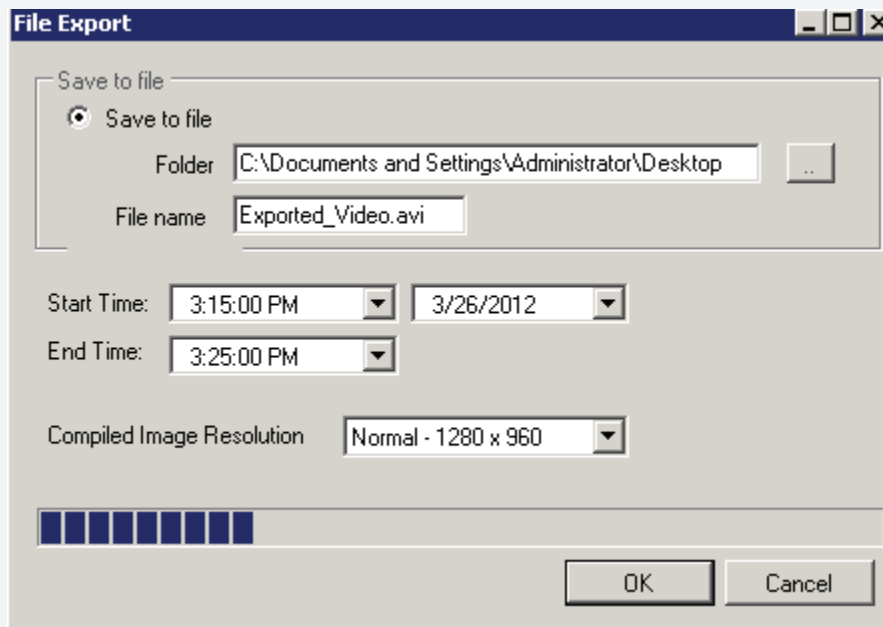
7. Once the export is completed, choose Cancel to close this pop-up.

G. Web Client

The Web Client allows you to view live or recorded video from anywhere using a browser including Microsoft Internet Explorer, Firefox, Chrome, or Safari with optional Active X-plug-in. You can control PTZ cameras and playback recorded video. The system supports multiple users and is tightly integrated into the Windows operating system for complete security.

Regardless of the installation type selected in the Installation section, the Web Client is automatically installed if IIS is configured.

a. Configuring IIS

The following steps are similar for all Operating Systems, however if the directions are slightly different consult your System Administrator or the Operating System's manual to identify how to add IIS.

1. Access Control Panel
2. Navigate to Add/Remove Programs
3. Click Add/Remove Windows Components, the following will appear (on XP for example)
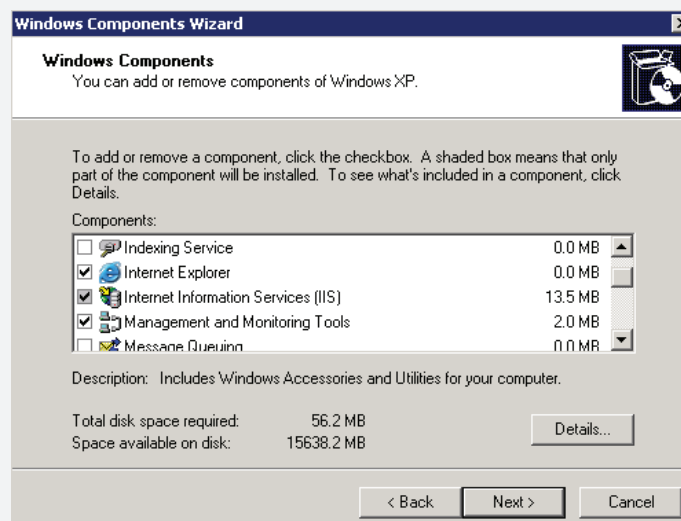
4. Check the Internet Information services (IIS) option
5. On a few Operating systems that option will show children nodes as well, here is an example on Windows 7:

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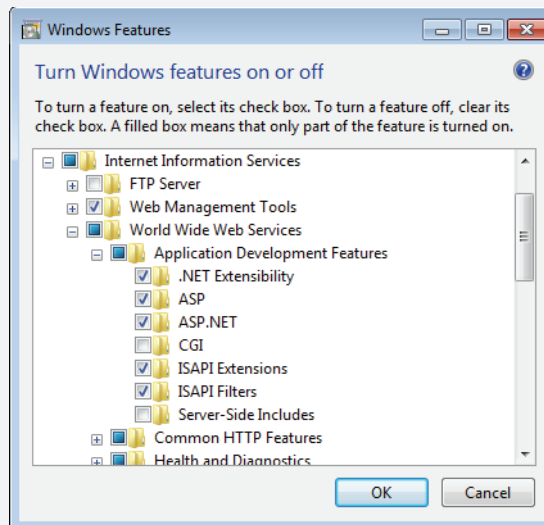
6. Be sure to check those as shown above as well if applicable to the Operating System you are using.

7. Once configured you may continue to install the software.

b. Accessing the Web Client

1. Navigate to Internet Explorer

2. In the Address bar type the following: http://<your- IP- Address>/videoinsight4

3. If Security is off you will be shown all server(s) and cameras ready to be checked for viewing. Otherwise a login prompt will appear as follows:


4. Enter valid credentials

5. Select the applicable Profile from the dropdown

6. Click Login

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 may have an intranet user profile that permits high speed video over a local area network and an internet user profile that limits video frame rates for use on slower internet connections. you are using the web client from.

c. Using the Web Client
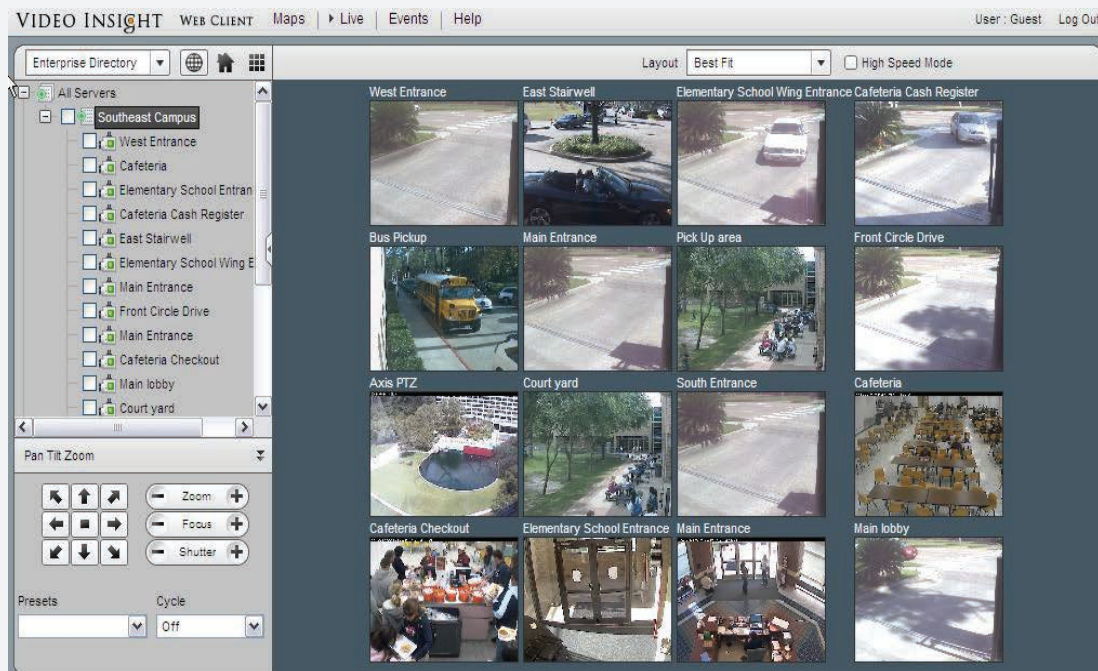
There are two main sections of the screen:
    • Left Navigation tree structure which can be used to navigate from camera to camera and to view recorded files.
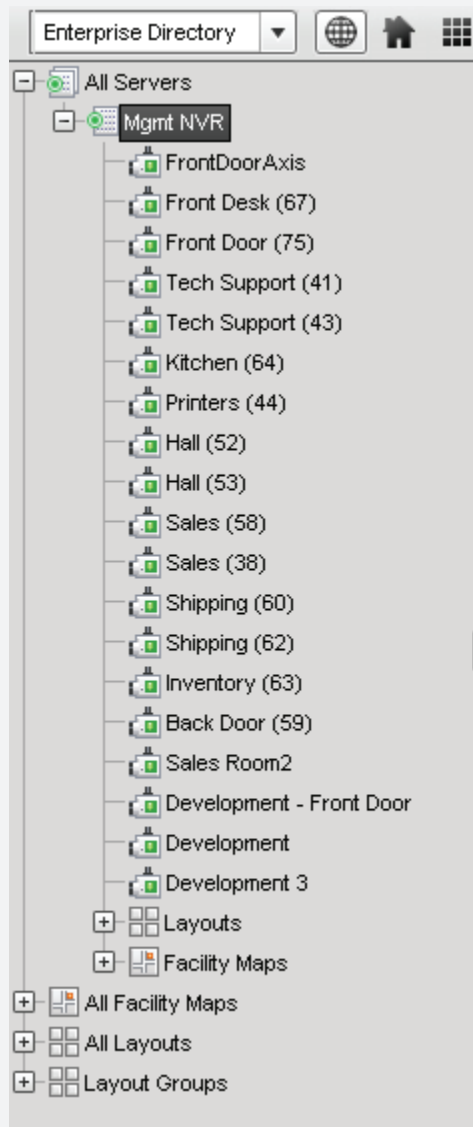
    • Viewing Panel

Left Navigation Tree Structure

The Left Navigation Tree Structure on the Web Client functions in a manner very similar to the Monitor Station. Just above the navigation tree structure are three options for sorting the tree:

→   🌐   Enterprise View (default)

→   🏠   Facility Map View

→   ▦   Layout View

Enterprise View

Orders the navigation tree based on server hierarchy; you can view the cameras, layouts, and facility maps for each server.


Under this view, a listing of all servers, cameras, layouts and facility maps is shown.

From the list of the cameras, maps or layouts, you select the cameras that you wish to appear in the Viewing Pane. You may also select a layout or a facility map or a Layout Group.

Facility Map View

Orders the navigation tree based on a facility hierarchy; this view lists all of the cameras and layouts for each facility map.

As with the Monitor Station, you can also select the Facility Map view. Once you select a facility map, the map appears in the viewing pane. You can mouse over the camera icons on the maps to view live images from that camera.
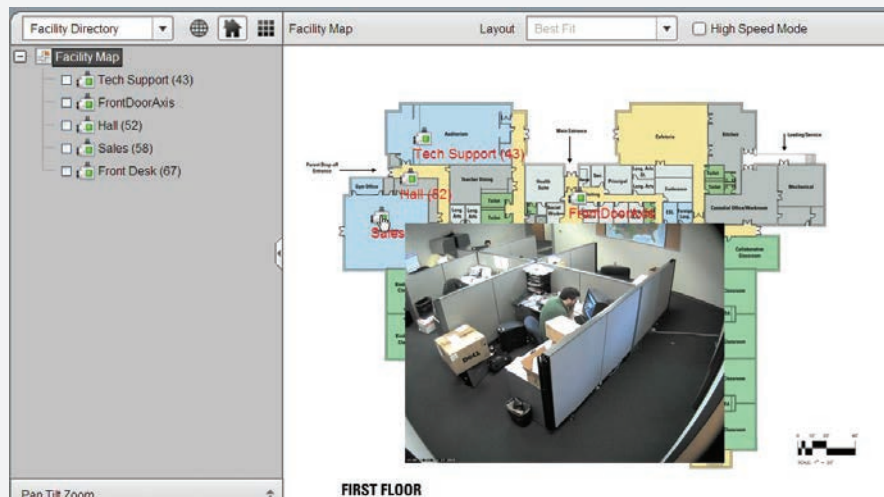

Layout View

Orders the navigation tree based on a layout hierarchy; this view lists all of the cameras for each layout.

Selecting the layout from the tree displays the layout on the right hand side of the screen. You may also select individual cameras from each layout, or mix and match multiple layouts and cameras by checking the box next to each item.
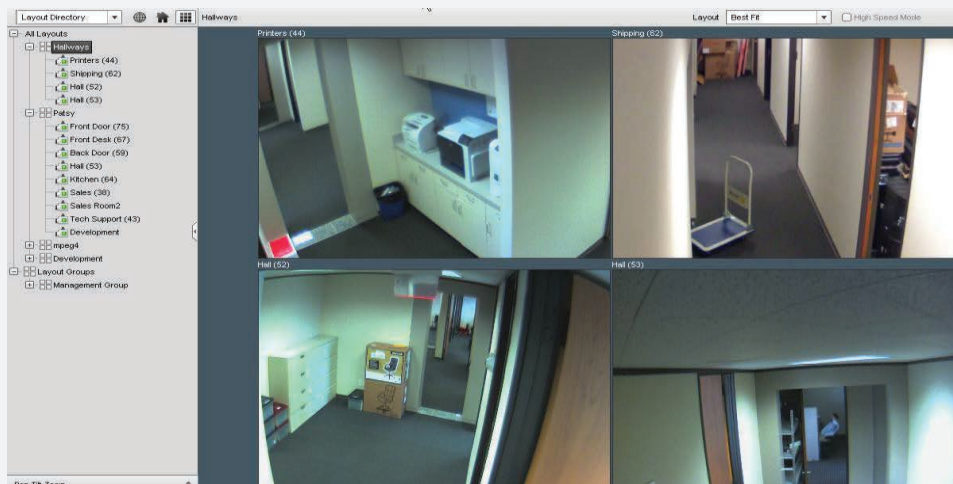
PTZ Control

Selecting a pan/tilt/zoom enabled camera from the navigation tree automatically expands the PTZ Control panel. Alternately, you may expand or minimize the panel by clicking the double arrows at the lower right hand side of the navigation tree.
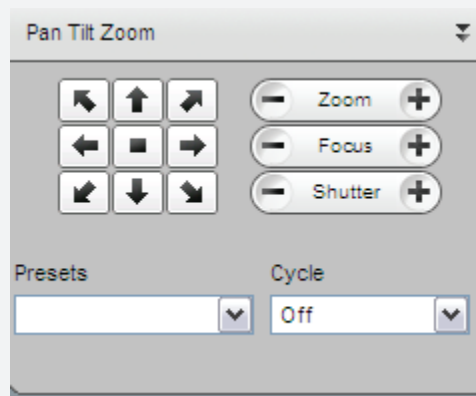
Predefined camera presets are listed in the Presets drop down list. See your system administrator concerning these presets. The cycle option allows you to cycle through presets on the selected camera.

Viewing Panel

Once you have selected the cameras or layouts from the left navigation tree, the images from those cameras will appear in the Viewing Panel.
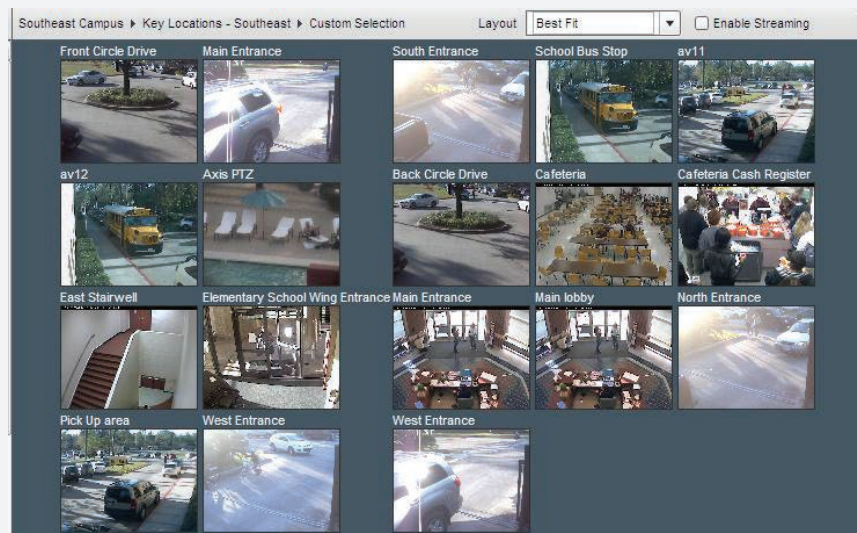
Layout Option

The Layout drop down list allows you to change the layout for viewing camera images. You can choose one of the predefined camera layouts, or let the system automatically display the optimum layout by selecting "Best Fit".
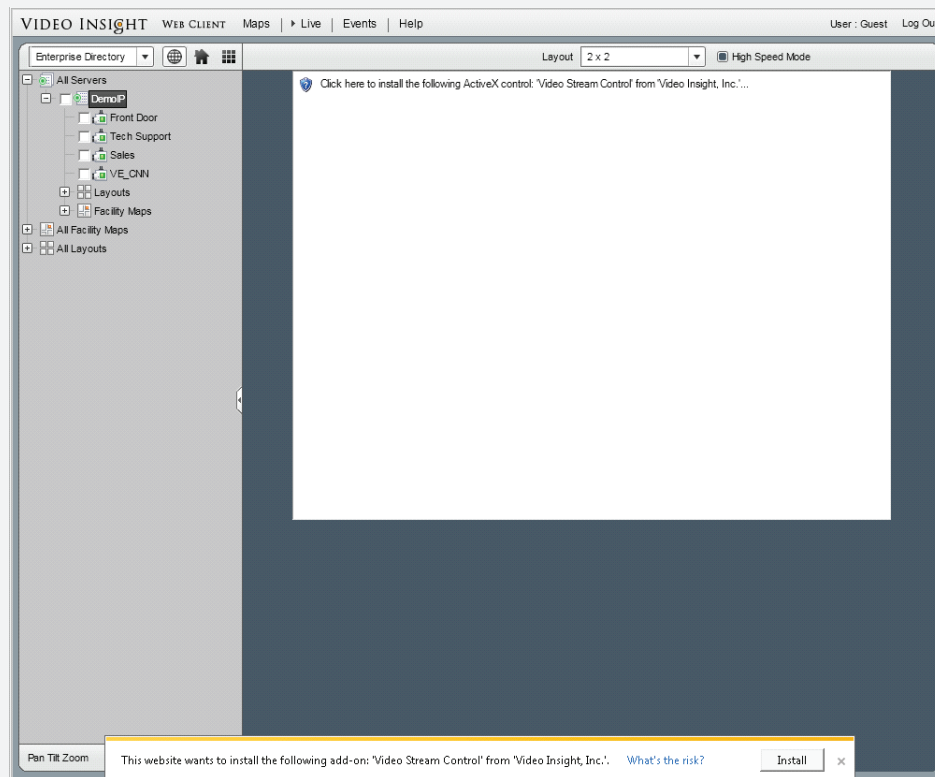

High Speed Mode

Checking this box enables high-speed video streaming in your browser. This option requires Microsoft Internet Explorer and a onetime install of the Video Stream control. Once installed, you will be able to view MPEG4 and H.264 video in your browser.

To install the Video Stream Control

1. Using Internet Explorer to view the Web Client, select a server or camera from the navigation tree.
2. Check the High Speed Mode box in the panel header just above the video.
3. You will be prompted to install the Vide Stream Control. Depending on what version of IE you are using, the following screen appears:

4. Click Install and wait while the software installs. Note: If video does not appear after a few seconds, try clicking "Refresh" on your browser. You will see high speed video after the installation completes.
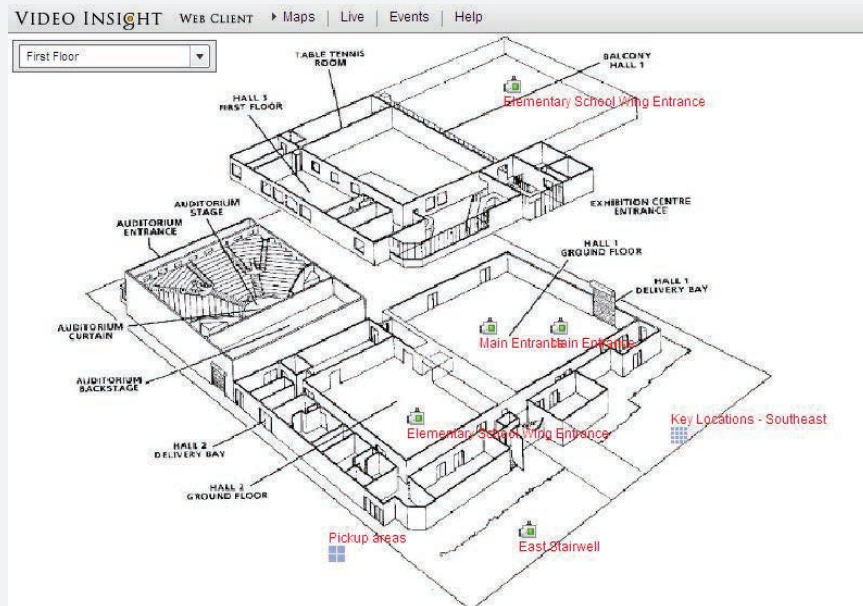
Web Client Tool Bar

Live View

When the web client is first opened, this Tool Bar will be set to Live. When Live is selected, the camera images in the Viewing Pane are live images.

Maps

When the Maps Option is selected, only the Facility maps will appear on the web client. The left navigation bar will disappear.

Events

Clicking the Events link in the menu bar will take you to the Events Screen. The Events screen allows you to replay recorded images from cameras. The navigation tree is similar to the Live screen and gives you the option to select camera recordings via the Enterprise, Facility, or Layout View.

There are two sections of the Events panel: the Camera Selector and the Events.

The top pane is used to select the cameras or recordings. Once the camera has been selected, select the desired date and a list of events for that date appear.
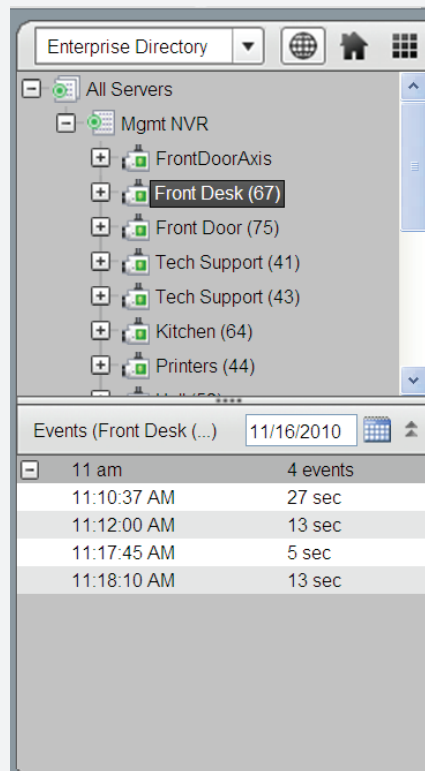
To view recorded video select the individual recordings.

The selected recording video will appear in the Viewing Pane.

The playback controls will depend on whether Streaming is enabled. If streaming is not enabled, then a simplified playback control appears.
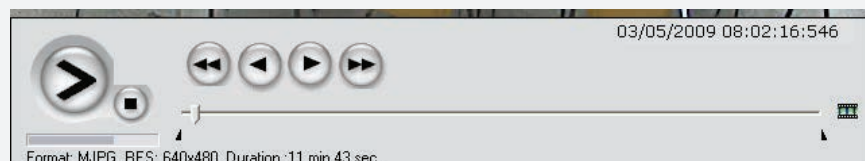
Use the Slider bar to navigate through the recording.

To create a clip, click on the Clip icon and set the clip indicators to the portion of the recording that you want to save. Then click on the Download Clip Icon.

The following dialog box will appear:
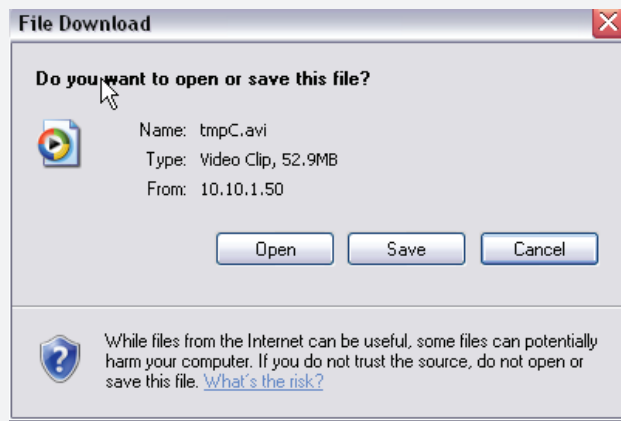
Save the clip to the desired media or directory.

If Streaming is Enabled, then the more robust playback controls appear.

These controls function in exactly the same manner as the Playback controls in the Monitor Station client.

Zoom on Playback – Available only when streaming is disabled

The software provides the ability to zoom on playback as well as live view. To zoom in on a picture, position the mouse on the upper left hand corner of the area that you want to zoom in on, then press the left mouse button and drag the mouse over the area to be zoomed. The system will then zoom in on the area. To zoom out, position the mouse in the lower right hand corner, then press the left mouse button and drag the mouse back over the area. The system will then zoom out to the original view.

Saving a Clip

To save a clip, open the recorded file and press the Pause button to stop playback. Notice the "clip indicators" under the scroll bar. Drag the left indicator to the start of the clip and drag the right to the end of the clip. Once in position, click the diskette icon to bring up the clip menu. You can save the file to a folder or directly to a CD. If you save to a CD, the system will give you the option of include a Stand-alone Video Player with the clip.