

# **VIGIL**

## Server 11.5

**Video Management Software Service**  
User Guide

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# 1 Introduction

This guide describes the operation of 3xLOGIC's VIGIL Server Software Service.

VIGIL Server is cutting edge video management software service with an abundance of powerful features, toolsets and accompanying utilities. Server's enhanced integration with video analytics-capable cameras, micro-management style settings and POS/ATM capability are just a few examples of the features that can help to improve the efficiency and stability of your business. Its intuitive design provides ease of use for the most basic user while providing virtually unlimited flexibility for the advanced. As of v11.50.0000, Server has been converted to a 64-bit service and has been engineered to be securely and seamlessly accessible via 3xLOGIC's remote VIGIL Client software, giving you access to your Server and all its data from single or multiple remote location(s).

The following guide will familiarize you with the software interface and its many features but do not hesitate to contact us with any questions, concerns or suggestions, See "Contact Information" on page 122

Welcome to 3xLOGIC's VIGIL Server.

This user guide is current as of VIGIL Server 11.50.0000.

Disclaimer: \*This application has been optimized for use Windows 7, Windows 8.1 and Windows 10. 3xLOGIC does not actively support other operating systems. Installing this application on operating systems other than the those mentioned above may have undesirable consequences.

## 2 Software Features

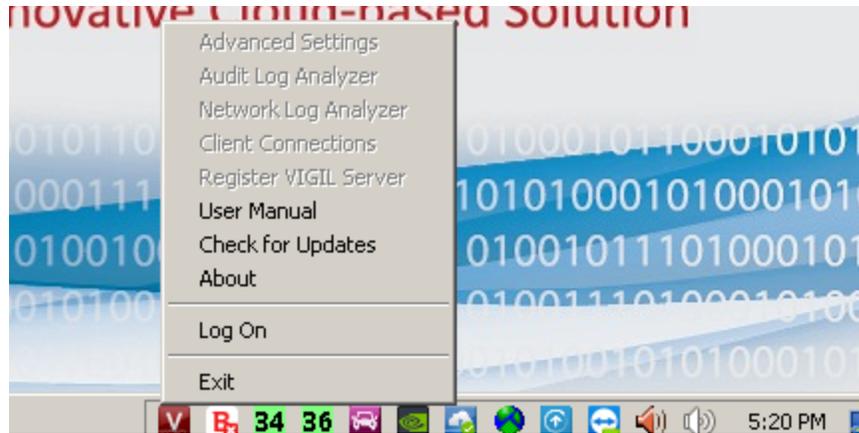
This section describes some of the features of VIGIL Server.

Feature	Details
<b>Individual Camera Settings</b>	Configure each camera independently: brightness, contrast, sharpness, hue, resolutions, and more.
<b>Configurable CODEC Settings</b>	Change CODEC settings for each camera such as compression, quality, noise reduction, and more.
<b>IP Camera Support</b>	VIGIL Server supports up to 64 IP hi-resolution cameras without the need for an installed capture card. With full support for ONVIF Profile S, VIGIL Server is compatible with most modern IP cameras.
<b>POS Integration</b>	Built-in support for several popular serial and IP POS systems with advanced VIGIL Client POS search for data, events and exceptions available with additional VIGIL POS (V-POS) licensing.
<b>DIO / Alarms / Relays</b>	VIGIL Server features support for several popular physical DIOs (e.g. ADAM 6060) and also contains built-in Virtual DIO / Alarm / Relay functionality.
<b>Full Video Search Capabilities via VIGIL Client</b>	Retrieve a list of stored footage for specified cameras from a start date / time to an end date / time and a variety of other search criteria using Server's companion software, VIGIL Client.
<b>Footage Restriction and Footage Locking</b>	Restrict footage to allow only users with sufficient permissions to review it. Lock footage to prevent it from being scavenged, preserving the footage for playback on the system, regardless of age. Restricting and locking footage, as well as management of locked and restricted footage is performed only via the VIGIL Client interface.
<b>Two-Way Audio</b>	VIGIL Server's <i>Audio Talk</i> feature allows for easy two-way audio communication via properly configured camera's with two-way audio capability. After configuration, the audio talk controls can be accessed via VIGIL Client.
<b>Exporting / Saving Video and Images</b>	Powerful export capabilities via VIGIL Client enable you to save video footage in AVI or Authentic Video (MJPEG) formats. Save still shots in JPEG or BMP formats.
<b>Full VIGIL Suite Support</b>	VIGIL Server is a service and is intended to be interfaced with all products comprising the VIGIL VMS Software Suite. This includes VIGIL Client, VIGIL Central Management, VIGIL VDM, View Lite II Mobile App, 3xCLOUD and more. In conjunction with the VIGIL Suite, VIGIL Server offers a complete and comprehensive set of tools to meet the needs of any user, from single-point applications to enterprise-level networks.
<b>infinias™ Integration</b>	Integration with 3xLOGIC's infinias CLOUD and Intelli-M Mobile Access Control products provides a scalable video surveillance and access management solution, and a seamless, consistent user experience encompassing two of 3xLOGIC's cornerstone products. Users can access a VIGIL Server's integrated infinias interface via the VIGIL Client application.

## 3 Accessing VIGIL Server

### 3.1 System Tray Server Icon - Right Click Menu

To access VIGIL Server, right-click the  VIGIL Server System Tray icon .



**Figure 3-1:**VIGIL Server System Tray Icon- Right-Click Menu

All options will be inaccessible (except *User Manual*, *Check for Updates* and *About*) until the user has logged into VIGIL Server. Click **Log on**, enter your user credentials and click **Log in**. All tray icon menu items will now be accessible.

Menu Option	Description
<b>Advanced Settings</b>	Opens the <i>Advanced Settings</i> window. All available settings are described in the proceeding sections of this user guide.
<b>Audit Log Analyzer</b>	Open the <i>Audit Log Analyzer</i> . See "Audit Log Analyzer" on page 106 for more information.
<b>Network Log Analyzer</b>	Open the <i>Network Log Analyzer</i> .
<b>Client Connections</b>	Open the <i>Client Connections</i> window. See "Client Connections" on page 106 for more information.
<b>Register VIGIL Server</b>	Open VIGIL Registration Utility. See "Registration" on page 110 for more information.
<b>User Manual</b>	Launch the VIGIL Server User Guide.
<b>Check for Updates</b>	Launches the VIGIL Remote Updater. Please see the latest version of the VIGIL Remote Updater User Guide for more information.
<b>About</b>	Opens the <i>About 3xLOGIC Inc. VIGIL Server System</i> window that contains information such as: <ul style="list-style-type: none"> <li>■ Remaining Trial Period Time</li> <li>■ Registration information,</li> <li>■ Serial number / VIGIL Connect alias</li> <li>■ QR Code for instant integration of a Server with the View Lite smartphone app.</li> <li>■ Software version (including IP Camera and POS .dll file versions).</li> <li>■ SUP(Software Upgrade Plan) Activation.</li> </ul>
<b>Log On / Log Off</b>	Log on or off of the VIGIL Server.
<b>Exit</b>	Quit the VIGIL Server application.

## 4 Advanced Settings – Camera Setup Tab

VIGIL Server is a diverse software application that interfaces with a wide variety of hardware configurations. A comprehensive set of customization controls is available to configure the VIGIL Server as required. This section will describe the available settings in detail.

To access settings, right-click the system tray VIGIL icon and select **Advanced Settings**. The *Advanced Settings* window will deploy with the *Camera Setup Tab* displayed by default. DVR / NVR Type and version will be displayed in the window header.

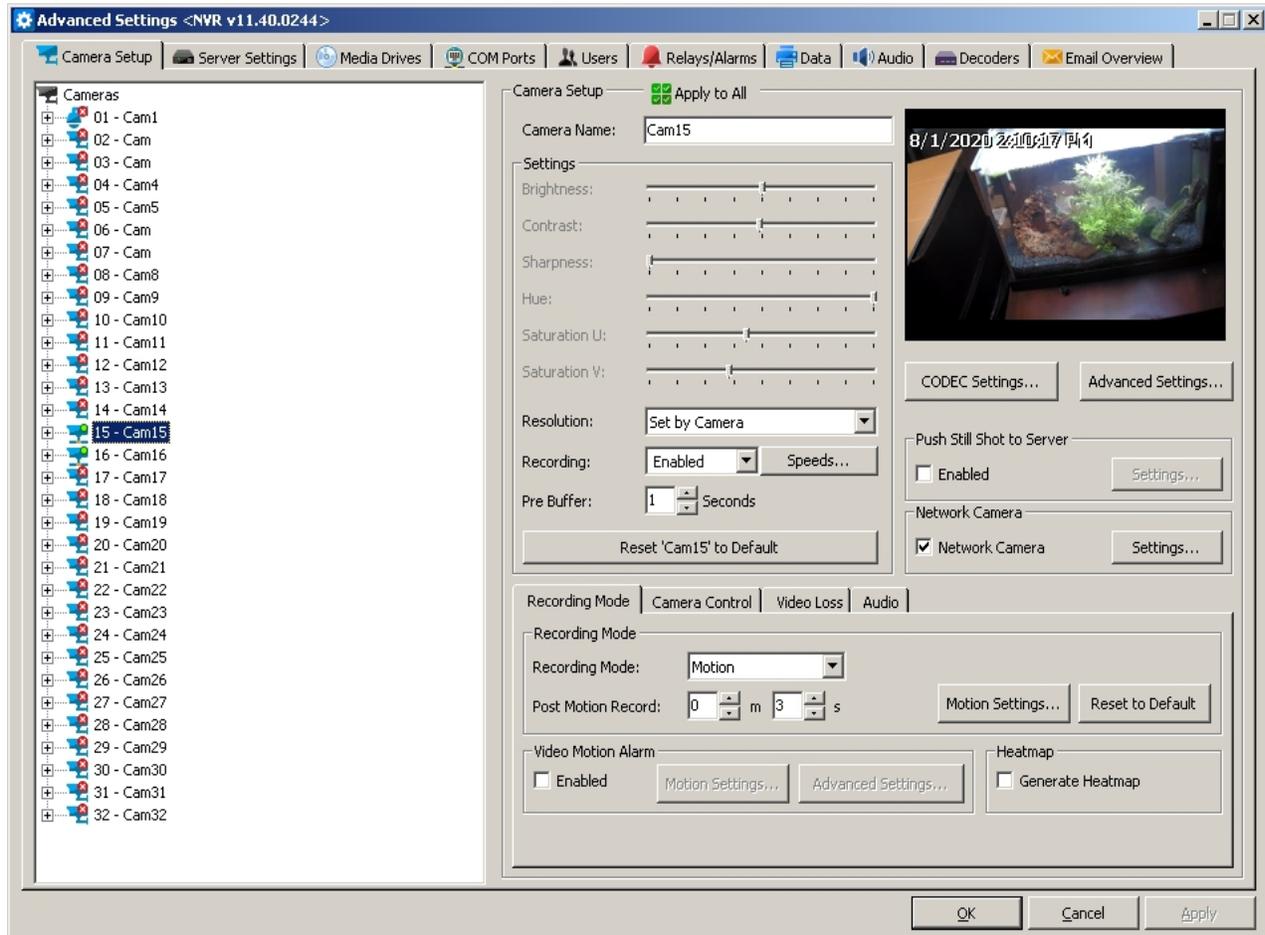


Figure 4-1: Settings - Camera Setup Tab

The *Camera Setup Settings* allow configuration of the camera image, resolution, recording speed, buffering and CODEC. Network cameras are also enabled under the *Camera Setup* tab.



Click the *Apply to All* button at the top of the window to apply the same settings to all cameras. Settings that will be applied to all cameras will be indicated by **BOLD** headings.



**Note:** Only changes made after clicking *Apply to All* will be applied to every camera.

## 4.1 Camera Setup Tab - Camera Settings

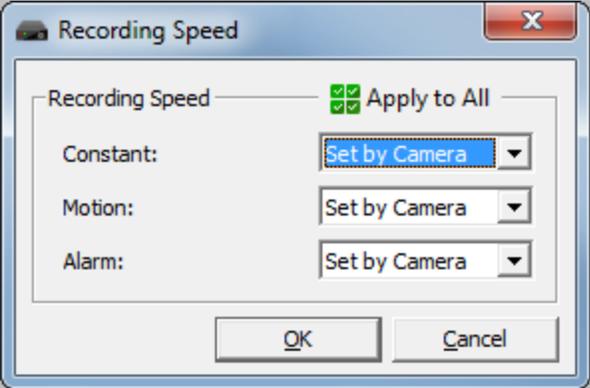
<b>Brightness</b>	Adjusts the brightness of the video footage.	
<b>Contrast</b>	Adjusts the contrast of the video footage.	
<b>Sharpness</b>	Adjusts the sharpness of the video footage.	
<b>Hue</b>	Adjusts the color of the video footage.	
<b>Saturation U and V</b>	Adjusts the U and V color difference signals used in YUV color format for the video footage. Note that not all cameras use a YUV color format, in which case, adjusting the <i>Saturation U</i> slider will adjust the color saturation while the <i>Saturation V</i> slider will have no effect.	
<b>Resolution</b>	Select a recording resolution from the drop-down menu. Options range from 352x240 to 704x480 resolution. If a network camera is enabled on the channel, this option will not be available.	
<b>Recording</b>	Use the drop-down menu to enable or disable recording of the selected camera. If the selected camera is not available, <i>Inactive</i> will be displayed here.	
<b>Pre Buffer</b>	The number of seconds of footage to record prior to a motion detection or alarm event. For JPEG Camera streams the recommended setting is 1. For H264 Camera streams it is recommended to set the pre buffer to the key frame rate.	
<b>Speeds</b>	<p>Opens the <i>Recording Speed</i> window. The recording speed can be set individually for <i>Constant</i>, <i>Motion</i> and <i>Alarm</i> Recording Mode. Use the drop-down menu to select the desired number of frames per second (fps).</p> <p><b>Note:</b> Network cameras will often record and play back at a slower rate than what was set in the <i>Recording Speed</i> window, depending on the bandwidth and camera.</p>	
<b>Reset 'Cam#' to Default</b>	Returns the camera settings to their default values.	

Figure 4-2: Recording Speed Window

### 4.1.1 Advanced Settings

In the *Advanced Settings* window, the cameras are grouped into *Bank* tabs that represent the physical camera banks in the VIGIL Server. This allows the user to maximize the capture resolution and recording speeds for each camera bank. When the number of FPS is changed in the *Advanced Settings* window, it is applied to all recording modes.



Figure 4-3: Advanced Settings - Camera Banks



**Note:** The number of banks and the cameras in each bank is determined by the capture card installed, which cannot be configured. There are many possible layouts of banks and channels per bank.

<b>Camera</b>	Select a camera number within the current <i>Bank</i> tab to change its settings.
<b>Capture Resolution</b>	Select the desired recording resolution from the drop-down menu.
<b>Recording Speed</b>	Select the desired number of frames per second. Each bank has a set amount of FPS that can be set to its cameras. Values will change depending on the recording speeds for other cameras within the same bank.
<b>Network Camera Tab</b>	Network cameras are automatically detected and the analog feed is disabled for that camera number. Network camera speeds are independent of other cameras and do not change the maximum allowable FPS for cameras belonging to the same camera bank.

#### 4.1.2 Push Still Shot to Server

The *Push Still Shot to Server Settings* window allows a still shot from the camera to be copied periodically to another location. To enable this feature for the selected camera, check the *Enabled* box. Click the *Settings...* button to configure the destination for the still shots. This applies to all cameras.

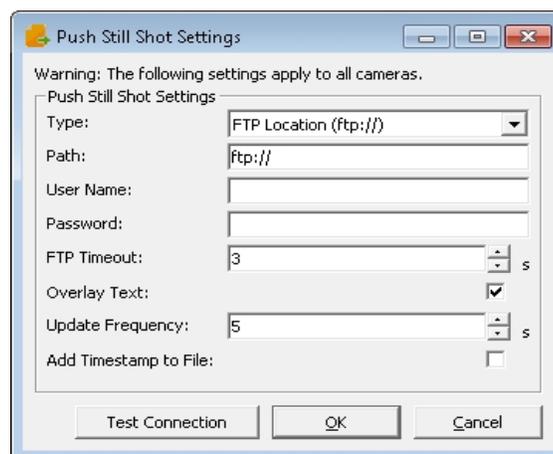
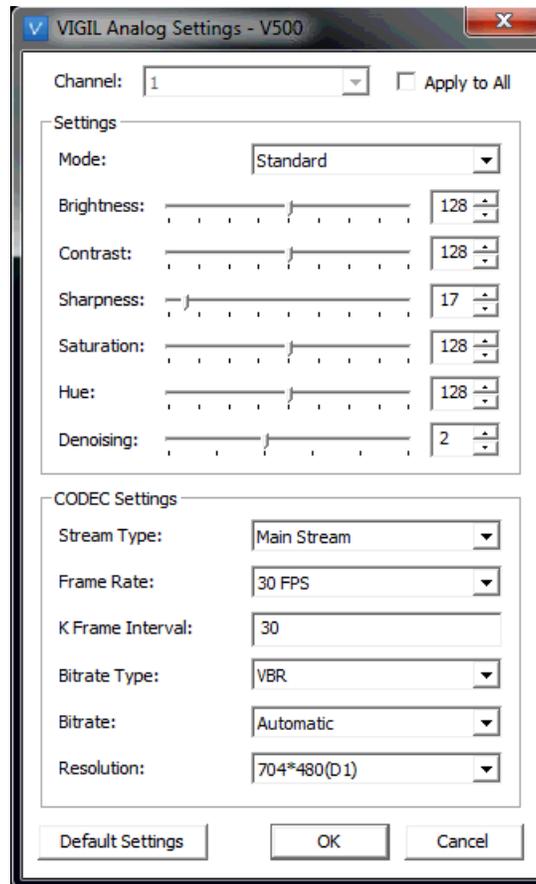


Figure 4-4: Push Still Shot Settings Window

<b>Type</b>	The type of storage location. Options are <i>FTP Location</i> , <i>Windows Network Share</i> and <i>Local Drive</i> .
<b>Path</b>	The path where the image files will be uploaded (only pre-existing directories can be used). <b>Local Directory:</b> C:\Images. <b>Network Directory:</b> \\ComputerName\SharedFolder. <b>FTP site:</b> ftp://ftpserver/folder.
<b>FTP User Name and Password</b>	If required, enter the user name and password for the FTP Site.
<b>FTP Timeout</b>	The time to wait in seconds before a timeout occurs.
<b>Overlay Text</b>	Check this to have an overlay of the camera name, date, and time on the still shot.
<b>Update Frequency</b>	The frequency, in seconds, at which the image file is uploaded to the specified path.
<b>Add Timestamp to File</b>	Enable this option to append still-shot file names with a timestamp.
<b>Test Connection</b>	Tests the connection using the specified parameters. A window will display a message stating whether the connection is successful or not.

### 4.1.3 VIGIL Analog Settings Utility

On some capture card systems (3xLOGIC's v250 Hybrid, v500, etc...), the Camera Settings section of the Camera Setup tab will be replaced with an *Analog Settings* button. Click the *Analog Settings* button to launch the VIGIL Analog Settings Utility (pictured below).



**Figure 4-5:** VIGIL Analog Settings Utility

The Channel option will reflect the camera channel which was selected when the utility was launched.. Toggle *Apply to All* to enable global analog settings.

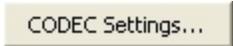
Available settings include standard analog image settings (*Brightness, Contrast, Sharpness, Hue* and *Saturation*). The *Denoising* level can also be set to a custom value between 1-256. Select a pre-configured settings *Mode* from the available drop-down menu. Available modes include Standard, Indoor, Outdoor. Alternatively, select *Custom* as the *Mode* and configure the settings as desired.

The bottom portion of the utility interface features CODEC Settings for the selected channel.

CODEC Setting	Description
<b>Stream Type</b>	Select the stream type you would like to edit the CODEC settings for. Options include <i>Main-stream</i> and <i>Substream</i> .
<b>Frame Rate</b>	Set the selected stream's frame rate. Available values (in FPS) are 30, 20, 16, 12, 10, 8, 6, 4, 2 and 1.
<b>K Frame Interval</b>	Set the selected stream's K-Frame Interval rate. The default rate is 30.
<b>Bitrate Type</b>	Set the stream's bitrate type. Available options are <i>VBR</i> and <i>CBR</i> .
<b>Bitrate</b>	Select the stream's bitrate. Automatic is selected by default but available static options range from 320K - 16384K.
<b>Resolution</b>	Select the stream's resolution. Available options will depend on the camera associated with the selected channel.

## 4.2 CODEC Settings

The *CODEC Settings* window allows advanced configuration of the recording CODEC used for storing video footage recorded on analog cameras.

Click the  button to open the *CODEC Settings* window.

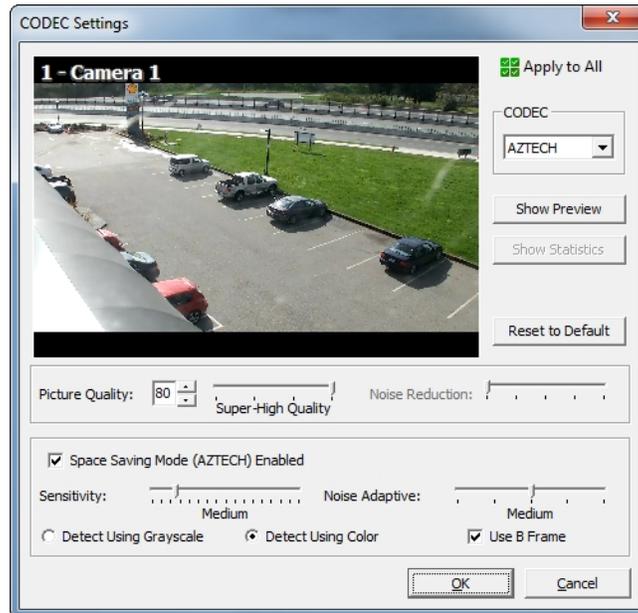
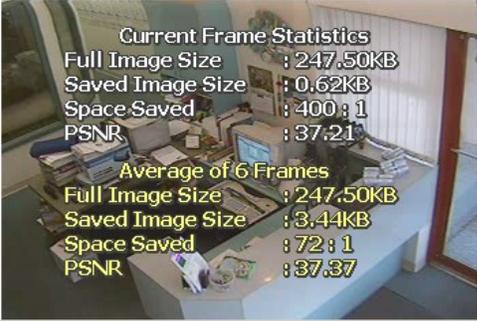
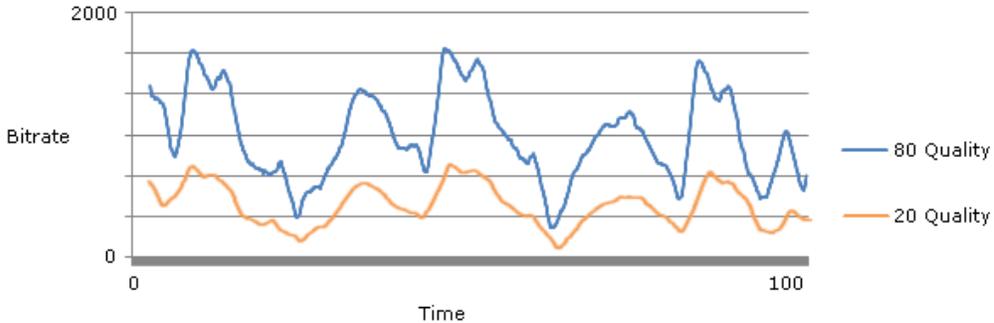


Figure 4-6:CODEC Settings

 <b>Apply to All</b>	Click the <i>Apply to All</i> button at the top of the window to apply the same CODEC settings to all cameras. Settings that will be applied to all cameras will be indicated by <b>BOLD</b> headings. Only changes made after clicking <i>Apply to All</i> will be applied to every camera.	
<b>CODEC</b>	Select between AZTECH and MPEG encoding.	 <b>Note:</b> Normally, two video encoding CODECs are currently available for recording video footage: <i>AZTECH and MPEG4 CODECs</i> . However, some models support Hardware CODECs, which have slightly different customization options.
<b>Show Preview</b>	Plays the camera footage as it encodes the preview window with the settings that are configured.	
<b>Show Statistics</b>		If <i>Show Preview</i> is enabled, <i>Show Statistics</i> can also be clicked to display compression statistics on the preview window.

<b>Reset to Default</b>	Resets the CODEC settings to their default values.
<b>Picture Quality</b>	<p>Adjusts the picture quality of the recorded video. Higher quality video will occupy more space on the video storage drive. The arrows, the text box, or the slide bar can be used to change the value.</p>  <p>How Picture Quality Can Affect Total Disk Usage:</p> 
<b>Noise Reduction</b>	Adjusts the level of video noise for grainy video.

#### 4.2.1 AZTECH™ CODEC Settings

The AZTECH™ CODEC is the default CODEC for most systems. To switch the recording CODEC to AZTECH, select the AZTECH option from the CODEC drop-down menu.

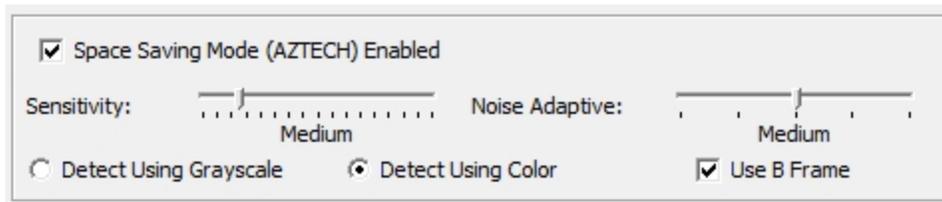


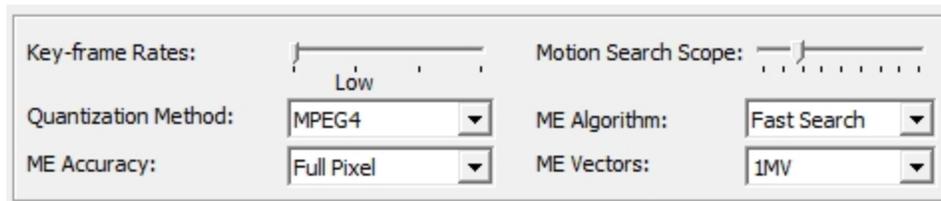
Figure 4-7: AZTECH CODEC Settings Tab

<b>Space Saving Mode (AZTECH) Enabled</b>	<p>Enables advanced compression technology to decrease the file size of recorded footage.</p> <p> <b>Note:</b> This is a CPU intensive setting.</p>
<b>Sensitivity</b>	Adjusts the threshold used by the CODEC to identify areas of change between frames. The higher the sensitivity, the smaller a change is encoded.
<b>Noise Adaptive</b>	Adjusts the noise threshold used by the comparison algorithm when determining whether a block contains a change. When this value is increased, more noise is allowed in the block without triggering change for that block. This feature does not decrease noise in an image.
<b>Detect Using Gray-</b>	Determines whether grayscale or color will be used to detect changes.

<b>scale/ Color</b>	 <b>Note:</b> Color detection is a CPU intensive setting.
<b>Use B Frame</b>	Uses bi-directional frames to decrease the file size of recorded footage.  <b>Note:</b> This is a CPU intensive setting.

### 4.2.2 MPEG4 CODEC Settings

To switch the recording CODEC to *MPEG4*, select the *MPEG4* option from the *CODEC* drop-down menu.

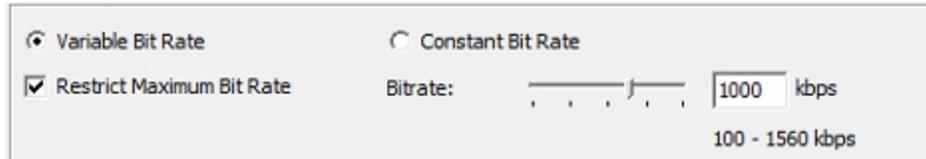


**Figure 4-8:**MPEG4 CODEC Settings

<b>Key-frame Rates</b>	Sets the number of key-frames recorded per second. The higher the value, the greater the data space needed for recording, but the higher the quality of the video.
<b>Motion Search Scope</b>	Changes the size of the regions used to detect motion.
<b>Quantization Method</b>	Selects the type of compression. <i>H263</i> offers less compression than <i>MPEG4</i> but requires more CPU usage.
<b>ME Accuracy</b>	Motion Estimation Accuracy includes two options: <i>Full Pixel</i> and <i>Half Pixel</i> . Full Pixel checks for motion comparing differences of full pixels. Half Pixel will check for motion using an interpolation method that detects finer movements.  <b>Note:</b> Half Pixel is a CPU intensive setting.
<b>ME Algorithm</b>	The <i>Motion Estimation Algorithm</i> changes the shape of the area used for motion detection and includes two options: <i>Full Search</i> and <i>Fast Search</i> . <i>Fast Search</i> will save CPU time but <i>Full Search</i> is more accurate.
<b>ME Vectors</b>	Sets the number of vectors tested for motion from 1 to 4. The greater the number, the more CPU processing is required.

### 4.2.3 Hardware CODEC Settings

Depending on the VIGIL Server model, it may use *Hardware CODEC* recording, which has slightly different customization options. For some types of cards the CODEC used can be changed in the *VIGIL Server Settings | Hardware Tab* via the *Hardware CODEC* drop-down box.



**Figure 4-9:**Hardware CODEC Settings Tab

<b>Variable Bit Rate</b>	The default setting of <i>Variable Bit Rate</i> allows the encoder to change its recording bit rate automatically as required. This option offers the best combination of file size and visual quality.
<b>Constant Bit Rate</b>	Changes a variable bit rate into a constant bit rate. A setting of <i>Constant Bit Rate</i> with a very high bit rate selected will provide the maximum video quality settings, although this is at the expense of storage space. Use the slider or manually enter a bit rate (in kbps) into the available field to set the constant bit rate value.
<b>Restrict Maximum Bit Rate</b>	Sets a hard limit on the maximum quality that can be recorded. Use the slide bar to select the desired maximum bit rate.

### 4.3 Network Camera Settings

Enabling the Network Camera setting on a camera or clicking on the Network Camera - Settings button opens the *Network Camera Settings* form, pictured below.

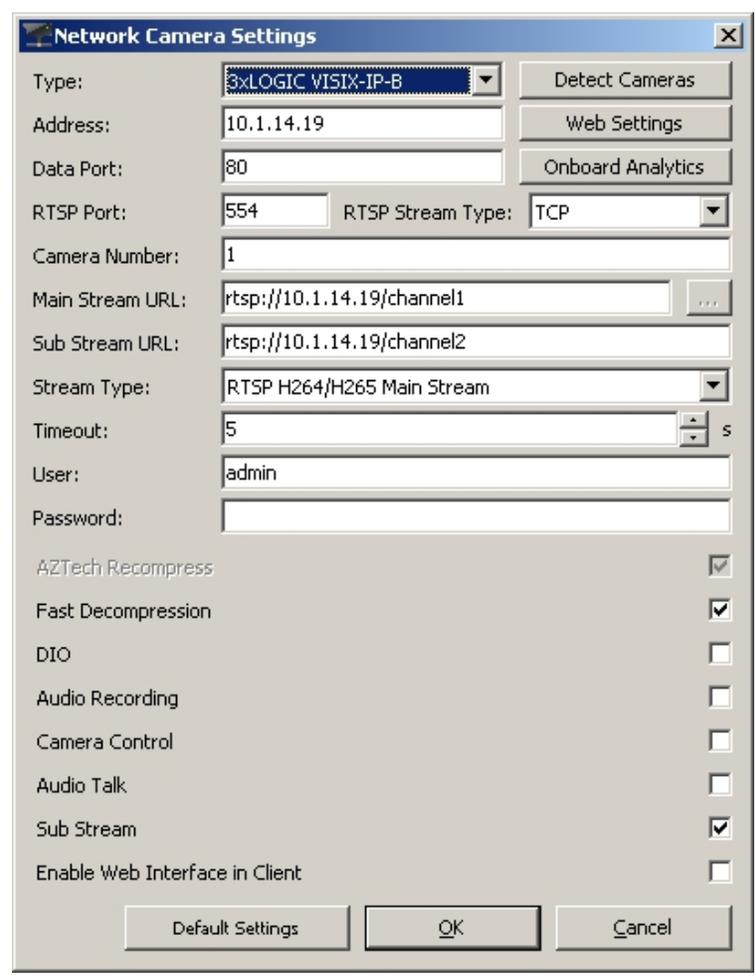


Figure 4-10: Network Camera Settings Window

VIGIL Server is able to receive video from one or many network cameras connected to a LAN or WAN. VIGIL Server currently supports several types of network cameras.

To setup or change a network camera, check the *Network Camera* box, then click the *Settings...* button. This will open the *Network Camera Settings* window. Descriptions for each of the form's fields are as follows:

<b>Type</b>	<p>The type of network camera being configured. See " Network Camera Types " on page 16 for more information on common network camera types.</p> <p> <b>Warning:</b> Due to the substantial overhead associated with HTTP, attempting to record HTTP camera feeds over the Internet is not recommended. High speed LAN or WAN configurations are recommended for HTTP camera use. If the network bandwidth is insufficient, the message <i>Signal Loss</i> will be displayed in place of the live feed.</p>
<b>Detect Camera</b>	<p>If an applicable camera type is selected, this option will be visible. Choose this option to open the associated camera detection utility (<a href="#">3xLOGIC IP Camera Setup Utility</a>),</p>

	<a href="#">ONVIF Device Manager</a> , etc...)
<b>Address</b>	The IP or HTTP address of the camera. It is not necessary to include http:// at the beginning of the HTTP address.
<b>Web / Camera Settings</b>	Connects to the camera's web interface to make changes to the camera's internal settings. For some camera types, this will open a <i>Camera Settings</i> window instead of connecting to the web interface.
<b>On-Board Analytics</b>	If the configured camera has on-board analytics rule processing, this button will launch the On-Board Analytics form (formerly referred to as the VIGIL Analytics Bridge) so the user may interface the camera's rules with VIGIL Server.  For details on the ON-Board Analytics window See "On-Board Analytics" on page 108
<b>RTSP Stream Type</b>	Select the camera's preferred RTSP Stream Type (also known as the RTSP Transfer Protocol; UDP or TCP).
<b>Data / RTSP Port</b>	The network ports used to connect with the camera.
<b>Camera Number</b>	Some <i>Network Camera</i> types also support encoders. Select the camera number on the encoder to use for this network camera.
<b>Mainstream / Substream URL</b>	Set the broadcast URL for the camera's mainstream and substream (if applicable). The substream URL field will not be editable if a sub-stream is not enabled for the camera.
...	Opens additional configuration options for some cameras.
<b>Stream Type</b>	Select the video stream type for the camera: <i>MPEG4, JPEG, or H264/H265</i> . Some kinds of network cameras can only have one stream type for all cameras of its kind.
<b>Timeout</b>	The number of seconds to attempt to connect to the camera before timing out. If the timeout is reached, <i>Signal Loss</i> displays in the <i>Live Viewer</i> window.
<b>User / Password</b>	The user name and password to connect to the camera. The default values are automatically entered.
<b>AZTech Recompress</b>	This will recompress the image using AZTECH™ codec.   <b>Note:</b> AZTech Recompression is a CPU and RAM intensive process.
<b>Fast Decompression</b>	If the JPG image provided by the HTTP camera supports fast decompression, select this option to significantly reduce the number of CPU cycles needed for rendering the network camera feed.  Not all network cameras support fast decompression. Disable <i>Fast Decompression</i> if the image does not display or appears distorted when this feature is enabled.
<b>DIO (Digital Input/Output)</b>	If the Network Camera supports DIO, enable the checkbox to automatically add the camera as a DIO device.
<b>Audio Recording</b>	If the Network Camera supports audio, enable the checkbox and enter a Name for the audio channel to automatically add the camera as an audio device.
<b>Camera Control</b>	If the Network Camera supports <i>PTZ (Pan/Tilt/Zoom)</i> , enable the checkbox to allow PTZ controls to be utilized from within VIGIL Server.
<b>Audio Talk</b>	If the Network Camera supports <i>Audio Talk</i> , enable the checkbox to enable audio talk.
<b>Sub Stream</b>	Enable this checkbox to make the <i>Sub Stream</i> from the Network Camera available to

	applications that connect to the Server such as VIGIL Client.
<b>Enable Web Interface in Client</b>	Grants a right-click menu option to quickly access the camera's web interface from a built-in browser.
<b>Default Settings</b>	Changes the network camera settings to their default values.

### 4.3.1 Network Camera Types

VIGIL Server maintains direct support for several camera makes and models, and with full ONVIF Profile S compliance, compatibility is extended to any camera compliant with the ONVIF Profile S standard. The following section contains basic descriptions and / or minor configuration instructions on common network camera types utilized in VIGIL Server.

#### VISIX Camera - Network Camera Type

VISIX IP Cameras, by 3xLOGIC Inc, come in all shapes and styles and offer the performance and clarity you demand. When coupled with a VIGIL Server, users can take full advantage of the adaptive compression capabilities resulting from our exclusive AZTECH™ Compression Codec and proprietary RapidStream™ Technology, letting users toggle between bandwidth-conserving compressed video and the native high-resolution video seamlessly with just a click.

To configure a 3xLOGIC VISIX Camera, select **3xLOGIC VSX-IP** in the *Network Camera Settings - Camera Type* field. Newer camera generations are referred to as **3xLOGIC VSX-IP-A** or **3xLOGIC VSX-IP-B**. Refer to your camera's setup documentation to confirm its camera type.

VIGIL Server features an included camera detection utility for detecting and adding VISIX cameras on your network to VIGIL Server. After selecting the camera type, click **Detect Cameras** to launch the 3xLOGIC IP Camera Setup Utility. If you select the incorrect VSX-IP type for your camera, the utility will automatically detect and correct the type when saving the camera back to VIGIL Server. Conversely, if you are manually entering camera information into the *Network Camera Settings* form, be sure to select the type as defined in your camera's documentation. Proceed below for instructions on operating the 3xLOGIC (VISIX IP) Camera Setup Utility.

#### Adding a VISIX Camera to Serve Using 3xLOGIC (VSX IP) Camera Setup Utility

After the utility launches, a list of VISIX cameras discovered on your network will be generated:



**Warning:** If adding new 3xLOGIC VISIX Cameras, the camera password must be changed before the camera will stream to VIGIL Server. This is a security precaution. Refer to your camera documentation for steps on changing the default password.

1. Select the desired camera.

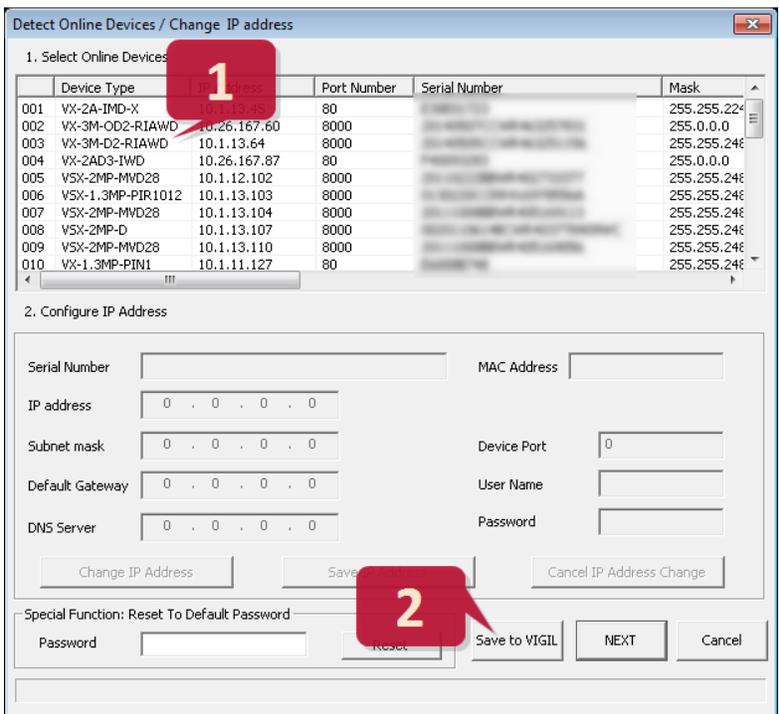


Figure 4-11: 3xLOGIC IP Camera Setup Utility - Saving a Camera to VIGIL Server

2. Click the **Save to VIGIL** button. If the camera support multiple streams, this will deploy the camera's stream settings window.
3. In the camera's stream settings, a user can assign the camera's Main Stream and Substream profiles. When finished, select **OK**.

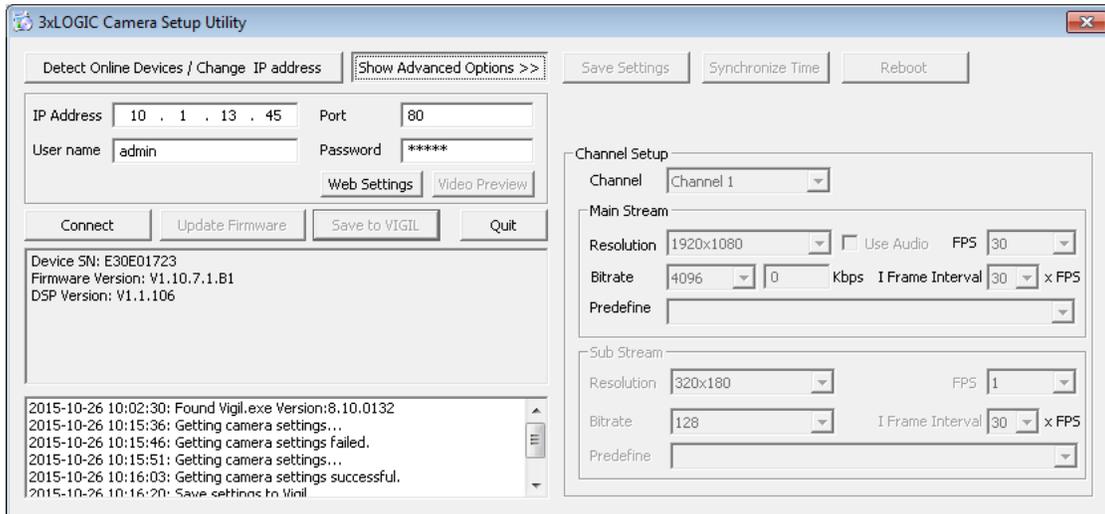
All appropriate camera settings will now populate the Network Camera Settings form fields.

4. Select **OK** to save the new camera configuration.

Repeat the above process for all desired VISIX cameras on your network.

**3xLOGIC (VSX IP) Camera Setup Utility Properties**

When launched externally, the 3xLOGIC (VSX IP) Camera Setup Utilities' main UI will deploy as pictured below (the right-hand Advanced Settings portion will not be visible):



**Figure 4-12:3xLOGIC (VSX IP) Camera Setup Utility - Main User Interface**

<b>Detect Online Devices/ Change IP address</b>	This will launch the Detect Online Devices/ Change IP address menu (this menu is automatically deployed when the utility is launched from within VIGIL Server). Once the desired camera has been located and settings have been configured as desired, click the <b>Next</b> button to return to the main screen of the 3xLOGIC Camera Setup Utility.
<b>Web Settings</b>	<i>Web Settings</i> will launch the camera's web page in a web browser.
<b>Connect/ Dis-connect</b>	This button will allow users to toggle between establishing a connection and disconnecting from the IP Camera.
<b>Update Firmware</b>	Users can update firmware within the 3xLOGIC Camera Setup Utility by clicking on the Update Firmware button and navigating to the stored firmware file.
<b>Save to Vigil</b>	Upon completion of camera configuration, click the Save to VIGIL button to return to the VIGIL Server Network Camera Settings form.
<b>Quit</b>	Exit the 3xLOGIC Camera Setup Utility.
<b>Advanced Settings</b>	Opens the Advanced Settings portion of the setup utility. See "3xLOGIC (VSX IP) Camera Setup Utility - Advanced Settings" below

### 3xLOGIC (VSX IP) Camera Setup Utility - Advanced Settings

Advanced Settings allows a user to modify the resolution, bitrate, FPS, and I Frame interval for the camera's Main Stream and Substream. Other configuration options are described below:

<b>Synchronize Time</b>	Users can synchronize the camera's time to server time by clicking the Synchronize Time button. This option may not be available across some camera models or firmware versions.
<b>Reboot</b>	Users can reboot the camera within the utility by clicking the Reboot button.
<b>Save Settings</b>	Users should save all changes made within the utility by clicking the Save Settings button.

### ONVIF and PSIA - Network Camera Type

ONVIF and PSIA are interoperability standards for IP based Network Cameras. As long as a camera supports either of these standards, it can be configured with this standard instead of the brand specific standard. ONVIF is the pre-dominant standard currently being utilized by manufacturers. When configuring an ONVIF supported camera through the *Network Camera Settings*, the ONVIF device manager is opened.

## ONVIF Device Manager

After selecting the ONVIF type in your *Network Camera* settings, the *Web Settings* button will change to *Detect Cameras*. Select this option to proceed to the *ONVIF Device Manager*. You will first be met with a small notification pictured below while the *ONVIF Device Manager* loads.

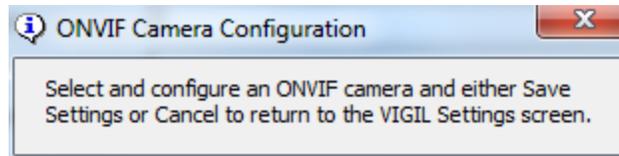


Figure 4-13: ONVIF Camera Configuration Prompt

After a few seconds, the *ONVIF Device Manager* will deploy and you will be met with the interface pictured below.

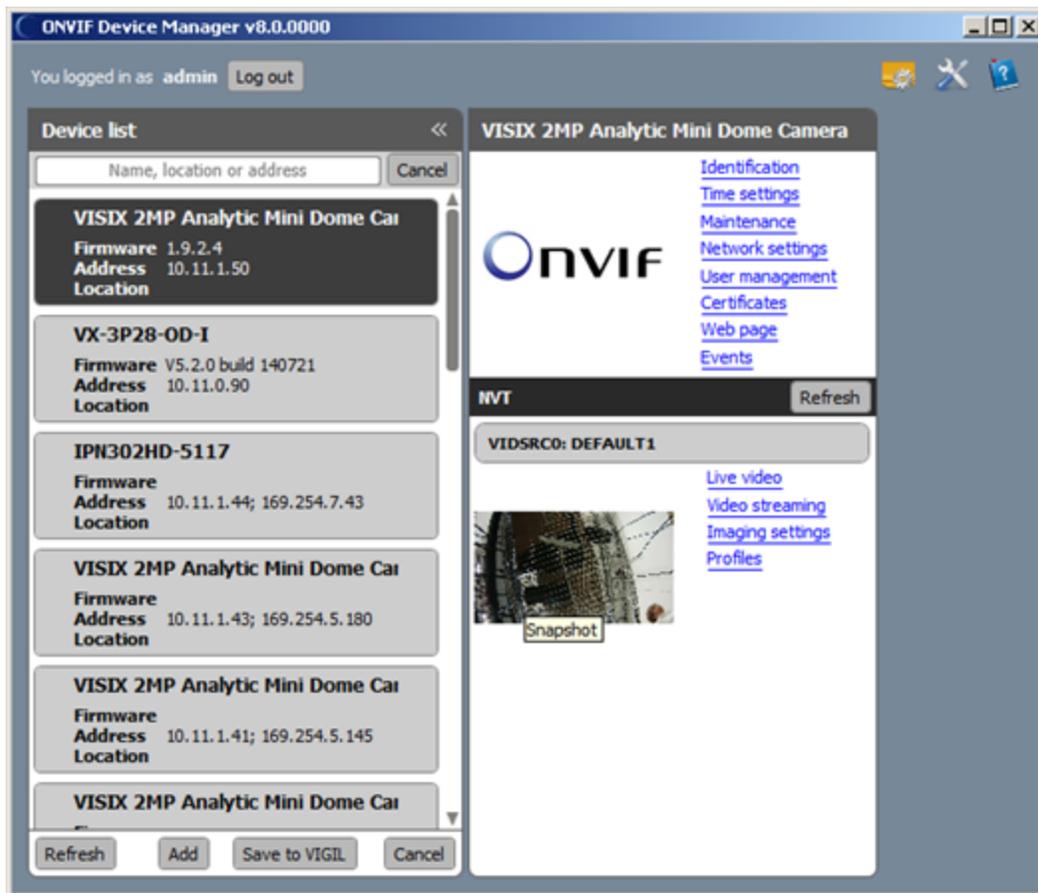


Figure 4-14: ONVIF Device Manager - Main Screen

The *ONVIF Device Manager* offers a large selection of settings to help configure all of your cameras using the ONVIF standard to your personal preferences. The manager consists of three panes.

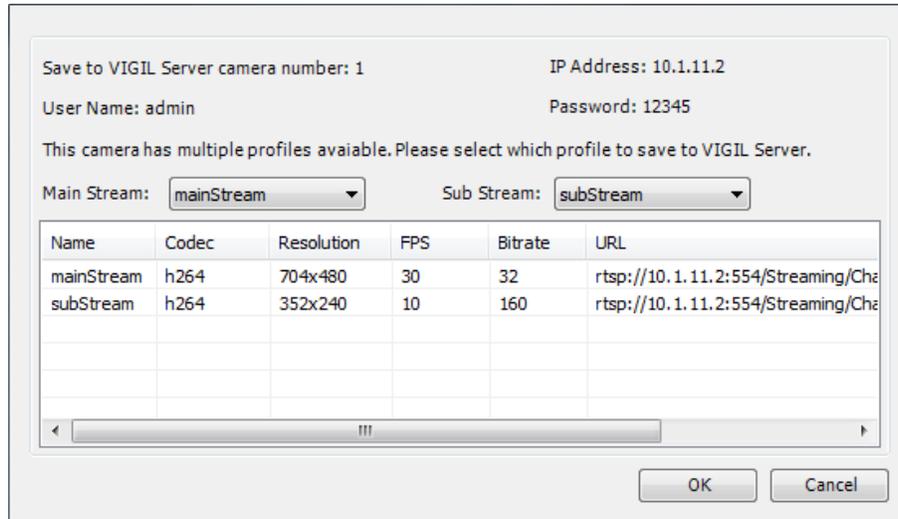
The left pane is the *Device List* which hosts a list of all available camera using the ONVIF standard.

The second (middle) pane hosts a list of camera settings and options and the third pane (right side of the UI, not pictured above) is where the chosen settings are configured and changed. See "ONVIF Device Manager Properties" on the facing page for a descriptions of all configurable camera options and settings in the ODM.

## Saving Camera To VIGIL

Interfacing an ONVIF camera with VIGIL Server is fast and simple with the ODM. To begin:

1. Select a camera from the list of discovered devices.
2. Click **Save to VIGIL** to save the feed to a VIGIL Server camera channel. You will receive the prompt (pictured below) where a user can choose which stream profiles to use in VIGIL.



Save to VIGIL Server camera number: 1      IP Address: 10.1.11.2  
 User Name: admin      Password: 12345

This camera has multiple profiles available. Please select which profile to save to VIGIL Server.

Main Stream:       Sub Stream:

Name	Codec	Resolution	FPS	Bitrate	URL
mainStream	h264	704x480	30	32	rtsp://10.1.11.2:554/Streaming/Cha
subStream	h264	352x240	10	160	rtsp://10.1.11.2:554/Streaming/Cha

OK      Cancel

Figure 4-15: Saving Camera to VIGIL- Stream Profile Selection

3. Click OK to save the camera to VIGIL.

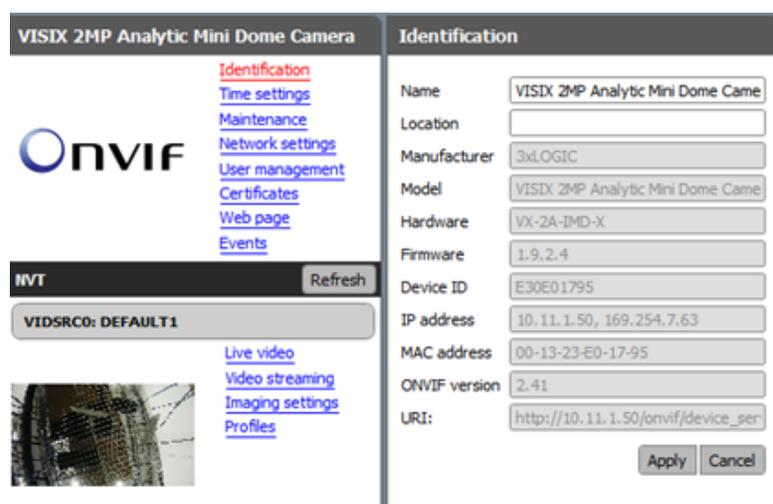
## ONVIF Device Manager Properties

The ONVIF Device Manager can also be used to configure several of an ONVIF camera's settings.

Available settings and configuration options are described below:

### Identification

Identification options will provide the user with currently selected camera's configuration information.



**VISIX 2MP Analytic Mini Dome Camera**      Identification

[Identification](#)  
[Time settings](#)  
[Maintenance](#)  
[Network settings](#)  
[User management](#)  
[Certificates](#)  
[Web page](#)  
[Events](#)

**ONVIF**

**IVT**      Refresh

**VIDSRC0: DEFAULT1**

[Live video](#)  
[Video streaming](#)  
[Imaging settings](#)  
[Profiles](#)

Name:   
 Location:   
 Manufacturer:   
 Model:   
 Hardware:   
 Firmware:   
 Device ID:   
 IP address:   
 MAC address:   
 ONVIF version:   
 URI:

Apply      Cancel

Figure 4-16: ONVIF Device Manager - Identification Settings

## Time Settings

Time settings allow users to adjust the time zone settings of the camera. Furthermore, users can sync the camera to server time.

The screenshot displays the 'Time settings' interface for a VIDSR00: DEFAULT1 camera. On the left, a navigation menu includes links for Identification, Time settings (highlighted), Maintenance, Network settings, User management, Certificates, Web page, and Events. Below the menu is a live video feed and a 'Refresh' button. The main content area shows the current time as 8:24:15 AM on 8/27/2015 (Local). The 'Time zone' is set to GMT0, and the checkbox for 'Automatically adjust for daylight saving time' is checked. The 'Time settings' section shows 'Synchronize with computer time' selected, with a 'New time' of 3:30:47 PM on 8/27/2015 (Local). 'Apply' and 'Cancel' buttons are visible at the bottom right.

Figure 4-17: ONVIF Device Manager - Time Settings

## Maintenance

The Maintenance settings allow users to either Soft factory reset (Factory reset that saves all IP Configuration), Hard factory reset (Completely restores all setting back to factory, including IP Configuration), Reboot device, and Upgrade Firmware.

The screenshot displays the 'Maintenance' interface for a VIDSR00: DEFAULT1 camera. On the left, a navigation menu includes links for Identification, Time settings, Maintenance (highlighted), Network settings, User management, Certificates, Web page, and Events. Below the menu is a live video feed and a 'Refresh' button. The main content area shows options for Configuration (Backup, Restore), Soft factory reset (Soft reset), Hard factory reset (Hard reset), Reboot device (Reboot), and Firmware (Upgrade, 1.9.2.4).

## Network Settings

Network Settings allow users to set a static IP Address of the camera, from the utility.

The screenshot shows the 'Network settings' page for a 'VISIX 2MP Analytic Mini Dome Camera'. The left sidebar contains navigation links: Identification, Time settings, Maintenance, Network settings (highlighted in red), User management, Certificates, Web page, and Events. Below these links is a 'NVT' section with a 'Refresh' button and a 'VIDSRC0: DEFAULT1' section with a video preview and links for Live video, Video streaming, Imaging settings, and Profiles. The main content area on the right is titled 'Network settings' and includes the following fields:

- DHCP: Off (dropdown)
- IP Address: 10.11.1.50 (text input)
- Subnet mask: 255.255.255.0 (text input)
- Default gateway: 10.11.1.1 (text input)
- Host name: Manual (dropdown) VX-2A-IMD-X (text input)
- DNS: Manual (dropdown) (text input)
- NTP servers: Manual (dropdown) time.windows. (text input)
- HTTP ports: Enable (dropdown) 80 (text input)
- HTTPS ports: Disable (dropdown) (text input)
- RTSP ports: Enable (dropdown) 554 (text input)
- Enable zero config:  169.254.7.63
- ONVIF discovery mode: Discoverable (dropdown)

At the bottom right of the network settings section are 'Apply' and 'Cancel' buttons.

Figure 4-18:ONVIF Device Manager - Network Settings

### User Management

The User Management settings allow users to create, modify, and delete camera users.

The screenshot shows the 'User management' page for a 'VISIX 2MP Analytic Mini Dome Camera'. The left sidebar is identical to the network settings page, with 'User management' highlighted in red. The main content area on the right is titled 'User management' and includes the following elements:

- Policies: Backup, Restore (buttons)
- Users: (header)
- User 1: Name: root, Password: (blacked out), Role: administrator
- User 2: Name: admin, Password: (blacked out), Role: administrator
- Buttons: Create, Modify, Delete

Figure 4-19:ONVIF Device Manager - User Management Settings

### Certificates

The Certificates settings window will give details on camera's security certificates. These certificates signal a camera's ability to transfer data via a secure connection.

### Web Page

The Web Page link allow users to connect and display the camera's web interface

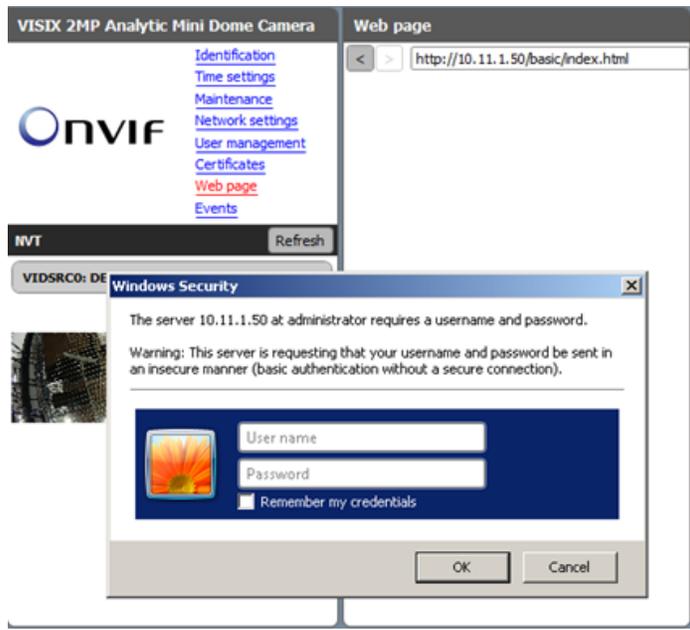


Figure 4-20:ONVIF Device Manager - Web Page Settings

**Events**

Events allow users to see all the camera’s logged event information.

**Live Video**

The Live Video option will deploy a live video stream preview from the selected camera.

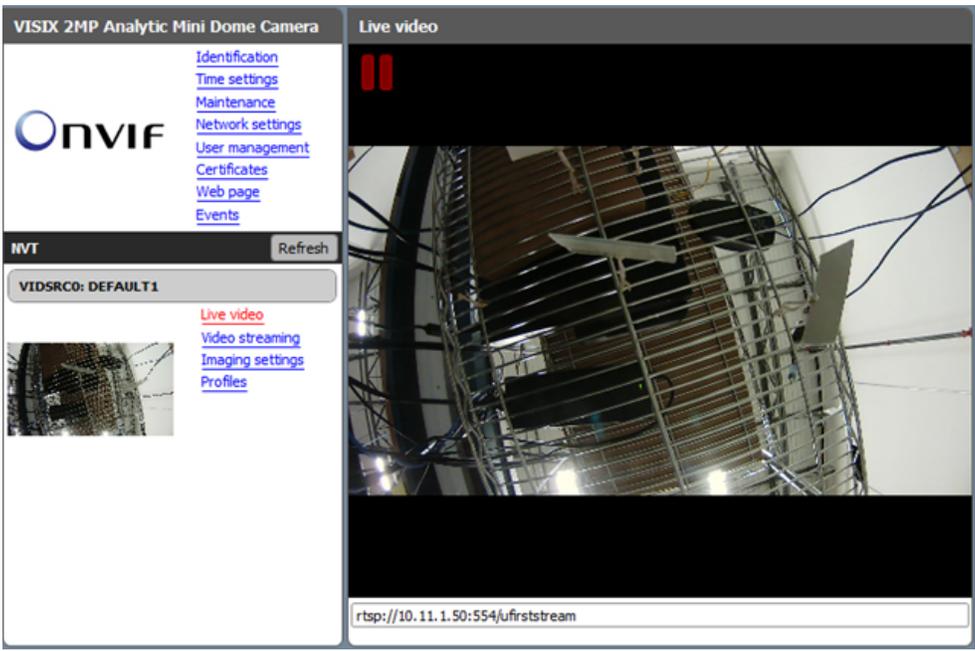


Figure 4-21:ONVIF Device Manager - Live Video

**Video Streaming**

The Video Streaming settings will allow users to configure the recording and streaming parameters of the camera's primary stream.

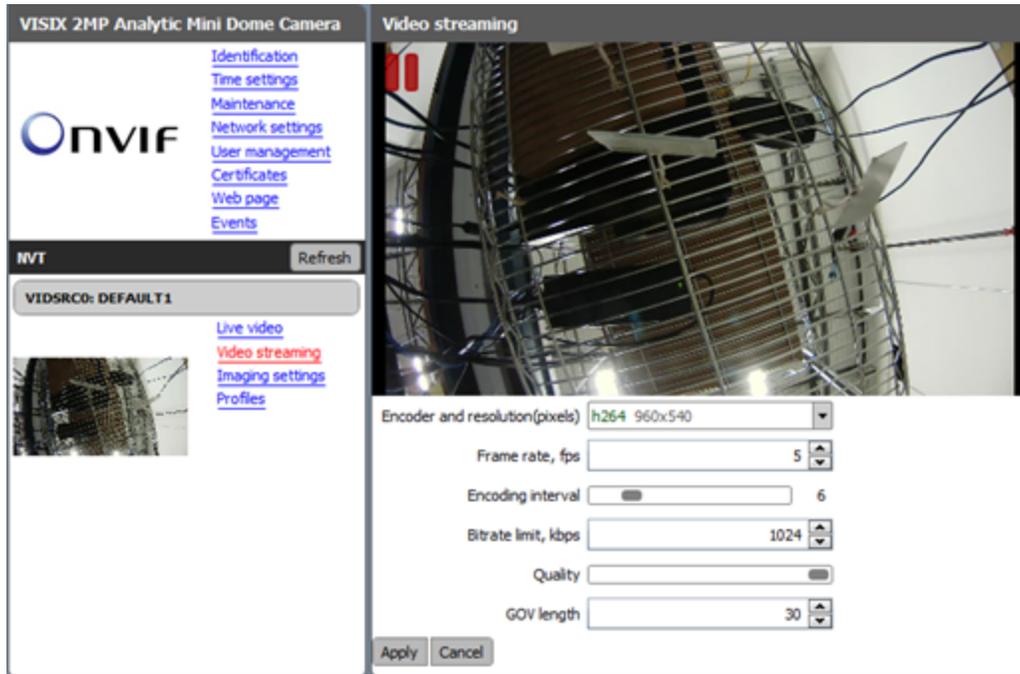


Figure 4-22:ONVIF Device Manager - Video Streaming Settings

### Image Settings

Image Settings allow users to configure the brightness, saturation, contrast, and sharpness of the camera's primary stream.

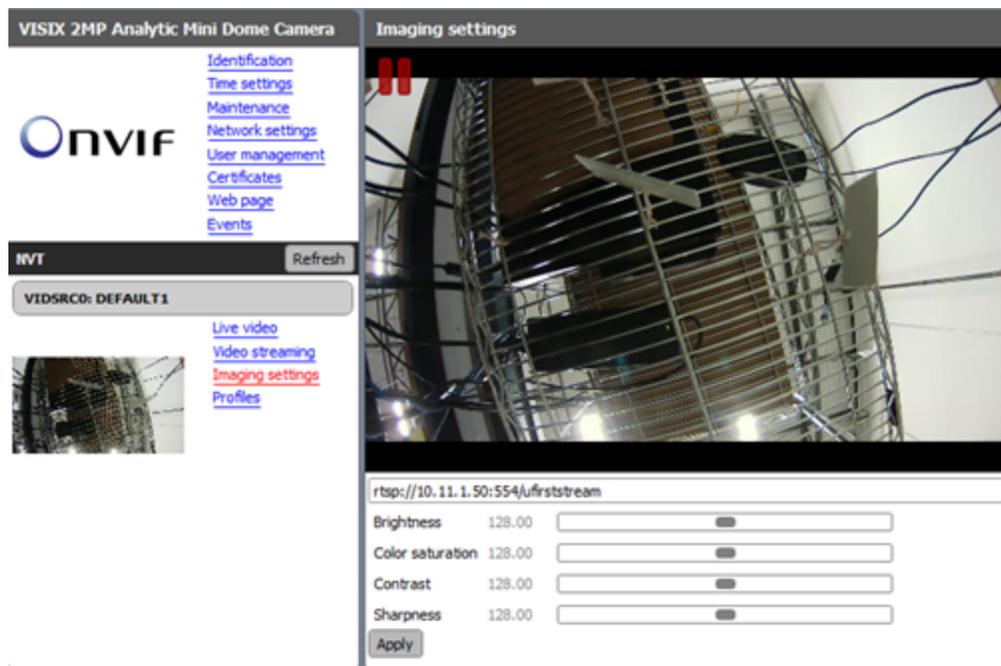


Figure 4-23:ONVIF Device Manager - Video Streaming Settings

### Profiles

The Profiles form allow users to create, edit, and delete camera profiles for streams.

The screenshot displays the ONVIF Device Manager interface for a 'VISDX 2MP Analytic Mini Dome Camera'. The interface is split into two main sections: a left sidebar and a main content area.

**Left Sidebar:**

- Header: VISDX 2MP Analytic Mini Dome Camera
- ONVIF logo
- Navigation menu:
  - Identification
  - Time settings
  - Maintenance
  - Network settings
  - User management
  - Certificates
  - Web page
  - Events
- IVT (In-Viewfinder Tracking) section:
  - Refresh button
  - VIDSRC0: DEFAULT1
  - Live video
  - Video streaming
  - Imaging settings
  - Profiles (highlighted in red)

**Main Content Area (Profiles):**

- Header: Profiles
- Profile list: DEFAULT1, DEFAULT2
- Details section:
  - Start view expanded
  - name: DEFAULT1
  - token: DEFAULT1
  - fixed: False
  - Video Source Configuration: VIDSRCCFG0
  - Video Encoder Configuration: VIDENCCFG0
- Action buttons: Create, Delete, Edit, Select

Figure 4-24: ONVIF Device Manager - Profile Settings

## Multiple Cameras - VIGIL Multiview™ Technology - Network Camera Type

When selecting a Network Camera *Type*, a user may select the *Multiple Cameras* option. This camera type uses VIGIL Multiview™ technology to multiplex(mux) a customized number of your camera feeds into a single, bandwidth friendly image stream. This stream can then be viewed in Server or other VIGIL Products such as VIGIL Client like a traditional IP camera.

To setup a Multiview stream, open / enable *Network Camera* settings on a camera channel, then:



**Figure 4-25:**Network Camera Types - Adding a VIGIL Multiview Channel

1. Select *Multiple Cameras* in the *Network Camera Settings* form *Type* field.
2. Click the *Setup* button.

This will open the *Multiple Camera Settings* window(pictured below).

Multiview layouts are configured by row. By default, the first row will already exist.

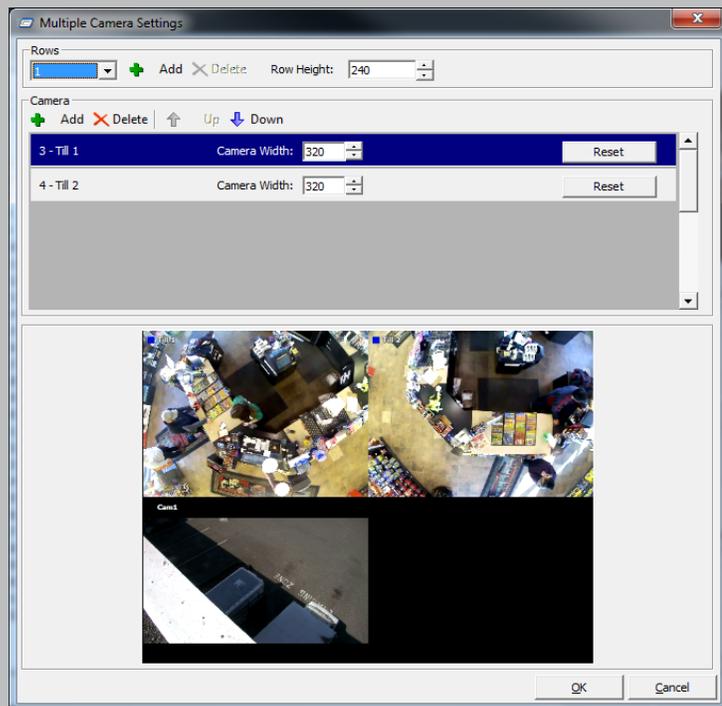
To add a new row:

1. Select the *Add* button located within the *Rows* portions of the *Multiple Camera Settings* window.

To add a camera to a row:

1. Select the desired row using the *Rows* drop-down menu.
2. Select the *Add* button located within the *Camera* portion of the *Multiple Camera Settings* window.
3. A preview of the current Multiview is located at the bottom of the screen. After achieving your desired layout in the preview, click *OK* to save the settings.

Rows and cameras may be deleted by selecting the camera or row to be deleted and clicking their respective *Delete* buttons.

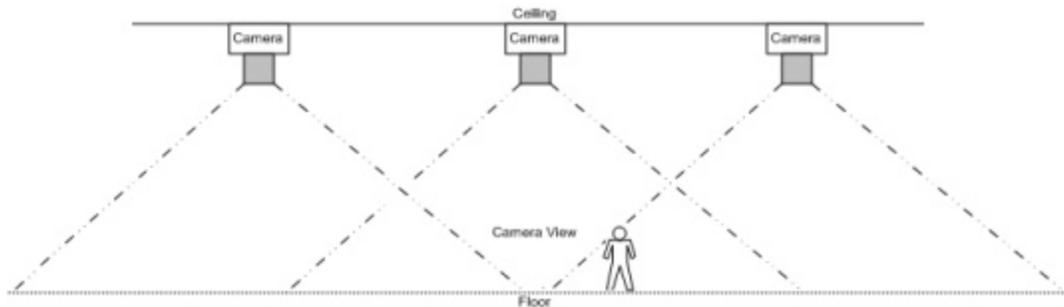


**Figure 4-26:**Network Camera Types - Multiview - Multiple Cameras Settings Window

After exiting the Multiple Camera Settings window, Click *OK* in all remaining settings windows to save the new multiview. The Multiview will now be visible in the configured camera channel in the Live Viewer.

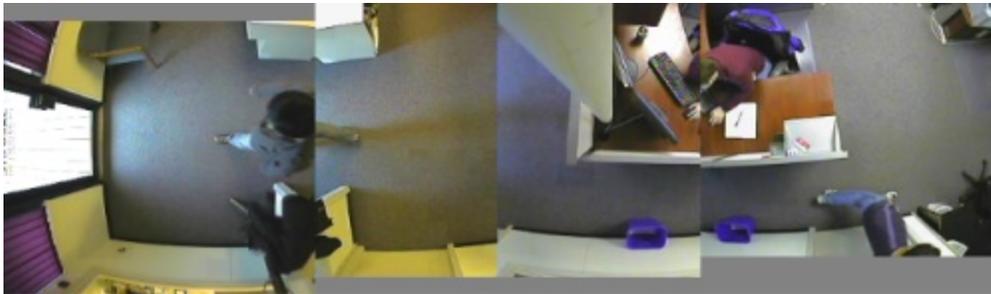
### Multiple Cameras Stitched Together Into One Image - Network Camera Type

Designed for use with video analytics on DRX systems, the *Network Camera, Multiple Cameras* option is used to configure multiple analog video feeds as one video image. This is used to piece together camera images directly beside one another into one large image.



**Figure 4-27:**Stitched Images - Camera Overlap Example

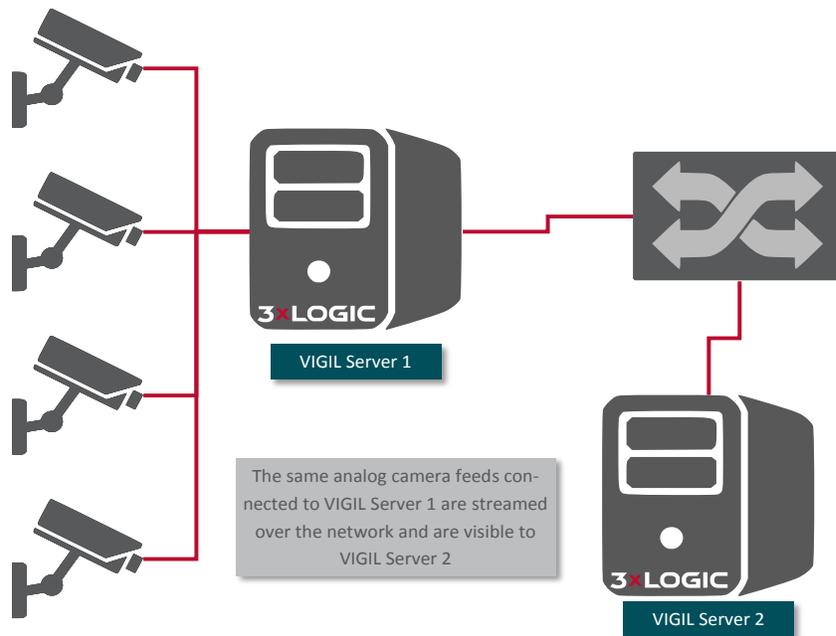
There must be the correct amount of overlap between the images to prevent fluctuation of the person size as a person moved between images.



**Figure 4-28:**Stitched Image Example

### VIGIL Server - Network Camera Type

Another VIGIL Server can be connected in the same way you would connect to a *Network Camera*. This will display any camera that the VIGIL Server receives and allows you to relay analog video from one recording VIGIL Server to another.



**Figure 4-29:** Selecting VIGIL Server as Network Camera Type - Analog Camera Relay

To set up this configuration, select the VIGIL Server type in the *Network Camera* window. The recommended settings for this setup are:

<b>Address</b>	IP Address of the VIGIL Server.
<b>Port</b>	Live Video Port, default 22802.
<b>Camera Number</b>	The camera input number on the remote VIGIL Server to be used.
<b>User / Password</b>	The username and password used to log into the remote VIGIL Server, if applicable.

### USB Camera - Network Camera Type

VIGIL Server can record from USB Cameras connected to the Server. The USB camera drivers need to be installed for VIGIL Server to be able to detect the camera.

## 4.4 Recording Mode Tab

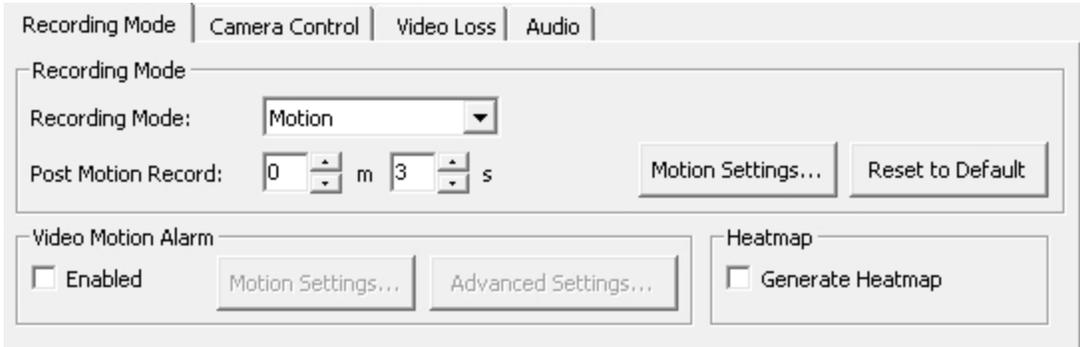


Figure 4-30: Settings - Camera Setup - Recording Mode Tab

### 4.4.1 Recording Modes

There are four *Recording Mode* options encompassing a full range of recording possibilities. These modes are accessible by selecting the appropriate option from the *Recording Mode* drop-down menu.

<b>Constant</b>	<p>Always recording, 24 hours, 7 days a week.</p> <p>When choosing constant, the user will also have the option of enabling <i>Variable Constant Recording</i>. Variable constant recording will drop camera FPS to 1 when no motion is detected and will resume full frame rate when motion is present. This settings can be highly beneficial in low-bandwidth environments. Motion settings will also be available for configuration when Variable is enabled.</p> <p>Check off <i>Variable</i> (only visible when Constant is selected as Recording Type) to enable Variable Constant Recording.</p>
<b>Schedule</b>	<p>Records based on a schedule. The easy to use graphical interface provides a full overview of a week's schedule in 15-minute intervals. This mode offers full control over recording times and any combination of constant or motion controlled recording modes.</p>
<b>Motion</b>	<p>Records only when motion is detected. Full configuration over motion area, amount of motion, size of motion and post motion recording time makes this a very versatile recording mode.</p>
<b>Alarm Only</b>	<p>Records in alarm mode when any alarm is detected. The alarms can be of any type including <i>Video Analytics, Video Motion, Digital Input</i> and <i>POS Alarms</i>.</p>

### 4.4.2 Scheduled Recording

If *Schedule* is selected from the *Recording Mode* drop-down menu, the *Schedule* window will appear. To edit an existing schedule click the ... button to open the *Schedule* window. To modify a schedule, click the appropriate recording mode button (*Const* or *Motion*), and then click-and-drag across a time slot. Areas that are blank (no color) have no recording modes defined for that time and will not record any footage.

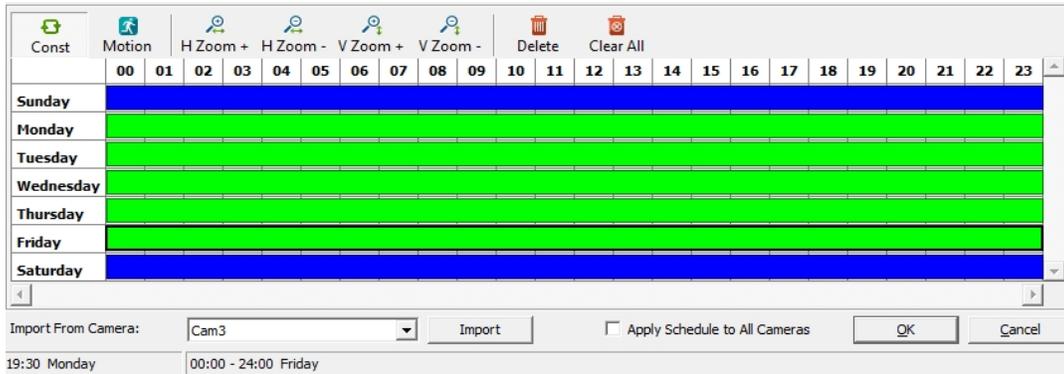


Figure 4-31: Scheduled Recording - Scheduler Window

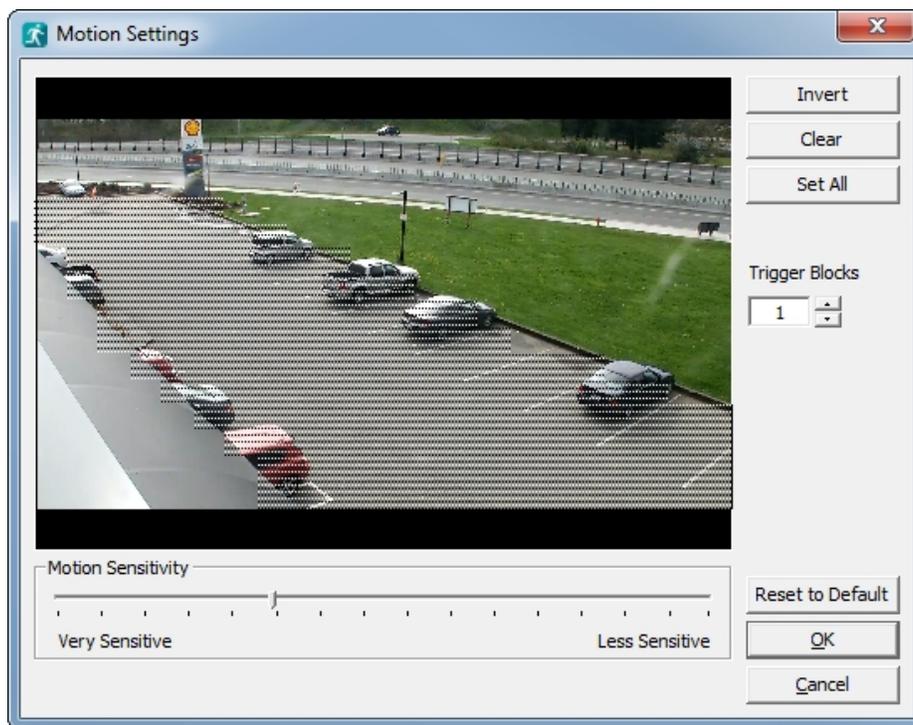


**Note:** The smallest time interval that can be used is a 15 minute period.

<b>Const</b>	Sets or changes the section to <i>Constant</i> recording mode; these time periods are colored green.
<b>Motion</b>	Sets or changes section to <i>Motion</i> recording mode; these time periods are colored blue.
<b>HZoom+/-</b>	Expands and contracts the schedule horizontally; this allows for better precision in setting time periods.
<b>VZoom+/-</b>	Expands and contracts the schedule vertically.
<b>Move a Time Period</b>	Click and hold the <i>Shift</i> key, then click-and-drag the section.
<b>Copy a Time Period</b>	Click and hold the <i>Ctrl</i> key, then click-and-drag the section.
<b>Change Record Mode</b>	Click a section of the schedule, and then click the appropriate button ( <i>Const</i> or <i>Motion</i> ) to change the recording mode for that section.
<b>Change the Start / End Time</b>	Select the section by clicking on it and then click-and-drag the right or left edge of the section.
<b>Importing from Another Camera</b>	Select the camera from the <i>Import From Camera</i> drop-down menu, and then click <i>Import</i> . This will overwrite the current schedule.
<b>Viewing Start and End Times of a Section</b>	Select the section by clicking on it. The start and end times of the section are displayed near the bottom left corner of the <i>Schedule</i> window. Hover the mouse over any part of the section to display the time.
<b>Deleting a Time Period</b>	To select a section, click on it and then click <i>Delete</i> .
<b>Deleting a Schedule</b>	Click the <i>Clear All</i> button to delete the entire schedule.
<b>Apply Schedule To All Cameras</b>	When marked, this checkbox will apply the created schedule to all cameras that have been set to <i>Schedule</i> recording mode.

#### 4.4.3 Motion Recording Settings

When recording in Motion mode, click the *Motion Settings...* button to access the *Motion Settings* window. Here you configure which regions of the video image are to be used for motion detection. To do this, simply draw on the video. A semi-transparent overlay will be drawn over the video; this marks the motion detection region. To clear a motion detection region, click and draw on it.



**Figure 4-32:** Motion Recording Settings Window

<b>Invert</b>	Swaps masked and clear regions.
<b>Clear</b>	Clears all masked regions.
<b>Set All</b>	Masks the entire image.
<b>Trigger Blocks</b>	Determines how many motion blocks must meet the motion sensitivity requirement to trigger motion recording.
<b>Motion Sensitivity</b>	Adjust the Motion Sensitivity slider to control the amount of motion required to trigger recording. Use a very sensitive setting to detect almost all motion, or a less sensitive setting to require only very large movements to trigger recording.

#### 4.4.4 Video Motion Alarm

The *Video Motion Alarm* settings allow you to configure powerful motion detection alerts that include full control over motion quantity, size, area, speed and direction of motion. In addition to the alarm itself, a wide variety of alarm notification settings are available. *Video Motion Alarms* can be used in conjunction with any other recording mode. For the basic configuration options, See "Motion Recording Settings" on page 1.



**Note:**When *Video Motion Alarm* is enabled and a motion alarm is detected, the VIGIL Server will record in alarm mode regardless of any other recording mode defined, and an alarm event will be triggered.

	<p>A motion vector is composed of two or more motion detection regions and one vector. It represents an object moving through specific areas of the image in a set direction. If motion is detected in two of the regions in the general direction indicated by the vector arrow, the <i>Motion Alarm</i> will be triggered.</p>	
<p><b>Draw Region</b></p>	<p>Draws a motion detection region as an alternative to using the mouse and drawing by hand. You cannot draw on a motion detection region to create a clear region.</p> <p> <b>Note:</b>Regions with sides that are touching or overlapped are detected as one region. To use a motion vector, you must have at least 2 motion regions that do not border each other.</p>	
<p><b>Set Vector</b></p>	<p>Specify a direction of movement that will trigger a motion alarm; draw a direction by clicking and dragging the mouse. An arrow will be drawn on the preview window.</p> <p> <b>Note:</b>If there is no motion vector arrow specified, any of the selected regions will trigger a motion alarm.</p>	<p><b>Example of Motion Vector</b></p>
<p><b>Clear</b></p>	<p>Removes the applied motion vector.</p>	
<p><b>Motion Timeout</b></p>	<p>Determines the speed required to trigger the alarm. Motion must be detected in two or more of the regions in the desired direction within this time. If the object moves so slowly that it does not move from one region to the next within the <i>Motion Timeout</i> period, then a motion alarm will not be triggered.</p>	

### 4.4.5 Video Motion Alarm Advanced Settings

The advanced settings include scheduling when the alarm is active, *Output Relay Options*, and *Notification Settings*.

#### General Tab

#### Video Motion Alarm Schedule

Click the checkbox to enable a schedule for when the *Video Motion Alarm* will be active. Click ... to configure the schedule.

Click and drag to set when the *Video Motion Alarm* is active, marked in green. The schedule functions the same as in *Recording Mode Tab – Scheduled Recording*.

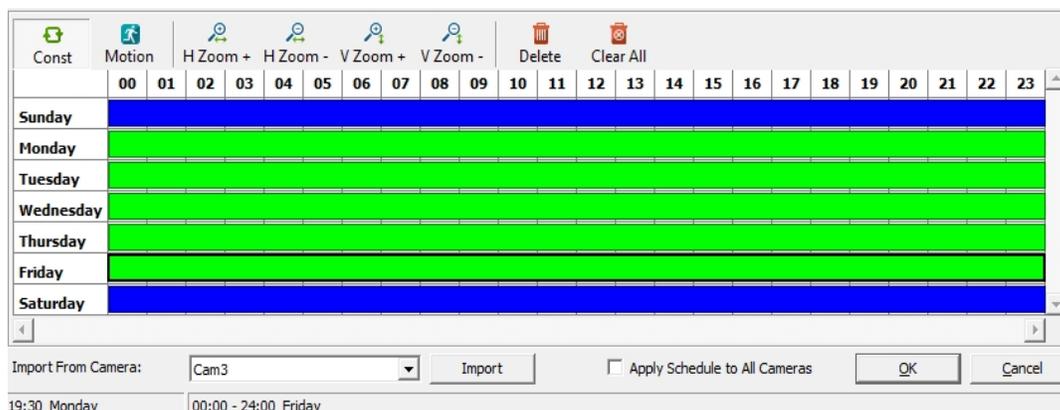


Figure 4-33:VA Alarm Schedule - Scheduler

#### Output Relay

Select an *Output Relay* to be triggered from the drop down box. The trigger options are *Latched* (for the duration of the alarm), or *Momentary* (2 seconds, regardless of alarm duration).

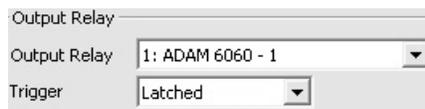


Figure 4-34:Output Relay Configuration

#### Post Motion Record

Post motion recording time for *Video Motion Alarms* is set here and is independent of any other post motion recording settings. The default is 3 seconds.

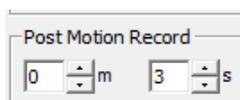


Figure 4-35:Post Motion Record Settings

#### Local Alarm

This setting will cause the alarm to only be visible on the VIGIL Server and not be relayed to other VIGIL products.



Figure 4-36: Enable Local Alarm Only Mode

### Linked Camera

Select other cameras that will also record when the video motion alarm is triggered on the current camera.

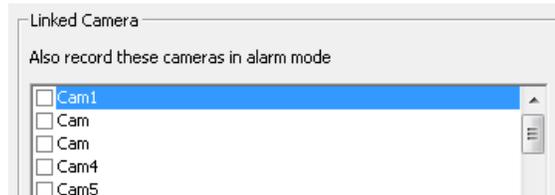


Figure 4-37: Linked Cameras

## Notifications Tab

### Local Notification Settings

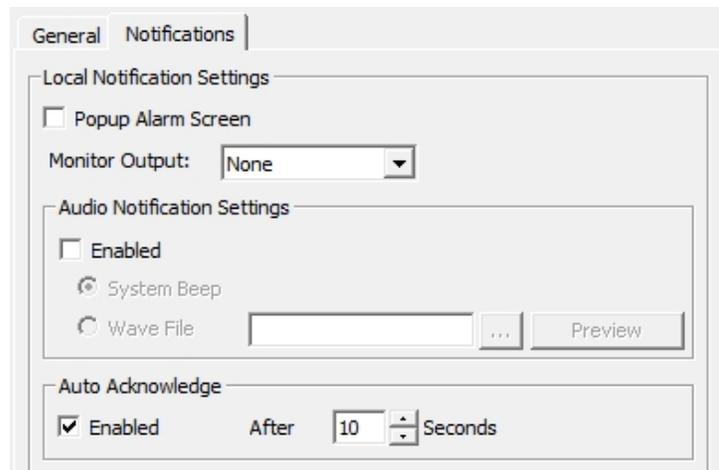


Figure 4-38: Local Notification Settings

<b>Popup Alarm Window</b>	Select this option to have the <i>Alarm</i> window automatically displayed when a motion alarm is triggered.
<b>Monitor Output</b>	Select an analog output monitor to display the triggered camera at the time of the motion alarm.
<b>Audio Notification Settings</b>	Enables audio notification when a motion alarm is triggered. Two audio notification types are available: <b>System Beep</b> - Sounds a system beep. <b>Wave File</b> - Plays a WAV audio file.
<b>Auto Acknowledge</b>	Enables the automatic acknowledge for <i>Motion Alarm</i> notifications after the specified

number of seconds.

### Email Notification Settings

The screenshot shows the 'Email Notification Settings' window. It contains a 'Test Email' button, a checked 'Enabled' checkbox with a menu icon, and a 'Minimum time between emails' field set to 10 minutes.

Figure 4-39: Email Notification Settings

When this feature is enabled, an email is sent to all recipients informing them that a motion alarm has been triggered.

To configure timed suppression for email notifications, enable *Minimum time between emails* and configure a time suppression duration. This will prevent notification recipients from receiving multiple notifications from the same DIO event.

Click the *Enabled* check box to enable *Email Notifications* and open the *Email Settings* window.

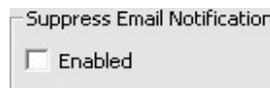
The screenshot shows the 'Email Header Options' window. It contains fields for 'From (Name)', 'From (Address)', 'Subject' (Motion Alarmed), and 'Email Body' (Motion alarm was triggered on a camera. Alarm Type: Motion Alarms). There is also an unchecked 'Attach Still Shot' checkbox.

Figure 4-40: Email Header Options

<b>From (Name)</b>	- The name of the entity that will be sending the emails.
<b>From (Address)</b>	The email address of the entity that will be sending the emails.
<b>Subject -</b>	The text that will be the subject line of the emails.
<b>Email Body -</b>	The text that will be included in the body of the emails.
<b>Attach Still Shot -</b>	Allows a still image from that camera to be attached to the outgoing email. The image is always from the beginning of the motion alarm event.
<b>Recipients</b>	These are the lists of recipients who will receive <i>Motion Alarm</i> notifications. There are three lists of recipients, direct recipients, carbon copied recipients and blind carbon copied recipients. Recipients can be added, deleted and edited.

	 <p><b>Figure 4-41:</b> Email Notification Recipients Configuration Window</p>
<p><b>Test Email</b></p>	<p>Sends a test email based on your notification settings and email configuration.</p> <p> <b>Note:</b> For email to function properly, a valid SMTP Server must be configured in the VIGIL Server Settings tab.</p>

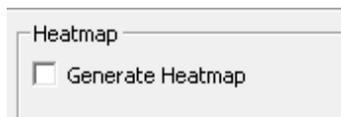
### Suppress Email Notification



**Figure 4-42:** Enable Email Notification Suppression

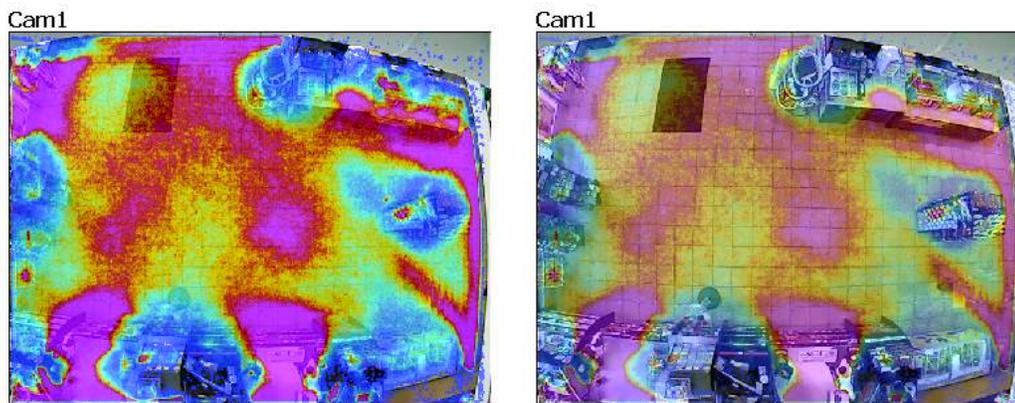
This option, located on the *Video Motion Alarm Advanced Settings - General Tab*, and will only work in conjunction with enabling *Popup Alarm Screen*, prevents a flood of email alerts being sent out. It will only send out one email alert until the alerts have been acknowledged in the piper *Alarm* window. If alerts have been set to *Auto Acknowledge*, it will send out an email after each period of auto acknowledgement has passed.

### 4.4.6 Heatmap



**Figure 4-43:** Settings - Camera Setup - Generate Heatmap

A Camera Image *Heatmap* is essentially a graphical overlay used to represent high-activity (motion) areas of a camera's image.



**Figure 4-44:** Heatmap Examples

To enable Heatmap generation for a camera, check-off *Generate Heatmap*. Checking this option enables data collection for use with the heat map functionality. No further camera configuration is required for heatmap use.

Heatmaps are generally used in conjunction with the VIGIL Trends Analytics Reporting Platform and can be reviewed by logging into your VIGIL Trends account.

Heatmaps can also be reviewed by retrieving them from the VIGIL Server directly using VIGIL Server HTTP commands. For instructions on accessing heat maps using this method, please reference document *120003 VIGIL Server HTTP Commands Reference Guide*. Contact a 3xLOGIC support representative to receive the latest available version of this document.

## 4.5 Camera Control Tab

Some PTZ cameras can be operated remotely by VIGIL Server. To configure a camera for remote control, click on the *Camera Control* tab. Select the camera type, the *COM* port and the address. These settings are determined by the camera itself and the *COM* port on your VIGIL Server that the camera is connected to. For *IP Network Cameras*, simply select the *Camera Type*. Other custom settings such as the *Digital Presets* button, login prompts or camera labels may appear in the blank area circled in red depending on the selected camera type.

Figure 4-45: Settings - Camera Setup Tab - Camera Control Tab

<b>Type</b>	The type of PTZ camera that is connected to your VIGIL Server. If <i>Digital PTZ</i> is the selected camera type, the <i>Digital Presets</i> button will appear. See "Digital Presets" on page 39
<b>COM Port</b>	The COM port on the VIGIL Server that the PTZ camera is connected to. If a message titled <i>CONFLICT</i> appears below the camera type drop-down menu, then there is another camera or data connection that is set up to use that COM port or Address. Determine which device is connected to the COM port and Address, and then modify the camera settings appropriately.
<b>Address</b>	The address of the camera when multiple cameras are attached via the COM port. See your camera's user guide for details.

### 4.5.1 Advanced Settings

#### Auto Restart PTZ

Automatically runs a *Pattern*, *Preset*, or *Tour* after the camera has been manually controlled by a user, after a *DIO Alarm Event* has ended, or when a *Video Analytics Alarm* is triggered.

Figure 4-46: Auto Restart PTZ Settings

<b>Mode</b>	Select which action to apply after the timeout has been reached: <i>Patterns, Presets or Tours</i> .
<b>Timeout</b>	The number of minutes after the camera control ends before the automatic restart is activated.
<b>Name / Number</b>	Enter the name or number of the pattern, preset, or tour to run after the timeout period has elapsed.

### DIO Alarm PTZ Event

*DIO Alarms* can be used to trigger PTZ events. The *DIO Alarm* must be enabled and assigned to the Camera, See *Settings – Relays / Alarms Tab* for details. Multiple *DIO Alarms* can be assigned to one camera, click the checkbox beside the *Alarm Name* to enable it.

Alarm Name	Mode	Preset	After Alarm Mode	After Alarm Preset	Dwell Time
<input checked="" type="checkbox"/> 1: Loopback Device - 1	Presets	1	Presets	10	5
<input checked="" type="checkbox"/> 2: Loopback Device - 2	Patterns	1	Disabled		0

Figure 4-47: DIO Alarm PTZ Events

### Video Analytics Alarm PTZ Events

*Video Analytics Alarms* can also be used to Trigger TPZ events. Multiple *Video Analytics Alarms* can be assigned to one camera. All *Video Analytics Rules* configured on the Server will show in the list, click the checkbox beside the *Rule Name* to enable it.

Clicking the checkbox will open the *PTZ Configuration* window.

Camera Name	Rule Name	Mode	Preset	Mode After Alarm	Preset After Alarm	Dwell Time
<input checked="" type="checkbox"/> 1: Back Door	Back Door Loiter	Presets	1	Disabled		0

Figure 4-48: Video Analytics Alarm PTZ Events

### During Alarm

Select what action to apply during the DIO Alarm.

During Alarm

Mode: Presets (dropdown) Name/Number: 1 (text box)

Figure 4-49: During Alarm Settings

<b>Mode</b>	Select <i>Patterns, Presets or Tours</i> from the drop-down box.
<b>Name / Number</b>	Enter the <i>Name or Number</i> of the <i>Pattern, Preset or Tour</i> .

### After Alarm

After Alarm

Mode: Presets (dropdown) Name/Number: 10 (text box)

Dwell Time:  Minutes: 5 (spin box)

Figure 4-50: After Alarm Settings

Select what action to apply after the *DIO Alarm* has ended. To do nothing after the alarm, select *Disabled* from the mode drop-down.

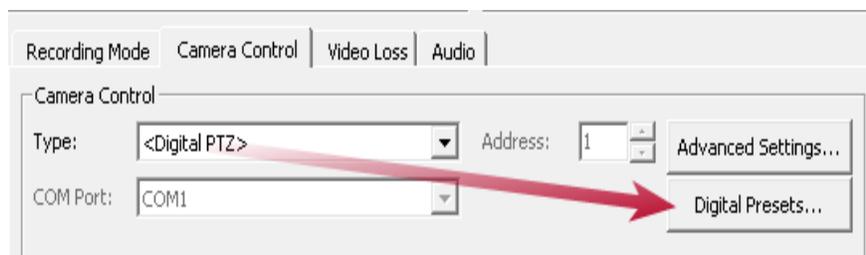
<b>Mode</b>	Select <i>Disabled, Patterns, Presets</i> or <i>Tours</i> from the drop-down box.
<b>Name / Number</b>	Enter the Name or Number of the <i>Pattern, Preset</i> or <i>Tour</i> .
<b>Dwell Time</b>	The amount of time from when the DIO Alarm is triggered until the <i>After Alarm</i> event occurs. If <i>Dwell Time</i> is not checked the <i>After Alarm</i> event will trigger when the DIO Alarm ends.

### Control Interface

<input type="checkbox"/> Push Button Controls	Enables the <i>Push Button Directional</i> controls for the camera in place of the virtual joystick.
<input type="checkbox"/> Region Control	<i>Region Control</i> is a setting that is only accessible on certain PTZ camera models. It is an alternative to the traditional push button, joystick or on-screen drag method for controlling <i>PTZ</i> movement. <i>Region Control</i> enables you to simply click on-screen to shift the cameras line-of-sight toward the region that has been clicked.

### 4.5.2 Digital Presets

When *Digital PTZ* is the selected camera control *Type*, the *Digital Presets* button will become available.



**Figure 4-51:**Settings - Camera Setup - Camera Control Tab - Launching a Camera's Digital Preset Settings

A Digital PTZ Preset is a saved portion of a camera's full image, where the original camera image has been manipulated by a user using digital PTZ commands to focus on a specific area-of-interest. Once saved, this manipulated version of the image can then be instantly opened as a camera digital preset in VIGIL Client. Digital Presets can also be configured in VIGIL Server as a POS Priority Camera. Multiple digital presets can be created for a single camera.

To configure and save a digital preset(s), click the *Digital Presets* button to launch the selected camera's *Digital Preset Configuration* window (pictured below).

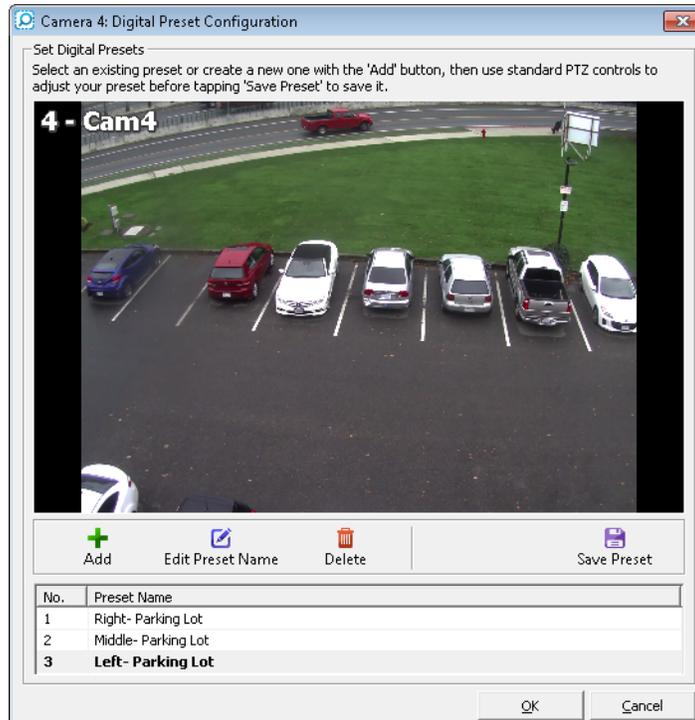


Figure 4-52: Settings - Camera Setup - Camera Control Tab - Digital Preset Configuration

The controls located on the window are described below:

<b>Add</b>	Add a digital preset. A window will deploy where the user can enter a name for the preset.
<b>Edit Preset Name</b>	Edit the selected preset's name.
<b>Delete</b>	Delete the selected preset.
<b>Save Preset</b>	Save the current image to the selected preset.

### Adding / Editing a Digital Preset

To add a new preset:

1. Click the *Add* button and name the preset. The preset will be added to the list and will be the actively selected preset.
2. Manipulate the image as required and click *Save Preset* to save the current image to the selected preset number.

Repeat the above process to add multiple presets.

To edit an existing preset:

1. Select the preset from the list.
2. Manipulate the image as desired using standard Digital PTZ Controls.
3. Click *Save Preset*.



**Figure 4-53:**Settings - Camera Setup - Camera Control Tab - Adding / Editing a Digital Preset

- To edit a preset name, select the preset from the list and click *Edit Preset Name*.
- To delete a preset, select it from the list and click *Delete*.

When you have finished configuring presets, click the *OK* button to exit the *Digital Preset Configuration* window.

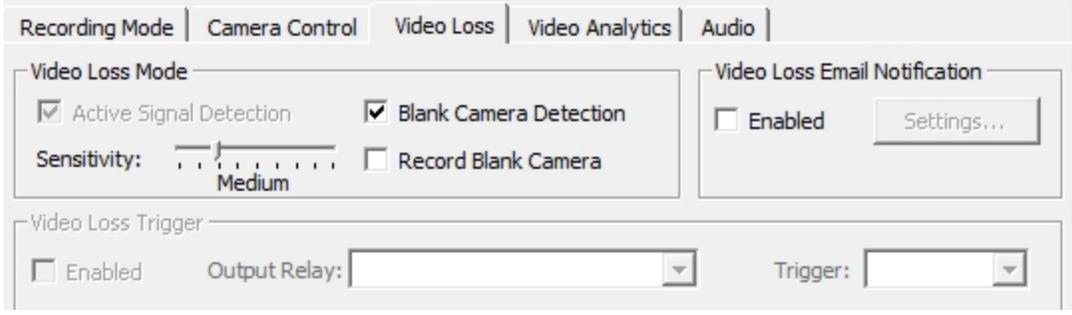
### Viewing a Digital Preset

Aside from the configuration process on VIGIL Server, Digital Presets can only be accessed using a VIGIL Client that has been interfaced with the VIGIL Server. A user can interact with saved digital presets in VIGIL Client in the same manner as a camera; Digital Presets maintain both live and playback functionality. Please reference the VIGIL Client User Guide for more information.

Digital Presets can also be configured as a POS/ATM Priority Camera. See "Priority Camera Settings " on page 89

## 4.6 Video Loss Tab

If the video signal is lost from an enabled camera, you can specify an action to take in the *Video Loss* tab.



**Figure 4-54:**Settings - Camera Setup Tab - Video Loss Tab

### 4.6.1 Video Loss Mode

<b>Active Signal Detection</b>	Enables hardware signal loss detection if the VIGIL Server capture card supports this feature.
<b>Sensitivity</b>	Adjusts the <i>Sensitivity</i> of the software signal loss detection.
<b>Blank Camera Detection</b>	When enabled, the software detects a signal loss when the live video is all black or white. This is useful if the camera is covered or blocked, and can be used in addition to or in place of hardware signal loss detection.
<b>Record Blank Camera</b>	When enabled, the VIGIL Server continues recording the camera feed during a signal loss. The Recording Mode for the camera must be set to <i>Constant</i> for this feature to work.

### 4.6.2 Video Loss Trigger

When enabled, *Video Loss Detection* triggers a DIO Relay.

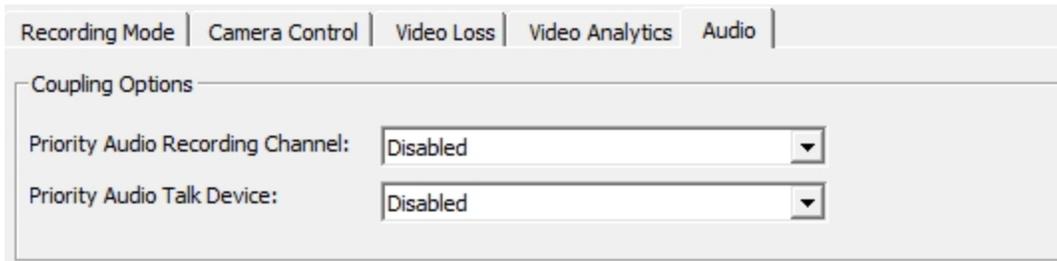
<b>Output Relay</b>	Select the DIO Relay.
<b>Trigger</b>	Select the type of trigger for the DIO Relay: <i>Momentary</i> , which lasts two seconds or <i>Latched</i> , which lasts until the video is recovered.

### 4.6.3 Video Loss Email Notification

When enabled, an e-mail will be sent to the recipients configured in *Email Settings...* For details on how to set up e-mail recipients, see [Video Motion Alarm Advanced Settings – Email Notification Settings](#).

## 4.7 Audio Tab

The *Audio* tab allows you to choose a *Priority Audio* channel and *Audio Talk* device for each camera.

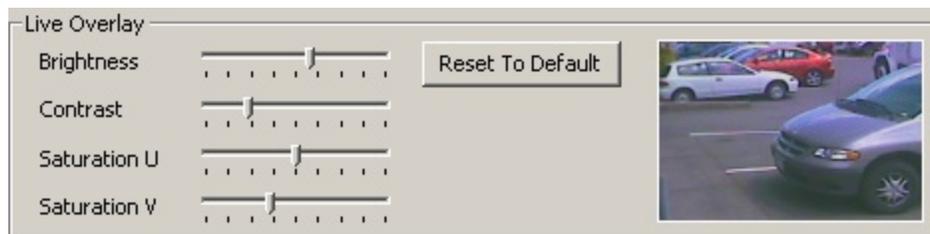


**Figure 4-55:**Settings - Camera Setup Tab - Audio Tab

<b>Priority Audio Recording Channel</b>	Select the <i>Audio Channel</i> that will be associated with this camera. <i>Audio Channels</i> are configured on the <i>Settings - Audio Tab</i> .
<b>Priority Audio Talk Device</b>	Select the <i>Audio Talk Device</i> that will be associated with this camera. <i>Audio Talk</i> devices are configured on the <i>Settings - Audio Tab</i> .

## 4.8 Live Overlay Tab

VIGIL Server Systems with *Live Overlay* cards will enable the *Live Overlay* tab. The *Brightness*, *Contrast* and *U/V Saturation* can be modified for the *Live Overlay* image.



**Figure 4-56:**Settings - Camera Setup Tab - Live Overlay Tab

## 5 Advanced Settings - Video Analytics Tab

From the Video Analytics tab, a user can view, delete and edit video analytics rules which have been synchronized with VIGIL Server.



**Note:** VIGIL Server offers support for VCA video analytics from analytic-capable cameras. VCA Video analytics rules are synchronized with VIGIL Server via the VIGIL Analytics Bridge. Contact your 3xLOGIC representative to acquire a compatible version of the VIGIL Analytics bridge.



**Note:** If you have updated a pre-version 9 copy of VIGIL Server to 9 or newer, advanced calibration and rules settings may be configurable for rules configured on the host VIGIL Video analytics(no longer supported). Please refer to VIGIL Server 8.5 User Guide or older for configuration confirmation regarding VIGIL Video Analytics..

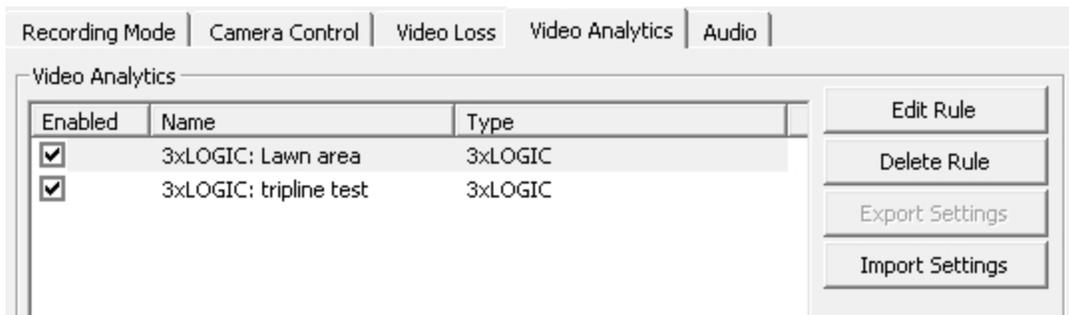


Figure 5-1:Settings - Video Analytics Tab

<b>Edit Rule</b>	Opens the <i>Rule Settings</i> window for the selected rule.
<b>Delete Rule</b>	Deletes the selected rule.
<b>Export Settings</b>	Export the video analytics <i>Rules</i> settings for this camera to a .dat file. This option allows a camera to be moved to a different physical input without having to reconfigure the analytics.
<b>Import Settings</b>	Import video analytics <i>Rules</i> settings to this Camera from a .dat file. This option allows a camera to be moved to a different physical input without having to reconfigure the analytics.

To delete a rule, select the rule from the list and click Delete.

To edit a rule, select a rule from the list and click *Edit* .

## 5.1 Editing an Analytics Rule

After selecting a rule and choosing *Edit Rule*, the *Rule Settings* window will deploy. The Rule Settings window consists of 3 tabs. General, Alert Settings and Rule Settings. As most analytics settings are configured on the camera itself, minimal settings can be edited from VIGIL Servers.

### General



Figure 5-2:Video Analytics - Rules Settings - General Tab

From the General Settings window, a user may re-name the rule, select a *Display Option* (*Never Show Rule, Always Show Rule, Show Rule when Alarmed*) for on-screen rule information and enter a description for the rule.

### Alert Settings

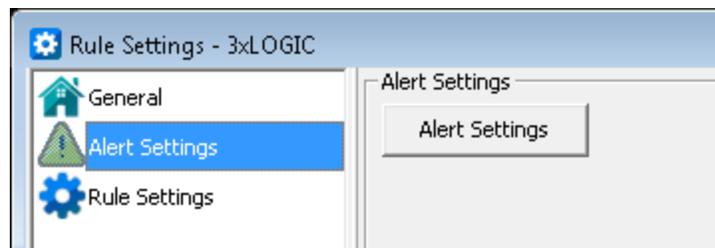


Figure 5-3:Video Analytics - Rules Settings - Alert Settings Tab

Clicking this tab reveals an Alert Settings button which opens the *Video Analytics Alert Settings* window which allows a user to schedule the alarm recording period and configure alerts / notifications. The Video Analytics Alert Settings window is the same as the Video Motion Alarm Advanced Settings Window. See "Recording Mode Tab" on page 29 under the Recording Settings Tab for configuration information.

### Rule Settings



Figure 5-4:Video Analytics - Rules Settings - Rules Settings Tab

On the *Rules Settings* tab, a user may set the Alarm Dwell time for the selected rule.

Click OK at the bottom of the windows to save the new settings.



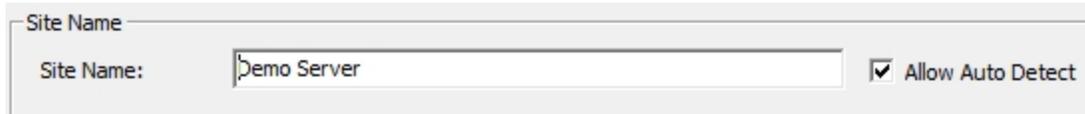
**Warning:** If VIGIL Analytics Bridge is used to retrieve rule info from a camera and the rules are re-synced with VIGIL Server, any rule changes configured on VIGIL Server will be overwritten with the new settings from the camera.

## 6 Advanced Settings - Server Settings Tab

### 6.1 Server Settings Tab - Basic Settings

The *VIGIL Server Settings* tab contains settings related to the software and hardware configuration of VIGIL Server.

#### 6.1.1 Site Name

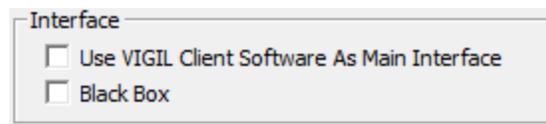


The screenshot shows a settings window titled 'Site Name'. It contains a text input field labeled 'Site Name:' with the value 'Demo Server'. To the right of the input field is a checked checkbox labeled 'Allow Auto Detect'.

Figure 6-1: Server Settings Tab - Site Name Settings

<b>Site Name</b>	The name of the <i>Site</i> where VIGIL Server is located. The site name is included when saving still images.
<b>Allow Auto Detect</b>	Allow the Server to be auto-detected by VIGIL Central Management (VCM) and VIGIL Client software.

#### 6.1.2 Interface



The screenshot shows a settings window titled 'Interface'. It contains two unchecked checkboxes: 'Use VIGIL Client Software As Main Interface' and 'Black Box'.

Figure 6-2: VIGIL Server Settings Tab- Interface Settings

<b>Use Client As Main Interface</b>	<p>Allows the use of VIGIL Client as your VIGIL suite main interface. Many configuration options available in server will now only be accessible through Client. This allows a unified user experience whether using our VIGIL Server system or connecting remotely.</p> <p> <b>Note:</b> As of VIGIL 11.50.0000, VIGIL Server has been fully converted to a service and some of the functionality gained in Client by enabling <i>Client as Main</i> in previous versions are now available in VIGIL Client by default</p>
<b>Black Box</b>	<p>Allows VIGIL Server to run in <i>Black Box</i> mode. <i>Black Box</i> mode causes Server to run without much of its functioning interface, essentially becoming a background application.</p> <p>This is often used with systems which are rarely altered or are only connected to via a remote connections.</p> <p>When enabling this option, the user will be prompted with the following warning:</p> <p>"This VIGIL Server system has been configured to Black Box Mode. Many of the local interface options including viewing live footage, searching footage, and use of VIGIL Client are disabled. A remote Client will be required to perform these tasks."</p>

#### 6.1.3 Offsite Backup on Alarm

Enable automatic export of footage to the specified off-site location when a DIO alarm occurs.

Offsite Backup on Alarm

Enable Offsite Backup

Pre Alarm Backup: 1 Mins

Post Alarm Backup: 1 Mins

... Any Alarm Input

**Figure 6-3:**Server Settings Tab - Offsite Backup on Alarm Settings

<b>Enable Offsite Backup</b>	Click the check box to enable this option. <i>Click ...</i> and select Windows or VFS Path to browse to a network location where the footage will be saved.
<b>Alarm Input</b>	Select the DIO alarm input that will trigger the off-site backup or select <i>Any Alarm Input</i> .
<b>Pre / Post Alarm Backup</b>	Specifies the number of minutes of footage to save prior to and after the <i>Alarm</i> event.

## 6.2 General Tab

Figure 6-4: Server Settings - General Tab

<b>Auto-Start Recorder</b>	When enabled, the VIGIL Server starts recording footage as soon as the VIGIL Server program is launched. When disabled, the user must manually start the recorder using the controls in the Recorder Controls window.
<b>Network Logging</b>	Logs network activity that can be reviewed in the <i>Network Log Analyzer</i> .
<b>Redundant VIGIL Server</b>	This feature only applies to Analog Cameras. A redundant VIGIL Server is used for backup recording in case of a VIGIL Server failure. If <i>Redundant VIGIL Server</i> is enabled, the Sentinel service will not display an error if there is no footage recorded in 24 hours. Redundant VIGIL Servers are normally used only in systems set up with <i>VIGIL Server Health Monitor</i> configured to use a Matrix switch for failover. Please contact 3xLOGIC for more information about this feature.
<b>Close Live On Playback</b>	When enabled, the <i>Live Viewer</i> window will close when the <i>Search</i> window is opened in order to conserve system resources.
<b>Close Playback on Live</b>	When enabled, the <i>Search</i> window will close when the <i>Live Viewer</i> window is opened in order to conserve system resources.
<b>Hide Minimize Maximize Buttons</b>	When enabled, hides the <i>Minimize</i> and <i>Maximize</i> window buttons on the main VIGIL Server screen.
<b>Watchdog</b>	When enabled, the watchdog circuit on the video capture card is used to verify that VIGIL Server is responsive. If the software becomes unresponsive, then the watchdog will reboot the VIGIL Server. You can test that the watchdog circuit is functioning by clicking the <i>Test Watchdog</i> button. The VIGIL Server should reboot within a few minutes if the watchdog is functioning correctly. This function only works with Analog Capture Cards that support this feature. This feature is not available on NVRs.
<b>Screen Saver</b>	Starts the VIGIL screen saver after a set number of minutes of system inactivity have lapsed.
<b>Show Acknowledgeable Errors</b>	When enabled, the <i>Error Alert</i> window will display if an error is recorded in the <i>Audit Log</i> ; this window will display until the error has been acknowledged by a user.



Figure 6-5:Error Alert Window

**Audit Log Analyzer**

Opens the *Audit Log Analyzer* where error alerts can be reviewed.

**Acknowledge All**

Acknowledges all error alerts.

**Remind Me later**

Closes the *Error Alert* window and opens it again after a set number of minutes.



**Note:** When the *Show Acknowledgeable Errors* feature is first enabled, the *Error Alert* window may display alerting of past errors that may already be resolved.

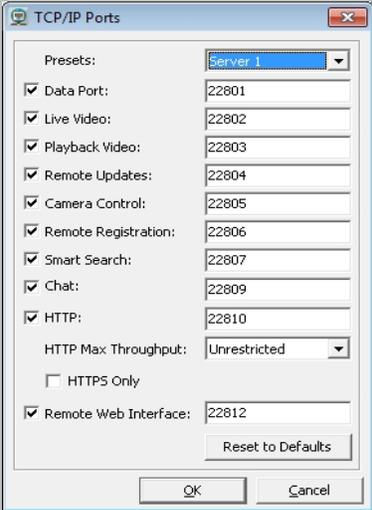
**Thread Watchdog**

For systems with advanced video stream freeze detection hardware, enabling this feature will make VIGIL Server monitor video request threads. If a thread stops responding after the configured amount of time, it will be restarted. This can help with video signals that tend to freeze.

**Performance Monitor**



**Warning:** Because continuous use of this function will adversely affect VIGIL Server performance, enabling Performance Monitor is not generally recommended.

<p><b>TCP/IP Ports</b></p>	<p>Allows the configuration of the TCP/IP ports used by VIGIL Server to connect with VIGIL Clients.</p>	<p><b>Presets</b></p>	<p>Select a preset from the drop-down menu to change all of the ports to that preset.</p>
		<p><b>Change a Port</b></p>	<p>Type a port number in the appropriate field.</p>
	<p><b>Figure 6-6: TCP/IP Ports Window</b></p>	<p><b>Disable a Port</b></p>	<p>Uncheck the appropriate box. If a port is disabled, VIGIL Clients connecting to the server will be unable to use the feature corresponding to that port.</p>
		<p><b>Reset to Defaults</b></p>	<p>Resets the ports to the default port numbers.</p>
<p><b>Reset Initial Footage Date</b></p>	<p>The VIGIL Server Health Monitor software uses the initial footage date in VIGIL Server to determine if the VIGIL Server is recording the proper number of days of video storage. Click the <i>Reset</i> button to reset the cached date of the first video footage recorded by the VIGIL Server to the oldest footage currently on the VIGIL Server.</p>		

## 6.2.1 User Audit

When *User Audit* is enabled, an audit trail of user activity is created based on criteria configured on a per user or group basis.

### User Audit Configuration

Enable *User Audit* and click the ... button to open the *User Performance Criteria* window. *Performance Criteria* can be configured on a per user or group basis.



**Note:** If a user has *Performance Criteria* configured, and is also a member of a group with *Performance Criteria* enabled, the *User Criteria* will be used.

Report Type	Minimum Value	Units	Time Span
<input checked="" type="checkbox"/> Footage Viewed	20	Min(s)	Daily
<input type="checkbox"/> Frames Viewed	0	Frames	Daily
<input type="checkbox"/> POS/ATM Query	0	Queries	Daily
<input checked="" type="checkbox"/> Searches Done	5	Searches	Daily
<input type="checkbox"/> Time Logged in	0	Min(s)	Daily
<input checked="" type="checkbox"/> Active Time	60	Min(s)	Daily
<input type="checkbox"/> POS/ATM Events Flagged	0	Events	Daily
<input type="checkbox"/> POS/ATM Events Flagged %	0	Percent	Daily

**Figure 6-7:**User Audit - User Performance Criteria Window

<b>All Users</b>	Select <i>All Users</i> to configure generalized options for all system users.
<b>Individual User</b>	Select <i>Individual User</i> and choose the User Name from the drop-down box to configure options for a specific user.
<b>User Group</b>	Select <i>User Group</i> and choose the <i>Group Name</i> from the drop-down box to configure options for a <i>Group</i> .
<b>Edit</b>	Edit the selected performance criteria.
<b>Idle Time</b>	Enter the time in <i>Seconds</i> that the system will wait before it begins to log the user as idle.
<b>Show Monthly Performance Percentage in Performance Meter</b>	Replace the daily usage performance percentage in the Performance Indicator (located in the Icon toolbar of both VIGIL Server and Client) with the monthly performance percentage.

### Performance Criteria

Enable the Report Type to configure the Minimum Value and the Time Span (Daily, Weekly or Monthly)

<b>Footage Viewed</b>	The amount of time spent playing video footage.
<b>Frames Viewed</b>	The number of video frames viewed during playback.
<b>POS Query</b>	The number of POS searches done. A query is counted each time the POS Data button is latched on and the Search button is clicked in the Search window.
<b>Searches Done</b>	The number of searches made. A <i>Search</i> is counted each time the <i>Search</i> button is clicked in the <i>Search</i> window.
<b>Time Logged In</b>	The amount of time logged in to VIGIL Server.
<b>Active Time</b>	The amount of time logged that the user is actively interacting with VIGIL server. This is tracked via cursor activity or other input such as keystrokes.
<b>VPOS Events Flagged</b>	The number of VPOS events the user has flagged.
<b>VPOS Events Flagged %</b>	The percentage of VPOS Events which were flagged by the user the previous day.

### Usage Performance Indicator

When a user logs in who is configured for *User Performance Monitoring* the *Usage Performance* status bar will be displayed. The user can click the *Details* button to view their performance usage details (See [User Performance Report - Sample Report](#) below for an example report).



Figure 6-8: User Audit - Main Toolbar Usage Performance Indicator

### User Audit Report

To open the User Audit Report tool, select it from the top *Tools* menu. The *User Audit Report* tool provides detailed reports on the report types that are configured.

 A screenshot of the "User Audit Report - Search Window" application. The window is divided into several sections:
 

- Search Criteria:**
  - Date / Time:** "From: 5/20/2013 10:29:57 AM" and "To: 6/20/2013 10:29:57 AM".
  - Users:** Radio buttons for "All Users", "Individual User" (selected), and "User Group". A dropdown menu shows "Administrator".
  - Report Type:** A dropdown menu set to "Footage Viewed".
  - Buttons for "Search" and "User Performance Report".
- Search Results - Calendar View:** A grid of calendars for February, March, April, May, and June 2013. The days of the week are labeled S, M, T, W, T, F, S. The date 5/20/2013 is highlighted in blue in the May calendar.
- Buttons for "Prev Month" and "Next Month" at the bottom right.

Figure 6-9: User Audit Report - Search Window

## Report Types

<b>Time Logged In</b>	<p>Details on login information for each session.</p> <p><i>Idle time</i> is counted when there is no user input.</p> <p><i>Active time</i> is counted while the user is actively manipulating the system.</p>
<b>Footage Viewed</b>	Details on video playback including the camera number, footage start and end times, number of frames viewed and the total time watched.
<b>POS/ATM Query</b>	Details on the search criteria used for POS queries.
<b>Searches Done</b>	Details on the searches performed including the camera numbers, search times and footage types.
<b>Usage Summary – All Report Types</b>	A summary report of the users activity similar to the usage performance details.

## User Audit Report - Sample Report

Below is an example of a completed *Time Logged In-User Audit* query.

User	Camera Numbers	Footage Start	Footage End	Frames Watched	Total Time Watched
Administrator	4	6/19/2013 4:07:37 PM	6/19/2013 4:08:05 PM	268	00:00:26
Administrator	7	6/20/2013 9:12:07 AM	6/20/2013 9:12:07 AM	1	00:00:15
Administrator	4	6/20/2013 7:50:04 AM	6/20/2013 7:50:21 AM	148	00:00:15
Administrator	4	6/20/2013 7:50:21 AM	6/20/2013 8:00:04 AM	3135	00:02:05
Administrator	4	6/20/2013 8:00:28 AM	6/20/2013 8:00:45 AM	2205	00:00:09
Administrator	4	6/20/2013 8:03:54 AM	6/20/2013 9:47:20 AM	26646	00:35:48
User	4	6/17/2013 2:14:28 PM	6/17/2013 2:14:29 PM	15	00:00:01
User	4	6/17/2013 2:14:28 PM	6/17/2013 2:14:30 PM	29	00:00:03
User	13	6/17/2013 2:14:28 PM	6/17/2013 2:14:30 PM	23	00:00:03
User	7	6/18/2013 8:08:09 AM	6/18/2013 8:08:29 AM	21	00:00:22
User	11	6/18/2013 8:08:09 AM	6/18/2013 8:08:28 AM	568	00:00:22
User	4	6/18/2013 8:08:09 AM	6/18/2013 8:08:28 AM	47	00:00:22
User	11	6/18/2013 8:08:28 AM	6/18/2013 8:08:29 AM	22	00:00:01
User	7	6/18/2013 8:08:29 AM	6/18/2013 8:08:29 AM	1	00:00:01
User	4	6/18/2013 8:08:28 AM	6/18/2013 8:08:29 AM	9	00:00:01
User	14	6/20/2013 8:14:28 AM	6/20/2013 8:19:46 AM	835	00:00:56

**Figure 6-10:**User Audit - Sample User Audit Report

For more information on a user's usage history regarding individual audit entries, double click an entry in the *Search Results* section. A user usage summary report regarding the selected audit entry will open in a separate window.

An example of the usage summary report is pictured below.

## User Audit Report - Example Usage Summary Report

### Administrator's Usage Summary

Report Generated: 6/20/2013 12:33:09 PM

User is currently **logged in** since 6/20/2013 10:47:09 AM with **1h 46m** of total time this session (active time: **29m**, idle time: **1h 17m**).

Total **logged in time** for all sessions this period is **53m**.

Total **active time** for all sessions this period is **13m**.

Total **idle time** for all sessions this period is **40m**.

Usage Item	Value
Footage Viewed	0 Min(s)
Frames Viewed	16898 Frames
POS/ATM Query	2 Queries
Searches Done	1 Searches
Idle Time	40 Min(s)
Time Logged In	53 Min(s)
Active Time	13 Min(s)

Figure 6-11:User Audit - Usage Summary Report - Example

### User Performance Report

Figure 6-12:User Audit - User Performance Report Configuration

<b>Users</b>	<p><b>View Performance For</b> - Choose the user whose performance statistics will be reported.</p> <p><b>Exclusion Dates</b> - When clicked, this button will open an <i>Exclusion Dates</i> window where dates that need to be excluded from the performance reported can be chosen.</p>
<b>Timespan</b>	Select the amount of days to audit by selecting a <i>Check for Last x Days</i> value and an appropriate <i>Prior To</i> date. In the above example, the 28 days leading up the 5/1/2015 will be audited for user performance.
<b>Performance Criteria</b>	<p><b>Active Time Per Day</b> - Set the amount of acceptable active daily usage.</p> <p><b>Acceptable Performance</b> - Set the acceptable performance percentage(the user will pass or fail the Performance Report based on this percentage.)</p>

Click *Calculate* to generate a the *User Performance* report.

## User Performance Report - Sample Report

### User Performance Report

Report Generated: 4/19/2015 10:32:14 AM

Date Range: 3/22/2015 to 4/18/2015  
 Site Name: Demo Test  
 Employee: Administrator

#### Performance Criteria

Footage Viewed: 60 Min(s) Daily  
 Frames Viewed: 3000 Frames Daily  
 POS/ATM Query: 5 Queries Daily  
 Daily Performance: 100%

#### Performance Summary

Total Days: 28  
 Excluded Days: 0  
 Days with at least 100%: 26  
 Days with less than 100%: 2

**Overall Performance: 0.00%**

#### Details

Date	Status	Footage Viewed (Min(s))	Frames Viewed (Frames)	POS/ATM Query (Queries)
3/22/2015	100%	113.00	4168	7
3/23/2015	95%	52.13	2616	5

**Figure 6-13:**User Audit - User Performance Report

The User Performance Report contains detailed report info(date, site, audited user), the required performance criteria aluminium values, and the user's performance summary. The user will be awarded an Overall Performance percentage which is then followed by a list of all audit data entries.

## 6.3 Startup Tab

The *Startup* tab allows configuration of VIGIL Server's startup behaviour, as well as scheduling of system reboots.

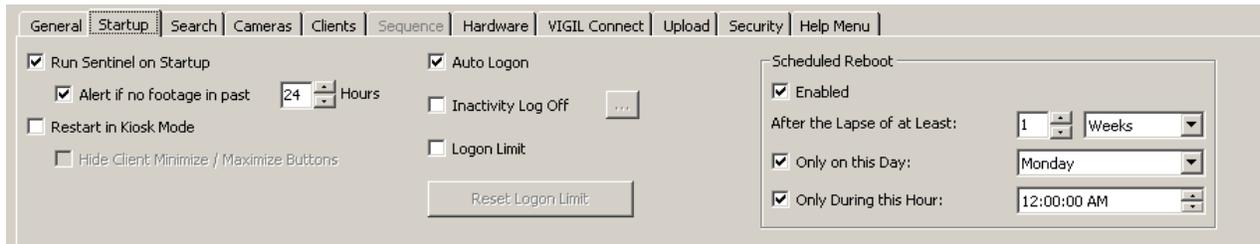


Figure 6-14: Server Settings - Startup Tab

<b>Run Sentinel on Startup</b>	When enabled, the <i>Sentinel</i> program will run as soon as VIGIL Server launches. The <i>Sentinel</i> program monitors critical VIGIL Server functions and warns the user in event of failure.
<b>Alert if no footage in past ... hour(s)</b>	Displays an alert if VIGIL Server detects that there is no footage recorded in the amount of time set in the drop-down menu. Choose any hour increment between 1 and 24.
<b>Restart in Kiosk Mode</b>	When enabled, VIGIL Server will restart in <i>Kiosk</i> mode. <i>Kiosk</i> mode hides the Windows shell program so that the Windows desktop, taskbar, Start button and other Windows shell features are not available.
<b>Hide Client Minimize/Maximize Button</b>	When running <i>Client as Main Interface</i> in <i>Kiosk Mode</i> , this option will disable the Client maximize and minimize buttons to avoid lower-tier users from pulling the Client out of full-screen mode.
<b>Auto Logon</b>	When enabled, a specified user is automatically logged into VIGIL Server upon startup. If disabled, VIGIL Server will prompt for a login every time it starts up.
<b>Inactivity Logoff</b>	<p>When enabled, the current user will be logged off the VIGIL Server after a number of minutes of no activity.</p> <p><b>Auto Re-Logon</b> - When enabled, another user is automatically logged in after the number of minutes specified for the <i>Auto Logoff Timeout</i>.</p>
<b>Logon Limit</b>	When enabled, User accounts are restricted to 3 logon attempts. If 3 incorrect attempts are made, the account will be locked out for a period of one hour. A user with administrative rights can reset the lockouts with the <i>Reset Logon Limit</i> button.
<b>Scheduled Reboot</b>	When enabled, the VIGIL Server will automatically reboot after the specified amount of time has lapsed but only during the day and time indicated.



Figure 6-15: Inactivity Log Off Window

## 6.4 Search Tab

The *Search* tab defines search parameter and settings for the VIGIL Server. Searches are performed via VIGIL Client.

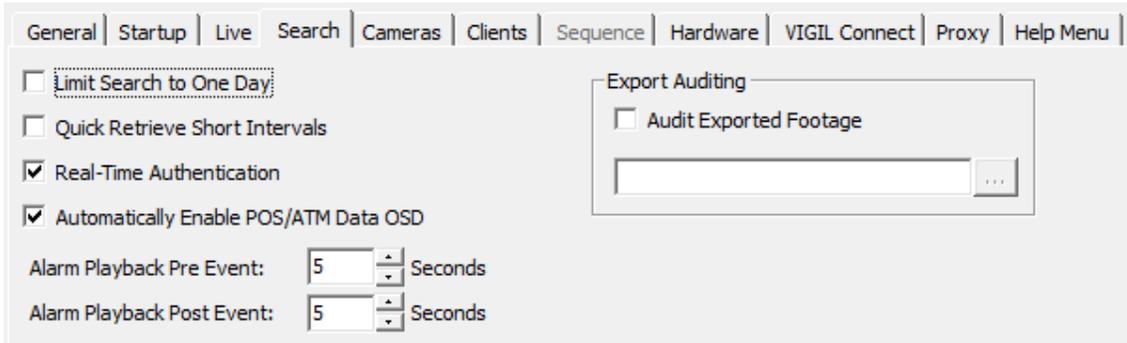


Figure 6-16: Settings - Server Settings Tab - Search Tab

<b>Limit Search To One Day</b>	When enabled, the VIGIL Client <i>Search</i> window will be limited to performing searches for a single day only for this VIGIL Server.
<b>Quick Retrieve Short Intervals</b>	When enabled, the <i>Quick Retrieve</i> drop-down menu in the VIGIL Client <i>Search</i> window offers a selection of short intervals of 15 and 30 minutes in addition to the standard choices.
<b>Real-Time Authentication</b>	When enabled, video footage is checked for authenticity while played back from the VIGIL Client <i>Search</i> window.
<b>Automatically Enable POS/ATM OSD</b>	When enabled, <i>POS/ATM Data On Screen Display (OSD)</i> will be automatically enabled in VIGIL Client when playing back a camera that is set as a Priority POS/ATM Data Camera on the VIGIL Server.
<b>Alarm Playback Pre / Post Event</b>	Set the amount of time to playback prior to / after an <i>Alarm</i> when playing <i>Alarm</i> footage in VIGIL Client's <i>Server Alarms</i> window.
<b>Export Auditing</b>	Enables mandatory auditing of all video exports. Choose the path where the audit text files will be saved.

## 6.5 Cameras Tab

The *Cameras* tab specifies the type of cameras being recorded.



Figure 6-17: Settings - Server Settings Tab - Cameras Tab

<b>A/C Cameras</b>	Enable <i>A/C Cameras</i> to set VIGIL Server to record footage from A/C powered cameras. Disable it to record footage from D/C powered cameras.
<b>NTSC / PAL Cameras</b>	Select the appropriate broadcast standard for your cameras: NTSC or PAL. Choosing the wrong video standard will result in poor video quality.

<b>Configure OSD...</b>	<p>On systems containing a capture card, configure the display of the <i>On-Screen Display Font settings, Camera Name</i> and <i>Date / Time</i> information on the camera live view.</p> <p> <b>Warning:</b> This will only enable OSD for the capture card.</p>
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## 6.6 Clients Tab

The *Clients* tab indicates how client connections should be handled. A *Client Connection* represents a network connection to the VIGIL Server from an outside source (VIGIL Client, View Lite Smart Device App, 3xCLOUD, VIGIL Web, etc.)

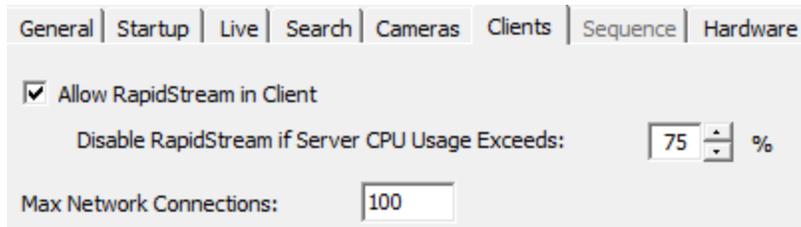


Figure 6-18: Settings - Server Settings Tab - Client Tab

<b>Allow RapidStream in Client</b>	When enabled, the Playback window in VIGIL Client will have the option to playback video at <i>Full Resolution</i> or at a <i>CIF Resolution</i> using <i>RapidStream</i> technology.
<b>Disable RapidStream if Server CPU Usage Exceeds...</b>	The <i>RapidStream</i> playback on Client is handled by the Server before sending the playback stream to the Client. To ensure functionality of the VIGIL Server is not adversely affected, the <i>RapidStream</i> playback will be disabled if the CPU on the Server reaches the specified percentage. When the CPU usage drops back below the percentage the <i>RapidStream</i> option will again be available. This can happen dynamically during playback.
<b>Max Network Connections</b>	Enter the maximum number of simultaneous client connections allowed.

## 6.7 Sequence Tab

The *Sequence* tab configures the camera display sequences for the analog output monitors or the analog live viewer. A sequence can be configured for hardware rendered live view using analog or IP cameras.



Figure 6-19: Settings - Server Settings Tab - Sequence Tab

<b>Monitor Number</b>	Select the analog output monitor number for the sequence.
<b>Auto Start Sequence</b>	When enabled, the sequence for the selected analog output monitor is started automatically when VIGIL Server starts.

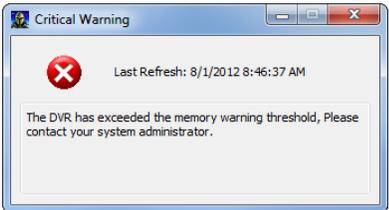
<b>Add</b>	Add a new camera to the sequence with a specified dwell time.
<b>Edit</b>	Modify the dwell time of the selected camera.
<b>Delete</b>	Remove the selected camera from the sequence.
<b>Up / Down</b>	Moves the selected camera up / down in the sequence.

## 6.8 Hardware Tab

The *Hardware* tab informs VIGIL Server of the specific hardware you may have installed.

Figure 6-20: Settings - Server Settings Tab - Hardware Tab

<b>Max Allowed PCI Bandwidth</b>	Restricts the amount of data the video capture card can push through the PCI bus.
<b>Max Total IP Camera FPS</b>	Restricts the combined total frame rate for all network cameras. Lower the setting from default if the VIGIL Server experiences performance issues when the <i>Live Viewer</i> is open.
<b>Use VGA Hardware Acceleration</b>	When enabled, software rendered <i>Live Viewer</i> (and IP cameras in hardware <i>Live Viewer</i> ) will be rendered using <i>Hardware Acceleration</i> (YUV), when disabled they will be rendered using GDI.
<b>Substream Motion Detection</b>	<p>When enabled, VIGIL will attempt to detect motion via sub-stream. If sub-stream is not available, VIGIL will revert to detecting motion on main stream. If sub-stream is in signal loss, VIGIL will revert to mainstream after 10 seconds. This feature must be licensed though a 30-day free trial is included. Contact your 3xLOGIC representative for more information.</p> <p>After enabling Substream Motion Detection, the user must configure a Capture Card GOP Interval.</p> <p> <b>Warning:</b> For the <i>Substream Motion Detection</i> feature to function successfully with VISIX IP cameras and/or systems with capture cards, the substream needs to be configured for 1 or more key frames per second. For capture cards, this is the equivalent to a GOP (Group of Pictures) value of equal to or less than the FPS configured on the substream.</p>
<b>Hardware CODEC</b>	On <i>PROSERIES</i> systems or hybrid NVRs, select the hardware CODEC to use, MPEG4 or H264/H265. Changing the Hardware CODEC requires a system reboot.
<b>Skip Channel</b>	On <i>PROSERIES</i> systems, enable <i>Skip Channel</i> to only use even numbered channels. This reduces the number of inputs by half, allowing each input to reach maximum

	FPS and resolution.	
<b>Non Real Time Capture</b>	On <i>PROSERIES HCI</i> version cards, enable this option to enable recording at higher resolution than 352x240. Enabling this option will cause the feed to not record in real time.	
<b>Hard Drive Temperature Threshold</b>	Set the maximum temperature for the VIGIL Server's hard drives. If a hard drive exceeds this temperature, a warning will be displayed and an entry placed in the <i>Audit Log</i> . The <i>View</i> button will open a window to display Information about the Hard Drives in the system, including <i>Temperature</i> , <i>Model</i> , <i>Serial Number</i> and <i>Firmware</i> version.	
<b>Synchronize Clock With</b>	VIGIL Server can connect to a time server to synchronize the VIGIL Server time. When enabled, you can choose to sync with either an NTP server or to another PC that can respond to a NET TIME request. You must specify which NTP or NET TIME PC to synchronize with. If the VIGIL Server system's time is off by more than twelve hours, the time will not be synchronized.	
	<b>Sync Frequency</b>	Set this value (in hours) to configure how often the VIGIL Server will sync with the NTP Server.
	<b>Initial Sync Time</b>	Set this value to configure the initial synchronization time. If the <i>Sync Frequency</i> value is set to any other value than 24 hours, the initial sync time will only be used for the initial synchronization and any future auto-synchronizations will be performed according to the <i>Sync Frequency</i> value.
	<b>Test NTP</b>	Attempts to synchronize the time on the VIGIL Server system immediately.
	<b>View Report</b>	<p>Opens the <i>Windows Event Viewer</i>. Select the System log and look for an entry at the top of the list with the Source "W32Time" to synchronize with.</p> <p> <b>Note:</b>The NTP test will not record an event in the Windows Event log if the time is already correct.</p>
<b>Memory Warning Threshold</b>	This setting monitors the memory usage of the VIGIL Server process. Due to limitations in Windows there is a limit on the amount of memory a single process can address. If the process reaches the configured threshold, a warning will pop up indicating that the memory usage is high. If this warning pops up please contact your system administrator or support department.	 <p><b>Figure 6-21:Memory Threshold Warning Popup</b></p>
<b>Scavenger Threshold</b>	Set the VIGIL <i>Scavenger Threshold</i> percentage. When a media drive's available capacity falls under the allotted threshold, VIGIL will begin scavenging the oldest footage / data on the drive to free up storage space.	

	<p> <b>Example:</b> If the Scavenger Threshold value is set to 10%, VIGIL will begin to scavenge footage whenever a media drive reaches 90% capacity.</p>
<p><b>Max Locked Video Disk Usage</b></p>	<p>Set the maximum amount (as a percentage of your total video storage) of locked video than can be stored on the Server. When this threshold is reached, older locked video must be released to allow for new video locking.</p>
<p><b>AUX Device Set-tings...</b></p>	<p>Open the <i>AUX Device Settings</i> window for configuring other attached devices such as DIO boards and encoders. Dynamic loading of ONVIF alarm events can also be performed via the AUX Device Settings.</p>
<p><b>Sub Stream Settings...</b></p>	<p>Set the sub-stream image settings for analog cameras. Click the <i>Sub Stream Set-tings...</i> button to launch the below window.</p> <div data-bbox="620 663 1130 919" data-label="Image"> </div> <p><b>Figure 6-22:</b>VIGIL Server Settings- Hardware Tab - Substream Settings</p> <p><b>Note:</b></p> <ul style="list-style-type: none"> <li>■ One some capture card systems (3xLOGIC's v250, v500, etc..), this option will be replaced by the VIGIL Analog Settings Utility (accessed via VIGIL Server Settings&gt;<a href="#">Camera Setup Tab</a>).</li> <li>■ On PROSERIES Cards, you can enable sub stream video feed for analog video channels. <i>Resolution, Quality, FPS and Bitrate</i> can be set. The <i>Sub-Stream</i> will be available to VIGIL Clients connected to the VIGIL Server.</li> </ul>
<p><b>Keyboard Settings...</b></p>	<p>Allows you to add, edit, or remove a special camera control keyboard, such as the Pelco KBD300A.</p> <p> <b>Note:</b>The Pelco KBD300A F1 and F2 buttons can be used to latch on and off VIGIL Server Relays #1 and #2.</p>
<p><b>Launch POE Set-tings Util-ity...</b></p>	<p>Launches the VIGIL Analog PoE Settings Utility (pictured below).</p> <p> <b>Note:</b> This button is only visible on VIGIL NVRs with Analog PoE (Power-over-Ethernet) capability and is not pictured in the example at the beginning of this section. The appearance of the utility may very depending on the NVR on which its installed.</p>

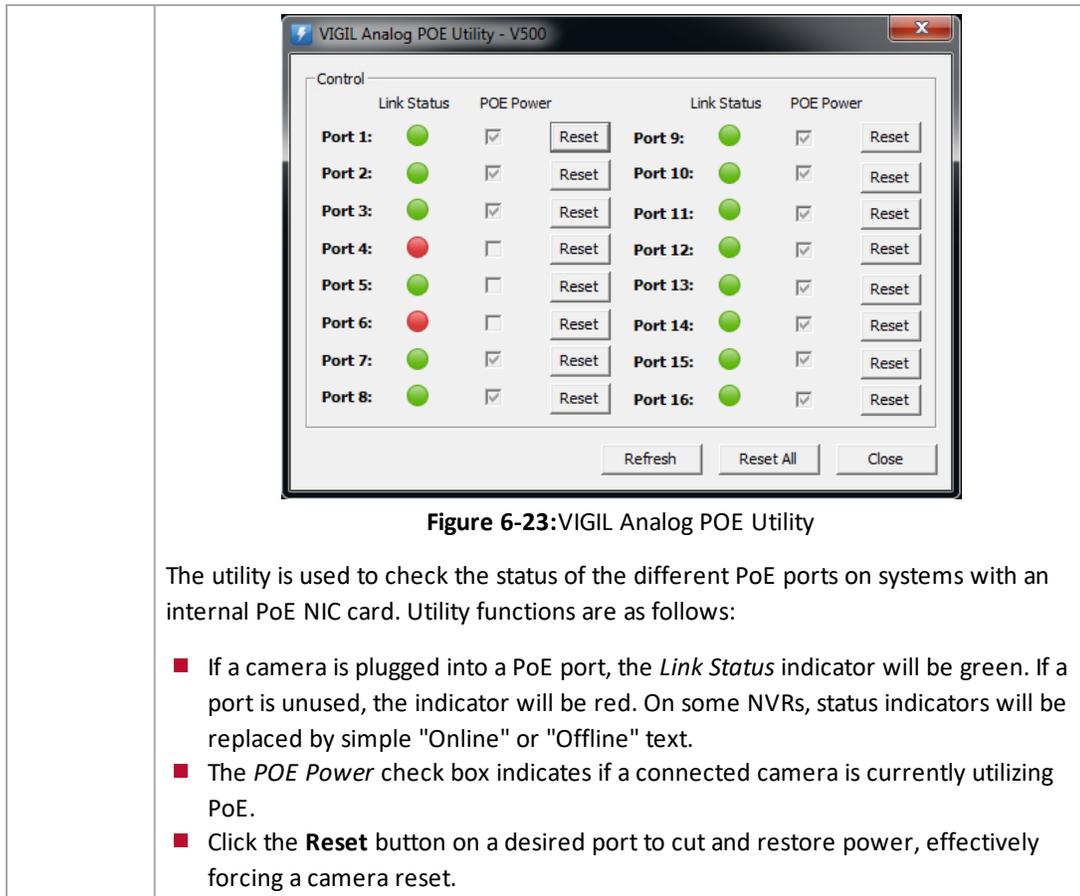


Figure 6-23: VIGIL Analog POE Utility

The utility is used to check the status of the different PoE ports on systems with an internal PoE NIC card. Utility functions are as follows:

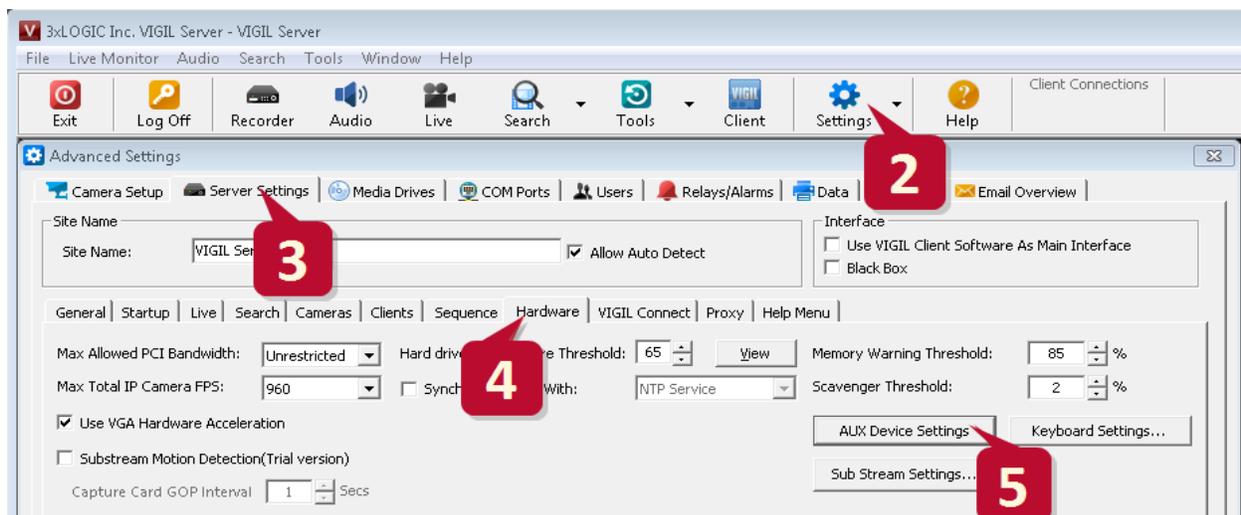
- If a camera is plugged into a PoE port, the *Link Status* indicator will be green. If a port is unused, the indicator will be red. On some NVRs, status indicators will be replaced by simple "Online" or "Offline" text.
- The *POE Power* check box indicates if a connected camera is currently utilizing PoE.
- Click the **Reset** button on a desired port to cut and restore power, effectively forcing a camera reset.

### 6.8.1 AUX Device Settings - Dynamically Loading ONVIF Alarm Events from XML Config File

As of VIGIL Server v9, Alarm Events (DIO) for ONVIF devices can be dynamically loaded from an xml file located in the VIGIL Server root directory. This allows the quick addition of ONVIF-based alarm events from newer camera models without the need for a VIGIL Server update. Replacing (with an updated file) or updating the xml file and reloading are the only requirements to update available ONVIF DIO alarm events.

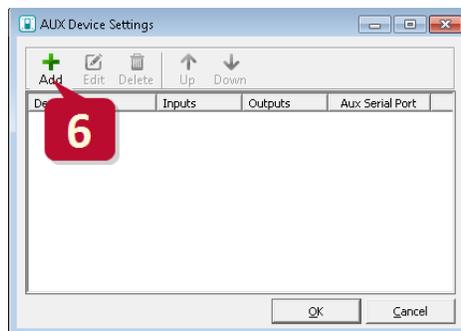
ONVIF alarm events can be loaded via the *VIGIL Server Settings > Server Settings > Hardware > AUX Device Settings* form. To begin:

1. Login to VIGIL Server



**Figure 6-24:** Dynamically Loading ONVIF Alarm Events - Opening the AUX Device Settings

2. Click the Settings button in the icon menu toolbar.
3. On the Settings window, select the Server Settings tab.
4. Select the Hardware tab.
5. Click the AUX Device Settings button.

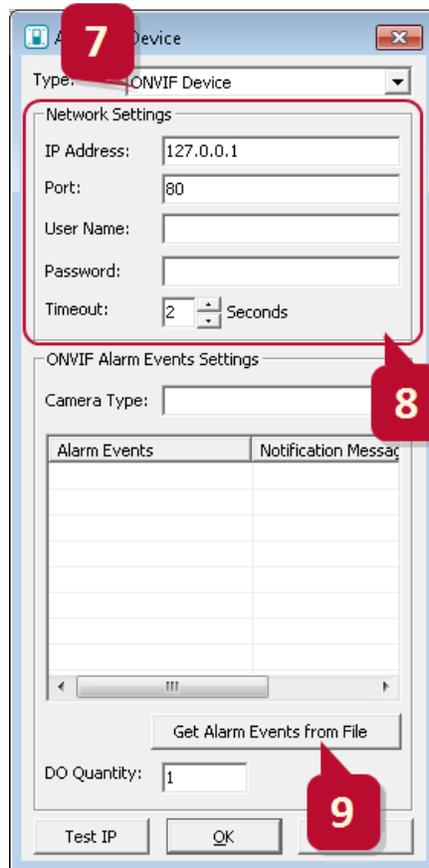


**Figure 6-25:** Dynamically Loading ONVIF Alarm Events - Adding ONVIF Aux Device

6. Select Add (or choose an existing ONVIF device from the list and select Edit).

The Add DIO Device window will now deploy. A user may configure a new DIO device from this window.

7. Select ONVIF Device in the Type dropdown menu. The Add DIO Device form will expand.



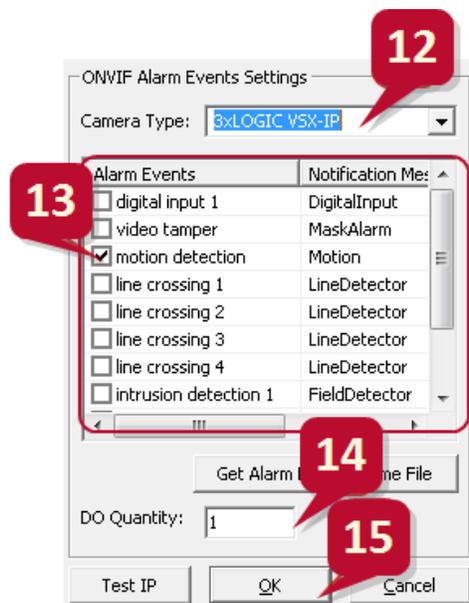
**Figure 6-26:** Dynamically Loading ONVIF Alarm Events - Retrieving Events from Config File

8. Fill out basic Network Settings.

After filling in basic network connection values, you may now load alarm events from the alarm events configuration file. To begin:

9. Select Get Alarm Events from File. A Windows file browser will deploy.
10. Navigate to your VIGIL Server install directory (e.g C:\Program Files\VIGIL\Server)
11. Select the alarmevents.xml file.

The Alarm Events list will now populate with events for the selected Camera Type (3xLOGIC VSX-IP is the default Camera Type).



**Figure 6-27:** Dynamically Loading ONVIF Alarm Events - Selecting Events Loaded from Config File

12. Select the desired Camera Type. Alarm events configured within the xml file that correspond to the chosen camera type will populate the list.
13. Check-off desired Alarm Events
14. Set a DO Quantity.
15. Click OK to add the new DIO device.

The DIO Device will now be configured in VIGIL Server using the chosen Alarm Events. To update ONVIF DIO Alarm events in the future, overwrite the `alarmevents.xml` file in the VIGIL install directory with a newer version provided to you by 3xLOGIC.

## 6.9 VIGIL Connect Tab

VIGIL Connect allows for simplified connections to Server. When VIGIL Connect is enabled, you can configure a VIGIL Client to connect with either the system's *Serial Number* or an *Alias* instead of the IP Address. This is especially useful in situations where the IP Address of the VIGIL Server may change without notice.

To utilize a VIGIL Connect Alias, click *Enable VIGIL Connect*. The following information prompt will deploy:



Figure 6-28:VIGIL Connect Info Prompt

If you have read and are in agreement with the information in the prompt, click *Yes* to enable VIGIL Connect. The below interface will deploy. VIGIL Connect settings are contained on the left-side with disclaimer information available at-right.

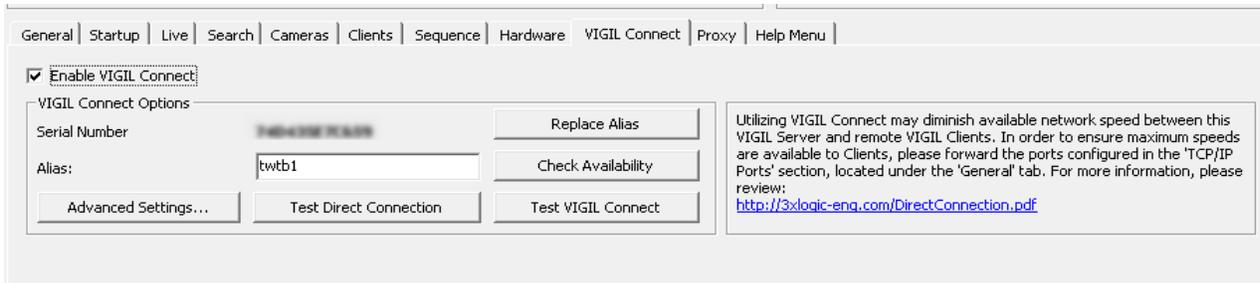


Figure 6-29:Settings - Server Settings Tab - VIGIL Connect Tab

<b>Enable VIGIL Connect</b>	Check to enable VIGIL Connect. The first time you enable this option the system will check if your router is UPnP enabled. If it is, the port forwarding will be automatically created in the router for you. If it is not, you will receive a message stating this and that you will need to create the port forwarding in the router yourself. Please consult the documentation for your specific router for how to create port forwarding.
<b>Serial Number</b>	The <i>Serial Number</i> of the VIGIL Server.
<b>Alias</b>	You can configure an easy to remember <i>Alias</i> for the VIGIL Server so you do not have to remember the Serial Number. The alias is <b>case sensitive</b> .
<b>Replace Alias</b>	If a user is receiving a <i>Duplicate VIGIL Connect Alias</i> warning, or if a motherboard has recently been swapped on the system and desired alias is assigned to the old motherboard, clicking <i>Replace Alias</i> will open the Alias Swap web portal.

Follow the instructions on the web page to swap the alias from the old motherboard to the new motherboard. The old motherboard's MAC address is required to perform the Alias replacement..

**Check Availability**  
Click this button to communicate with the VIGIL Connect Central Server and determine if the *Alias* is available. All aliases must be unique and if the check fails, the user will be prompted accordingly.

**Advanced Settings...**  
Opens the *VIGIL Connect Settings* window. If UPnP was not detected by VIGIL Server, you may retrieve port Internal Port and Port Mapping values here to manually enter into your router's port forwarding.

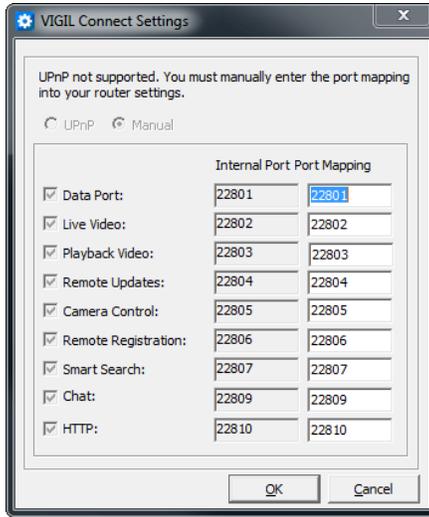


Figure 6-30: VIGIL Connect Settings Window

**Test Direct Connection**  
Clicking the *Test Direct Connection* button will open the below window. Every port will be tested and its status will be indicated with either a (connection failure) or a (connection success.)

Click the *Test Connection* button to run the test again.

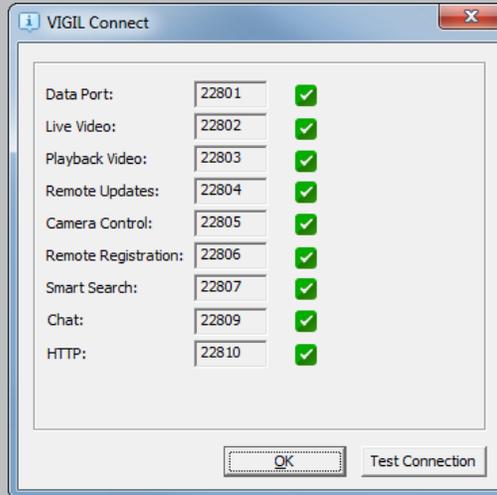
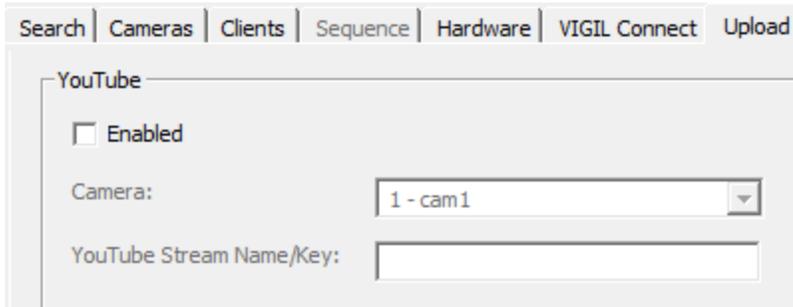


Figure 6-31: VIGIL Connect- Test Direct Connection Window

**Test VIGIL Connect**  
Tests VIGIL Connect using your current configuration.

## 6.10 Upload

The Upload tab provides configuration for pushing a live stream to external video platforms.



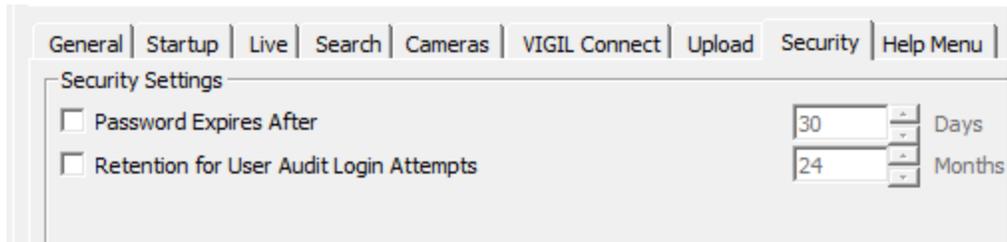
The screenshot shows the 'Upload' tab in the VIGIL Server Settings interface. At the top, there is a navigation bar with tabs for 'Search', 'Cameras', 'Clients', 'Sequence', 'Hardware', 'VIGIL Connect', and 'Upload'. Below this, the 'YouTube' section is visible. It contains an 'Enabled' checkbox which is currently unchecked. Below the checkbox is a 'Camera:' label followed by a dropdown menu showing '1 - cam1'. At the bottom of the section is a 'YouTube Stream Name/Key:' label followed by an empty text input field.

**Figure 6-32:**VIGIL Server Settings - Server Settings - Upload Tab

To enable streaming to YouTube, toggle the Enabled option and select the desired *Camera*. Enter your *YouTube Stream Name / Key*. Save the settings to begin streaming footage from the selected camera.

## 6.11 Security

The Security tab features configuration options for security features of the VIGIL Server.



**Figure 6-33:**VIGIL Server Settings - Server Settings - Security Tab

<b>Password Expires After</b>	If enabled, the user can set the VIGIL Server User password expiry interval (in days).
<b>Retention for User Audit Login Attempts</b>	If enabled, the user can choose the maximum amount of time (in Months) to log login attempts for user audit reporting purposes.

## 6.12 Help Menu Tab

The *Help Menu* tab allows the user to configure an application that can be run the system tray icon right-click menu.

The screenshot shows the 'Help Menu' tab in the settings interface. It includes a tabbed menu at the top with options: General, Startup, Live, Search, Cameras, Clients, Sequence, Hardware, VIGIL Connect, Proxy, and Help Menu. Below the tabs, there are four configuration fields:
 

- Custom Help Menu Item:** A checkbox that is checked.
- Custom Help Action:** A text input field containing 'C:\notepad.exe' and a browse button (three dots).
- Parameters:** An empty text input field.
- Menu Text:** A text input field containing 'Take Notes!'.

Figure 6-34: Settings - Server Settings Tab - Help Menu Tab

<b>Custom Help Menu Item</b>	Enables the <i>Customized Help Menu Item</i> . Check this box to begin creating a custom help icon / item for your system tray right-click menu.	
<b>Custom Help Action</b>	Set a directory path to the command you are planning to assign to your custom icon. Click the ... button to browse the list of commands directly. Essentially, the chosen command is what will run when the new custom icon is clicked. Files that are commonly mapped to custom help icons include .exe, .chm, and .htm.	
<b>Parameters</b>	Enter the command line argument(s) that specify an action to take. If no additional actions are required, leave this box blank. (i.e. you have assigned a .exe to your custom help item, you could set it to <i>Run as Administrator</i> ).	
<b>Menu Text</b>	This text will display as a label for your new custom help item in the VIGIL Server system tray icon right-click menu. Custom help item is displayed above <i>Exit</i> in the menu.	

## 7 Advanced Settings - Media Drives Tab

The *Media Drives* tab configures video recording destinations and export destinations for the VIGIL Server.

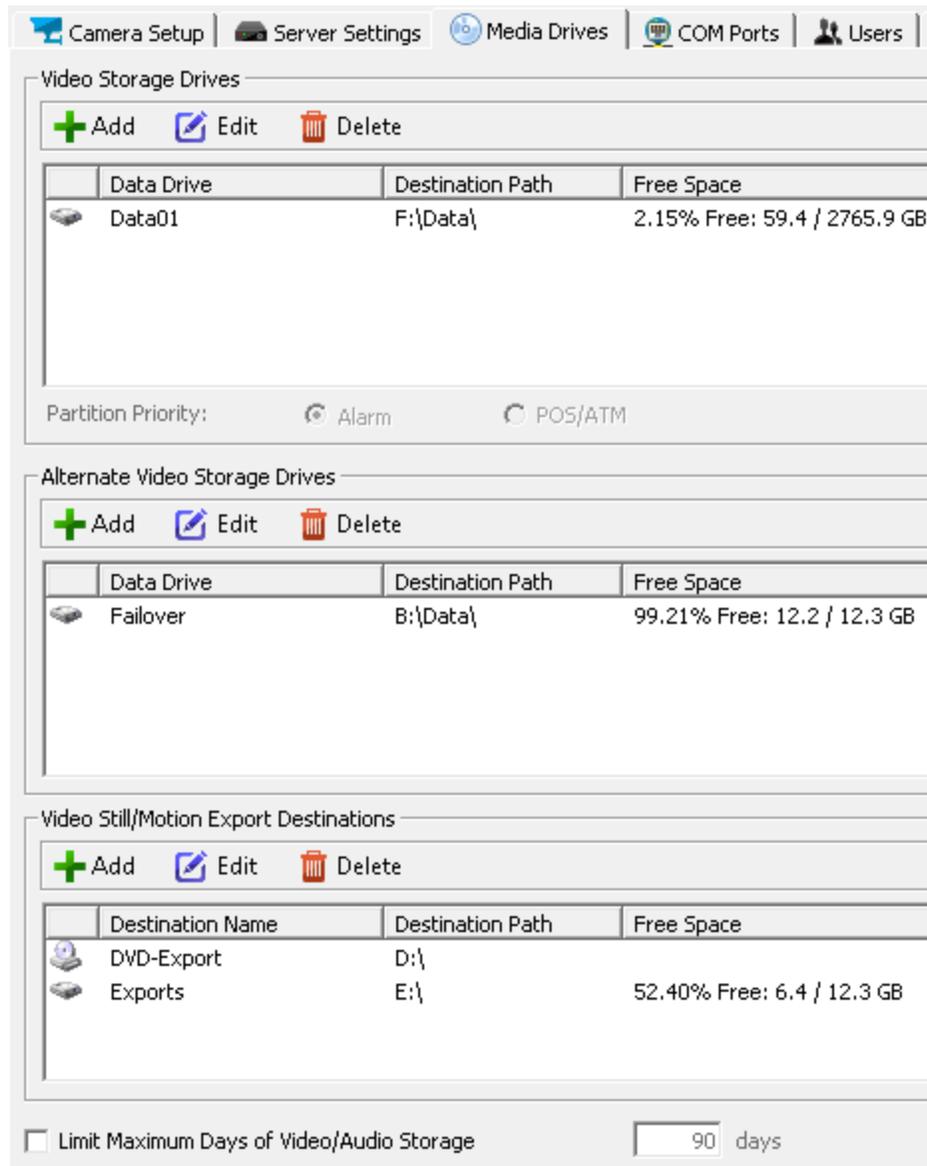


Figure 7-1: Settings - Media Drives Tab

There are three types of media drives: Video Storage Drives, Alternate Video Storage Drives, and Export Destinations. *Alternate Video Storage Drives* are only used if every *Video Storage Drive* is offline.

<b>Add</b>	Opens the Media Control window to configure a storage location.
<b>Edit</b>	Edit the selected location.
<b>Delete</b>	Deletes the selected location.
<b>Partition Priority</b>	If data partitioning is enabled, the priority can be set to Alarm or POS/ATM Data Alarm footage. For example, if a motion alarm and a POS/ATM data alarm occur on the same piece of footage, the priority determines into which partition the footage will be saved.

<b>Limit Maximum Days of Video/Audio Storage</b>	<p>Enable this option to set a maximum limit (in days) for footage and audio storage. Enter a maximum value in the available field. When this feature is enabled, the default value is 90 days.</p> <p><b>e.g.</b> <b>Example:</b> If this maximum value is set to 45 days, VIGIL will begin to scavenge footage and audio once 45 days of footage/audio retention has been reached.</p>
--	--



**Note:** Deleting a location does not remove the physical destination, only the reference to it within VIGIL Server.



**Note:** If a *VideoStorage Drive* or *Alternate Storage Drive* is deleted, the user will be prompted whether they also want to delete any database records of the footage at that location and whether they want to delete any saved footage at that location.

## 7.1 Video Storage Drives

*Video Storage Drives* are the main drives where video footage is stored. If a *Video Storage Drive* becomes full, VIGIL Server will switch to the next *Video Storage Drive* for recording. Also, if all of the *Video Storage Drives* are offline, the *Alternate Video Storage Drives* will be used until they return online.

When adding or editing a video storage drive, the *Media Control* window is displayed.

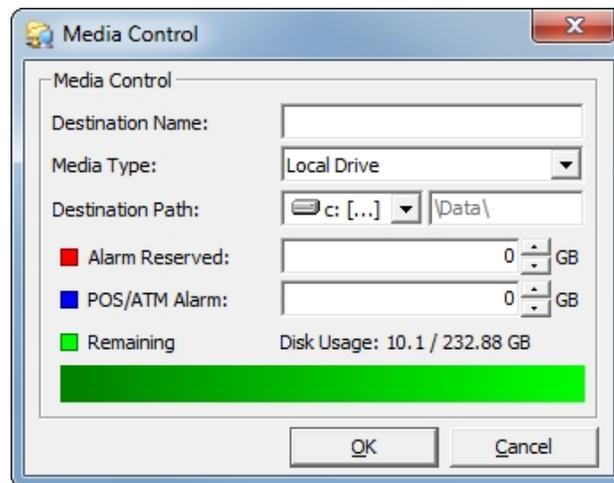


Figure 7-2: Settings - Media Drives Tab - Media Control Window

<b>Destination Name</b>	The name for the video storage location.
<b>Media Type</b>	The media type can be either a Local Drive on the VIGIL Server System, or a Network Drive located on a <i>Virtual File Server (VFS)</i> System.
<b>Destination Path</b>	The hard drive and folder path to record video data to. When using a Network drive, this will change to <i>VFS Server</i> name and path.
<b>Alarm Reserved</b>	The amount of storage to be reserved for Alarm video footage.
<b>POS/ATM Alarm</b>	The amount of storage to be reserved for POS/ATM Alarm video footage.

## 7.2 Using a Virtual File Server for Video Storage

It is possible to use a drive on a network server as a video storage destination via the installation of a *Virtual File Server (VFS)* on a Windows PC. Due to the method that Windows networking utilizes to write files across the network it is not suitable for a VIGIL Server to use mapped drives. VFS uses a proprietary method of writing the files across the network. VFS is only used for writing files across a local network, it is not meant for writing files across the Internet.

Install the *Virtual File Server* on the Windows PC with the Hard Drives for network storage. Run the VFS Manager software (Start | Programs | VIGIL and open VFS Manager). You will be met with the window pictured below.

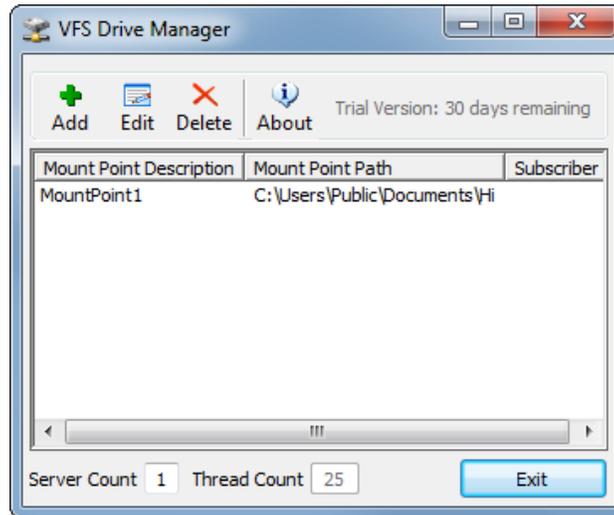


Figure 7-3:Settings - Media Drives Tab -VFS Drive Manager

### Add a Network/VFS Drive to VIGIL Server

Now, when adding a Video Storage Drive to Server, the user may select *VFS Drive* in the *Media Type* field. The Media Control window will appear as pictured below.

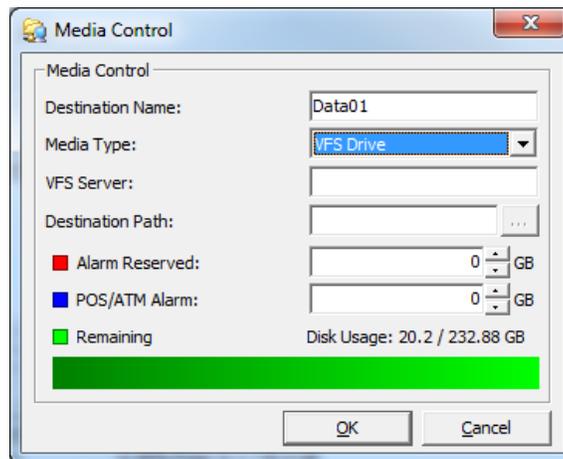


Figure 7-4:Adding a Network/VFS Drive

<b>VFS Server</b>	Enter the IP Address or Computer Name of the computer the VFS Manager is running on.
<b>Destination Path</b>	Click the ... button to open a list of available network shares on the VFS Server.

### 7.3 Data Partitioning for Video and POS/ATM Alarm Video Footage

Data partitioning has been added to VIGIL Server allowing for better user input as to how data is saved to the hard drive. Data partitioning allows you to set up logical divisions between standard alarm video files, POS/ATM alarm video files, and normally recorded video. This allows the video scavenging process to skip alarm video files and allows you to save these types of video footage for longer periods of time.

Instead of copying alarm footage under the normal areas for storage, it will be recorded to a special folder that is considered a separate entity. Normal video storage is scavenged and deleted as new footage is written, however these special folders are not scavenged normally; they will retain as much data as you have allotted for them in the *Media Control* window. Once they reach capacity, they will be scavenged, and the oldest video data will be removed to write new data. Since alarm and POS/ATM alarm data is often much rarer, this data can have a much longer 'shelf life' on your VIGIL Server, depending on the size of the partition you create.



**Note:** This feature is not enabled by default.

### 7.4 Alternate Video Storage Drives

*Alternate Video Storage Drives* are emergency backup drives that are used only if all of the *Video Storage Drives* are offline. If an alternate video drive is being used, VIGIL Server will beep and a flashing *Critical Warning* message will be displayed. When the *Video Storage Drives* return online, the *Critical Warning* message will disappear; the Server will stop beeping and will switch back to recording to the main *Video Storage Drives*.

When adding or editing an *Alternate Video Storage Drive*, the *Media Control* window is displayed.



Figure 7-5: Settings - Media Drives Tab - Alternate Video Storage Drives - Media Control Window

<b>Destination Name</b>	The name for the <i>Alternate Video Storage</i> destination.
<b>Media Type</b>	The media type can be either a <i>Local Drive</i> on the VIGIL Server System, or a <i>Network Drive</i> located on a <i>Virtual File Server (VFS)</i> System.
<b>Destination Path</b>	The hard drive and folder path to record video data to. When using a <i>Network Drive</i> , this will change to <i>VFS Server</i> name and path.

## 7.5 Export Destinations

*Video Export Destinations* are used to store exported video footage. You must set up destinations here before you can save video footage or still images from VIGIL Server us the VIGIL Client application.

When an export destination is added or edited, the *Media Control* window is displayed.

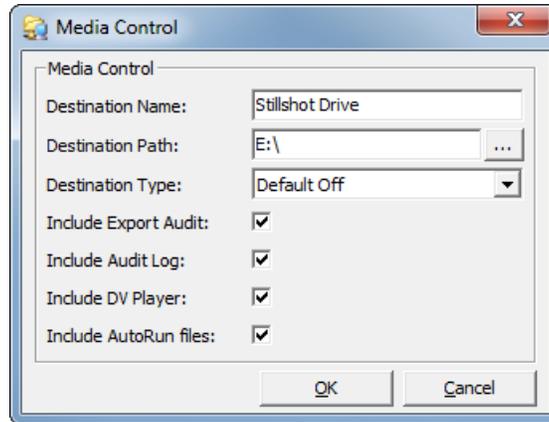
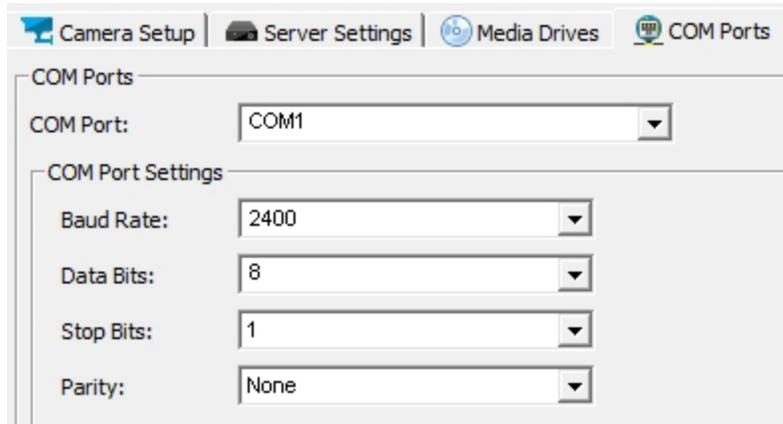


Figure 7-6:Settings - Media Drives Tab - Export Destinations - Media Control Window

<b>Destination Name</b>	The name for the export destination.		
<b>Destination Path</b>	The path for the export destination. Click ... to browse to the destination.		
<b>Destination Type</b>	This setting affects how the destination appears in the export list.	<b>Default On</b>	The destination checkbox will be selected.
		<b>Default Off</b>	The destination checkbox will not be selected.
		<b>Silent Send</b>	All exports will also be sent to this destination without notifying the user.
<b>Include Export Audit</b>	Saves a text file that contains a log of export activity to the destination. When this is enabled, users will be required to fill out a form each time they export.  <b>Note:</b> Must be enabled in conjunction with the Audit Exported Footage feature in the search settings for it to work.		
<b>Include Audit Log</b>	Saves a complete copy of the <i>Audit Log</i> to the same destination each time an export is done.		
<b>Include DV Player</b>	Saves the <i>Digital Video (DV) Player</i> to the same destination each time an export is done. This setting is normally used for CD-R or DVD-R media type destinations. See the VIGIL Client User Guide for details on operating DV Player.		
<b>Include AutoRun Files</b>	Due to some Anti-Virus applications detecting all AutoRun files as a potential threat, disable this option to not include the AutoRun files with the export. If the AutoRun files are included, the DV Player install will run when the DVD is inserted to a system that does not already have <i>DV Player</i> installed.		

## 8 Advanced Settings - COM Ports Tab

The *COM Ports Settings* tab configures the installed COM ports for communication with connected hardware such as POS data Connections and camera control.



**Figure 8-1:**Settings - COM Ports Tab

Select the desired *COM Port* from the drop-down menu and adjust the *Baud Rate*, *Data Bits*, *Stop Bits* and *Parity* to match that of the connected hardware.

## 9 Advanced Settings - User and Group Management Tab

The Users tab allows the configuration of users on the VIGIL Server with specific permissions. Each *User* belongs to a *Group* and each *Group* has a set of permissions which can also be configured within this tab. User permissions are derived from their group's permissions.

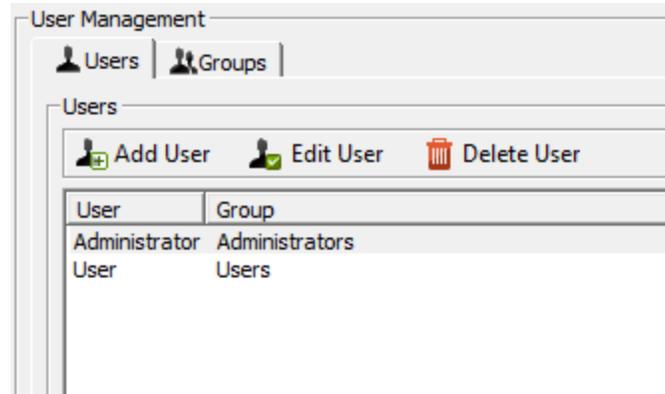


Figure 9-1: Settings - User and Group Management Tab - Users Tab

### 9.1 Users Tab

Click the *Users* tab to access the *User* configuration options.

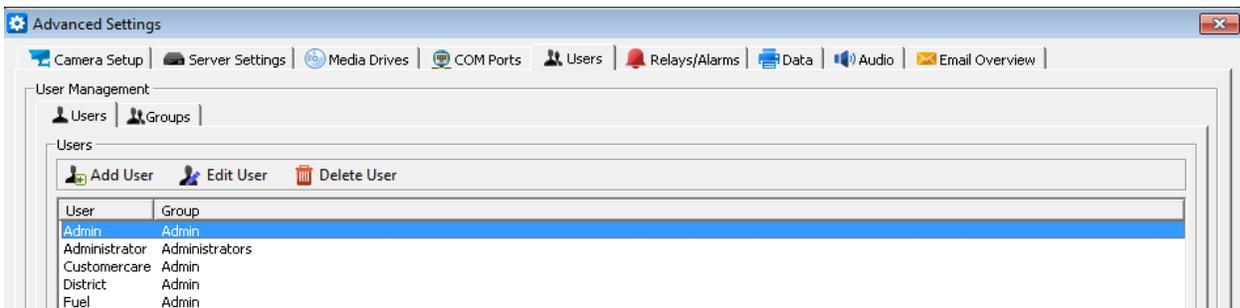


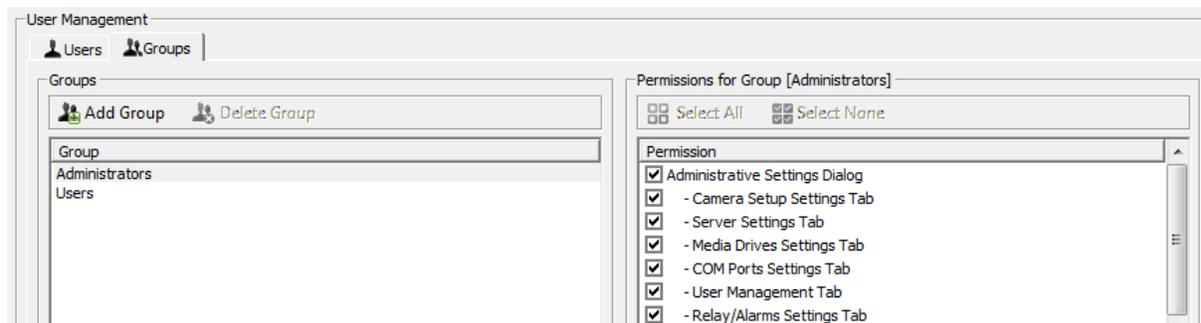
Figure 9-2: VIGIL Server Advanced Settings - Users Tab

<p><b>Add a User</b></p>	<p>Click the <i>Add User</i> button to bring up the below window, select a <i>Group</i> and enter a password in the <i>Add New User</i> window.</p> <p>3xLOGIC highly recommends the use of a secure, complex password for all user accounts to best safeguard your system.</p> <p><b>Warning:</b> VIGIL Server will prompt a user on login to create a more secure password whenever an insecure password is detected. Secure passwords should contain a mix of letters (lower and upper case), numbers and special characters.</p>	
<p><b>Edit a User</b></p>	<p>Select a <i>User</i> from the drop-down menu and click the <i>Edit</i> button. The user's group or pass-</p>	

	word can be changed, the user's name cannot.
<b>Delete a User</b>	Select a <i>User</i> from the drop-down menu and click the <i>Delete</i> button.
<b>Users Managed by VCM</b>	<p> <b>Note:</b> This checkbox will only become possible after user management has been activated from the managing VCM and users have been pushed to the VIGIL Server in question.</p> <p>If this checkbox is toggled, than the VIGIL Server's users are currently being managed by VCM.</p> <p>The <i>VIGIL Server Settings- User Tabs</i> will display the following information text when this checkbox is toggled:</p> <p>The users for this VIGIL Server are currently set to be managed by a VCM. Any user or password changed will need to be performed on the VCM system and then the VCM will automatically update this VIGIL Server.</p> <p>The "Users Managed by VCM: option can be disabled if a VCM is no longer being used. It is important to verify that VCM is no longer managing the users before disabling this settings since any user list from VCM will take precedence and all changes done locally will be lost.</p>

## 9.2 Groups Tab

Click the *Groups* tab to access the *Group* configuration options.



**Figure 9-3:**Settings - User and Group Management Tab - Groups Tab

<b>Add a Group</b>	Click the <i>Add</i> button and enter a group name in the <i>Add New Group</i> window.
<b>Permissions</b>	<p>Select a group from left-hand <i>Group</i> menu and enable the check box beside each permission that the group will have in the right hand window. To disable permissions for the group, uncheck the box beside the permission. These permissions are useful for maintaining access controls to VIGIL server and can keep your settings safe from accidental and malicious tampering.</p> <p>See "User and Group Permissions List" on the facing page for a description of each permission.</p>
<b>Select All / None</b>	Enable all permissions or disable all permissions.
<b>Delete Group</b>	Select a <i>Group</i> from the left-hand window and click the <i>Delete</i> button.

### 9.3 User and Group Permissions List

Below is a list of all VIGIL Server User / Group permissions with accompanying descriptions of the actions they permit. Permissions are applied to Groups and not individual Users. Thus, every user in the group will share the same permissions. Users can only be applied to a single group.

<b>Administrative Settings Dialogue: (Server Settings Tabs)</b>	<p>Selecting this permission will also give you permissions to all Advanced Settings Tabs for VIGIL Server, including:</p> <ul style="list-style-type: none"> <li>■ Camera Setup Tab</li> <li>■ Server Settings Tab</li> <li>■ Media Drives Settings Tab</li> <li>■ COM Port Settings Tab</li> <li>■ User Management Tab</li> <li>■ Relays/Alarms Settings Tab</li> <li>■ Data Settings Tab</li> <li>■ Audio Settings Tab.</li> </ul> <p>Uncharged the tabs that you want to exclude access for the selected Group.</p>
<b>Codec Settings</b>	Group has access to adjust codec settings for cameras on the server.
<b>Recorder Controls</b>	Enables / Disables access to the Recorder window in VIGIL Client.
<b>Allow Video Playback</b>	Video Playback on VIGIL Client.
<b>Allow Still Image Export</b>	Export Still Images using VIGIL Client.
<b>Allow Still Image Email</b>	Send email notification with attached still image
<b>Allow AVI Export</b>	Export Video in AVI format in VIGIL Client.
<b>Allow Authentic Video Export</b>	Export authentic video (MJPEG) format in VIGIL Client..
<b>Allow AVI Export (RapidStream)</b>	Export video in AVI format compressed with RapidStream in VIGIL Client.
<b>Allow Authentic Video Export (RapidStream)</b>	Export video in Proprietary MJPG format compressed with RapidStream in VIGIL Client.
<b>Allow Data Export</b>	Export data associated with a camera in VIGIL Client.
<b>Allow Audio Export</b>	Export audio associated with a camera in VIGIL Client.
<b>Allow Video Tagging</b>	Ability to tag footage in VIGIL Client
<b>Allow Live View</b>	View live video at VIGIL Client
<b>Allow Relay Control</b>	Ability to change the state of a Relay
<b>Allow Client Live Speeds Over 1 frame</b>	If unchecked, the user cannot live view video at more than 1 FPS.
<b>Socket Activity Form</b>	This is the Client Connections window, access from the toolbar
<b>Allow Export File Browsing</b>	Ability to view the contents of the Exports folder through Client in main interface mode, remote browsing is covered by another permission.
<b>Allow Export Delete</b>	Ability to delete exported video from VIGIL Client.
<b>Audio Recorder Control</b>	Access to the Audio Recorder Controls tab in Server Settings > Audio > Other Settings.
<b>Allow Audio Live</b>	Stream audio associated with camera in live display in Client
<b>Allow Audio Playback</b>	Playback audio associated with a camera on search in VIGIL Client.

<b>Allow Audio Talk</b>	Two-way Audio controls in VIGIL Client
<b>Allow Camera Control</b>	Ability to manipulate a camera in VIGIL Client for PTZ cameras.
<b>Allow Analog Output Configuration</b>	Access to analog I/O configuration on a VIGIL Server
<b>Allow Analog Sequence Control</b>	Access to the Sequence window which controls the sequences configured in the settings -> server settings tab -> Sequences sub tab.
<b>Allow Chat</b>	Chat function between server and client workstations.
<b>Auto reply Chat Audio Request</b>	Automatically connect an audio chat request.
<b>Allow Software Updating</b>	This enables the update button in the server settings in client, VCM is not affected by this setting.
<b>Allow Access to Custom Help Application</b>	This turns on / off the button itself, if off, you will just see the regular About button.
<b>Exit VIGIL Server</b>	Users without this permission cannot exit server.
<b>Shut Down VIGIL Server (Kiosk Mode)</b>	Shut down the VIGIL Server within Kiosk Mode.
<b>Camera:</b>	Access to view a camera in VIGIL Client . If you want to make the camera covert for a specified Group, deslect the camera in permissions.
<b>V-POS Administrator</b>	Access to the Exceptions and the VPOS Settings forms in VIGIL Client.
<b>Client Administrator- Main Interface Mode</b>	Allows user to adjust VIGIL Client settings when Server option Use Client as Main Interface is checked.
<b>Allow Footage Date / Time Range in Client</b>	Ability to see the Footage Date / Time Range window.
<b>Allow Audit Log</b>	Allow access to User Audit in VIGIL Client.
<b>Display Usage Performance Meter</b>	This is the performance bar on the toolbar in VIGIL Client
<b>User Audit Reports</b>	Run a User Audit Report in VIGIL Client. This will enable the User Audit in the Treeview.
<b>User Audit Settings</b>	Access to modify User Audit Settings in VIGIL Client.
<b>Server Alarms</b>	View server alarms in VIGIL Client.
<b>POS/ATM Live</b>	Ability to view POS/ATM Data in live mode. Option under Other tab in VIGIL Client.
<b>Allow Remote Exports in Client</b>	When exporting in client, users can choose to perform the export on the remote VIGIL Server.
<b>V-POS Events</b>	Run a report for all exceptions in VIGIL Client. Option under V-POS tab in VIGIL Client. Enables the VPOS Events Treeview option.
<b>V-POS POS/ATM Search</b>	Search data in Playback within the VIGIL Client software. Enables Treeview option and option under POS/ATM tab in Search.
<b>V-POS Quick Search</b>	Enables the Treeview option, quick search lets you bring up footage / data with only and Event ID or a receipt # or an IDX.
<b>Allow Camera Web Interface in Client</b>	Ability to access a camera's web interface through VIGIL Client.

<b>Allow Remote Export Browser in Client</b>	Enables the remote export browser from which the user on client can copy exports on the remote server or to the client.
<b>Allow to use VIGIL Relay Server(VIGIL Connect)</b>	Enables the user to access features and services requiring the VIGIL Connect Relay Server(non-direct connections).
<b>Allow Printing</b>	Enables printing capability for the user.
<b>Allow Screen Record in Client</b>	Enables the use of the VIGIL Client Screen Record function.
<b>Advanced Reporting</b>	Enables the use of the VIGIL Client Advanced Reporting feature.
<b>Allow Remote Main Stream</b>	Enables the use of a camera's mainstream when connecting in from VIGIL Client.
<b>View Restricted</b>	Enables a user to view restricted footage when connecting in from a VIGIL Client.
<b>Allow to Restrict Video</b>	Enables the ability for a user to restrict footage when connecting in from a VIGIL Client.
<b>Manage, View and Restrict Video</b>	Enables the ability for a user to manage, view and restrict video when connecting in from a VIGIL Client.
<b>Allow to Lock Video</b>	Enables the user to lock video (prevent footage scavenging) when connecting in from a VIGIL Client.
<b>Manage and Lock Video</b>	Enables the user to lock video and manage locked video when connecting in from a VIGIL Client.
<b>Advanced Reporting: Employee Exceptions</b>	Enables the user to access the Advanced Reporting > Employee Exceptions report in VIGIL Client.
<b>Advanced Reporting: People Counting</b>	Enables the user to access the Advanced Reporting > People Counting report when connecting in from a VIGIL Client.
<b>Advanced Reporting: Average Dwell Time</b>	Enables the user to access the Advanced Reporting > Average Dwell Time report when connecting in from a VIGIL Client.
<b>Advanced Reporting: Heatmaps</b>	Enables the user to access the Advanced Reporting Heatmaps when connecting in from a VIGIL Client.
<b>Audio Channel</b>	Enables the user access to configured / edit the specified audio channel.

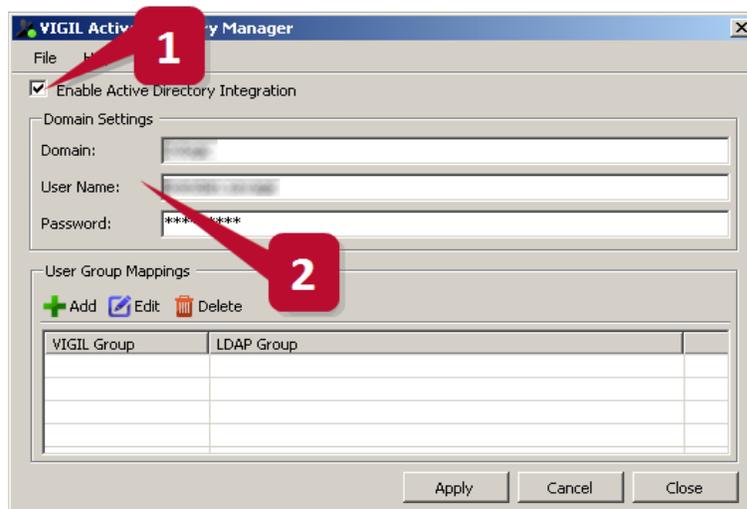
## 9.4 Active Directory Integration

VIGIL Active Directory permits users to login to VIGIL Server using the same login credentials used on their local Windows domain network.

VIGIL Active Directory utility is installed alongside VIGIL Server. So long as the VIGIL Server VMS system is part of a Windows domain / work network or can communicate with the desired domain, VIGIL Active Directory will automatically detect the active user directory, and, if configured to do so, will allow login to VIGIL using existing Windows domain network user credentials.

VIGIL Active Directory can be launched from *Start Menu>Program Files> VIGIL>Utility>Active Directory Manager*.

After launching, the application will deploy:

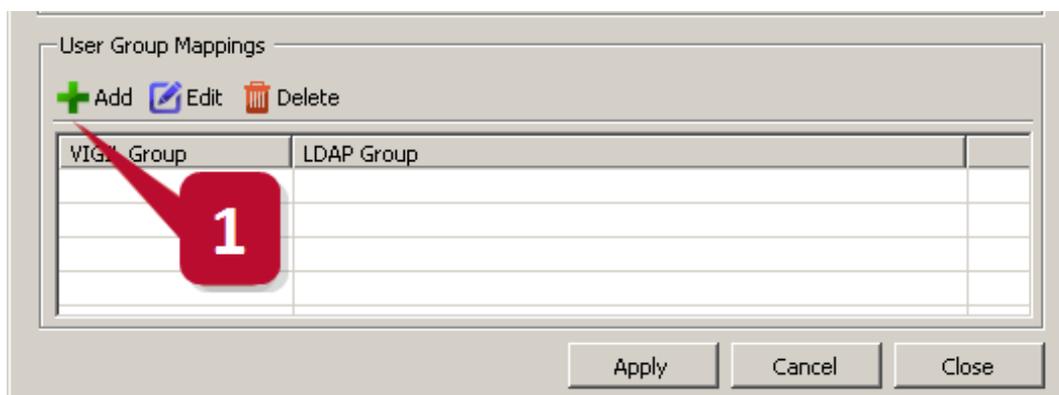


**Figure 9-4:** VIGIL Active Directory Manager - Enabling Active Directory Integration

1. Click the Enable Active Directory Integration button
2. Enter in your domain login credentials. This will allow VIGIL to query the Windows active user directory

### Adding a Set of User Group Mapping to VIGIL Active Directory Manager

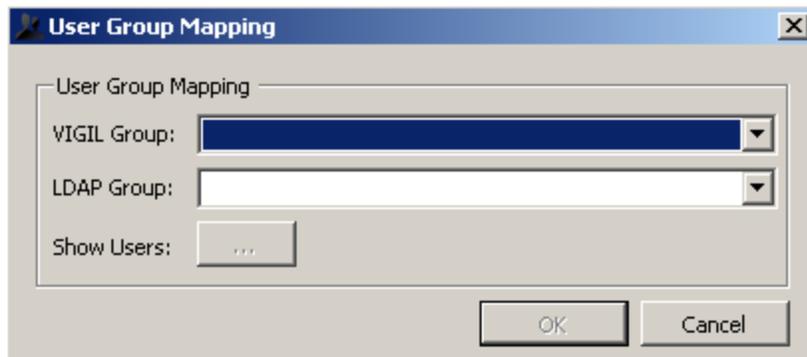
Each set of User Group Mappings define which users from the Windows user directory will be allowed to login to VIGIL using their Windows domain network credentials. To add a set of user group mappings:



**Figure 9-5:** VIGIL Active Directory Manager - Adding Windows User Group Mappings

1. Click the *Add* button.

This will open the User Group Mapping configuration window(pictured below.)



**Figure 9-6:**VIGIL Active Directory Manager - User Group Mapping Window

In this window, a user must select both a VIGIL Group and LDAP Group to configure User Group Mappings. These groups **MUST** be pre-configured in VIGIL and Windows.

- VIGIL Group – This menu will feature any user groups currently configured in VIGIL. All users from the selected LDAP group will be added to chosen VIGIL Group.
- LDAP Group – This menu features all LDAP(Lightweight Directory Access Protocol) user groups configured on the system's Windows domain network. Users contained within the selected group will be added to the selected VIGIL Group. Please note the menu will contain several entries which are default Windows domain user groups .Click the ... button to preview list of users from the selected LDAP group.

1. Click OK to save the new User Group Mappings.

If you would like to make changes to this group in the future, simply select the group from the list and select the Edit button.

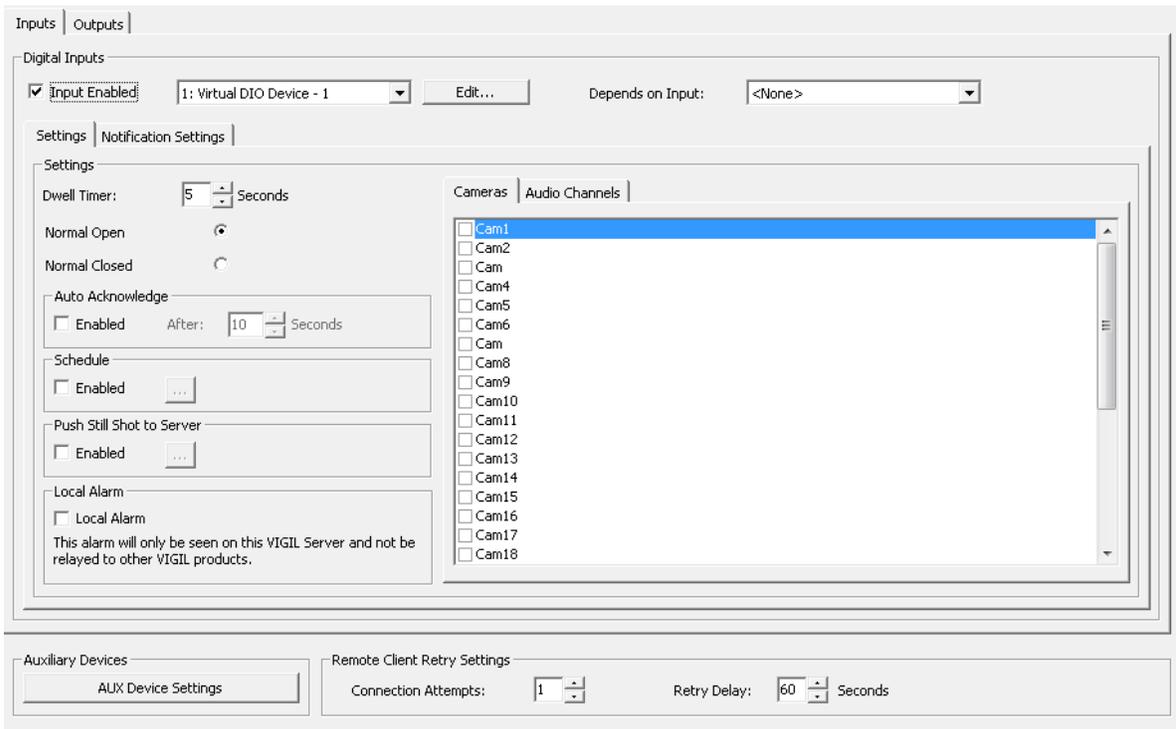
 **Note:** Server logins are refreshed and updated in 2 minute intervals. LDAP Users added to VIGIL Server may take up to 2 minutes to appear in the VIGIL Server UI.

VIGIL Active Directory has been engineered for use with Windows Active Directory **ONLY**. Other technologies utilizing LDAP are not tested against VIGIL Active Directory and may not function successfully.

After creating the desired user group mapping, users belonging to the selected LDAP group should now be able to login to VIGIL Server using their Windows domain network login credentials.

## 10 Advanced Settings - Relays / Alarms Tab

The *Relays / Alarms* tab configures the input alarms and associated notifications settings for the VIGIL Server.



**Figure 10-1:**Settings - Relays / Alarms Tab

If the user needs to edit DIO device settings, click the **AUX Device Settings** at the bottom-left of the window to open the settings form for configuring attached devices.

Digital inputs are alarms triggered by external circuits. The input alarm can be used to trigger video recording, audio recording or PTZ events.

### 10.1 Input

#### 10.1.1 Input Number

Select the Input number from the drop-down list. Click the *Edit...* button to rename the input for easier identification. To enable the input, click the check box for *Input Enabled*.

#### 10.1.2 Settings Tab

Configure the settings for the selected input. A *Camera* or *Audio Channel* must be selected for the *Digital Input* to remain enabled.

<b>Dwell Timer</b>	The number of seconds the <i>Digital Input</i> remains active after a <i>Trigger</i> occurs.
<b>Normal Open / Closed</b>	Set the normal state for the <i>Digital Input</i> . When the <i>Digital Input</i> changes state, the alarm will be triggered.
<b>Auto Acknowledge</b>	When enabled the <i>Alarm</i> will be automatically acknowledged after the selected number of seconds have passed.

<b>Schedule</b>	Check <i>Enabled</i> and click ... to configure a schedule for when the <i>Digital Input</i> will be active. The Relay Schedule functions identically to Recording Mode Schedule. See "Scheduled Recording" on page 29
<b>Push Still Shot to Server</b>	When <i>Enabled</i> , a still shot from the selected camera will be uploaded to the configured server when a <i>Digital Input Alarm</i> is Triggered.
<b>Local Alarm</b>	When Client as Main UI is active and this <i>Local Alarm</i> is enabled, alarms will only be recieved on the Client as Main. Alarms will not eb realyed to other connected VIGIL products.
<b>Cameras</b>	Select the <i>Camera(s)</i> to be associated with the <i>Digital Input</i> .
<b>Audio Channels</b>	Select the <i>Audio Channel(s)</i> to be associated with the <i>Digital Input</i> .

## 10.2 Notification Settings Tab

Configure *Notification* and *Relay* settings for the selected *Digital Input*.

The screenshot displays the 'Notification Settings' tab for a digital input. At the top, 'Input Enabled' is checked, and the input is identified as '1: Virtual DIO Device - 1'. Below this, the 'Email Notification' section is active, showing 'Enabled' checked, a 'Minimum time between emails' of 10 minutes, and a 'Test Email' button. The 'Output Relay' section shows 'Latched' as the trigger. The 'Notification Settings' section includes checkboxes for 'Popup Alarm Screen', 'Suppress Email Notification', and 'Monitor Output' (set to 'None'). The 'Audio Notification' section has 'System Beep' selected and a 'Wave File' field.

Figure 10-2: Settings - Relays / Alarms Tab - Notification Settings Tab

### 10.2.1 Email Notification

When enabled, an email is sent when an alarm is triggered.

To configure timed suppression for email notifications, enable *Minimum time between emails* and configure a time suppression duration. This will prevent notification recipients from receiving multiple alarms from the same prolonged VA alarm events.

Click *Email Settings...* to configure the email recipients and contents. Enter the appropriate details for the email that will be sent. To add, edit, or remove email recipients, use the *Recipients* section and the appropriate buttons. Enabling *Attach Still Shot* will add a still image of the selected cameras to the outgoing email. This image is from the beginning of the triggered alarm event.



**Note:** For email options to function properly, a valid SMTP server must be set up correctly in the *Email Overview Settings* tab.

### 10.2.2 Output Relay

Select the Output Relay to trigger when the *Digital Input Alarm* is triggered. The *Output Relay* can be set to *Latched* or *Momentary*.

### 10.2.3 Notification Settings

<b>Popup Alarm Screen</b>	When a <i>Digital Input</i> alarm is triggered, opens an Alarm window on connected VIGIL Clients.
<b>Monitor Output</b>	To display the Camera feed associated with the <i>Digital Input</i> on a Monitor during an alarm, choose the <i>Monitor Number</i> or <i>All Monitors</i> from the Drop-Down. This will be visible when connected with a VIGIL Client.

<b>Suppress Email Notification</b>	This option, which will only work in conjunction with enabling the <i>Popup Alarm Window</i> , will prevent a flood of email alerts being sent out. It will only send out one email alert until the alerts have been acknowledged on the <i>Popup Alarm</i> window. If alerts have been set to auto acknowledge, it will send out an email after each period of auto acknowledgement has passed.
<b>Audio Notification</b>	Enables <i>Audio Notification</i> which plays a system beep or wave file when an alarm is triggered. When <i>Wave File</i> is selected, click the ... button to browse for the .wav file that will be played.

### 10.3 Remote Client Retry Settings

Remote Client Retry Settings

Connection Attempts:  Seconds

Retry Delay:  Seconds

Figure 10-3: Settings - Relays / Alarms Tab - Remote Client Retry Settings

<b>Connection Attempts</b>	The number of times to retry sending an alarm to a remote Client.
<b>Retry Delay</b>	The number of seconds to wait between connection attempts.

### 10.4 Output Relay Settings

Select Outputs from the top of the *Relays / Alarms* tab page.

Output Relay Settings

Output Relay:

Settings

Mode:

Momentary Dwell Time:  Seconds

Cameras

- Cam 1
- Cam 2
- Cam 3
- Cam 4
- Cam 5
- Cam 6
- Cam 7
- Cam 8
- Cam 9
- Cam 10
- Cam 11
- Cam 12
- Cam 13

Relay Override

Keep Output Relay Closed While Application is Running

Output Relay:

Figure 10-4: Settings - Relays / Alarms Settings - Output Relay Settings

Select an *Output Relay* from the drop-down. Select *Edit...* to configure Output settings.

Configure *Mode* and *Dwell* time under the *Settings* section and assigning the output to a camera via the *Cameras* list.

### 10.4.1 Relay Override

This logical function is used to override a relay when another relay is in use. This will cause a relay which would normally trigger to remain inactive when another specific relay has already been tripped.

## 11 Advanced Settings - Data Tab

The VIGIL Server software can be configured to receive and record information from POS/ATM data connections. The *Data* tab allows configuration of the *POS/ATM Connection Settings*.

Figure 11-1: Settings - Data Tab

### 11.1 POS/ATM Connection Settings

<b>POS/ATM Connections</b>	Select the Connection Number for the POS/ATM Data stream from the Drop-Down Menu.
<b>Enabled</b>	Enable the POS/ATM Connection.

#### 11.1.1 POS/ATM Settings

<b>Connection Type</b>	Select whether the POS/ATM Data stream uses a Serial or IP based connection.
<b>POS/ATM Connection Type</b>	Set the type of Connection for the POS Data stream.
<b>Priority Camera</b>	Opens the Priority Camera Settings window.

#### Priority Camera Settings

The camera that is pointed directly at a POS/ATM Register is referred to as a *Priority Camera*. *Priority Cameras* are assigned to the a specific POS *Connection* and *Register Numbers*. Multiple *Connection / Register Numbers* can be assigned to a single *Priority Camera*. A camera's *Digital Presets* can also be used as a priority camera.

Connection	Register Number	Priority Camera	Digital Preset
1	0001	Camera 15 - Cam15	
2	0000	Camera 15 - Cam15	1 - 1

Figure 11-2: Settings - Data Tab - POS/ATM Settings - Priority Camera Settings



**Note:** Priority Cameras are global across Internal and External POS/ATM Data Sources.

Click the *Add* button to add a priority camera. The *Add / Edit a Priority Camera* window will deploy. The window features the configurable priority camera settings as well as a camera preview from the camera currently assigned as priority.

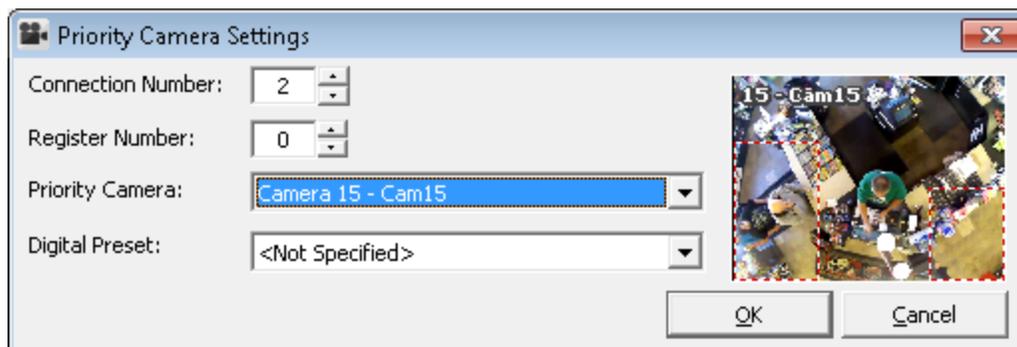


Figure 11-3: Settings - Data Tab - POS/ATM Settings - Priority Camera Settings - Add / Edit a Priority Camera

<b>Connection Number</b>	Set the POS/ATM Connection number to associate with the priority camera.
<b>Register Number</b>	Set the POS Register number to associate with the priority camera.
<b>Priority Camera</b>	Select the VIGIL Server camera to be assigned as the priority camera.
<b>Digital Presets</b>	If desired, select one of the chosen priority camera's <i>Digital Presets</i> . The preset will be used as the Priority Camera in place of the original camera image. If the camera currently selected in the <i>Priority Camera</i> field has no digital presets configured, this menu will be blank. See "Digital Presets" on page 39 for more information on configuring <i>Digital PTZ Presets</i> .

### 11.1.2 Connection Settings

<b>COM Port</b>	When the POS/ATM connection type is set to Serial, select the COM port the Serial connection will use from the Drop-Down list.
<b>Port</b>	When the POS/ATM connection type is set to IP Server, enter the Port that VIGIL Server will listen on for the POS/ATM Data stream.

### POS Logging Settings

<b>Enabled</b>	Check off this box to enable <i>POS Logging</i> . This log collects raw POS data before it is parsed. Click the ... button to select a log destination. When troubleshooting POS system issues, users may refer to this raw POS data log for information. The log file defaults to the naming convention of <i>Connection number - Connection Type - Parser Name. i.e Connection 1_Serial_Verifone Sapphire.log</i>
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### 11.1.3 POS/ATM Alarm Settings

This setting becomes available once *Priority Cameras* are configured.

<b>Enabled</b>	Enable specific <i>POS/ATM Data</i> items to trigger an <i>Alarm Event</i> . This alarm event will be recorded to the POS Partition if data partitions have been enabled.
<b>Dwell Time</b>	The time in seconds that the POS/ATM alarm event will record Video footage for.
<b>Output Relay</b>	Select an <i>Output Relay</i> from the Drop-Down list to trigger when a <i>POS/ATM Data Alarm</i> occurs.

<b>Trigger</b>	Select whether the Relay will be triggered momentary, or latched on for the durations of the <i>Dwell Time</i> .
----------------	--

### Filter Settings...

Open the *POS/ATM Alarm Filters* window to configure POS/ATM events that will trigger *POS/ATM Data Alarms*.

**Figure 11-4:**Settings - Data Tab - POS/ATM Alarm Settings - Filter Settings

<b>No Sale</b>	Enable <i>POS/ATM Alarms</i> for all 'No Sale' items.
<b>Void</b>	Enable <i>POS/ATM Alarms</i> for all 'Void' items.
<b>Value</b>	A <i>POS/ATM Alarm</i> will trigger for any item with the value that is configured. Choose <i>Greater than</i> , <i>Less than</i> or <i>Equal to</i> from the Drop-Down box, and set a value in the first entry field. If you select <i>Between</i> , enter a value in each box for Acevedo entries that fall between the two specified prices.
<b>Item / Codes Tabs</b>	Add or delete specific <i>Item</i> names or codes that will trigger a <i>POS/ATM Alarm</i> . The text must be an exact match for the POS/ATM data record including spaces, but it is not case sensitive.
<b>Filter Method</b>	Select <i>AND</i> to meet all criteria listed before a <i>POS/ATM Alarm</i> is triggered. Select <i>OR</i> for any criteria to trigger a <i>POS/ATM Alarm</i> .

## 11.2 General Settings Tab

The *General Settings* tab controls the display and storage of POS/ATM Data.

The screenshot shows the 'General Settings' tab selected. It contains the following settings:

- Live/Playback Settings:** Max Live Scroll: 1000
- Data Storage Settings:** Records of Data Storage: 2000000
- POS/ATM Search History:** Number of Search Items to Keep in History: 10

Figure 11-5: Settings - Data Tab - General Settings Tab

Live / Playback Settings	
<b>Max Live Scroll</b>	The maximum number of lines to display in the <i>POS/ATM Data (Live)</i> window.
<b>Max Playback Scroll</b>	The maximum number of lines to display in the <i>Data Search Results</i> pane of the <i>Search</i> window.
Data Storage Settings	
<b>Records of Data Storage</b>	The maximum number of POS/ATM data records to retain in the database.
POS Search History	
<b>Number of Search Items to Keep in History</b>	The number of items to retain in the <i>Item</i> drop-down in the <i>Search</i> window.

## 11.3 Email Settings Tab

The *Email Settings* tab allows users to configure email notifications containing filtered POS/ATM Data.

Figure 11-6: Settings - Data Tab - Email Settings Tab

<b>Enable POS/ATM Data Email Notification</b>	When enabled, an email with POS/ATM Data will be sent to specified recipients. POS/ATM Data recorded since the last email and meet the criteria set in <i>Filter Settings...</i> are included in the email.
<b>Email Frequency</b>	Specifies the time interval between outgoing emails.
<b>Filter Settings...</b>	Opens the <i>Data Email Notification Filters</i> window where you can specify which conditions to filter when sending POS data emails.   <b>Note:</b> Leave the Filter Settings blank to receive POS data email notifications that include all POS/ATM Data since the last sent email.
<b>Email Settings...</b>	Opens the <i>Email Settings</i> window, where details for the outgoing email may be entered.   <b>Note:</b> For email options to function properly, a valid SMTP Server must be configured in VIGIL Server <i>Email Overview Settings</i> tab.

## 11.4 Ignore Fields Tab

Figure 11-7: Settings - Data Tab - Ignore Fields Tab

The *Ignore Fields* tab allows POS/ATM data records to be ignored in the *POS/ATM Data (Live)* window and POS/ATM Search if they match the specified criteria.



**Note:** POS/ATM data email notifications will not be sent for the items added to the ignore fields list.

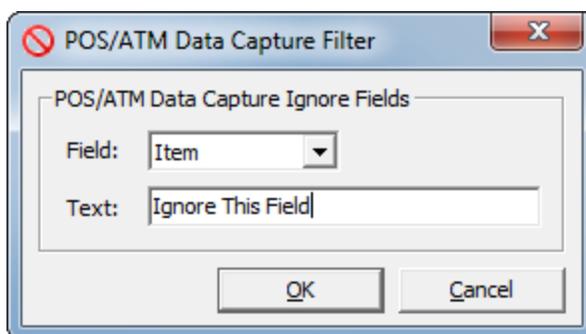


Figure 11-8: POS/ATM Data Capture Filter Configuration

<b>Field</b>	Select Item or Code from the Drop-Down menu.
<b>Text</b>	Enter the Text to ignore.

## 11.5 External POS/ATM Data Tab

This feature reconfigures data display windows for external data source capability and requires a 3<sup>rd</sup> party interface to operate. The *Priority Cameras* list is *Global* between *Internal* and *External* POS/ATM Data Types.

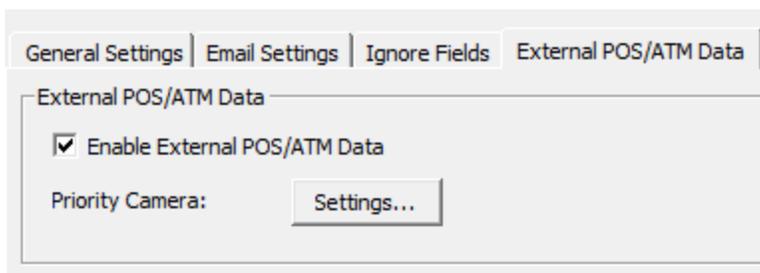


Figure 11-9: Settings - Data Tab - External POS/ATM Data Tab

## 11.6 External Data Interface Tab

VIGIL Server has the ability to connect and read data from third party databases, such as access control panels, coin counters, GPS data, etc. The data source must be network accessible by the VIGIL Server. The *External* data is available when searching video footage. Data can be retrieved from a configured data source and viewed alongside video data.

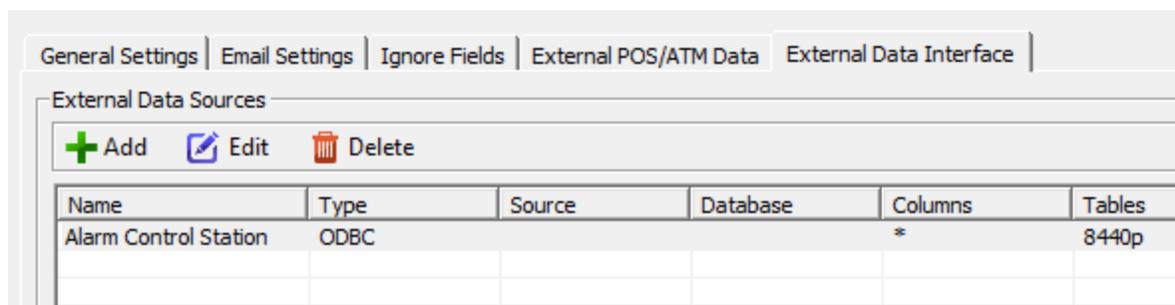


Figure 11-10: Settings - Data Tab - External Data Interface Tab

Click *Add* or select an existing data source and press *Edit*. Different connection information is required depending on the *Data Source Type* selected. Common information is listed here.

<b>Name</b>	The name the data source will be listed as.
<b>Data Source Type</b>	Select the type of data source from the drop-down list. Supported <i>Data Source</i> types are: ODBC, SQL Server or Microsoft Access. If the SQL Server type is selected, the default port of 1433 will be used.
<b>Table</b>	The table within the <i>Data Source</i> from which data will be retrieved.
<b>Timestamp Column</b>	In order to display video synchronized with the <i>External Data</i> , a timestamp must be used. Select the column within the table that contains the most accurate timestamp information.
<b>Priority Camera</b>	If a <i>Priority Camera</i> is selected, then that camera will be used when no other camera is currently selected in the playback window.
<b>Column Selection</b>	The columns entered into the <i>Column Selection</i> area will be displayed in the search results in the search window. Each <i>Column Selection</i> has a <i>Columns</i> area indicating the column as it is in the data-base and a <i>Name</i> , which will be displayed at the top of the column in the search results. To remove a column, select the <i>Columns</i> and press delete or backspace.

## 12 Advanced Settings - Audio Tab

The *Audio* tab allows users to add *Audio Channels* and *Audio Talk Devices* to VIGIL Server and configure how they are recorded. Like footage, audio can be listened to live or via playback using VIGIL Client.

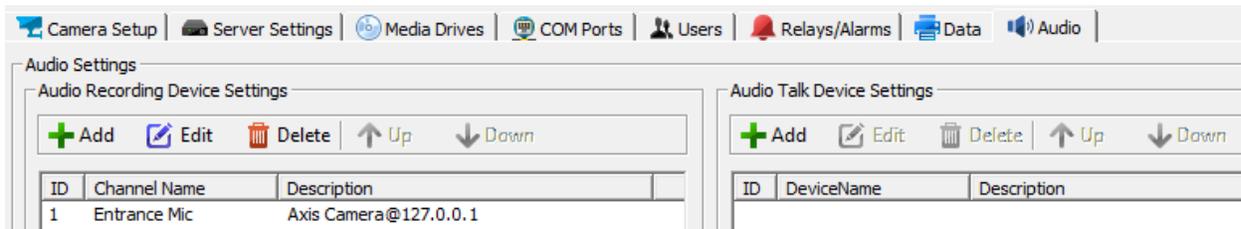


Figure 12-1:Settings - Audio Tab

### 12.1 Audio Recording Device Settings

*Audio Recording Device* settings are used to configure *Audio Sources* to be recorded on the VIGIL Server. These can be IP Cameras, IP Audio Devices, Capture Card Inputs or VIGIL Server Sound Card Inputs.

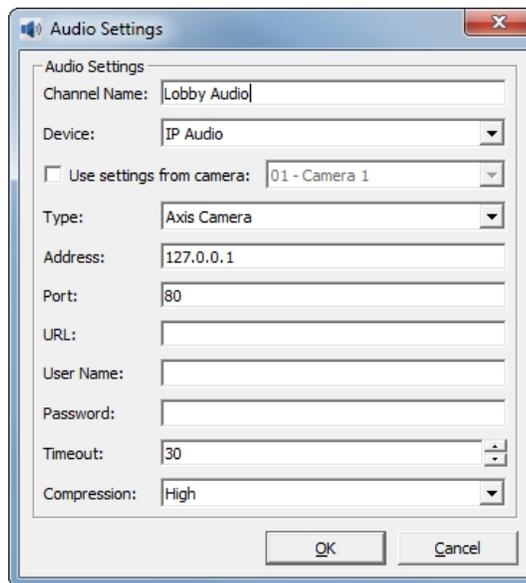


Figure 12-2:Settings - Audio Tab - Audio Settings Window.



**Note:**Capture card inputs and VIGIL Server audio inputs only require configuration of the *Channel Name* and *Compression*. The form will change to reflect this when either of these types is selected in the *Device* drop-down menu.

<b>Channel Name</b>	Enter a name for the audio channel. This can be used to describe the location of the audio source.
<b>Device</b>	Select the type of audio device. IP Audio from a supported IP Camera, Capture card inputs or VIGIL Server audio inputs.
<b>Use settings from camera</b>	Enable to use settings from a currently connected IP camera. Some cameras require this option to be used or no audio will record.
<b>Type</b>	Select the type of IP camera.

<b>Address</b>	The IP address of the IP camera.
<b>Port</b>	The Port used on the IP camera.
<b>URL</b>	The camera URL for certain camera types.
<b>User Name / Password</b>	The user name and password for the IP camera.
<b>Timeout</b>	The period of time in seconds before a disconnection is determined to have occurred.
<b>Compression</b>	Select PCM for no compression, or High for a compression ratio of 16 to 1.

## 12.2 Audio Talk Device Settings

Audio Talk Device settings are used to configure Remote Audio Talk Devices for VIGIL Server to be used with VIGIL Client Audio Talk interface.. These can be IP Cameras or IP Audio Devices.

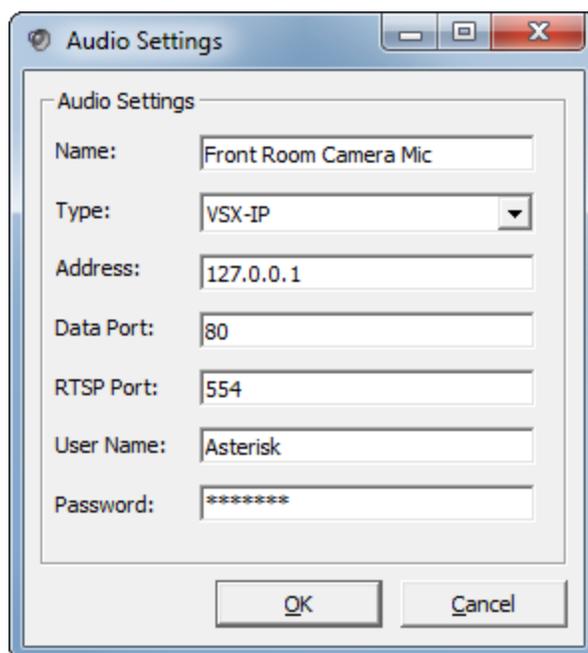


Figure 12-3: Settings - Audio Tab - audio Talk Device Settings Window

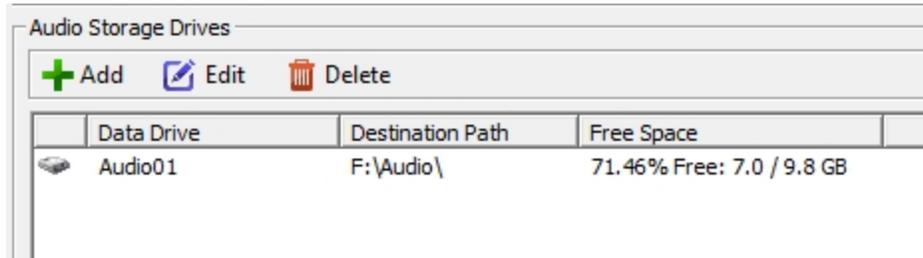
<b>Name</b>	Enter a name for the Audio Talk Device. This can be used to describe the location of the Audio Talk Device.
<b>Type</b>	Select the type of Audio Talk Device. This can be an Audio Talk capable IP Camera or IP Audio Device.
<b>Address</b>	The IP address of the Audio Talk Device.
<b>Data Port</b>	The Data Port used on the Audio Talk Device.
<b>RTSP Port</b>	The RTSP Port used on the Audio Talk Device.
<b>User Name / Password</b>	The user name and password for the Audio Talk Device.

## 12.3 Live Audio Settings

<b>Force to User Software Live</b>	When enabled, live audio will be routed through the VIGIL Server's audio output instead of the capture card's audio output. This function is only available with some capture cards.
------------------------------------	--

## 12.4 Audio Storage Drives

Create and configure *Audio Storage Drives*.



**Figure 12-4:**Settings - Audio Tab - Audio Storage Drives

*Audio Storage Drives* are defined in the same way as *Video Storage Drives*. It is recommended that the *Audio Storage Drive* be on a different drive than the *Video Storage Drive(s)*.

## 12.5 Audio Talk / Chat

### Audio Device

Select the audio device that will be used by the VIGIL Server for voice communication in *Audio Talk Mode*.  
Set to *None* to disable Audio Chat.

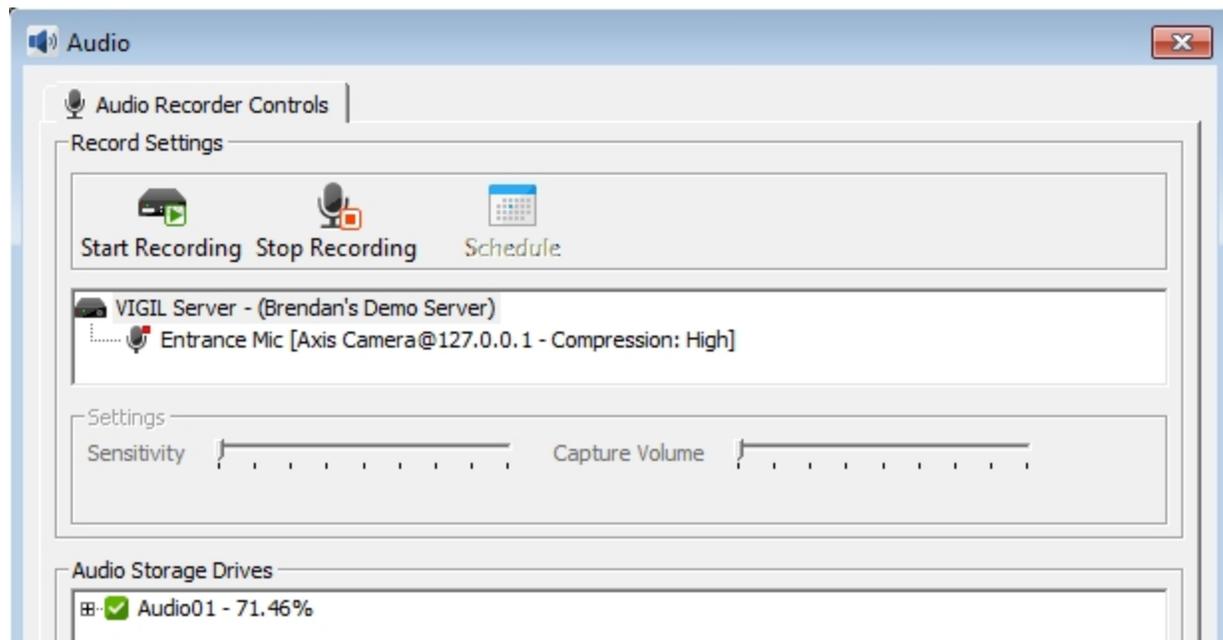
## 12.6 Other Settings - Audio Recorder Controls



**Figure 12-5:**Audio Settings - Other Settings - Audio Recorder Controls

Click the **Audio** button under the *Other Settings* portion of the *Audio Settings* form to open the *Audio Recorder Controls*.

The *Audio Recorder Controls* window is used to view audio channel status and to manually stop or start the recording of specific audio channels.



**Figure 12-6:**Audio Recorder Controls Tab

	The channel is currently recording audio.
	The channel is set to record, but there is no audio detected.
	Audio recording has been stopped on this channel.
<b>Start Recording</b>	Starts recording audio on the selected channel.
<b>Stop Recording</b>	Stops recording audio on the selected channel.
<b>Schedule</b>	Opens the schedule calendar where a recording schedule can be configured.
<b>Sensitivity</b>	Controls the sensitivity of the audio detection. Higher sensitivity will trigger audio recording at the slightest noise while lower sensitivity will only trigger audio recording with louder noise. Positioning

	the slider far left will set the audio channel's record mode to <i>Always On</i> . Positioning the slider far-right will set the audio channel's record mode to <i>Alarm Only</i> .								
<b>Capture Volume</b>	Use the slide bar to adjust the live volume of the selected audio channel. This setting is only available on VIGIL Server systems using a capture card.								
<b>Drive Information</b>	<p>The drive information section gives the current status of the VIGIL Server audio storage drives:</p> <table border="1"> <tr> <td></td> <td>Configured drive</td> </tr> <tr> <td></td> <td>Currently recording on this drive</td> </tr> <tr> <td></td> <td>Drive warning</td> </tr> <tr> <td></td> <td>Drive error, contact your system administrator</td> </tr> </table>		Configured drive		Currently recording on this drive		Drive warning		Drive error, contact your system administrator
	Configured drive								
	Currently recording on this drive								
	Drive warning								
	Drive error, contact your system administrator								

## 13 Advanced Settings - Email Overview Tab

From the *E-Mail Overview* tab, a user can configure the VIGIL Server's outgoing email settings including SMTP configuration and e-mail details.

Also available are an *E-Mail Address Master List* and a list of local *Configured Email Recipients*.

The screenshot displays the 'Email Overview' configuration window. At the top, there are navigation tabs: Camera Setup, Server Settings, Media Drives, COM Ports, Users, Relays/Alarms, Data, Audio, and Email Overview. The main area is divided into several sections:

- Email Overview:** A note states 'Email configured on this tab will not be sent unless Email Notification is enabled for the specific feature.'
- Outgoing Email Configuration:** Includes fields for SMTP Server Location (localhost), Port (25), and checkboxes for Requires SSL, Requires Authentication, and Requires TLS. There are also fields for User Name and Password, and a 'Test Email...' button.
- Default From Name:** Set to 'VIGIL Server'.
- Default From Address:** Set to 'vigilserver@127.0.0.1'.
- Email Address Master List:** A list of email addresses, all ending in '@3xlogic-eng.com', with '+ Add', 'Edit', and 'Delete' buttons.
- Configured Email Recipients:** A table with columns: Status, Notification Type, Recipient Type, Email Address, Camera, Digital Input, V-POS Exception, and Analytics Rule. The first row is checked and highlighted in blue.

At the bottom right, there are 'OK', 'Cancel', and 'Apply' buttons.

Figure 13-1: VIGIL Server Settings - Email Overview Tab

E-Mail Configuration Setting	Definition
<b>SMTP Server Location</b>	The SMTP Server location.
<b>Port</b>	The E-Mail Server port.
<b>Requires SSL</b>	Check-off this box if SSL certification is required.
<b>Requires TLS</b>	Check-off this box if TLS certification is required.
<b>Requires Authentication</b>	If the Email Server requires authentication, check-off this box and enter the appropriate email / username and password.
<b>Default From Name</b>	The default From name in outgoing emails sent from this VIGIL Server.
<b>Default From Address</b>	The default From Address in outgoing emails sent from this VIGIL Server. <i>VIGILServer-@127.0.0.1</i> (local host) is used by default, however a custom address can be entered if the correct SMTP Server settings are configured. If SMTP authentication is required for your mail server, the <i>From</i> address will be the user name / email that was entered when enabling <i>Requires Authentication</i> , regardless of what is entered in this field.
<b>Test Email...</b>	Click this button to test the connection and confirm the details you have configured are accurate.

## E-Mail Address Masterlist

All e-mail addresses configured on the VIGIL Server will be compiled here. New addresses can also be added from this window. Click *Add* and enter a new address to add another entry to the list. To edit an existing entry, select it in the list and click the *Edit* button. To delete an existing entry, select it in the list and click *Delete*. Addresses in the masterlist may or may not be configured as an email recipient.

## Configured Email Recipients

All email recipients on the VIGIL Server will be compiled in this list alongside information regarding their notifications settings.

E-Mail recipients can also be configured in this list, though the recipient address must exist in the Email Address Masterlist before being added as a recipient.

To disable / enable a recipient, toggle the check-box next to the address entry.

Click *Add* to add a new e-mail recipient. To edit an existing recipient, select the entry from the list and click *Edit*. To delete an existing entry, select the entry from the list and click *Delete*.

## Adding an Email Recipient

When Adding or Editing an e-mail recipient, the Email Notification Recipient Settings window will deploy.

**Figure 13-2:** Email Notification Recipient Settings Form

When adding or editing an e-mail recipient, the *Email Notification Recipient Settings* window will deploy.

<b>E-mail Address</b>	Select an e-mail address. Addresses must be present in the E-mail Address Masterlist to be added to a recipient.
<b>Recipient Type</b>	Select recipient type. To, CC and BCC are available.
<b>Notification Type</b>	Select the notification type. Available options include: <i>Video Loss</i> , <i>Video Motion Alarm</i> , <i>POS/ATM Data</i> , <i>Digital Input</i> , <i>V-POS Exceptions</i> , <i>Video Analytics</i> . Each type represents different notification trigger. Recipients can also be added from the appropriate settings form related to your notification type.

<b>Camera</b>	Select the associated camera.
<b>Digital Input</b>	If Notification Type is set to Digital Input, select the input number here.
<b>V-POS Exception</b>	If the Notification Type is set to V-POS Exception, select the configured exception here.
<b>Analytics Rule</b>	IF the Notification Type is set to Video analytics, select the configured rule here.

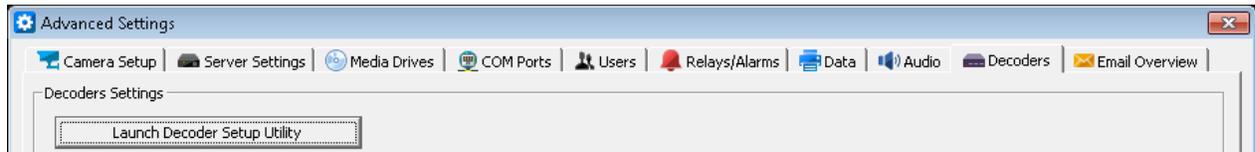
Click *OK* to save the new recipient.

## 14 Advanced Settings - Decoders Tab



**Note:** The VIGIL Decoder Setup Utility is installed independently of VIGIL Server. The VIGIL Server Settings - Decoder Tab will only appear on systems where the utility has been installed. Contact your 3xLOGIC representative to request the latest available version of the VIGIL Decoder Setup Utility.

From the Decoders tab, a user may launch the VIGIL Decoder Setup Utility.

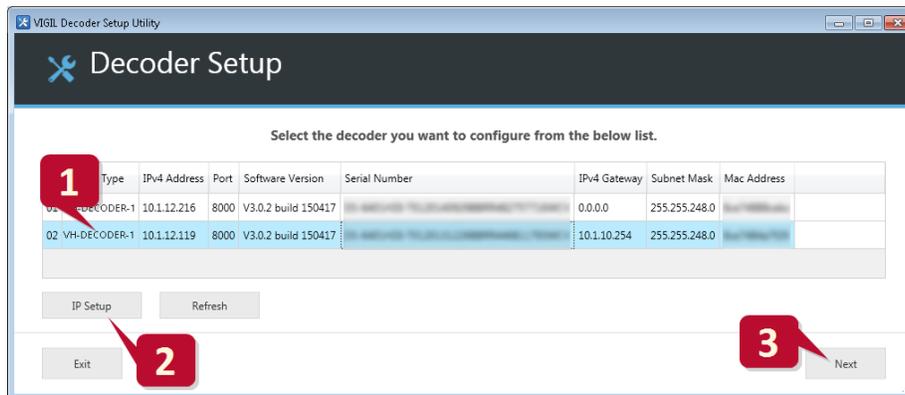


**Figure 14-1:**VIGIL Server Settings - Decoders Tab

Click the *Launch Decoder Setup Utility* button to launch the utility.

### 14.1 VIGIL Decoder Setup Utility

After clicking the launch button, the decoder setup utility will deploy. The landing page for the decoder utility is the detected decoder list.



**Figure 14-2:**VIGIL Decoder Setup Utility - Detected Decoders

The utility will automatically detect VISIX decoders on your network and display them in the list. To update the list, click the *Refresh* button. To activate a decoder, select the desired decoder and click *Activate*. Follow the on-screen instructions to complete the activation process. To configure a decoder's IP settings and camera layout:

1. Select the desired decoder from the list.
2. Click *IP Setup*. A small window will deploy where the user can enter new connection details (IP, Subnet Mask, Default gateway).
3. After selecting the desired decoder and configuring IP settings as desired, click *Next*.

You will be prompted to login to the selected decoder.

4. Enter the login credentials and click *OK* to continue.

The *Camera Settings* window will deploy.

From the Camera Settings window, a user may configure decoder name and output settings and well as monitor layout settings for the camera streams that will be decoded.

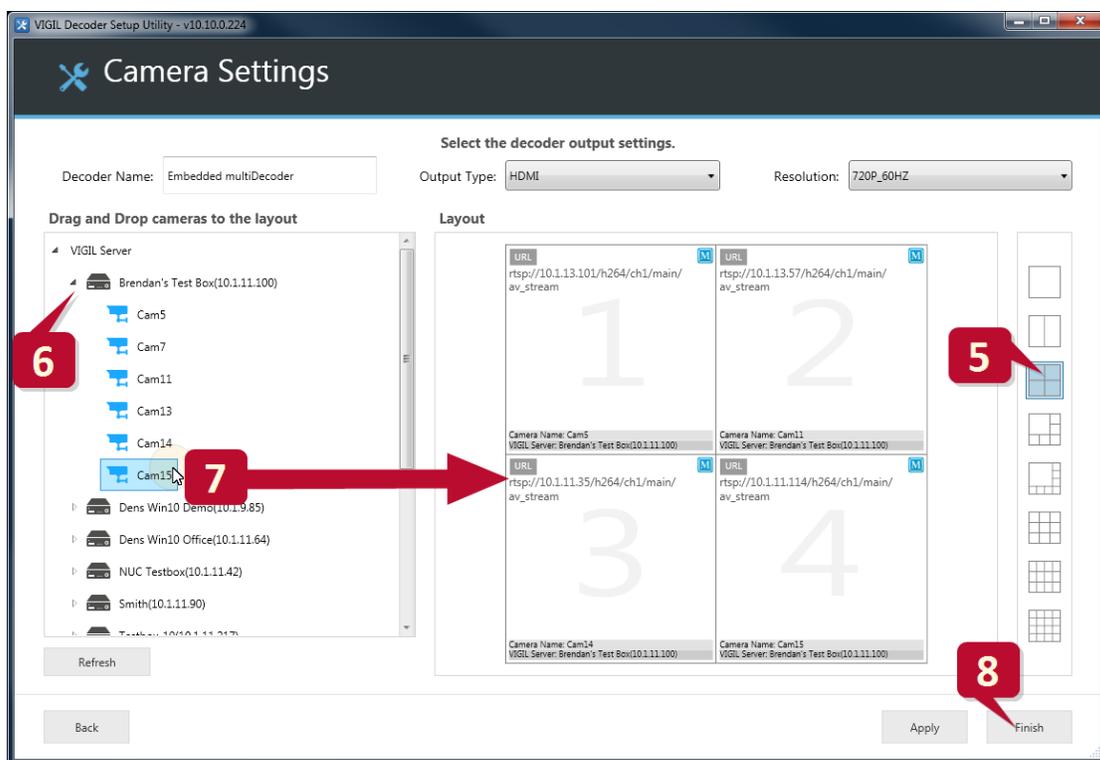
<b>Decoder Name</b>	The name that will be assigned to this decoder to identify it throughout the VIGIL suite.
<b>Output Type</b>	Select the output type to use for the decoder. Select between HDMI, BNC or VGA.
<b>Resolution / Video Format</b>	Select the video output resolution. Available options include XGA, SXGA, 720p, 1080p and UXGA. When BNC is the selected Output Type, this field will become the Video format field. The user may choose between PAL or NTSC, depending on the requirements of their region.



**Warning:** JPEG Streams are not currently supported from VIGIL Server Cameras. Only H.264 is currently supported.

After configuring settings as required:

5. Select your desired layout from the right-side layout list.



**Figure 14-3:** VIGIL Decoder Setup Utility - Camera Settings

6. Expand a VIGIL Server or VIGIL Camera node and reveal available cameras.
7. Drag desired cameras from the list to the desired layout frame in the preview. A stream URL will be displayed in the frame to indicate which camera stream it will display.
8. When you have configured your desired layout, click *Finish*.

Your streams will now be decoded and should be displayed on a monitor connected to the Decoder via the previously selected *Output Type*.

## 15 Report Tools

*Client Connections*, *Audit Log Analyzer* and *Network Log Analyzer* can all be accessed from the system tray icon right-click menu. These tools can be used to view important connection and usage information about the VIGIL Server. For details on these reporting tools, see the below sections.

### 15.1 Client Connections

The *Client Connections* window displays a list of current connection activity from other applications, for example VIGIL Client stations. To open the *Client Connections* window, select the *Client Connections* option from the *Tools* icon drop-down menu in the main VIGIL Server window. You can also double-click the *Client Connections* status bar.

The table provides the following information: the client's remote host name or IP address, the remote host connection port, the locally connected port and the last activity time of the connection.

Remote Host	Remote Port	Local Port	Last Activity
10.1.11.7	2169	22802	2010-05-03 16:53:58
10.1.11.7	2168	22802	2010-05-03 16:53:58
10.1.11.7	2171	22802	2010-05-03 16:53:58
10.1.11.7	2172	22802	2010-05-03 16:53:58
10.1.11.7	2174	22802	2010-05-03 16:53:58
10.1.11.7	2175	22802	2010-05-03 16:53:58
10.1.11.7	2177	22802	2010-05-03 16:53:58
10.1.11.7	2178	22802	2010-05-03 16:53:58
10.1.11.7	2176	22802	2010-05-03 16:53:58
10.1.11.5	2138	22803	2010-05-03 16:53:58
10.1.11.5	2139	22803	2010-05-03 16:53:58
10.1.11.7	2170	22802	2010-05-03 16:53:57
10.1.11.7	2173	22802	2010-05-03 16:53:57
10.1.11.5	2113	22803	2010-05-03 16:53:55
10.1.11.5	2112	22803	2010-05-03 16:53:54
10.1.11.5	2029	22803	2010-05-03 16:53:48
10.1.11.5	2028	22803	2010-05-03 16:53:47
10.1.11.5	1944	22803	2010-05-03 16:53:41

Update Frequency  s Close

Figure 15-1: Client Connection Report

<b>Update Frequency</b>	Adjusts the update frequency of the table every set amount of seconds entered in the corresponding box.
-------------------------	---

### 15.2 Network Log Analyzer

The *Network Log Analyzer* provides a simple way to check for network activity of VIGIL software. It will log IP addresses and VIGIL user names of all connections made. To open the *Network Log Analyzer*, select *Tools* from the main menu bar and select *Network Log Analyzer*.

### 15.3 Audit Log Analyzer

The *Audit Log Analyzer* provides a way to analyze, search and monitor various errors and general information for the VIGIL Server software. Essentially, it allows you to search the logs by using a variety of criteria such as date / time, error code, IP address, or module

To open the *Audit Log Analyzer*, select *Tools* from the main menu bar and select *Audit Log Analyzer*. The Audit Log Viewer window will deploy.

Search sorting and filter tools as well as search filter criteria make up the top portion of the analyzer. After performing a search, the bottom portion will be populated with a list of log entries matching your search criteria and filters.

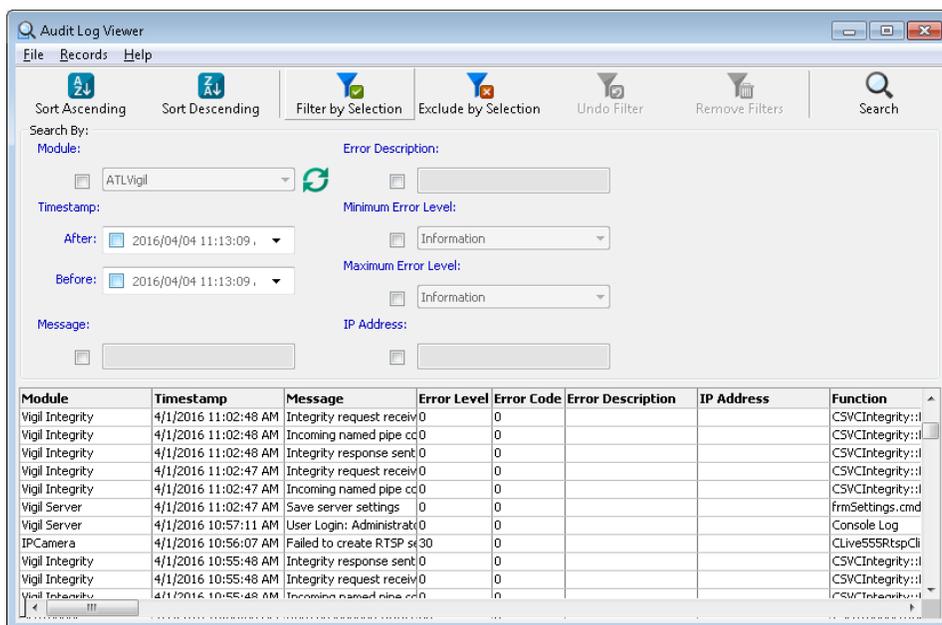


Figure 15-2: VIGIL Server Audit Log Analyzer

<b>Sort Ascending</b>	Sort log entries from newest to oldest.
<b>Sort Descending</b>	Sort log entries from oldest to newest.
<b>Filter by Selection</b>	Search only for log entries of the currently selected log entry type.
<b>Exclude by Selection</b>	Exclude the currently selected log entry type from the search.
<b>Undo Filter</b>	Undo the latest filter.
<b>Redo Filter</b>	Redo the last used filter.
<b>Search</b>	Perform a search of the audit log.
<b>Search By</b>	A list of search criteria the user may use to narrow down their audit log entry search. Criteria includes: <i>Module, Timestamp (Before and/or After) Message, Error Description, Minimum Error Level, Maximum Error Level, IP Address.</i>

For descriptions of the different log entries you may encounter, see *Tech Tip 160017 VIGIL Server - Audit Log Legend*. Contact 3xLOGIC support to receive the latest revision of TT 160017.

## 15 On-Board Analytics

When configuring a VISIX Camera with available on-board VCA analytics, the *On-Board Analytics* button will be visible on the *Network Camera Settings* form. Click the **On-Board Analytics** button to launch the *On-Board Analytics* utility.

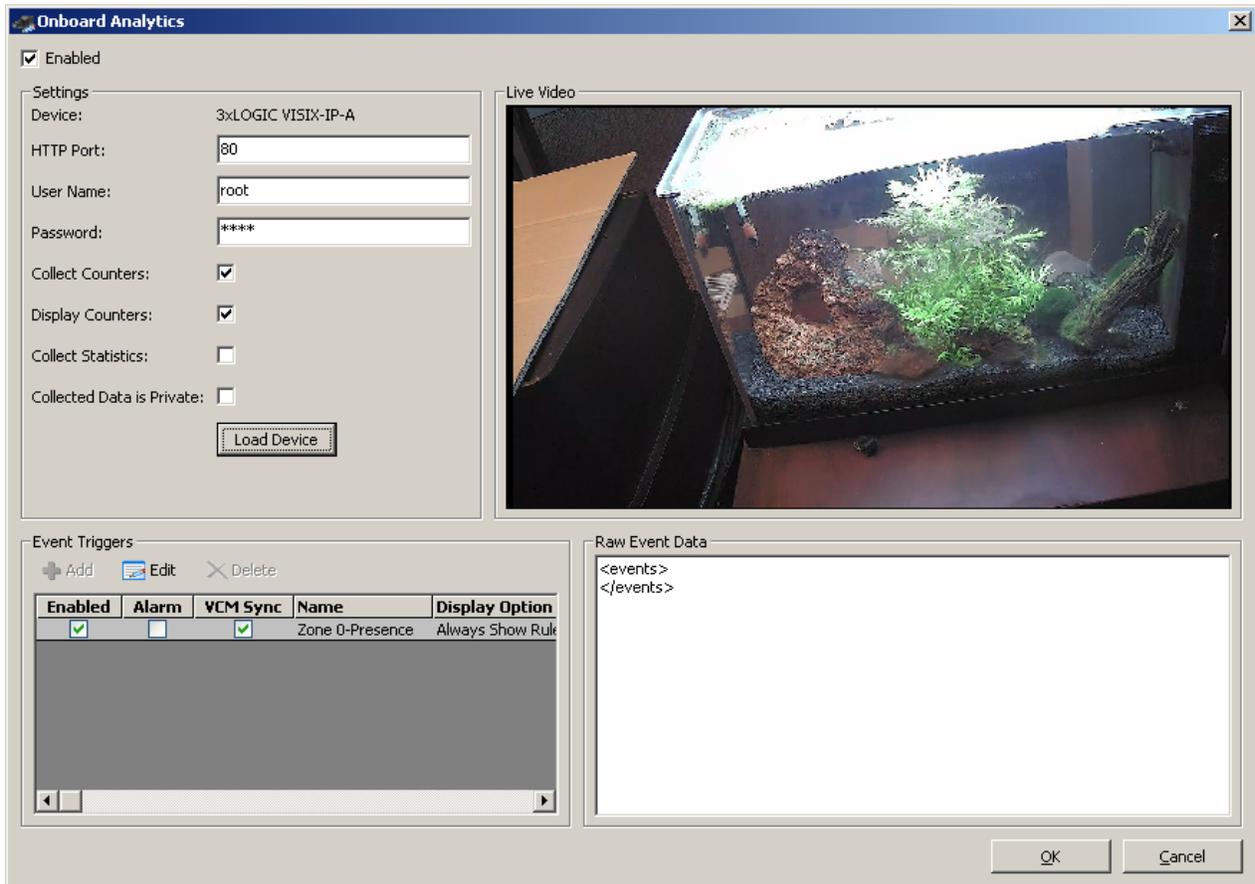


Figure 15-3: On-Board Analytics Window

This window will display connection information for the camera (automatically populated by VIGIL Server) as well as VCA rules options. It will also list all VCA analytics rules that have been constructed on the camera. VCA rules will populate the *Event Trigger* list. Each component of the *On-Board Analytics* utility is described below.

Component	Description
<b>Enabled</b>	Click this button to enable VIGIL Server to detect on-board analytics rules on the camera.
<b>Device Type</b>	List the type of device / camera being edited or added.
<b>HTTP Port</b>	One of two ports used to connect to the camera's analytics data.
<b>Username</b>	Username required to sign in to the camera. This will be auto-populated by VIGIL Server.
<b>Password</b>	Password required to sign in to the camera. This will be auto-populated by VIGIL Server.
<b>Collect Counters</b>	Enables the collection of data counters
<b>Collect Statistics</b>	Enables the collection of analytics statistics
<b>Collected Data is Private</b>	This feature prevents VIGIL Central Management from acquiring analytics information collected by the camera and will overrule VCM Sync if enabled for a rule / event trigger. .
<b>Load Device</b>	Click this button after the other device / camera settings have been correctly input. The

	device / camera's feed will be displayed in the Live Video window to the right, if available.
<b>Raw Event Data</b>	Contains a raw dump of analytics event data coming from the camera.
<b>Event Triggers</b>	
<b>Edit</b>	Edit the <i>Rule Name</i> and the rule's <i>Display Options</i> ( <i>Always Show Rule</i> , <i>Never Show Rule</i> , <i>Show Rule When Alarmed</i> ).
<b>Enabled</b>	Click this rule to enable rule data insertion in the VIGIL database. This will be enabled by default.
<b>Alarm</b>	Enable this option to trigger an alarm in VIGIL Server when the rule is triggered.
<b>VCM Sync</b>	Enable this option to insert event rule data into the VCM Central Analytics database (if VCM has been configured to Manage Analytics for the VIGIL Server). If <i>Collected Data is Private</i> is enabled for this camera, this setting will be ignored.
<b>Name</b>	The Name of the rule.
<b>Display Option</b>	The current <i>Display Option</i> for the rule. Display options can be edited by selecting a rule and clicking <b>Edit</b> .

Once a rule is added to VIGIL Server, VCA analytics data generated by the rule will be inserted into the VIGIL database. VIGIL Server's VA rule settings can be edited from the *Camera Setup > Video Analytics tab*. See "Advanced Settings - Video Analytics Tab" on page 44 for more information.

## 16 Registration

If modules of VIGIL Server are in use during the 30 day trial period, a screen will pop up to remind the user that there are active unregistered modules. The reminder screen will only list modules that are actively being used, pressing *Remind Me Later* will repeat the reminder in 24 hours.

To register VIGIL Server modules, shut down the VIGIL Server software then click the Windows Start menu and select *Programs | VIGIL | Register VIGIL*.

The VIGIL Registration utility will launch.

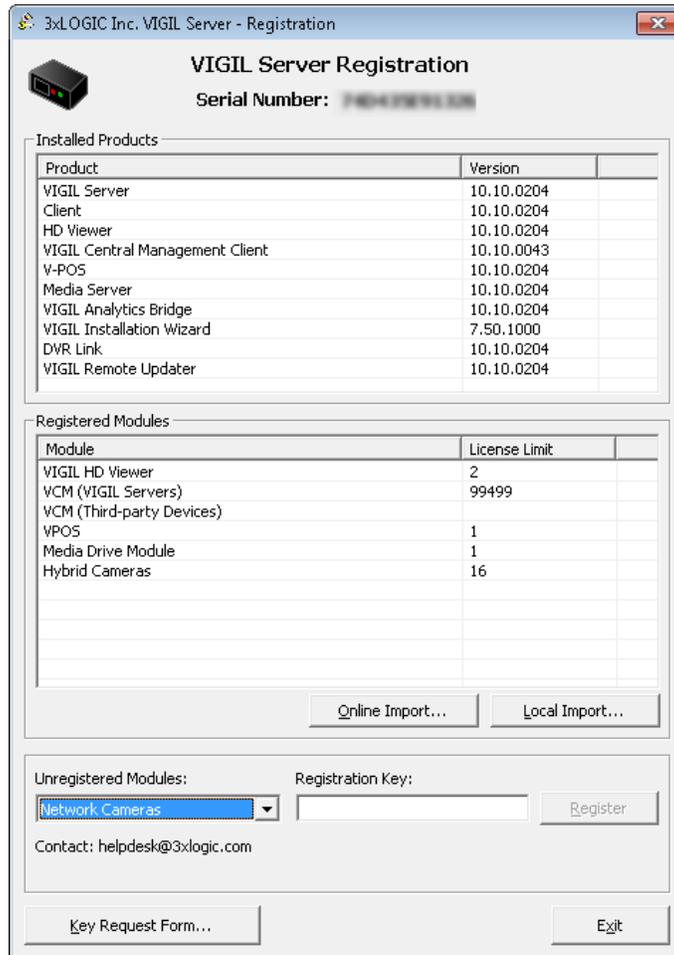


Figure 16-1: VIGIL Registration Utility

### 16.1 Manual Registration

To manually register modules:

1. Choose the desired module from the *Unregistered Modules* drop-down.
2. Enter the registration key provided to you by your sales representative.
3. Click **Register**.

The registration process for the selected module is complete.

## 16.2 Auto-Registration

As an alternative to manual registration, a user can use **Online Import** to automatically import all keys associated with the system's serial number via 3xLOGIC WebReg. Simply click the button and allow the import to complete. Alternatively, you may use an auto-registration XML file using the **Local Import** option if you have received one from your sales representative. To use a local xml file

1. Click the **Local Import** button.
2. Locate the file .xml license file in the available file explorer and click **Open**.

All modules associated with the.xml file will now be automatically registered.

### 16.2.1 Requesting Registration Keys

If you have yet to receive registration keys, keys can be requested. To request keys:

1. Click the **Key Request Form...** button
2. Check-off the appropriate modules for which you require registration keys and click **Save**.
3. Send the resulting .xml file to your 3xLOGIC sales representative.

The representative will contact you to complete the transaction and will provide you with the appropriate keys for the auto-registration XML file.

## 16.3 Re-Registering Upgraded Modules



**Example:** A VIGIL Server system currently has 8 Network Camera Channels licensed and registered. The VIGIL Server's owner has purchased a new 8 Network Camera Channel license to double the VIGIL Server's camera capacity to 16. The owner has been supplied the appropriate registration key for the new license by their sales representative. The below steps must be followed to successfully re-register the upgraded module to allow for access to the new camera channels.

To re-register an upgraded module:

1. Select the module from the *Registered Modules* list and press the **Delete** key on the keyboard to remove the original module.
2. Re-select the module from the bottom *Unregistered Modules* list. Enter the upgraded module's new license key and click **Register**. If you have been provided an .xml license file, you can use the alternate auto-registration method (outlined in Section 1.2 of this tech tip) to complete registration.
3. Launch VIGIL Server.

The re-registered module will now be active. If the VIGIL Server software was not shut down during registration, a software restart is required for changes to take effect.

## 17 Language Switcher

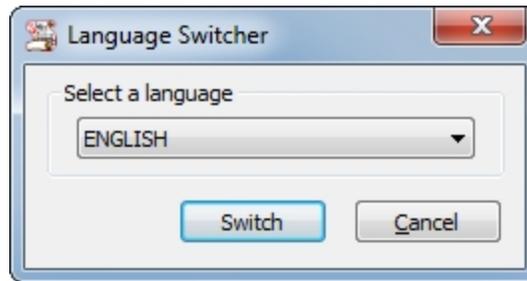


Figure 17-1: VIGIL Language Switcher

VIGIL Server can be run in English, French, Spanish, Chinese and Hebrew. The *Language Switcher* can be run from the Windows Start menu.

To begin:

1. Select *Programs | VIGIL | Language Switcher*.
2. Select the desired language from the drop-down menu and click *Switch*.

A prompt will show informing that a system reboot is required to complete the language change. Choose the following:

- Click *Yes* to reboot immediately.
- Click *No* to have the update applied the next time the system is restarted.



**Note:** The prompt will display in the language that is being switched to.

## 18 VIGIL Server System Database Utility

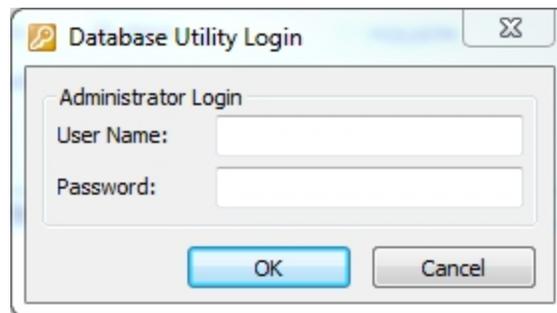
The VIGIL Server System Database Utility is an advanced management utility for data drive and database management.



**Warning:** The VIGIL Server System Database Utility contains features that may cause a system failure or other undesired effects.

If the VIGIL Server is experiencing issues, please contact your system administrator or 3xLOGIC technical support. Please See "Contact Information" on page 122

You will have to login to the utility before being able to modify any settings; a VIGIL administrator account must be used.



**Figure 18-1:** Database Utility Login Window

## 18.1 Drive Management Tab

In the *Drive Management* tab, three types of media drives can be set up: *Video Storage Drives*, *Alternate Video Storage Drives* and *Audio Storage Drives*. VIGIL Server must be shut down to make changes on this Tab.

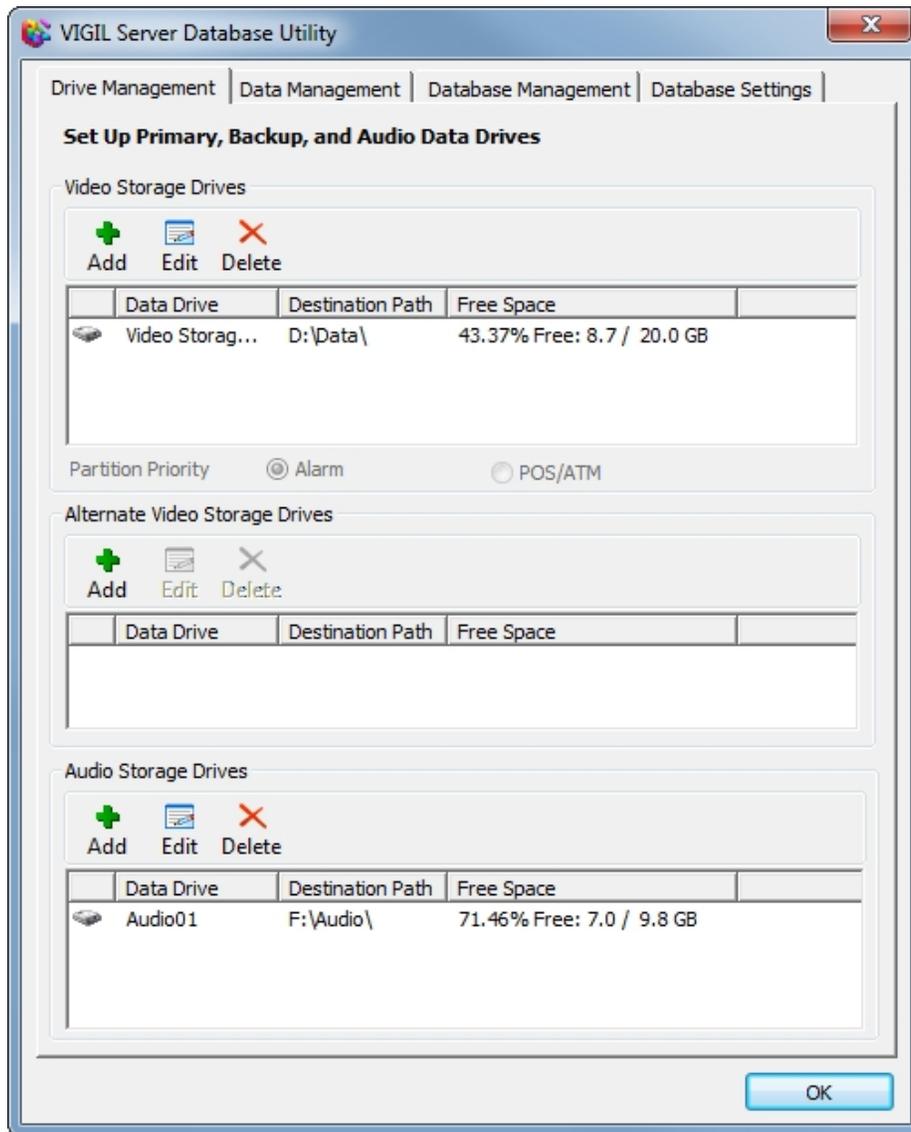


Figure 18-2: VIGIL Server Database Utility

**Video Storage Drives** – Video Storage Drives are the main drives where video footage is stored. If all of the Video Storage Drives are offline, the Alternate Video Storage Drives will be used until the Video Storage Drives return online.

**Alternate Video Storage Drives** – Alternate Video Storage Drives are emergency backup drives that are used only if all of the Video Storage Drives are offline. If an Alternate Video Drive is being used, the VIGIL Server will beep and a warning message will be displayed. When the Video Storage Drives return online, a warning message will disappear, the audio alarm will stop beeping, and the VIGIL Server will switch back to recording to the main Video Storage Drives.

**Audio Storage Drives** – Audio Storage Drives are the drives where audio data is stored.

## 18.2 Data Management Tab

Maintenance operations on the VIGIL Server Database can be performed on this tab. These operations can be performed while VIGIL Server is running.

### Purge Data

To purge data, select the type of data you wish to purge; *Video / Audio Footage*, *POS Data* or *Video Analytics Data*. Specify a date range in the *From* and *To* boxes or choose *Purge All*, click the *Purge* button to purge the *Selected Data*.

**Figure 18-3:**VIGIL Server Database Utility - Data Management Tab - Purge Data Options



**Note:**VIGIL Server is designed to manage the purging of data; it will delete the oldest hour of video footage or the oldest POS / Video Analytics Data automatically before the data drives become full. Under normal operating conditions, there is no need to manually purge Data.



**Warning:** This is a permanent deletion of the data itself.

### Rebuild Database

The *Rebuild Database* feature rebuilds the database entries for all of the footage on the selected drives. Click the *Rebuild* button, select the drive(s) to rebuild and click *OK* to rebuild the selected drives. During the rebuild process the Sentinel 'No Footage Recorded within the last 24 hours' warning may appear, this is expected as the database of the footage is being rebuilt.

You may choose the utilities post-rebuild action by checking *When The Rebuild is Completed Successfully*: and choosing either *Close this Utility* or *Automatically Reboot the Server*.

**Figure 18-4:**VIGIL Server Database Utility - Data Management Tab - Rebuild Database Options

### Reset Initial Footage Date

The VIGIL Server Health Monitor software uses the initial footage date in VIGIL Server to determine if the VIGIL Server is recording the proper number of days of video storage. Click the *Reset* button to reset the cached date of the first video footage recorded by the VIGIL Server to the oldest footage currently on the VIGIL Server. Please refer to the VIGIL Server Health Monitor software Users Guide, or contact 3xLOGIC for more information.

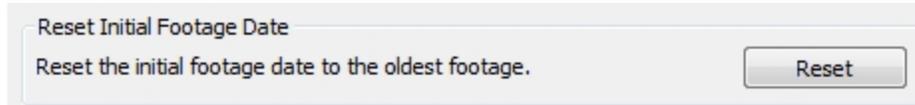


Figure 18-5: VIGIL Server Database Utility - Data Management Tab - Reset Initial Footage Date

### Reset POS/ATM Database

Below the *Reset Initial Footage Date* option, users may also select the Reset POS/ATM Database function. This process will only clear POS/ATM data from the VIGIL POS Database. Any existing POS/ATM data within the standard VIGIL Server database will remain and will be copied over to the VIGIL POS database once it has been cleared and reset. Use this function to attempt to repair the VIGIL POS database if it has fallen into an error state.



Figure 18-6: VIGIL Server Database Utility - Data Management Tab - Reset POS/ATM Database

## 18.3 Database Management Tab

The Database Management Tab allows for configuration and maintenance of the VIGIL Server Database.

### Settings



Figure 18-7: VIGIL Server Database Utility - Database Management Settings

<b>Max Number of Databases</b>	Set the maximum amount of databases that will be created.
<b>Max Database Size</b>	Set the maximum size a database can grow to before a new database is created.
<b>Database Maintenance Interval</b>	Set the time interval, in hours, between when database maintenance scripts will be run.
<b>Default</b>	Reset the values to default.
<b>Change</b>	Apply the changes.

## Backup / Restore Database

Creates a backup image of the video footage database or restores the database from an existing backup image. Click the *Browse* button to select the image folder. Click *Backup* to backup the database in the selected folder. Click *Restore* to restore the database from the backup image in the selected folder.

Figure 18-8: VIGIL Server Database Utility - Database Management Tab - Backup / Restore Database Settings

## Repair Database

In the case that the database index becomes corrupt, the *Repair Database* feature will repair the index files and compact the memory usage of the video footage database to tune its performance.

Figure 18-9: VIGIL Server Database Utility - Database Management Tab - Repair Database Settings

## 18.4 Database Settings Tab

The *Database Settings* tab is used to change settings within the VIGIL Server database.

### Local Database Administrator Password Settings

Figure 18-10: VIGIL Server Database Utility - Database Settings Tab - Local Database Administrator Password Settings

To change the SQL Server Administrator account (sa) password, enter the old password, new password and click Set Password.

### TCP Port

Figure 18-11: VIGIL Server Database Utility - Database Settings Tab - TCP Port Settings

Enter in the desired port number and click Change to change the listening TCP port number of the SQL Server database.

## Central SQL Database

**Figure 18-12:**VIGIL Server Database Utility - Database Settings Tab - Central SQL DB Settings

The central SQL database feature is used to record data references into a database on a different PC. The custom database configuration utility for central database support must be run on the central database for this feature to function.



**Warning:** Incorrect use of the Central SQL Database settings can cause a system failure. If the VIGIL Server is experiencing database issues, please contact your system administrator or 3xLOGIC technical support.

<b>Video / Audio</b>	Enables video and audio information to be stored on a central SQL database.
<b>POS Data</b>	Enables POS data information to be stored on a central SQL database.
<b>SQL Server Location</b>	The network path of the central SQL database. It is possible to use two different servers for each video / audio and POS data by inputting 2 different server locations.
<b>Port</b>	SQL Server port being used on the server running the central SQL database
<b>VIGIL Server ID</b>	Each VIGIL Server connecting to the central SQL database must have a unique VIGIL Server ID.

## Local Database Memory Usage

**Figure 18-13:**VIGIL Server Database Utility - Database Settings Tab - Local DB Memory Usage Settings

The *Database Memory Usage* section is used to limit the amount of memory used by the local SQL database. This will not affect the disk space usage of the database - only the memory usage. Minimum memory usage should always be set to 0 MB. Maximum memory usage should be set according to the amount of memory installed in the VIGIL Server (see table below). Setting the appropriate maximum memory usage level for the VIGIL Server will improve VIGIL Server performance. To change the maximum memory usage, drag the slide bar to the appropriate MB amount. Check *Adjust SQL Server Memory Automatically* checkbox to have the memory set automatically.

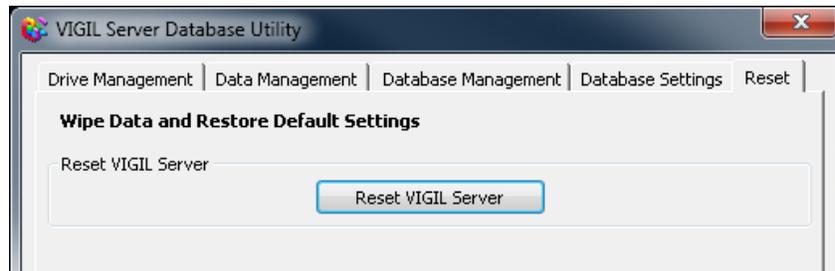
MB of RAM Installed in VIGIL Server	Max MB of Memory Usage Recommended
<b>512MB</b>	250MB
<b>1024MB</b>	700MB
<b>2048Mb</b>	1536Mb

## 18.5 Reset Tab

This tab contains a button that will initiate a full data wipe and settings restore for the VIGIL Server.



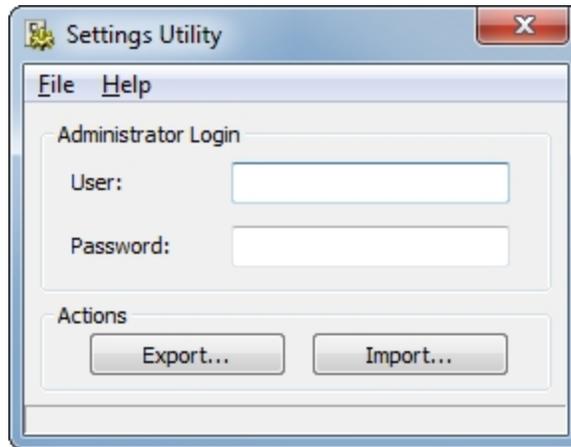
**Warning:** This button shuts down services, purges all data, recreates all databases and clears key portions of the registry to return the VIGIL software to its factory state. Please make appropriate backups before proceeding.



**Figure 18-14:**VIGIL Database Manager - Reset

## 19 Settings Utility

The *Settings Utility* is used to export and import VIGIL Server settings to other VIGIL Servers. The exported files will include all settings found in the *VIGIL Server Settings* window.



**Figure 19-1:**VIGIL Server Settings Utility

Enter an administrator username and password to use the *Export* and *Import* features. The administrator account must exist on the local VIGIL Server.

<b>Export</b>	Click the <i>Export</i> button to export the current VIGIL Server settings.
<b>Import</b>	Click the <i>Import</i> button to import VIGIL Server settings from a previously exported settings file.



**Warning:** A settings import will erase all existing VIGIL Server settings. Please check that *Media Drives* settings are correct after performing an import.

## 20 VIGIL Server Backup Utility

The *VIGIL Server Backup Utility* allows administrators to backup large amounts of recorded video footage to a local hard drive or DVD.



Figure 20-1: VIGIL Backup Utility

<b>Exit</b>	Close the <i>VIGIL Server Backup Utility</i> .
<b>Logs</b>	Open the <i>Backup Log</i> window, where a user may search for backups.
<b>Destinations</b>	Opens the <i>Destinations</i> window, where backup destinations can be added, edited, deleted or prioritized. At least one backup destination must be configured for the <i>Backup</i> button to become available.
<b>Deselect All</b>	Deselects all highlighted dates in the main <i>VIGIL Server Backup Utility</i> window.

February 2010							March 2010							April 2010							May 2010						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
31	1	2	3	4	5	6	28	1	2	3	4	5	6	28	29	30	31	1	2	3	25	26	27	28	29	30	1
7	8	9	10	11	12	13	7	8	9	10	11	12	13	4	5	6	7	8	9	10	2	3	4	5	6	7	8
14	15	16	17	18	19	20	14	15	16	17	18	19	20	11	12	13	14	15	16	17	9	10	11	12	13	14	15
21	22	23	24	25	26	27	21	22	23	24	25	26	27	18	19	20	21	22	23	24	16	17	18	19	20	21	22
28	1	2	3	4	5	6	28	29	30	31	1	2	3	25	26	27	28	29	30	1	23	24	25	26	27	28	29
7	8	9	10	11	12	13	4	5	6	7	8	9	10	2	3	4	5	6	7	8	30	31	1	2	3	4	5

Figure 20-2: VIGIL Backup Utility - Date Selection

Select dates to backup by clicking the appropriate date on the calendar. Dates selected for backup are highlighted in blue. Dates that have been successfully backed up are highlighted in green. Dates with backups that have failed are highlighted in grey. Selecting successful backups (highlighted in green, above) on the calendar will reveal information about the backup

Footage Start	Footage Ends	User	Export Date	Media Serial #	Destination
2010-05-15	2010-05-15	administrator	2010-05-18	A611B891	F:\}

Figure 20-3: VIGIL Backup Utility - Backup Log

Backing up Server is as simple as selecting a destination and running the utility.



Figure 20-4: VIGIL Backup Utility - Settings

<b>Destination</b>	Select the location to backup to from the drop-down list. Destinations must be configured in the <i>Destinations</i> window to appear in this drop-down.
<b>Backup</b>	Click <i>Backup</i> to begin the backup process.
<b>Display Months Prior to:</b>	The Calendar displays one year prior to the month selected here.

## 21 Contact Information

3xLOGIC has offices in Victoria BC, Canada and in Fishers, Indiana, USA. Please visit our 3xLOGIC web site at [www.3xlogic.com](http://www.3xlogic.com). Please contact us by e-mail at [helpdesk@3xlogic.com](mailto:helpdesk@3xlogic.com) (technical support), or using the following contact information:

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