

# **VISIX V-Series All-in-One Cameras**

User Manual VIGIL v8.8 All-In-One Software This manual applies to the following camera models:

Camera Type	Model
2 Megapixel Exterior Bullet Camera	VX-2A-B-IWD
2 Megapixel Exterior Bullet Camera w/Remote Focus	VX-2A-B-RIWD
2 Megapixel Exterior Dome Camera	VX-2AD3-IWD
2 Megapixel Interior Mini Dome Camera	VX-2A-IMD-X
VERA 36° Field-of-Vision Thermal Bullet Camera	VX-VT-36

Thank you for purchasing our product. If there are any questions, or requests, please do not hesitate to contact your sales representative or a 3xLOGIC support representative.

This manual may contain technical inaccuracies or printing errors. Examples are based on **VIGIL Software Version 8.80.0008** running over firmware **1.10.7.3**. The camera's UI appearance may appear differently depending on your current VIGIL software and camera firmware versions.

The content of this guide is subject to change without notice. The manual will be amended if there are any hardware updates or changes.



# **Regulatory Information**

## **FCC Information**

**FCC compliance:** This equipment has been tested and found to comply with the limits for a digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

## FCC Conditions

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- 1). This device may not cause harmful interference.
- 2). This device must accept any interference received, including interference that may cause undesired operation.

## **EU Conformity Statement**



This product and - if applicable - the supplied accessories too are marked with "CE" and comply therefore with the applicable harmonized European standards listed under the Low Voltage Directive 2006/95/EC, the EMC Directive 2004/108/EC, the RoHS Directive 2011/65/EU.



2012/19/EU (WEEE directive): Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon the purchase of equivalent new equipment, or dispose of it at designated collection points. For more information see: www.recyclethis.info.



2006/66/EC (battery directive): This product contains a battery that cannot be disposed of as unsorted municipal waste in the European Union. See the product documentation for specific battery information. The battery is marked with this symbol, which may include lettering to indicate cadmium (Cd), lead (Pb), or mercury (Hg). For proper recycling, return the battery to your supplier or to a designated collection point. For more information see: <u>www.recyclethis.info</u>

## **Safety Instruction**

These instructions are intended to ensure that the user can use the product correctly to avoid danger or property loss.

The precaution measure is divided into 'Warnings' and 'Cautions':

WARNING: Serious injury or death may be caused if any of these warnings are neglected.

**CAUTION:** Injury or equipment damage may be caused if any of these cautions are neglected.

#### WARNING:

- Please adopt a power adapter which can meet the safety extra low voltage (SELV) standard when possible, and source with 12 VDC or 24 VAC (depending on models) according to the IEC60950-1 and Limited Power Source standard. Before applying power to the camera, check the power source to ensure that it is within the specifications
- If the product does not work properly, please contact your dealer or the nearest service center. Never attempt to disassemble the camera yourself. (We shall not assume any responsibility for problems caused by unauthorized repair or maintenance.)
- To reduce the risk of fire or electrical shock, do not expose this product to rain or moisture unless it is an exterior/weatherproof model. Please do not install the camera in a place exposed to direct sunlight. Do not operate the camera in environments beyond the specified temperature. Refer to the VISIX V-Series All-in-One Hardware and Installation manual for environmental conditions and limitations of your particular camera model.
- This installation should be made by a qualified service person and should conform to all the local codes.
- Please install blackout equipment into the power supply circuit to prevent footage and data loss.
- Please make sure that the ceiling can support more than 50(N) Newtons of gravity if the camera is fixed to the ceiling.

#### CAUTION:

- Make sure the power supply voltage is correct before using the camera.
- Do not drop the camera or subject it to physical shock.
- Do not touch sensor modules with fingers. If cleaning is necessary, use a clean cloth with a bit of ethanol and wipe it gently. If the camera will not be used for an extended period of time, put on the lens cap to protect the sensor from dirt.
- Do not aim the camera lens at the strong light such as sun or incandescent lamp. The strong light can cause fatal damage to the camera.
- The sensor may be burned out by a laser beam, so when any laser equipment is being used, make sure that the surface of the sensor not be exposed to the laser beam.
- Do not place the camera in extremely hot, cold temperatures (the operating temperature should be between -30°C ~ 60°C, or -40°C ~ 60°C if the camera model has an "H" in its suffix), dusty or damp environment, and do not expose it to high electromagnetic radiation.
- To avoid heat accumulation, good ventilation is required for a proper operating environment.

- Keep the camera away from water and any liquid.
- While shipping, the camera should be packed in its original packing.
- Improper use or replacement of the battery may result in hazard of explosion. Please use the manufacturer recommended battery type.

#### NOTE:

For cameras that support IR, you are required to pay attention to the following precautions to prevent IR reflection.

- Dust or grease on the dome cover will cause IR reflection. Please do not remove the dome cover film until the installation is finished. If there is dust or grease on the dome cover, clean the dome cover with clean soft cloth and isopropyl alcohol.
- Make certain the installation location does not have reflective surfaces of objects too close to the camera. The IR light from the camera may reflect back into the lens causing reflection.
- The foam ring around the lens must be seated flush against the inner surface of the bubble to isolate the lens from the IR LEDS. Fasten the dome cover to camera body so that the foam ring and the dome cover are attached seamlessly.

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## **1 VISIX V-Series All-in One Cameras**

## **1.1 Introduction**

VISIX V-Series All-in-One, edge-based IP cameras are powerful, full-featured, VMS and advanced analytic capable. VISIX V-Series cameras provide a complete surveillance solution for the small and medium sized businesses and for unique single-point applications.

These new cameras' embedded analytics use algorithms that automatically self-adjust, so the user can concentrate on the all-important detection rules. This feature greatly simplifies the analytical process, requiring only a few mouse clicks to configure a detection rule. Such advanced analytics enable object classification, direction determination, people counting, and dwell times meaning the camera's intelligence becomes valuable and can be leveraged across the organization, not just for security and loss-prevention.

When enabled, the embedded VIGIL Server software allows these cameras to be run as stand-alone devices, recording video to the onboard memory card. This makes these All-in-One cameras compatible with 3xLOGIC's existing software suite including VIGIL Client, VIGIL VCM, VIGIL View Lite II, and VIGIL Cloud applications. Simple plug-and-play installation enables camera access using a standard web browser (Microsoft IE/Edge required for ActiveX Control), VIGIL Client, or through a mobile device or tablet utilizing the easy-to-use QR code quick setup.

Several models exist to best suit any number of environments, however operation of the V-Series All-in-One software (web) interface remains uniform across all models. Details on identifying and connecting to a camera on your network, accessing a camera's web interface, settings, video and details regarding the camera's web interface itself are contained within this manual.

# 2 Identifying the Camera on your Network

## 2.1 Identifying Camera IP Address

To begin viewing video or configuring a camera's network settings from the camera's web/browser interface, the user must first identify the device's IP address. The default IP address of the camera is **192.168.XXX.XXX.** The default subnet mask is **255.255.0.0.** 

On simple, private networks, a user can manually identify the IP address of the camera by converting the camera's MAC address hex values, however, the alternative method, which is recommended by 3xLOGIC, is to use the 3xLOGIC (VSX-IP) Camera Setup Utility. The utility makes detection and configuration of VISIX camera's in any network environment simple and easy, regardless of network complexity.

Please install the camera before continuing. Neither of the below methods require an external internet connection, however, the camera and the PC being used to communicate with it must reside on the same network.

### MANUALLY IDENTIFY CAMERA IP ADDRESS (MAC ADDRESS HEX CONVERSION)

Users can access the camera's web interface and settings using a device's default IP address: In case of generic private network environment where IP address **192.168.XXX.XXX** are used, the following procedure can be used to identify a device's IP address.

### Steps:

 Convert the device's MAC address to the IP address. Refer to Section 8: <u>Hexadecimal-Decimal</u> <u>Conversion Chart</u> at the end of the manual (the MAC address of the device is written on the label affixed to the side or bottom of the device).



- 2). Start the Microsoft<sup>®</sup> Internet Explorer/Edge web browser and enter the address of the device.
- 3). Web streaming and device configurations are supported through ActiveX program. When the ActiveX installation window appears, authorize and install the ActiveX.

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#### AUTOMATICALLY IDENTIFY CAMERA IP ADDRESS WITH 3XLOGIC CAMERA SETUP UTILITY

Using the 3xLOGIC Camera (VSX-IP) Setup Utility is recommended for any network environment as it will find all VISIX cameras across multiple subnet masks, utilizing mDNS search discovery. Camera information such as IP Address, Subnet Mask and Gateway Settings will be displayed and can be edited from this utility. To search for a device, launch the utility (<u>VSXIPUtility.exe</u>):

#### Steps:

1). Click on **Detect Online Devices/ Change IP Address** to proceed to the Online Devices window.

3xLOGIC Camera Setup Utility			
Detect Online Devices / Change IP addres	ss Show Advanced Options >>		
IP Address	Port 8000		
User name admin	Password ****		
	Web Settings Video Preview		
Connect Update Firmware	Save to VIGIL Quit		
2015-09-11 10:10:58: Found Vigil.exe Versio	on:8.10.0082		

Figure 2-1: Detecting Online Devices

After clicking **Detect Online Devices/ Change IP Address** on the main page you will be taken to the Online Devices window. A list of all VISIX devices discovered on your network will be visible.

- 2). To select a device, click on the desired device in the generated menu under the **Select Online Devices** area.
- 3). To change an IP address for a selected VISIX camera in the Detect Online Devices window, select the desired camera, click on the Change IP Address button. The fields under the Configure IP Address area will un-grey to allow for manual editing of camera IP addresses as well as other settings.

Detect Online Devi	ces / Change IP addres	is		×
1. Select Online De	vices			
Device Type	IP Address	Port Number	Serial Number	Mask 🔺
001 VX-2A-IMD-X	10.1.13.45	80	0.0001/10	255.255.224
002 VX-3M-OD2-	RIAWD 10.26.167.61	8000	the second se	255.0.0.0
003 VX-3M-D2-RI	AWD 10.1.13.64	8000	Distance in a second	255.255.246
004 IPE3100M	10.1.12.68	80		255.255.248
005 WA-2AD3-1W	ID 10.20.107.00	00	And in case of the local division of the loc	255.0.0.0
007 Y5X-2MP-MV	D28 10.1.12.102	8000	Statute and statute	255.255.246
008 V5X-1.3MP-P	IR1012 10.1.13.103	8000	A REAL PROPERTY AND ADDRESS OF	255.255.248
009 V5X-2MP-MV	D28 10.1.15,104	8000	And the second s	255.255.248
010 V5X-2MP-D	10.1.12.107	8000	And the Real Property lies.	255.255.248
<b>I</b>	2			
Cameras Already C	onfigured in VIGI			
Server Channel	Device Type IP Ar	idress Pr	rt Number Serial Number	Mar
015	X-24-IMD-X 10.1	12 199 80	Terrariterio	255
0.0	10.1			200
•		1		Þ
2. Configure IP Ad	tress			
Serial Number		_	MAC Address	7 8 8 8 a
IP address	10 . 1 . 13 .	103		
Subnet mask	255 . 255 . 248 .	0	Device Port	8000
Default Gateway	10 . 1 . 10 .	254	User Name	admin
DNS Server			4Password	*****
Change IF	Addres	Save IP Addr	rss Cancel IE	Address Change
- Special Function: R	eset To Def. 2 Parsword -			
Password		Reset	Save to VIGIL	NEXT Cancel

Figure 2-2: Identifying Device IP Address

- 4). When you have finished editing the settings, click Save IP Address to save new changes.
- 5). Start the Microsoft<sup>®</sup> Edge/Internet Explorer web browser and enter the address of the device.

6). Web streaming and device configurations are supported through ActiveX program. When the ActiveX installation window appears, authorize and install the ActiveX.

### VIDEO PREVIEW USING THE 3XLOGIC CAMERA SETUP UTILITY

Amongst its many functions, the 3xLOGIC Camera Setup Utility can provide the user with a video preview from a currently selected device. This can be used to quickly confirm the correct camera has been located, and that it is successfully streaming/recording footage. To begin:

### Steps:

1). Click Detect Online Devices.



Figure 2-3: Video Preview - Detecting Online Devices

2). Double-click the camera you wish to video preview in the list of discovered devices.

Detect	Detect Online Devices / Change IP address					
1. Se	elect Online Devices					
	Device Type	IP Address	Port Number	Serial Number	Mask 🔺	
001	VX-2A-IMD-X	10.1.13.45	80	COMPACTOR .	255.255.224	
002	VX-3M-OD2-RIAWD	10.26.167.61	8000	ALCOHOLD COMPACING AND	255.0.0.0	
003	VX-3M-D2-RIAWD	10.1.13.64	8000	ALCOHOLD IN MUSIC AND	255.255.248	
004	IPE3100M	10.1.12.68	80	C MARKET C	255.255.248	
005	VX-2AD3-IWD	10.26.167.80	80	Press and a second s	255.0.0.0	
006	VSX-1.3MP-PIR12	192.168.0.101	8000	In March 1 and August Taxable	255.255.255	
007	VSX-2MP-MVD28	10.1.12.102	8000	An other distances of the local distances of	255.255.248	
008	V5X-1.3MP-PIR1012	10.1.13.103	8000	A REAL PROPERTY AND ADDRESS OF	255.255.248	
009	VSX-2MP-MVD28	10.1.13 104	8000	descent and	255.255.248	
010	VSX-2MP-D	10.1.12.107	8000	And the second second second	255.255.248	
Cameras Already Configured in VIGI Server						

Figure 2-4: Video Preview – Selecting Device

3). The 3xLOGIC Camera Setup Utility main page will now load with the chosen device selected. Click Video Preview.



Figure 2-5: Video Preview

#### NOTE:

Whether directly accessing streaming video through the camera web interface or taking steps through 3xLOGIC Camera Setup Utility, ActiveX must be installed for Microsoft<sup>®</sup> Internet Explorer to have the complete configuration privileges.



# **3** Accessing the Camera Browser Interface

Once the device's proper IP address has been identified, type the IP into a web browser URL bar (Microsoft Internet Explorer/Edge required for ActiveX control) to view the camera's browser interface and video stream images, configure image settings, configure VCA rules, etc...

## 3.1 Logging In to the Camera

Upon entering the device IP address into your browser URL bar, a login prompt similar to the example below will deploy (appearance will vary depending on PC operating system, browser version, etc...). The default username and password is **admin/12345**.

Authentication Required						
The server http://10.1.12.199:80 requires a username and password. The server says: administrator.						
User Name:	Admin					
Password: *****						
Log In Cancel						

Figure 3-1: Camera Login

After successfully clearing the first login attempt, a connection will be made between your system and the camera. A second login sequence will be required to access the camera's VIGIL web interface. If this is the first time initializing access to the camera on your current PC system, an ActiveX control installation pop up may deploy. ActiveX is required for viewing video in the browser.

#### **ACTIVEX INSTALLATION**



Figure 3-2: ActiveX (AxUMF.cab) Installation

### NOTE:

Depending on system OS and Internet Explorer version, installation experience may differ from one another. Figures described above are from Windows 7, Internet Explorer 9 environment.

Upon completion, the camera's web/browser interface will be fully accessible for video viewing and settings configuration.

## **4 Quick Start**

Contained within this section are quick start tips to help a user familiarize themselves with the basic operation of their VISIX V-Series All-in-One Camera. Please be sure to locate the camera on your network and access the camera's browser interface using the instruction in **Section 2:** <u>Identifying the Camera on your Network</u> and **Section 3:** <u>Accessing the Camera Browser Interface</u> before continuing through this section.

## 4.1 View Live and Playback (Recorded) Video

#### **VIEWING LIVE VIDEO**

After logging into the camera's browser interface, a user may view live video from the camera. To view live video:

#### Steps:

1). Select the Live tab at the top-left of the camera's browser interface.

Basic Live Search Setup	
1	VISIX Analytic Sensor
	Figure 4-1: Opening the Live Tab

2). This will open the camera's Live Viewer.



Figure 4-2: Live Tab

For more information on the Live tab user interface and options, see **Section 6.1**: <u>Live Tab</u>.

#### **VIEWING PLAYBACK VIDEO**

After logging into the camera's browser interface, a user may view playback video recorded by the camera.

#### Steps:

1). To view playback video, select the **Search** tab.



## **VISIX Analytic Sensor**

**3×LOGIC** 

Figure 4-3: Opening the Search (Playback) Tab

2). This will open the camera's Playback Search window.



- 3). Set the day (search time range is automatically set to the current day).
- 4). Click the context arrow to reveal all search results for the selected day. All search **Conditions** will be enabled by default. All available files, with an included thumbnail and file information, will be visible.



 I
 2
 3
 4
 Image: Height state
 Figure 4-4:
 Search Result Thumbnails



5). Click the 🔍 next to a file (thumbnail) to load and playback the video in the **Playback Viewer**.



Figure 4-5: Video File Playback

When viewing playback, the followings tools may be utilized:

Playback Tools	Description
9	Download a snapshot of the current frame to your local system.
٤	Download the clip to your current system
	View the video in full-screen mode
Automatic Playback Next File	Playback all available files sequentially in the order they were recorded.

6). Use the navigation controls at the bottom of the page to navigate multiple pages of search results.

For more information on the Search (Playback) Tab interface and functionality, see Section 6.2: <u>Search</u> (Playback) Tab.

## 4.2 Configure VIGIL Connect Alias

VIGIL Connect allows VIGIL VMS users to remotely connect to a VIGIL Server/V-Series All-in-One camera using the system serial number or a user defined VIGIL Connect **alias**, without the need for extensive changes to an existing network's settings. This allows for the device to be networked with other VIGIL suite utilities with little effort and minimal knowledge of the device's network connection values.

#### Steps:

1). To configure a VIGIL Connect alias, navigate to the camera's **Basic Tab>Camera Configuration** Menu>Site Information Settings page.

Basic Live Search Setup VISIX Analytic Senso			3×LOGIC	
Camera Status	Site Information			
Camera Configuration	Company Name :	3xLOGIC Engineering		
Site Information	Site Name :	Victoria office		
Time	Camera Name :	Developer Camera 1		
Users	VIGIL Connect Alias :	DevCam 1	×	
Video		Refresh Apply		
Network				
Maintenance				
Storage Configuration				

Figure 4-6: Configuring a VIGIL Connect Alias

- 2). Fill in the VIGIL Connect Alias field with an alias of your choosing.
- 3). Click Apply to save the new alias.

Your VISIX V-Series All-in-One camera can now be networked with other 3xLOGIC utilities and VIGIL suite applications (VIGIL Client, VIGIL VCM, View Lite II(Android and iOS), 3xCLOUD, etc...) using only the camera's VIGIL Connect Alias.

## 4.3 Configure a Video Analytics (VCA) Rule (Analytics License Required)

#### **ENABLING VCA**

Before configuring any analytics rules, VCA (video content analysis) must first be enabled on your All-in-One camera. An All-in-One Analytics license **is required** to configure and utilize VCA analytics rules on VISIX All-in-One cameras. To enable VCA:

#### Steps:

- 1). Navigate to the Setup (Advanced) Tab > VCA > Enable/ Disable settings page.
- 2). Check off **Enable** under the VCA Configuration section.

Basic Live Search Se	VISIX Analytic Sensor	3×LOGIC
Basic Configuration	VC2 outiguration	
• Video	✓ Enable	Go to Stream Configuration
• Event Configuration 3	VCA Features	
Network Configuration	☑ Object Tracking	
> Storage	Counting Line	
• VCA	Tracking mode	
Enable/Disable	Surveillance People Select surveillance tracking for introgen detection or outdoor scenes. Sele people in indoor scenes.	ect people tracking for tracking multiple
Maintenance	Apply Restore Defaults	
<ul> <li>Activation</li> </ul>	Figure 4-7: Enabling VCA Analytics	

After enabling VCA, several other configuration options will be deployed.

- 3). Under the VCA Features section, select active analytics type. For the purposes of this example, both Object Tracking and Counting Line will be enabled.
- 4). Under the Tracking Mode section, select the analytics tracking mode. In this example, the People tracking mode is selected (People tracking requires an Advanced analytics license. If using Surveillance tracking mode, the steps in this example are still accurate.)
- 5). Click **Apply** to save the new settings.

#### VCA ANALYTICS CALIBRATION

Another preliminary step before configuring VCA analytics rules is the need to calibrate the cameras for accurate analytics object recognition and tracking.

The calibration process includes configuring the correct camera angle and field of view, as well as the delineation of anticipated object (people, car, etc...) size. Proper calibration of the camera is required to ensure accurate analytics counts and tracking. To begin calibration:

#### Steps:

1). Navigate to the **Setup (Advanced) Tab > VCA > Calibration** settings page.



Figure 4-8: Calibrating Analytics

- 2). Adjust calibration settings as required. A user may perform basic calibration cameras via two separate methods:
  - i. **Click-and-Drag**. For this method, click and drag the green calibration grid to satisfactorily emulate the camera's height, tilt perspective, and field of view. The mimics may be moved around the image to help the user gauge perspective. The mouse scroll wheel is also utilized to adjust camera height, and consequentially the size of the calibration grid and mimics. Use resizing of these elements to anticipate average object size.
  - ii. **Manual Configuration** Manually enter/adjust calibration values under **Camera Setup**. As the user enters values, the calibration overlay on the live preview will react accordingly.
- If required, adjust Pan Angle and Roll Angle under the Advanced Parameters section using the slider bars. As the sliders are moved, the calibration overlay over the preview image will react accordingly. Advanced Parameters must be entered and <u>cannot</u> be adjusted using Click-and-Drag.

<b>Right-Click Option</b>	Description	
Virtual Ruler	Select this tool to anchor a virtual ruler from the point-of the right click. Drag your mouse across the image to extend the ruler. Use this feature to ensure accurate perspective calibration settings.	
Draw Horizon	Select this option to add a drawn horizon line to the calibration grid. This horizon line will be visible when the camera's tilt angle is twenty degrees or less.	
Transparent Grid (enabled by default)	Select this option to make the green calibration grid transparent.	
Add Mimic	Add another mimic to the live preview.	
Pause	Pause the live preview image on the current frame.	

Right-click within the video preview for the following calibration tools:

4). When you have calibrated the camera to your satisfaction, click **Apply** to save the new calibration settings.

#### VCA ANALYTICS RULE CONFIGURATION

After enabling VCA and calibrating your All-in-One camera, a VCA rule may be configured. For the purpose of this example, two separate rules: a basic counting line (tripwire) and a dwell time zone, will be configured separately.

#### **CONFIGURING A LINE (TRIPWIRE) WITH ON-SCREEN COUNTER**

#### Steps:

- To configure a VCA line, navigate to the Setup (Advanced) Tab > VCA > Zones and Rules settings page.
- 2). Right-click in the video preview area and select **Zone/Line>Create Line**.
- 3). Draw the line segment as desired by clicking to place both end points
- 4). Assign a Name and Color to the line.

Basic Live Search Setup



Figure 4-9: Configuring Analytics Rules

Now, the manner in which the line counts objects must be configured. The two most common counting methods using a line are:

- i. **Presence** Count will increase whenever an object makes contact with the line, regardless of direction.
- ii. **Directional** (located under **Counting Line**) Count increases when the line is crossed toward a defined direction.

In the above example and for the purpose of this instructional, directional counting is used. To proceed:

- 5). Under the Counting Line section of the line settings, check-off both Direction A and Direction
  B. In the above example, Direction A was renamed "Counting Wire 1 Out" and Direction B was renamed "Counting Wire 1 In" for easy recognition.
- 6). Click **Apply** at the bottom of the window to save the newly configured counting line.

The tripwire will now tally separate counts for both configured directions. To display counts for each direction on-screen, a VCA counter must be configured. To configure a counter for use with your counting line/tripwire:



7). Right-click within the viewing area and select Counter>Add Counter

Figure 4-10: Configuring a VCA Counter

- 8). Place the counter overlay in the desired position.
- 9). Assign a Name and Color (In Counter and green used in the above example, respectively).
- 10). Configure the counter's **Increment** rule
  - i. Check off Inc 0.
  - ii. Set the **Inc 0** value to the desired trip wire/counting line. In the above example, **Inc 0** is set to increment whenever **Counting Wire 1 In** is triggered.
- 11). Repeat Steps 7-12 to create a separate counter for Counting Wire 1 Out
- 12). Click **Apply** to save the new counter settings.

The tripwire should now count both directions and display counts via the configured counters. For instructions on previewing your analytics overlay, see <u>Previewing Analytics Overlay</u>.

#### **CONFIGURING A DWELL TIMER ZONE**

#### Steps:

- To configure a VCA Zone with Dwell Timer Alarm, navigate to the Setup (Advanced) Tab > VCA
   Zones and Rules settings page.
- 2). Right-click in the video preview area and select **Zone/Line>Create Zone**.
- 3). Draw the zone as desired by clicking and dragging each corner until a satisfactory shape and position is achieved.
- 4). Assign a Name and Color to the zone.



Figure 4-11: Configuring a VCA Dwell Timer Zone

- 5). Enable the **Dwell** rule.
- 6). Set an appropriate dwell **Threshold.** 5 seconds is used in the above example.
- 7). Click **Apply** to save the new zone settings.

An analytics dwell event(alarm) will now trigger whenever an object has spent more than 5 seconds in the defined zone. For instructions on previewing your analytics overlay, navigate to <u>Previewing Analytics</u> <u>Overlay</u>.

#### **PREVIEWING ANALYTICS OVERLAY**

#### Steps:

- 1). For a full live preview of your analytics overlay, select the Live tab.
- 2). In the Live viewer, right-click and select **Show Counter** and **Show Zones** to overlay counters and zones/lines.



Figure 4-12: Example 1 Counting Line (Tripwire) Analytics Overlay



Figure 4-13: Example 2 - Dwell Timer Zone Analytics Overlay

## 4.4 Integrating All-in-One Camera with VIGIL Server Using VIGIL Analytics Bridge

VIGIL Analytics Bridge allows stand-alone VCA analytics rules found on a 3xLOGIC VISIX All-in-One Camera web settings to be used and processed by a VIGIL Server and other VIGIL business intelligence products. Quick configuration within VIGIL Server and VIGIL Analytics Bridge is all that is needed to obtain analytics data directly from a 3xLOGIC All-in-One camera.

#### INSTALLATION OF ANALYTICS BRIDGE

The utilization of a 3xLOGIC All-in-One camera in VIGIL Server requires the installation of the VIGIL Analytics Bridge program on the same system as VIGIL Server. The Analytics Bridge installer can be downloaded <u>here</u> from **www.3xlogic.com**. Once it is successfully downloaded to your computer:

#### Steps:

- 1). Double click on VigilAnalyticsBridge.exe to begin the installation.
- 2). You will be prompted to close all VIGIL Services. Click **Close All** and follow the on-screen instructions to continue the installation process.

VIGIL Analytics Bridge	
Installing	I
Current File	
Copying file: C:\Windows\system32\Vigil Analytics Bridge\	/igilAnalytics.dll
All Files	
Time Remaining 0 minutes 4 seconds	
Wise Installation Wizard®	
	< Back Next > Cancel

Figure 4-14: VIGIL Analytics Bridge Installation Progress

3). Once the installation has completed, you will be prompted to reboot your system.



Figure 4-15: Post-Installation Reboot Pop-Up

4). Click **Reboot Now** to finalize the installation process.

#### **VIGIL SERVER CONFIGURATION**

To configure a network camera in VIGIL Server:

#### Steps:

- 1). Click on **Settings** in the icon menu toolbar on the VIGIL Server main screen. The **Settings** window will deploy.
- 2). Select the desired camera channel from the Cameras list.
- 3). Click the Network Camera checkbox.
- 4). Click the **Settings** button to launch the **Network Camera Settings** window. If **Network Camera** was not checked before the previous step, the **Network Camera Settings** window will have deployed automatically.

Quarted Settings       Media Drives       Comera Setup       Berver Settings       Media Drives       Comera Name:       Co	V 3xLOGIC Inc. VIGIL Server - VIGIL Server       Image: Constraint of the server - VIGIL SERVER - VIG
	Advanced settings       Media Drives       Comera Setup       Deal       Advanced settings       Deal       Advanced settings         Comera Setup       Deal       Comera Setup       Seture Setup       Setup Setup

Figure 4-16: Configuring a Network Camera

#### **VIGIL SERVER CONFIGURATION – NETWORK CAMERA SETTINGS**

The **Network Camera Settings** window is where the direct configuration of the 3xLOGIC All-in-One camera will take place.

#### Steps:

- 1). Fill in all the required information and press **OK**.
- 2). After the **Network Camera Settings** window closes, click **OK** or **Apply** to save the settings in VIGIL Server.

VIGIL Server is able to receive video from one or many network cameras connected to the LAN or WAN. VIGIL Server currently supports several types of network cameras aside from 3xLOGIC All-in-One Cameras.

To edit a network camera at any time after initial configuration:

#### Steps:

 Access VIGIL Server Settings>Camera Setup Tab, select the desired network camera and click the Network Camera Settings button. This will open the Network Camera Settings window.

#### NOTE:

The Network Camera feature disables the physical camera input on video capture cards for the selected camera channel.

Metwork Cam	nera Settings	×
Type:	3xLOGIC VSX-IP-A	Detect Cameras
Address:	10.1.12.143	Web Settings
Data Port:	80	
RTSP Port:	554	
Camera Number:	1	
URL:	rtsp://10.1.12.143/ch0_unicas	t_firststream
Stream Type:	H264 Main Stream 1	-
Timeout:	5	• s
User:	root	
Password:	***	
AZTech Recompr	ess	
Fast Decompress	ion	
DIO		
Audio Recording		
Camera Control		Γ
Audio Talk		Г
Sub Stream		
Enable Web Inter	face in Client	
Default Setti	ngs <u>O</u> K	Cancel

Figure 4-17: Network Camera Settings Window

Field	Description	
Туре	The type of network camera.	
Address	The IP or HTTP address of the camera. It is not necessary to include http:// at	
Address	the beginning of the HTTP address.	
Web/Camera	Connects to the camera's web interface to make changes to the camera's	
Settings	internal settings.	
Data / RTSP Port	The network ports used to connect with the camera.	
Camera Number	Some Network Camera types also support Encoders. Select the Camera number	
	on the encoder to use for this network camera.	
	Set this to the camera URL, if applicable. For 3xLOGIC All-in-One cameras, the url	
UKL	will be automatically set to rtsp:// [ip address] /ch0_unicasy_firststream	
Stream Type	Select the video stream type for the camera: MPEG4, JPEG, or H264.	
Timeout	The number of seconds to attempt to connect to the camera before timing out.	
	If the timeout is reached, "Signal Loss" displays in the Live Viewer window.	
User/Password	The user name and password to connect to the camera. The default values are	
	automatically entered.	

#### VIGIL ANALYTICS BRIDGE – LAUNCHING THE VIGIL ANALYTICS BRIDGE

Once the 3xLOGIC All-in-One camera has been configured in VIGIL Server, it must be configured in the VIGIL Analytics Bridge.

#### Steps:

1). To launch the Analytics Bridge, navigate to Start > All Programs>VIGIL and click VIGIL Analytics Bridge.

VIGIL BigLotsDeploymentUtility VIGIL Archive VIGIL Client	3×LOGIC
VIGIL Client	
🔤 VIGIL Server	Computer
🍌 Utility	Control Papel
🚉 Active Directory Manager	Concromenter
🔍 Audit Log	Run
🛃 Backup Utility	
💕 Database Manager	
🙋 DemoDVRLink	
V Player	
🐘 Settings Utility 🥢 👘 👘	
🐺 Site Map Designer 🛛 🗧 🔤	
🔮 Update Service 🛛 📥 🚽	
Dpdate	
VigilAnalyticsBridge	
K VSXIP Utility	
<ul> <li>■ Back</li> </ul>	
Search programs and files	Restart •
🖉 Start 🛛 💟 3xLOGIC Inc. VIGIL Serv 🛛 💟	; 🔣 3xLOGIC Inc. VIGIL Client

Figure 4-18: Launching VIGIL Analytics Bridge

2). If the Analytics Bridge UI does not deploy after launching from the Windows Start Menu, locate and double-click on the **Analytics Bridge** quick launch icon in the Windows Task Bar (pictured below).



Figure 4-19: VIGIL Analytics Bridge Quick Launch Icon

### CONFIGURING A 3XLOGIC ALL-IN-ONE CAMERA IN THE VIGIL ANALYTICS BRIDGE

The Analytics Bridge main screen is pictured below. All configuration of the Analytics Bridge takes place from this screen.

ॡ VIGIL Analytics Bridge		×
File Edit Help		
🐗 Add Device 🛛 🚝 Edit Device 🛛 🐙 D	velete Device 🛛 📙 Save Changes 🏼 🏹 Undo Changes	
Enabled VIGIL Camera Device Type	Status	
	·	
Figure	4-20: VIGIL Analytics Bridge Main UI	

Field	Description
Add Camera	Add/Edit camera opens the Add/Edit window, pictured below.
Delete Camera	Deletes the currently selected camera.
Enable All	Enable/Disable All. Enables and disables all cameras configured in VIGIL Analytics Bridge. Disabling the cameras will stop VIGIL from perceiving the camera's analytics data.
Save Changes	Saves any changes done after a new camera is configured. Will only appear after a new camera has been configured or an existing one has been edited.
Undo Changes	Undoes any configuration changes. Will only appear after a new camera has been configured or an existing one has been edited.
Enabled	Enabled cameras will send analytics data to VIGIL Server. Disabled cameras will continue to record as normal, but will not retain any analytics data.
VIGIL Camera	The name of the camera as defined in VIGIL Server.
Туре	The type of the camera: <b>3xLOGIC, SenTech Crosspoint, UDP or VideoIQ</b> . Select <b>3xLOGIC for 3xLOGIc All-in-One cameras</b> .
Status	Will display either <b>Receiving events</b> or <b>Stopped.</b> Related to whether or not the camera is enabled or disabled.

#### Steps:

1). To begin configuration of the 3xLOGIC All-in-One camera within VIGIL Analytics Bridge, click Add Device.

🖏 VIGII	. Analytics	5 Bridge		
File Edi	t Help			
aq Ad	d Device	rigi Edit	Device 💰	🏹 Delet
Enable	d WOLL	amera	Device Type	Sta
	7	1		

Figure 4-21: Adding a Device to VIGIL Analytics Bridge

2). The **Add/Edit Camera** window will appear, shown below. Fill in all the required information regarding the 3xLOGIC All-in-One camera and press **Load Device** for a video preview from the camera.

🚜 Add Device		×
Settings VIGIL Camera: Device Type: HTTP Port: Username: Password: Collect Counters: Display Counters in VIGIL Collect Statistics: Collect Statistics:	1 - Cam1       3xLOGIC       80       admin       ******       ✓       :       □       Load Device	
Event Triggers	Edit Delete	Raw Event Data           EVENT/1.0           ip=10.1.12.147           unitname=video           datetime=Thu May 4 20:41:17 2000           dts=957472877.582234           type=vca           info=ch=0&type=event&ev26533           [sts=begin,tp=dwell,zn=1,rl=2,bb=23441:37110:18984:44750,oc=0,           &timestamp=957472877.582135           id=31015476-1235-4884+F8C6-9AB78A723A76           rulesname=Loitering Test           rulesdts=957472877.582234           OK         Cancel

Figure 4-22: VIGIL Analytics Bridge - Add Device Window

Camera connection and configuration settings are described below:

Field	Description
VIGIL Camera	A dropdown list containing all of the cameras currently configured with VIGIL
	Server.
Device Type	The type of device/camera being edited or added. 3xLOGIC, SenTech Crosspoint,
Device Type	UDP or VideoIQ. Select 3xLOGIC for 3xLOGIc All-in-One cameras.
HTTP Port	One of two ports used to connect to the camera's analytics data.
Username	Username required to sign in to the camera.
Password	Password required to sign in to the camera.
<b>Collect Counters</b>	Enables the collection of data counters
<b>Collect Statistics</b>	Enables the collection of analytics statistics
Collected Data is	This feature prevents VIGIL Central Management from acquiring analytics
Private	information collected by the camera.
	Click this button after the other device/camera settings have been correctly
Load Device	input. The device/camera's feed will be displayed in the Live Video window to
	the right,if available.
Raw Event Data	Contains a raw dump of analytics event data coming from the camera.

<b>Event Triggers</b>	Description				
Detect	Detects any configured analytics rules located on the camera.				
Add	Manually adds a rule. Adding a rule will tell VIGIL Analytics Bridge to search for a rule of that name. It will not add the rule to the camera.				
Delete	Deletes a rule from VIGIL Analytics Bridge.				
Enabled	Enabling a rule allows VIGIL Analytics Bridge to monitor the matching rule in the camera and place analytics data in VIGIL Server's database. The name of the rule in VIGIL Analytics Bridge is case sensitive and must be identical to a corresponding rule in a camera.				
Silent	Enabling the <b>Silent</b> option will place analytics data for the associated rule into VIGIL Server's database, but will hide the rule from being seen by VIGIL Server.				
Private This field will indicate whether or not data from this camera is being co VIGIL Central Management (VCM).					
Name	The name of the rule. The rule name must be identical to a rule located on the camera. The name is case sensitive.				
<b>Display Options</b>	Lists any active display options.				

- 3). Once you have configured camera connection information, click the **Detect** button to detect the analytics rules currently configured on the camera. Whenever new rules are configured on the camera, the **Detect** functionality must be used to update the rules in the Analytics Bridge.
- 4). Click **OK** after detecting. The **Add/Edit Device** window will close.
- 5). On the main screen, click **Save Changes**. **Save Changes** will only appear when a camera has been added or edited. All new rule settings will be pushed to VIGIL Server.

ų	VIGIL A	Analytics Bridge	e				×
F	ile Edit	Help					
0	🐴 Add C	Device 🛃	Edit Device 🗳	💐 Delete Device	Save Changes	Undo Changes	
[	Enabled	VIGIL Camera	Device Type	Status		4	
		Cam1	3xLOGIC				
	<b>⊻</b> <del>∡</del>	Cam2	3xLOGIC				
	<b>☑</b> <del>∡</del>	Cam3	3xLOGIC				
J							

Figure 4-23: VIGIL Analytics Bridge - Saving Changes

Configuration is now complete. The VIGIL Server system will now record video and data based on the 3xLOGIC All-in-One camera's-detected analytics events.

## 4.5 Adding All-in-One Camera to VIGIL Suite Utilities

#### **VIGIL CLIENT - ADDING A V-SERIES ALL-IN-ONE CAMERA**

#### Steps:

- To interface a VISIX All-in-One Camera with VIGIL Client Launch VIGIL Client (Local Mode only; VCM mode will only display Servers from a networked VCM Server) and select Servers from the Servers top menu. This will launch the Servers window. VISIX All-in-One devices are considered edge recording devices, and thus are recognized as their own VIGIL Server within the VIGIL suite.
- 2). Click Add. This will deploy the Add/Edit VIGIL Server window.
- 3). Enable the **Use VIGIL Connect** option. If connecting using traditional network connection criteria is desired, enter the cameras **IP Address/DNS Name** and confirm TCP/IP port status.
- 4). Enter in the VIGIL Connect alias of the desired VISIX All-in-One camera (**VIGILTest1** used in the below example). Skip this step if using traditional network connection criteria (IP/Port).
- 5). Click **Test VIGIL Connect** to confirm the camera can be communicated with through the Connect system using the provided alias. Skip this step if using traditional network connection criteria (IP/Port).



Figure 4-24: Adding All-in-One Camera to VIGIL Client

6). If the test is successful, then VIGIL Client can successfully communicate with the Server. Click OK at the bottom of the Add Server window after configuring all required fields to save the new Server to VIGIL Client. For more information on configuring VIGIL Servers, please see Section 5.1 of the <u>VIGIL Client Users Guide.</u>

#### NOTE:

The camera will be visible in the Client treeview and will be represented by a Sicon. The camera video stream can be added to the VIGIL Client viewer in the same manner as VIGIL Server cameras; Simply extend the camera's drop-down menu and double click the icon to add it to the viewer. Alternatively, a user can drag-and-drop the camera stream icon into the desired frame of the VIGIL Client viewer.

For more information on configuring VIGIL Servers/V-Series All-in-One camera in VIGIL Client, please see **Section 5.1** of the <u>VIGIL Client Users Guide</u>.

#### VIGIL VCM - ADDING A V-SERIES ALL-IN-ONE CAMERA

#### Steps:

- 1). To add a VISIX All-in-One Camera to VCM for central management and health-monitoring purposes, launch a VCM Client.
- 2). Log into a VCM Server.

🛂 3xLOGIC Inc VIGIL Central Managen	nent - [Health Monitor]					
🕐 File View Server Group Tools	Window Help					
O C C C C C C C C C C C C C C C C C C C	ervers Server Users VI	LM Users Health Monito	Jobs Update	es V-POS Settings Refresh		
Server Groups	Add Server 🐴 Alerts		a 🕜 Server De	stails 📥 Print 👻 🔜 Expo	ort	
ј . 🛋 .						
Folder Group	Server Group Description	/ IP/DN5 Name		Status In Alert Since	Site Name	Version
Root Folder	💼 Add Server				<b>EX</b>	7.50.100
ACI Testing	Server Group	Details				N/A
Act resulty	Root Folder	Name:	All-in-One Camera	1	ver	8.50.000
Camera bervers	ACI Testing	Current Server Group:	EngineeringTestho	westTesthoves		7.50.100
Camera Servers	Comme Comme	current per ver droup.	7		6 Demo Site	8.50.000
Customers	Camera Servers	VCM Site ID:	$\sim$			
1 Demo Servers 4	Camera Servers	Use VIGIL Connect		8 VIGIL Camer	a 🗹	
Engineering	E Customers	Serial No./Alias	VIGILTest1	Test VIGIL G	ropert	
Testboxes	E Demo Servers					
Testboxes	Engineering	Administrator Login:	admin	Password: *****	60	
	Testboxes	Dialup Entry:	No Dialup Connecti	ion	-	
	Testboxes	Health Monitor	Settings	Central Data		
				Manage Analytics		
		Manage Server Users		Manage Audit Data		
		Enable Automatic Updates		Summary Data Only		
		Extract Still Images on Schedule		Manage POS/ATM Data		
		Sync Time with VCM Server	V	Manage Other Data		
		Server Time Zone:			<b>_</b>	
				10 de la de data a de la de		
				Automatically warner bock for daylight saving	changes	
	Save as Default			OK _	Cancel	

Figure 4-25: Adding an All-in-One Camera to VCM

- 3). Click the Health Monitor button.
- 4). Select (left-click) a **Server Group** from the **Server Groups** sidebar to. The **All-in-One** camera will be added to this group.
- 5). Click the Add Server button (only available after selecting an applicable Server Group). This will launch the Add/Edit Server form. VISIX All-in-One devices are considered edge recording devices, and thus are recognized as their own Server within the VIGIL suite, including VCM.
- 6). Check off **VIGIL Camera.** This will indicate to VCM that the device you are adding is a VISIX allin-One camera.
- 7). Check-off Use VIGIL Connect. Alternatively, if you wish to use traditional network connection criteria, leave Use VIGIL Connect disabled and enter in IP/DNS Name and Port info (if using standard network connection values, also ignore step 8 of these instructions) for the device.
- 8). Enter the VIGIL Connect alias of the All-in-One camera in the Serial No./Alias field.
- 9). After entering an alias, click Test VIGIL Connect to ensure successful communication with the VIGIL Connect system.
- 10). Fill in all remaining required fields and click **OK** to add the camera to your list of centrally managed VIGIL Servers/VISIX All-in-One cameras.

If you experience issues connecting to the All-in-One camera in VCM, confirm the alias that has been entered is correct. If all settings appear to be correct, contact 3xLOGIC for further instruction or reference <u>Tech Tip 140028 VIGIL Connect Troubleshoot Guide</u> for troubleshooting tips.

#### 3XLOGIC VIEW LITE II MOBILE (ANDROID AND IOS) – ADDING A V-SERIES ALL-IN-ONE CAMERA

#### Steps:

- 1). To interface a VISIX All-in-One camera with 3xLOGIC's View Lite II mobile app, launch the View Lite II app on your mobile device (Android OS is pictured in the below screenshot, however, the process is identical in the iOS version).
- 2). Tap the 😟 icon to deploy the **Settings** menu.
- 3). Tap the **Servers** menu option.
- 4). Tap **Add VIGIL Server**. This will launch the **Add VIGIL Server** form. VISIX All-in-One devices are considered edge recording devices, and thus are recognized as their own VIGIL Server within the VIGIL suite, including View Lite.

3x1	Logic	3xLO	GIC	3xLOGIC Settings	3xlogic	3xLOGIC sree
		VIGIL	. Se	rvers		
3) 1979	<b></b>	Add	VIGI	L Server		- <b>IC</b>
l	De	ption	Der	noSite		- 1
3) 186	vio	GIL Co	nne	ct	6	IC force
	Alias/	Serial	VIG	GILTest1 🧳		-
	User N	lame	adr	ninistrator		_
3) 1000	Passw	vord	•••	•		7
	Car	ncel		Scan	Sa	ve
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				Ø []		Ċ.
		$\triangleleft$		0		]

Figure 4-26: Adding an All-in-One Camera to View Lite II

- 5). Enable **VIGIL Connect.** Alternatively, if you wish to use traditional network connection criteria, leave **VIGIL Connect** disabled and enter in an **IP/DNS Name** and **Port** info (if using standard network connection criteria, also ignore step 6 of these instructions) for the device.
- 6). Enter in the VIGIL Connect alias for the desired VISIX V-Series All-in-One camera (VIGILTest1 used in the above example).
- 7). Fill in the remaining required fields and tap **Save** to save the All-in-One camera to View Lite II. A user may now add the camera stream to the View Lite viewer using the same process as adding VIGIL Server or 3xCLOUD networked cameras.

#### 3XCLOUD CROSS-PLATFORM WEB CLIENT – ADDING A V-SERIES ALL-IN-ONE CAMERA

#### Steps:

1). To interface a VISIX All-in-One camera with a 3xCLOUD web client account, login to your 3xCLOUD account (<u>www.3xlogiccloud.com</u>).

3× 3xCLOUD ×		Brendan	- 🗆 ×
← → C A D https://www.3xlogicclo	ud.com/webclient/modules/client.php	नि 🛠 🜠 ।	<b>0</b> ≡
<ul> <li>C M https://www.3xlogicclov</li> <li>Stocic</li> <li>Stocic</li> <li>Stateo</li> <li></li></ul>	ud.com/webclient/modules/client.php	Image: state	Eutrice

Figure 4-27: Adding an All-in-One Camera to a 3xCLOUD Account

- 2). Click the soutton to open the Settings menu.
- 3). Select the Servers icon.
- Click the + Add Servers.. button (not pictured above). This will deploy the Add/Edit VIGIL
   Server form. VISIX All-in-One devices are considered edge recording devices, and thus are recognized as their own VIGIL Server within the VIGIL suite, including 3xCLOUD.
- 5). Click the By Serial No./Alias tab to configure the Server with a VIGIL Connect alias. If using traditional network connection criteria is desired, click the By IP Address and Port button enter in an IP and Port info (if using standard network connection criteria, also ignore step 6 of these instructions) for the device.
- 6). Enter the VIGIL Connect alias of the desired All-in-One camera in the **Serial No./Alias** field (VIGILTest1 used in the above example).
- 7). Fill in all required fields and click **Add** to save the All-in-One camera to your 3xCLOUD VIGIL Server list.

The All-in-One camera should now be available to add to your 3xCLOUD layout. If you experience connection issues, confirm the connection info (IP Address and Port/VIGIL Connect Alias) you entered is correct. If all settings appear to be correct, contact 3xLOGIC for further instruction or reference <u>Tech Tip</u> <u>140028 VIGIL Connect Troubleshoot Guide</u> for troubleshooting tips.

## 4.6 Reboot and Reset to Factory Default Procedures

#### **REBOOTING THE CAMERA USING THE RESET BUTTON**

#### Steps:

- Press the reset button for <u>2 seconds</u> while the device is active. See the VISIX V-Series All-in-One Camera Hardware and Installation Manual for the location of your particular camera model's *Reset* button.
- 2). Wait for the system to reboot.

#### NOTE:

Please do not hold the reset button for more than 2 seconds. Otherwise, the camera may be switched to its Factory Default settings.

#### **REBOOT THE CAMERA USING THE 3XLOGIC CAMERA SETUP UTILITY**

#### Steps:

- 1). Open the <u>3xLOGIC Camera (VSX-IP) Setup Utility</u>.
- 2). Select your device.
- 3). Open Advanced Settings.
- 4). Click Reboot.

#### **REBOOT THE CAMERA VIA WEB BROWSER INTERFACE**

#### Steps:

- 1). Login to the cameras web browser interface.
- 2). Navigate to Basic Tab> Camera Configuration Menu > Maintenance.
- 3). Click the **Reboot** button.
- 4). You will be prompted to confirm the reboot process. Click **OK** to proceed.

#### **RESETTING CAMERA SETTINGS TO FACTORY DEFAULT**

Resetting the device back to the factory default will reinitialize all parameters including the IP address back to the factory defaults. To reset back to the factory default:

#### Steps:

- 1). Press the reset button and hold it while the device is in use.
- 2). Release the button after 10 seconds.
- 3). Wait for the system to reboot.

Factory Default Connection Settings				
IP address	192.168.хх.уу			
Network Mask	255.255.0.0			
Gateway	192.168.0.1			
Username	Admin			
Password	12345			
# **RESET TO FACTORY DEFAULT SETTINGS VIA CAMERA WEB INTERFACE**

### Steps:

- 1). Login to the camera's browser interface.
- 2). Navigate to Basic Tab> Camera Configuration Menu > Maintenance settings form.
- 3). Click the Reset Camera Settings button.
- 4). You will be prompted to confirm the factory reset process. Click **OK** to proceed.

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# **5** Basic Tab

The initial landing page of the VISIX V-Series All-in-One Camera web interface is the **Basic Tab > Camera Status > Status** page.

# NOTE:

Some UI components (logo, page title, location of minor settings within page hierarchy, etc...) may vary depending on firmware series version, VIGIL software version, and licensing. However, operation of all components and settings, regardless of their location within the UI remains unchanged.

# 5.1 Camera Status Menu

# **STATUS**

#### Steps:

1). The **Basic Tab>Camera Status > Status** page is the initial landing page after logging into the camera. This page provides at-a-glance information regarding the camera's configuration and status, as well as storage status.

Basic Live Storage S	VISIX Analytic Sensor 3×LOGIC
Camera Status	Camera Information
Status	Camera Model: FULL HD INDOOR / OUTDOOR IR BULLET IP CAMERA Firmware Version: 1.9.2.4
Camera Configuration	VIGIL Software Version: 8.00.0015 MAC: 0013230822D3
Storage Configuration	VIGIL Connect Alias: Backdoor
	Company Name: 3xLogic Site Name: Engineering Labs Camera Name: Back Door
	Camera Status
	Camera Current Time: 2015/11/06 20:22:10 Time Zone: (UTC) Coordinated Universal Time
	CPU : 38% Memory : 122 / 215 MB
	UPnP Status: The detected router on the network does not support UPnP. Ports will not be automatically forwarded. As an alternative, the VIGIL Connect Relay Server will be used. As a result, streaming live or playback footage across the internet from this camera may have slover performance then if the camera's ports were forwarded on your router. Please manually forward the associated ports for the camera on your router to improve streaming performance.
	Storage Status
	Storage Device Status: connected
	Total Capacity: 60905 MB Free Space: 43114 MB
	Recorded Footage Date/Time Range: Oldest Footage: 2015-07-24 23:33:34 Newest Footage: 2015-07-29 21:43:23

Figure 5-1: Basic Tab – Camera Stratus-Status Page
--

Status Indicator	Description			
Camera Information	The <b>Camera Information</b> section provides at- Camera Model VIGIL Software Version VIGIL Connect Alias Site Name	a-glance information regarding: Camera Firmware Version Camera MAC Address Company Name Camera Name		
Camera Status	The Camera Status section provides at-a-glance information regarding:         Camera Current       Timezone         CPU Usage %       Memory Availability         UPnP Status       Internet Connection Status			
Storage Status	The Storage Status section provides at-a-glance information regarding:         Storage Device Status         Free Space         Free Space			



# 5.2 Camera Configuration Menu

# SITE INFORMATION

# Steps:

1). Opening the **Basic Tab>Camera** Configuration drop-down menu and clicking the **Site Information** link will open the **Site Information** settings page.

Basic Live Storage Se	VISIX Ar	alytic Sensor	3×LOGIC
Camera Status	Site Information		
Camera Configuration	Company Name :	3xLogic	
Site Information	Site Name :	Engineering Labs	
Time	Camera Name :	Back Door	
Users	VIGIL Connect Alias :	Backdoor	
Video		Defeet	
Network		Kerresh Apply	

Figure 5-2: Basic Tab – Camera Configuration – Site Information Form

2). From the Site Information page, a user may edit site information settings

Configuration settings including:

Field	Description		
Company Name	The name of the company that owns the camera.		
Site Name	The name of the field site in which the camera is deployed.		
Camera Name	The name of the cameras. This will be used to identify the camera throughout the VIGIL software suite.		
VIGIL Connect Alias	VIGIL Connect allows VIGIL VMS/VISIX V-Series All-in-One users to remotely connect to a VIGIL Server/V-Series All-in-One camera using the system serial number or a user defined VIGIL Connect <b>alias</b> , without the need for extensive changes to an existing network's settings.		

3). After finishing configuration, click **Apply** to save the new settings.

#### TIME

#### Steps:

1). Opening the **Basic Tab>Camera Configuration** drop-down menu and clicking the **Time** link will open the **Time** settings page.

Basic Live Storage :	VIS	IX Analytic Sensor	3×LOGIC
Camera Status     Camera Configuration	Current Camera Tim 2015/11/06 20:24:39	ie 9	
Site Information	Configuration		
Time	Time zone :	(UTC) Coordinated Universal Time	~
Users		Apply	
Video			
Network			
Maintenance			
Storage Configuration			

Figure 5-3: Basic Tab – Camera Configuration – Time Settings

2). From the **Time** page, a user may view the camera's current time or choose the camera's time zone. After finishing configuration, click **Apply** to save the new settings.

## NOTE:

Advanced time settings (manual time configuration, time synchronization method, etc...) can be configured from the **Advanced Tab> Basic Configuration Menu>Time** page.

# USERS

#### Steps:

1). Opening the **Basic Tab>Camera Configuration** drop-down menu and clicking the **Users** link will open the **Users** settings page.

Basic Live Storage	VISIX Analytic Sensor	3×LOGIC
Camera Status	User List	
<ul> <li>Camera Configuration</li> </ul>	admin Administrator	
Site Information		
Time		
Users		
Video		
Network	Attention: Your changes will take effect after one minute.	
Maintenance	Add Modify Remove	
Storage Configuration		

Figure 5-3: Basic Tab – Camera Configuration - Users Settings

2). From the **Users** page, a user may view the camera's list of user profiles. A user may also add, modify or remove a user profile. Details regarding each action are outlined in the proceeding sub-sections of this manual.

## **ADD A USER**

#### Steps:

1). Click the Add... to add a new user profile. The Add User form (pictured right) will deploy.

		Add User
Form Field	Description	User name :
		Password :
Username and Password	Enter a username and	Confirm password :
	password for the new user.	User group
	Confirm the previously	Viewer
Confirm Password	entered password.	Operator
User Group	Choose a User Group for	Apply
User Group	the user.	Figure 5-4: Add a User

2). After finishing configuration, click **Apply** to save the new settings.

## **MODIFY A USER**

### Steps:

1). Click the **Modify...**button to modify an existing user profile. The **Modify User** form (pictured right) will deploy.

		Modify User	
Form Field	Description	User name :	admin
		Password :	
Licornamo and Bassword	Enter a username and	Confirm passwor	d:
Osemane and Password	password for the new user.	User group	
	Confirm the previously		○ Viewer
Confirm Password	entered password		Operator
			<ul> <li>Administrator</li> </ul>
User Group	Choose a User Group for		Apply
User Group	the user.	Figur	e 5-5. Modify a Liser

2). After finishing configuration, click **Apply** to save the new settings.

# **REMOVE A USER**

#### Steps:

- 1). Click the **Remove** button to remove an existing user profile. This action is only available when a user profile is selected in the list.
- 2). You will be prompted for a confirmation before finalizing the removal.

## VIDEO

# Steps:

1). Opening the **Basic Tab>Camera Configuration** drop-down menu and clicking the **Video** link will open the **Video** settings page.

Basic Live Storage	Setup	Analytic Sensor	3×LOGIC
Camera Status	Main Stream		
<ul> <li>Camera Configuration</li> </ul>	✓ Enable streaming		
Site Information	Resolution :	1920X1080	
Time	Max. FPS :	30 (1 30 fps)	
Users	Sub Stream		
Video	Enable streaming		
Network	Resolution :	1280X720 💌	
	Max. FPS :	15 (1 30 fps)	
<ul> <li>Storage Configuration</li> </ul>	The expected codec usage	: 100%	
			Apply

Figure 5-6: Basic Tab – Camera Configuration – Video Settings

From the Video page, a user may edit a camera's Main Stream and Sub Stream video settings.

Stream Settings	Description
Enable Streaming	Check this box to enable the chosen stream.
Resolution	Set the chosen stream's resolution. Full-resolution is generally reserved for main-stream. A smaller, less data-intensive resolution is generally reserved for sub stream.
Max FPS	Set the camera's maximum Frames-Per-Second value. A higher FPS is generally reserved for main stream, while a lower, less data-intensive value is generally reserved for sub stream.



## **NETWORK**

### Steps:

1). Opening the **Basic Tab>Camera Configuration** drop-down menu and clicking the **Network** link will open the **Network** settings page.

<mark>3asic</mark> Live Storage S	VISIX Analytic	Sensor	3×LOGIC
Camera Status	IP Address Configuration		
<ul> <li>Camera Configuration</li> </ul>	Obtain an IP address via DHCP		
Site Information	IP address : Subnet mask :	0.0.0.0	
Time	Gateway address :	0.0.0.0	
Users Video	Use the following IP address IP address :	10 . 1 . 12 . 152	Test Okay
Network	Subnet mask :	255.255.254.0	
Maintenance	Gateway address :	192.168.0.1	
Storage Configuration	DNS Configuration		
	Primary DNS server :		
	Secondary DNS server :		
	Port Configuration		
	VIGIL Data Port : 22801	]	
		Apply	

Figure 5-7: Basic Tab – Camera Configuration – Network Settings

2). From the Network settings page, a user may edit a camera's IP Address Configuration, DNS Configuration and Port Configuration.

Network Setting	Description
IP Address Configuration	Select the method by which the cameras will obtain an IP address:
	Obtain an IP Address via DHCP – Select this method to have your router's DHCP function automatically assign the camera's network connection settings. This method is enabled by default. The automatically-generated IP, Subnet Mask and Gateway addresses will be listed directly underneath.
	Use the following IP Address (Manual Configuration) – Select this option to manually enter network connection settings. IP Address, Subnet Mask and Gateway Addresses can be manually entered directly underneath this settings. Clicking the <b>Test</b> button will confirm the validity of the network connection values you have entered.
DNS Configuration	Enter in <b>Primary</b> and <b>Secondary DNS Server</b> connection information.
Port Configuration	Select the <b>VIGIL Data Port</b> . <b>22801</b> is the default and is the recommended port number by 3xLOGIC.

## MAINTENANCE

## Steps:

1). Opening the **Basic Tab>Camera Configuration** drop-down menu and clicking the **Maintenance** link will open the **Maintenance** settings page.

Basic Live Storage S	VISIX Analytic Sensor	<b>3×LOGIC</b>
Camera Status	Upload Firmware Image	
<ul> <li>Camera Configuration</li> </ul>	Firmware Version : 1.9.2.4(Limited Release)	
Site Information	VIGIL Software Version : 8.80.0001 Select update file: Browse	
Time	Divise	
Users	Reboot	
Video	Reboot	
Network	Reset Camera Settings	
Maintenance	Recording Configuration : Default	
Storage Configuration	Reset Camera Settings	
	Automatic Firmware Upgrade	
	Enable automatic firmware upgrade     Apply	

Figure 5-8: Basic Tab – Camera Configuration – Network Settings

2). From the **Maintenance** settings page, a user may perform basic maintenance functions such as pushing a firmware or VIGIL software update to the camera, reboot the camera or reset the camera to factory default settings.

Maintenance Setting	Description
Upload Firmware Image	The current firmware and VIGIL software version of the camera is listed: Click the <b>Browse</b> button to open a file browser and locate the firmware update file.
Reboot	Click the <b>Reboot</b> button to restart the device. You will be prompted to confirm the reboot process. Click <b>OK</b> to proceed.
Reset Camera Settings	Click the <b>Reset Camera Settings</b> button to reset all custom configured settings to factory default. You will be prompted to confirm the factory reset process. Click <b>OK</b> to proceed.
Automatic Firmware Upgrade	Enable automatic firmware upgrade. The camera will poll an update cloud server hosted by 3xLOGIC for new firmware and will apply an update when available.

# 5.3 Storage Configuration Menu

# **SD CARD**

## Steps:

1). Opening the **Basic Tab>Storage Configuration** drop-down menu and clicking the **SD Card** link will open the **SD Card** settings page.

Basic Live Storage S	VISIX Anal	ytic Sensor 3×LOGIC
Camera Status	SD Storage List	
Camera Configuration	Choose a storage device	Detail storage information
<ul> <li>Storage Configuration</li> </ul>	Disk Size	
SD Card	MMC 60905MB	Disk : MMC
55 Card		Type : vfat
		Total capacity : 60905MB
		Free space : 43114MB
		Status : connected
	Refresh SD Device List	
	Record Device Control	
	Format(vfat) Format(ext3)	Mount Eject

Figure 5-9: Basic Tab – Storage Configuration – SD Cards Settings

2). From the **SD Card** storage settings page, a user may choose their SD storage device, view information on the chosen device, change storage format or mount and eject storage devices.

# **SD STORAGE LIST**

In the **SD Storage List** section, a user may select their desired storage device from the list. The following device details will be generated to the right of the device list after making a selection.

Storage Detail	Description
Disk	The storage device disk type of the selected device.
Туре	The storage disk format of the selected device.
Total Capacity	The totally storage capacity of the selected device.
Free Space	Lists the remaining free space on the selected device.
Status	Current storage device status.

# **RECORDING DEVICE CONTROL**

In the **Record Device Control** section, a user may select the desired storage format (vfat, ext3) and can also mount an inactive storage device or eject the currently active storage device.

Device Control	Description
	Use <i>vfat</i> format for the selected device. Format progress will be displayed.
Format (vfat)	WARNING: Re-formatting the storage device will wipe all stored footage. Download any footage you wish to retain before beginning the format process.
	Use <i>ext3</i> format for the selected device. Format progress will be displayed.
Format (ext3)	WARNING: Re-formatting the storage device will wipe all stored footage.
	Download any footage you wish to retain before beginning the format process.
Mount	Mount the currently selected device. This option is only available if the
	currently selected device is inactive.
Eject	Eject the currently selected device. This option is only available if the selected
	device is mounted.

# 6 Live and Search (Playback) Tabs

# 6.1 Live Tab

After logging into the camera's browser interface, a user may view live video from the camera. To view live video:

# Steps:

1). Select the Live tab at the top-left of the camera's browser interface.



This will open the camera's Live Viewer.



Figure 6-2: Live Tab

#### LIVE VIEWER – OPTIONS PANEL – OPTIONS TAB

#### Steps:

1). Clicking the **Panel** button and selecting the **Options** tab will open the **Options** panel.

Option Status	
Stream	
Unicast - 1st (T	CP) 🗸
✓ Video	
Size	
Fit V Full	
Video Control	
Record	Snapshot
Pause Setting	
Figure 6-3: Live Tab Options	

Live Viewer options are described below:

Option	Description	
Stream	Select the stream and protocol type (UDP or TCP). <b>Unicast and Multicast</b> (UDP only) stream types can be selected can be applied to either the 1 <sup>st</sup> (Main) or 2 <sup>nd</sup> (Sub) streams. <b>EXAMPLE:</b> If a user selects <b>Unicast – 2<sup>nd</sup> (TCP)</b> the live stream will be unicast, using 2 <sup>nd</sup> (sub) stream profile settings and UDP as its transmission layer protocol	
Size	Select the video size. Select <b>Fit</b> to stretch the image to fit your browser. Select a percentage to display the image at the selected percentage of its native resolution.	
Video Control	<ul> <li>Live view video controls are as follows:</li> <li>Record – Click Record to begin recording a footage file separate of recording settings or the current recording mode. When you have recorded sufficient footage, click the Stop button. The recorded file will be automatically downloaded to your local system's My Document/Documents folder by default. This destination can be edited in the Video Options Panel&gt;Settings interface.</li> <li>Pause – Pause the live viewer on the current frame</li> <li>Snapshot - Click Snapshot to capture a still image of the current live frame. The snapshot will be automatically downloaded to your local system's My Document/Documents folder by default. This destination can be edited in the Video Options Panel&gt;Settings interface.</li> <li>Settings –Click this button to open the live video settings window. From this window, Local Recording and Snapshot settings can be configured.</li> <li>a. Local Recording – Edit local recording settings including local recording destination (click Browse and select a destination on your local system), filename prefix, recording resources and maximum file size/duration. See Section 0 for more detailed information regarding recording settings.</li> <li>Snapshot – Edit snapshot settings including snapshot export destination (click Browse and select a destination on your local system), and filename prefix.</li> </ul>	

#### LIVE VIEWER – OPTIONS PANEL – STATUS TAB

#### Steps:

1). Clicking the **Panel** button and selecting the **Status** tab will open the **Status** panel. From the **Status** panel, a user may view the below at-a-glance information related to the live video stream.

Option Status System CPU : 90% Memory : 53%	Second Stream Type : H264 Resolution : 320X180 Fps : 12 Bitrate : 75kbps Snapshot
Time Uptime : 01:07:17 First Stroom	Type : MJPEG Resolution : 640X360 Fps : 2 Bitrate : 620kbps
Type : H264 Resolution : 1920X1080 Fps : 6 Bitrate : 2808kbps	Total : 5 10.1.11.6 : 60896 10.1.11.67 : 64019 10.1.11.206 : 16282 10.1.11.206 : 16515 10.1.11.206 : 16515

Figure 6-4: Live Tab Status

# 6.2 Search (Playback) Tab

After logging into the camera's browser interface, a user may search for and view playback (recorded) footage from the camera. To open the Search tab:

#### Steps:

1). Select the Search tab link at the top-left of the camera's browser interface.



**VISIX Analytic Sensor** 



Figure 6-5: Opening the Search (Playback) Tab

This will open the Playback Search form and viewing area.



#### Figure 6-6: Search (Playback) Tab

Search Tools	Description
2016-01-21 🔊	Select the date (timerange) for your search. Footage will be searched from 00:00-24:00 on the selected day.
iiΩ	Click this button to re-run the search using any new search parameters that have been changed.
Conditions	Conditions can be used similar to traditional search filters. Selecting specific conditions will filter out any footage files that do not meet the conditional requirements. (e.g. If VCA and Motions are selected, then only playback clips recorded due to VCA and/or Motion event triggers will be returned by the search. All search Conditions will be enabled by default.). The background color of each conditional check-box will also be used to identify clips of a specific condition within the visual search result timeline.

When searching for playback, the following controls may be utilized:

When the Search tab opens initially, a search using all Conditions will be performed by default.

To perform a custom search:

## Steps:

- 1). Set the day (search time range is automatically set to the current day).
- 2). Select your desired conditions
- 3). Click the <sup>110</sup> button to run the search.

A **Visual Search Result Timeline** (see below example), color coded according to conditions, will be visible. Click within the timeline and use the mouse scroll-wheel to zoom in and out of the timeline to expand or narrow down the visible time range.



Figure 6-7: Visual Search Result Timeline and Search Result Thumbnails

4). Click the context arrow to reveal all search results as thumbnails.

File Control	Description	
🗂- Download	Download the file to your browsers Downloads directory.	
🕑 - Playback File	Playback the file in the viewer.	
Recording File Info	Mouse-over this icon to deploy a pop-up featuring metadata and duration info for the selected footage.           Recording File Information           Description(md): zone1, status=detect           Duration: 00:00:13	

Each search result thumbnail features the following file controls:

5). To playback video, click the 🕑 button next to the search result thumbnail for the desired file. The file will begin playback in the viewing area.



Figure 6-5: Video File Playback

# When viewing playback, the followings tools may be utilized:

Playback Tools	Description
	Standard playback controls: Play, Stop, Pause.
0	Click this button to download a snapshot of the current frame to your local system.
8	Click this button to download the clip to your current system
	Click this button to view the video in full-screen mode
Automatic Playback Next File	Check-off this box to playback all available files sequentially in the order they were recorded. A file must be selected and manually started to begin the sequence.

6). Use the navigation controls at the bottom of the page to navigate multiple pages of search results.

# 7 Setup (Advanced) Tab

To configure advanced device settings, select the **Setup** (displayed as **Advanced** on some firmware versions) tab.

Basic	Live	Storage	Setup	
			1	

VISIX Camera



Figure 7-1: Opening the Setup (Advanced Settings) Tab

The left-side drop-down menu will now be populated with several new settings categories for advanced users wishing to customize advanced image/video, network, event, VCA and maintenance settings.

# 7.1 Basic Configuration Menu

## USERS

Steps:

1). Opening the **Setup Tab>Basic Configuration** drop-down menu and clicking the **Users** link will open the **Users** settings page.

Basic Live Storage	VISIX Camera	3×LOGIC Intelligent Video Surveillance
<ul> <li>Basic Configuration</li> </ul>	Setup > Maintenance > Users	
Users TCP/IP Date & Time	User List admin Administrator	
Focus Assist	Attention: Your changes will take effect after one minute	
Event Configuration     Network Configuration	Add Modify Remove	
VCA     Peripheral     Maintenance     Activation     About	Enable anonymous viewer login (no user name or password require     Apply	ed)

Figure 7-2: Setup Tab – Basic Configuration Menu – Users Settings

2). From the Users page, a user may view the camera's list of user profiles. A user may also add, modify or remove a user profile. Details regarding each action are outlined in the proceeding sub-sections of this manual. User settings can also be edited from the Basic Tab>Camera Configuration>Users settings page.

#### ADD A USER

Steps:

1). Click the Add... to add a new user profile. The Add User form (pictured right) will deploy.

Form Field	Description
Username and Password	Enter a username and password for the new user.
Confirm Password	Confirm the previously entered password.
User Group	Choose a User Group for the user.



2). After finishing configuration, click **Apply** to save the new settings.

# **MODIFY A USER**

# Steps:

1). Click the **Modify...**button to modify an existing user profile. The **Modify User** form (pictured right) will deploy.

		Modify User
Form Field	Description	User name : admin
Username and Password	Enter a username and password for the new user.	Confirm password :
Confirm Password	Confirm the previously entered password.	<ul> <li>Viewer</li> <li>Operator</li> <li>Administrator</li> </ul>
User Group	Choose a User Group for the user.	Apply C Figure 7-4: Modify a User

2). After finishing configuration, click **Apply** to save the new settings.

# **REMOVE A USER**

# Steps:

- 1). Click the **Remove** button to remove an existing user profile. This action is only available when a user profile is selected in the list.
- 2). You will be prompted for a confirmation before finalizing the removal.

# **USER AUTHENTICATION**

# Steps:

1). Check-off **Enable Anonymous Viewer Login** to enable anonymous viewing (no username or password required) of the camera's live view.

# TCP/IP

# Steps:

1). Opening the **Setup Tab>Basic Configuration** drop-down menu and clicking the **Users** link will open the Users settings page.

	VISIX Camera	Intelligent Video Surveillan
Basic Configuration	Setup > Network Configuration > TCP/IP	
	IP Address Configuration	
Users	Enable IPv4	
TCP/IP	Obtain an IP address via DHCP	
Date & Time	IP address : 0 . 0 . 0 . 0	
Stream	Subnet mask : 0 . 0 . 0 . 0	
Focus Assist	Gateway address : 0 . 0 . 0 . 0	
Video	Use the following IP address	
	IP address : 10 . 1 . 12 . 152 Test	
Event Configuration	Subnet mask : 255.255.254.0	
Network Configuration	Gateway address : 192.168.0.1	
VCA	Enable IPv6	
Peripheral	DNS Configuration	
Maintenance	Primary DNS server :	
Activation	Secondary DNS server :	
About	Host Configuration	
	Host name : VX-2A-8-IWD	
	Link-Local Address	
	Enable Auto-Configuration link-local address	
	IP address : 169.254.6.25	
	Subnet mask : 255 . 255 . 0 . 0 Renew	
	Apply	

From the TCP/IP settings page, a user may edit a camera's TCP/IP settings. This includes all configurable settings from the Basic Tab>Camera Configuration> Network settings page (IP Settings, DNS Server settings) as well as the ability to enable IPv6 and configure host name and local link address details.

Network Setting	Description
	Select the method by which the cameras will obtain an IP address:
	<b>Obtain an IP Address via DHCP</b> – Select this method to have your router's DHCP function automatically assign the camera's network connection settings. This method is enabled by default. The automatically-generated <b>IP, Subnet Mask and Gateway</b> addresses will be listed directly underneath.
Configuration	Use the following IP Address (Manual Configuration) – Select this option to manually enter network connection settings. IP Address, Subnet Mask and Gateway Addresses can be manually entered directly underneath this setting. Clicking the Test button will confirm the validity of the network connection addresses you have entered.
	To enable IPv6 protocol, click <b>Enable IPv6</b> . For more information on IPv6 settings, see <u>IPv6 Settings Configuration</u> , below.
DNS Configuration	Enter in Primary and Secondary DNS Server connection information.
Host Configuration	Configure the device host name.
Link – Local Address	Checking-off <b>Enable Auto-configuration Link-Local Address</b> will generate an alternate internal IP address which can also be used to connect to the camera, access the UI via browser, etc when on the same network as the camera.

BASIC CONFIGURATION MENU - TCP/IP SETTINGS - IPV6 SETTINGS CONFIGURATION

# Steps:

a. When the enable IPv6 box is checked, IPv6 settings fields will deploy (pictured below).

✔ Enable IPv6	
IP address (Information) :	
Enable accept router adv	vertisements
🖌 Enable DHCP	
DHCP type :	auto 🔽
IP address :	
Prefix length :	128 (0 128, 128)
Default router :	
Figure 7-6: Setu	p Tab – Basic Configuration Menu – TCP/IP Settings – IPv6 Settings

- - -

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IPv6 Setting	Description
Enable Accept Router Advertisements	<b>Enable Accept Router Advertisements</b> will allow the camera to accept router advertisements, signaling device availability and connectivity to the host router.
Enable DHCP	<b>Enable DHCP</b> for automatic IP address assignment. Select a <b>DHCP Type</b> from the drop-down menu.
IP Address	The device IP address. If DHCP is not enabled, the user may assign an address.
Prefix Length	Assign an address prefix length.
Default Router	Enter the default router address

#### **DATE & TIME**

Basic Live Storage Setup

# Steps:

1). Opening the **Setup Tab>Basic Configuration** drop-down menu and clicking the **Date & Time** link will open the **Date & Time** settings page.

		VISIX Camera	Intelligent Video Surveillance
<ul> <li>Basic Configuration</li> </ul>	Setup > Maintenance > Dat	e & Time	
	Current Camera/Encod	ler Time	
Users	2015/11/06 23:28:32		
TCP/IP	Configuration		
Date & Time	Time zone :	(UTC) Coordinated Universal Time	
Stream			
Focus Assist	Sync source :	NTP server <u>Go to NTP Configuration</u>	
Video	Date & Time format :	Predefined : YYYY-MM-DD 🔽 24-Hour	
Event Configuration		Apply	
Network Configuration			
▶ VCA	New Camera/Encoder	Time	
<ul> <li>Peripheral</li> </ul>	Source :	Set this computer's Date & Time 2015/11/06 15:26:33	
Maintenance		○ Set with NTP server	
Activation		NTP server : time.windows.com	
About		○ Set manually	
		Date :         11-06-2015         MM-DD-YYYY           Time :         15:26:29         HH:MM:SS(24-Hour)	
		Apply	

Figure 7-7: Setup Tab – Basic Configuration Menu – Date & Time Settings

2). From the **Date & Time** settings page, a user may edit a camera's time settings including time zone, time server, date and time format and time synchronization source.

Time Setting	Description	
Current Camera Encoder Time	Displays the current camera time	
Configuration	<ul> <li>Time Zone - Select the camera time zone.</li> <li>Sync Source - Set the active NTP server as your time sync source. Click the Go to NTP Configuration to be taken to the NTP Settings page.</li> <li>Date and Time Format – Choose a predefined date-format. Enable 24-Hour to use standard 24 hour time.</li> </ul>	
New Camera / Encoder Time	<ul> <li>Set this Computer's Date and Time – Selecting this option will sync the camera's time with your current computer system.</li> <li>Set with NTP Server - Selecting this option will sync the camera's time with the displayed NTP server (Default: time.windows.com)</li> <li>Set Manually – Select this option to manually configure the camera's date and time.</li> </ul>	

3). Click Apply to save the new time settings.

# STREAM

### Steps:

1). Opening the **Setup Tab>Basic Configuration** drop-down menu and clicking the **Stream** link will open the **Stream** settings page.

# NOTE:

Advanced stream settings can also be accessed from the Setup Tab>Video Menu> Stream link.

Basic Configuration	Setup > Video > Stream	
-	First Stream Second Stream Snapshot	
Users	Stream	
TCP/IP	Enable streaming	
Date & Time	Video codec : H.264 🗸	
Focus Assist	Resolution : 1920X1080 🔽	
Video	Max. FPS : 30 (1 30 fps)	
Event Configuration	GOP : 30 (1 30)	
Network Configuration	Profile identification : High	
VCA	Bit rate control	
Peripheral	• Variable bitrate (VBR)	
Maintenance	Image quality : Highest 🔽	
Activation	○ Constant bitrate (CBR)	
About	Target bitrate : 5120 (128 8000 kbps)	

# **STREAM SETTINGS**

Select your desired stream profile tab (First/Main, Second/Sub) and check-off **Enable Streaming** to enable the chosen stream. In most cases, high quality image settings are reserved for the main/first stream, while lower quality, less bandwidth-intensive settings are reserved for the second/sub I stream.

Stream Setting	Description
Video Codec	Select the stream's video codec from the options in the drop-down menu.
Resolution	Select the stream's video resolution from the options in the drop-down menu.
Max FPS	Set the maximum Frames per Second value for the selected stream.
GOP	Set the Group of Picture value (I-Frame interval) for the selected stream.
Profile Identification	
Bit Rate Control	<ul> <li>Configure bit rate settings for the selected streams:</li> <li>Variable Bitrate (VBR) – Have the camera adjust bitrate for the selected stream based on an image quality preference. Choose your preference from the drop-down.</li> <li>Constant Bitrate (CBR) – Configure a target bitrate for the selected stream.</li> </ul>

The following settings can be configured for your chosen stream.

## Steps:

- Click the Show Profile List button for a list of preexisting encoder profiles. Existing profiles can be loaded by selecting them from the list and clicking Load Profile Settings. Encoder profiles can be configured from the Encoder Profiles settings form (Setup Tab>Video Menu>Encoder Profile).
- 2). Click **Apply** to save new settings changes.

# **SNAPSHOT SETTINGS**

#### Steps:

1). Click the Snapshot tab to open the **Snapshot** settings. Snapshot (still image) settings can be configured from this form.

Basic Live Storage	VISIX Came	ra 3×LOGIC Intelligent Video Surveillance
<ul> <li>Basic Configuration</li> </ul>	Setup > Video > <b>Stream</b>	
	First Stream Second Stream Snapshot	
Users	Snapshot	
TCP/IP	✓ Enable snapshot	
Date & Time	Resolution : 800X450	
Stream	800,450	
Focus Assist	Max. FPS :	2 (1 5 fps)
Video	JPEG quality :	70 (0 100 Best quality is '100')

Figure 7-9: Setup Tab – Basic Configuration Menu – Snapshot Stream Settings

 Click the Enable button to enable camera still shots via the camera browser interface (VIGIL utilities interfaced with the device such as VIGIL Client can take snapshots regardless of the camera settings).

Snapshot Setting	Description
Resolution	Select the snapshot image resolution from the options in the drop-down menu.
Max FPS	Set the maximum <b>Frames per Second</b> value for snapshot images using the slider. The smaller FPS range of 1-5 helps to prevent incorrect still shots from lag or delay. 1 is the default setting and is recommended for nearly all use-cases.
JPEG Quality	Set the JPEG quality value for snapshot images using the slider.

The following settings can be configured for camera snapshots:

# **FOCUS ASSIST**

#### Steps:

1). Opening the **Setup Tab>Basic Configuration** drop-down menu and clicking the **Stream** link will open the **Stream** settings page.

Basic Live Storage	VISIX Camera	3×LOGIC
· Basic Configuration	Setup > Basic Configuration > Focus Assist	
Users	Focus Assist Start Stop	
Date & Time	Preview Pop-up	
Stream		A DECEMBER OF THE OWNER OWNER OF THE OWNER
Focus Assist		C C C C C C C C C C C C C C C C C C C
> Video		1 Salar
Event Configuration		
Network Configuration		
VCA		the second
Peripheral		
Maintenance		
Activation		
About	1- F and a little	HIR CONTRACTOR

Figure 7-10: Setup Tab – Basic Configuration Menu – Focus Assist Settings

- 2). The **Focus Assist** tool is an auto-focus function intended to aid the user in achieving optimal lens focus to obtain the clearest image possible. Click **Start** to begin the focus assist process. When the image attains the desired focus level, click **Stop**.
- 3). Click **View** to close or open the video preview. Click **Pop-Up** to open the video preview in a separate browser window.

# 7.2 Video Menu

## CAMERA

#### Steps:

- Opening the Setup Tab>Video drop-down menu and clicking the Camera link will open the Camera settings page. A video preview is available at the bottom of the settings form. When configuring the settings described below, be sure to scroll-down and check the video preview as necessary.
- Click the Apply button at the bottom of the settings form (above the video preview) to apply settings changes. Click the Preview button to toggle the video preview on/off. Click the Pop-Up button to open the preview in a separate browser window.

#### **GENERAL SETTINGS**

#### Steps:

a. Under the **General** section, a user may set the device name.

Setup > Video > Camera	
General	
Friendly name :	Full HD Indoor / Outdoor IR Bullet IP Camera
	Figure 7-11: Setup Tab – Video Menu – Camera Settings – General

#### **VIDEO APPEARANCE SETTINGS**

#### Steps:

1). Under the Video Appearance sections, a user may adjust video image settings including Brightness, Contrast, Saturation and Sharpness.

Video Appearance	
Brightness :	128 (0 255, 128)
Contrast :	128 (0 255, 128)
Saturation :	128 (0 255, 128)
Sharpness :	128 (0 255, 128)

Figure 7-12: Setup Tab – Video Menu – Camera Settings – Video Appearance (Image) Settings

#### **VIDEO TRANSFORM SETTINGS**

#### Steps:

- 1). Under the Video Transform section, a user may vertical or horizontally flip their image by selecting the Vertical Flip or Horizontal Mirror option, respectively.
- A digital image rotation (does not work with PTZ hardware) setting can also be chosen; Left (-90 Degrees) and Right (+90 Degrees). This will digitally alter the image to give the appearance of a field-of-vision which has been rotated from the camera's actual fixed position.

Video Transformation settings may be automatically disabled depending on the presence of other camera settings. Conflicting settings will be listed (orange text, below).

Video Transform	
Orientation :	🗌 Vertical flip 🔲 Horizontal mirror
Rotation :	None O Left(-90 degrees) Right(+90 degrees)
Note: Image rotat	ion is disabled while any of the features below is activated.
<ul> <li>Video Stabilizatio</li> </ul>	nc
VCA: <u>Go to VCA Configuration</u>	
Video-Out : <u>Go to Video-Out Configuration</u>	
Figure 7-13: Setup Tab – Video Menu – Camera Settings – Video Transform	

# **EXPOSURE SETTINGS**

# Steps:

1). Under the **Exposure** section, a user may configure the following settings:

Exposure		
Exposure mode :	Auto Maximum shutter speed :	1 / 2000 (1/50 1/10000 sec)
	O Manual Shutter speed :	1 / 30 (1/2 1/5000 sec)
	◯ Flickerless	
Maximum AGC :	50 (0 100)	
Exposure adjustment :	0 V EV	
Back light compensation :	🔿 On 🖲 Off center 🔽	
Digital slow shutter :	off 🔽	
IR :	◉ On(Smart IR) ○ Off ○ Manual	128 (0 255, 128)

Figure 7-14: Setup Tab – Video Menu – Camera Settings – Exposure Settings

Exposure Setting	Description	
Exposure Mode	<ul> <li>Auto – The camera will automatically adjust shutter speed based on environmental conditions and activity within the camera's field-of-vision. Configure a Maximum Exposure Time and Minimum Exposure Time to establish an operable range for automatic adjustments.</li> </ul>	
	<ul> <li>Flickerless – Enable Flickerless exposure mode. Set display system settings to either PAL (50Hz) or NTSC (60Hz). The optimal settings will depend on the monitor receiving the video output from the camera.</li> </ul>	
Maximum AGC	Configure the maximum <b>Automatic Gain Control</b> limit for the camera. Adjust this setting to improve image noise/snow distortion. The optimal setting will be dependent on the camera installation environment. The default setting is 50.	
Exposure Adjustment	Configure the amount of exposure steps. One EV is to be considered one exposure step.	
Backlight Compensation	Enable <b>Backlight Compensation</b> . Backlight compensation adjusts exposure to ensure a larger portion of the field-of-vision remains bright and visible when small areas of high illumination force the camera to decrease image brightness.	
Digital Slow Shutter	Enable <b>Digital Slow Shutter</b> . The user may select the DSS speed from the drop-down menu. Increasing this setting will allow for a clearer picture in darker environment by allowing more than the normal amount of light into the camera lens.	

Exposure Setting	Description
	Configure the Infrared settings for the camera. These settings are only available for camera models with IR capability.
IR	<ul> <li>On (Smart IR) /Off – Turn the cameras smart (auto) IR adjustment capability On or Off.</li> </ul>
	<ul> <li>Manual – Manually configure the camera's IR sensor illumination level. Drag the slider to set the cameras IR illumination level. 128 is the default settings.</li> </ul>

## **DIGITAL WIDE DYNAMIC RANGE SETTINGS**

## Steps:

1). Under the **Digital Wide Dynamic Range** section, a user may enable D-WDR and configure the dynamic range level between 1 and 16. 8 is the default setting.

Digital Wide Dynamic Ra	nge	
Enable		
Level :	8 (1 16, 8)	

Figure 7-15: Setup Tab – Video Menu – Camera Settings – D-WDR Settings

# **DAY & NIGHT SETTINGS**

# Steps:

1). Under the **Day and Night** section, a user may choose the cameras **Day/Night** mode setting.

Day & Night	
Day & Night mode :	● Auto ○ Day ○ Night
Day to Night level :	1 (0 63, 1)
Night to Day level :	3 (1 64, 3)
Figure 7-16: Setup Tab – Video Menu – Camera Settings – Day and Night Settings	

Day and Night Setting	Description
Day and Night Mode	Place the camera in <b>Day</b> or <b>Night</b> mode. Select <b>Auto</b> to enable the camera to detect light conditions and auto-select the optimal mode accordingly.
Day to Night / Night to Day Level	Set the <b>Day to Night/Night to Day</b> light thresholds for the automatic day/night mode. Default values for <b>DtN</b> and <b>NtD</b> are 1 and 3, respectively.

#### WHITE BALANCE SETTINGS

#### Steps:

1). Under the **White Balance** section, a user may choose the cameras **White Balance Mode** setting from the drop-down. **Red** and **Blue** color temperature settings can also be adjusted using the slider bars.

White Balance	
White balance mode :	atwl 🗸
Red :	128 (0 255)
Blue :	128 (0255)
Figure 7-17	': Setup Tab – Video Menu – Camera Settings – White Balance Settings

#### **IMAGE SIGNAL PROCESSING SETTINGS**

#### Steps:

- Under the Image Signal Processing section, a user may configure the cameras 2D DNR (2 Dimension Dynamic Noise Reduction) setting. Increasing this setting can reduce noise surrounding moving objects within the field-of-vision. Adversely, this can increase blurring and smudging around static objects.
- 2). If the camera is heated, **Defog** mode can also be enabled in this section. After enabling defog, the **Defog Level** can be selected in the drop-down menu.

Image Signal Processi	ing
Dynamic 2D DNR :	3 (0 15)
Enable defog	
Level :	low 🗸
Figure 7-18: Se	tup Tab – Video Menu – Camera Settings – Image Signal Processing Settings

3). The default setting is **3**.

#### **VIDEO STABILIZATION SETTINGS**

#### Steps:

 Under the Video Stabilization Settings section, a user may enable Video Stabilization for any of the camera's stream profiles (First/Main, Second/Sub, and Snapshot). Check-off the box adjacent to each stream you wish to apply Video Stabilization too. The Border Fill-In setting can be chosen from the drop-down menu.

# NOTE:

Video stabilization settings may be automatically disabled depending on the presence of other camera settings. Conflicting settings will be listed (orange text, below).

Video Stabilization				
🗌 First Stream 🔲 Second Stream 🔲 Snapshot				
Border In-fill :	dynamic			
Note: Video stabilization is disabled while any of the features below is activated.				
<ul> <li>Image Rotation</li> </ul>				
• VCA : Go to VCA C	Configuration			
· Video-Out : Go to	Video-Out Configuration			
Figure 7-19: 9	etup Tab – Video Menu – Camera Settings – Video Stabilization Settings			

## **BURNT-IN TEXT (OSD)**

#### Steps:

1). Opening the **Setup Tab>Video** drop-down menu and clicking the **Burnt-In Text** link will open the **Burnt-In Text** (often referred to as On-Screen Display or OSD) settings page.

## NOTE:

A video preview is available at the bottom of the settings form. When configuring the settings described below, be sure to scroll-down and check the video preview as necessary.

Click the Apply button at the bottom of the settings form (above the video preview) to apply settings changes. Click the Preview button to toggle the video preview on/off. Click the Pop-Up button to open the preview in a separate browser window.

Basic Live Search	Setup	SIX Analytic Sensor	<b>3×LOGIC</b>
Basic Configuration	Setup > Video > Burnt-in	Text	
▼ Video	Configuration		
Camera	✓ Enable B-I Text Include text :	🖌 Date 🖌 Time 🖌 Name	
Encoder Profile	Text format		
Stream	Name :	VX-2A-IMD-X (Max 48 charae	sters)
Privacy Mask	✓ Enable millisecond	s for time display	
Event Configuration	Text position		
Network Configuration	Date position :	Predefined : Percentage X,Y 💌 X : 6	%,Y: 12 %
<ul> <li>Storage</li> </ul>	Time position :	Predefined : Percentage X,Y 💌 X : 6	%,Y: 16 %
VCA	Name position :	Predefined : Percentage X.Y V X: 6	%,Y: 20 %
Maintenance			
Activation	i i i	Apply View Pop-up	

Figure 7-20: Setup Tab – Video Menu –Burnt-In Text Settings

3). From the Burnt-In Text settings page, a user can enable B-I Text.

The following related settings can be configured once BI-T has been enabled:

BI-T Setting	Description
Include Text	Designate info to be included in the on-screen text. Choose from <b>Date</b> , <b>Time and Name</b> .
Text Format	Configure the <b>Name text</b> . I.E Camera model name or description (Entrance 2)
Text Position	Configure the positions of the <b>Date, Time and Name</b> text. Select a preconfigured position from the drop-down or designate custom positions using standard X and Y screen coordinates.

# **ENCODER PROFILE**

### Steps:

1). Opening the **Setup Tab>Video** drop-down menu and clicking the **Encoder Profile** link will open the **Encoder Profile** settings page.

Basic Live Search	Setup	VISIX Ana	lytic Sensor	3×LOGIC
Basic Configuration	Setup > Video :	Encoder Profile		
▼ Video	Stream Profi	le List		
· video	Name	Description	Stream1	Stream2
Camera	default		h264-1280x720	-
Burnt-in Text				
Encoder Profile				
Stream				
Privacy Mask				
	-	Ad	d Copy Modify	Remove
<ul> <li>Event Configuration</li> </ul>				

Figure 7-21: Setup Tab – Video Menu – Encoder Profile Settings

- 2). From the Encoder Profile settings page, a user may Add, Copy, Modify or Remove an Encoder Profile. An Encoder profile is a stream settings profile that delineates camera stream settings based on pre-configured customized settings.
- 3). To **Copy...** or **Remove....** an existing profile, select the profile from the list and click the corresponding button.

For information on adding or modifying a profile, proceed through the following section of this manual.

# ADDING OR MODIFYING AN ENCODER PROFILE

### Steps:

**3xLOGIC** 

1). To create or modify a new encoder profile, click the **Add**... button (if modifying, select the desired profile from the list and click **Modify**...). This will deploy the below stream settings form.

<b>Basic Configuration</b>			
Profile name :	Profile1	(Max 32 characters)	
Description :	For Best Quality	× (Max 100 characters)	
First Stream Secon	nd Stream Snapshot		
Stream			
✓ Enable streaming			
Video codec :	H.264 🔽		
Resolution :	1280X720 🗸		
Max. FPS :		30 (1 30 fps)	
GOP :		30 (1 30)	
Profile identification :	High 🔽		
Bit rate control			
Variable bitrat Maximum bitra Image quality	e (VBR) te : highest v	2048 (128 12000 kbps)	
<ul> <li>Constant bitra</li> <li>Target bitrate :</li> </ul>	te (CBR)	5120 (128 8000 kbps)	
The expected codec us	age : 45% + 50% (\	/CA)	
			OK Cancel

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- Assign/edit Profile Name and Description at the top of the form and then configure stream settings. For more details on stream settings, please see the <u>Setup Tab > Basic Configuration</u> <u>Menu> Stream Settings section.</u>
- 3). Click **OK** to save the new **Encoder Profile**.

# **STREAM**

# Steps:

1). Opening the **Setup Tab>Video** drop-down menu and clicking the **Stream** link will open the **Stream** settings page.

# NOTE:

The advanced stream settings form can also be accessed from the **Setup Tab> Basic Configuration Menu> Stream** link.

Basic Live Storage	VISIX Camera	3×LOGIC Intelligent Video Surveillance
<ul> <li>Basic Configuration</li> </ul>	Setup > Video > Stream	
Users	First Stream Second Stream Snapshot	
TCP/IP	Stream	
Date & Time		
Stream	Video codec : H.264	
Focus Assist	Resolution : 1920X1080	
▶ Video	Max. FPS : 30 (1 30 fps)	
Event Configuration	GOP : 30 (1 30)	
Network Configuration	Profile identification : High	
VCA	Bit rate control	
Peripheral	• Variable bitrate (VBR)	
Maintenance	Image quality : Highest 🔽	
<ul> <li>Activation</li> </ul>	O Constant bitrate (CBR)	
> About	Target bitrate : 5120 (128 800	0 kbps)
	The expected codec usage : $100\%$	Show profile list Apply

Figure 7-23: Setup Tab – Video Menu – Stream Settings

# **STREAM SETTINGS**

Select your desired stream profile tab (First/Main, Second/Sub) and check-off **Enable Streaming** to enable the chosen stream. In most cases, high quality image settings are reserved for the main/first stream, while lower quality, less bandwidth-intensive settings are reserved for the second/sub stream.

The following settings can be configured for your chosen stream:

Stream Setting	Description		
Video Codec	Select the stream's video codec from the options in the drop-down menu.		
Resolution	Select the stream's video resolution from the options in the drop-down menu.		
Max FPS	Set the maximum Frames per Second value for the selected stream.		
GOP	Set the Group of Picture value (I-Frame interval) for the selected stream.		
Profile Identification			
Bit Rate Control	<ul> <li>Configure bit rate settings for the selected streams:</li> <li>Variable Bitrate (VBR) – Have the camera adjust bitrate for the selected stream based on an image quality preference. Choose your preference from the drop-down.</li> <li>Constant Bitrate (CBR) – Configure a target bitrate for the selected stream.</li> </ul>		

## Steps:

- Click the Show Profile List button for a list of preexisting encoder profiles. Existing profiles can be loaded by selecting them from the list and clicking Load Profile Settings. Encoder profiles can be configured from the Encoder Profiles settings form (Setup Tab>Video Menu>Encoder Profile).
- 2). Click **Apply** to save new settings changes.

## **PRIVACY MASK**

## Steps:

1). Opening the **Setup Tab>Video** drop-down menu and clicking the **Privacy Mask** link will open the **Privacy Mask** settings page.

Basic Live Search	Setup	VISIX Analytic Senso	or 3×LOGI
Basic Configuration	Setup > Video > PI	ivacy Mask	
▼ Video	View		
Camera Burnt-in Text Encoder Profile Stream Privacy Mask	2015/1 10:31: VX-2A-	201 2.855 IH01]	
Privacy Plask	0.4 445		
Event Configuration			
Network Configuration			
Storage			
VCA			
Maintenance			
Activation	x		
About			
	Privacy Mask Ze	ines	
	Show	Zone ID	Name
		01	zone
		02	zone
		03	zone

Figure 7-24: Setup Tab – Video Menu – Privacy Mask Settings

From the **Privacy Mask** settings, a user may draw up to four privacy masks within the camera image. A privacy mask obscures a portion of camera image in both live and recorded footage.

- 2). To enable a privacy mask, check-off the box in the **Show** column for the desired **Privacy Mask.** The privacy mask zone will deploy over the preview image.
- 3). Place and resize the zone as required.
- 4). Click the Save button at the bottom-right of the page to save the new privacy mask.

# **VIDEO OUT (BNC)**

## Steps:

 Opening the Setup Tab>Video drop-down menu and clicking the Video Out link will open the Video Out settings page. Video Out settings will only be available on cameras with a BNC Video Out connection.

Basic Live Search	Setup VISIX Analytic Sensor	3×LOGIC
Basic Configuration	Setup > Video & Audio > <b>Video-Out</b>	
<ul> <li>Video</li> </ul>	BNC output	
Camera	Note: Video output is disabled while any of the features below is activated.	
Burnt-in Text	Image Rotation : <u>Go to Camera Configuration</u> Video Stabilization : Go to Camera Configuration	
Encoder Profile		
Stream	Арріу	
Privacy Mask		
Video-Out		



 Select the BNC output mode. Choose between NTSC (60Hz) or PAL (50Hz, auto color correction). The optimal setting is dependent on the monitor receiving the video output from the camera.

# 7.3 Event Configuration Menu

# **EVENT RULES**

### Steps:

1). Opening the **Setup Tab>Event Configuration** drop-down menu and clicking the **Event Rules** link will open the **Event Rules** settings page.

	VI	SIX Analytic Sensor	<b>3×LOGIC</b>
Basic Configuration	Setup > Event Configurat	ion > Event Rules	
▶ Video	Configuration		
<ul> <li>Event Configuration</li> </ul>	Enable event rules		
Event Rules		Apply	
Motion Detection	Event Rule List		
Face Detection	Use Name	Description	
Network Loss	yes People Coun	ter Office Tripwire Counter	
Heart Beat	yes Motion Reco	rd Motion Recording Test for 3xENG Office	
Schedule			
E-Mail Recipient			
FTP Notification			
HTTP Notification			
TCP Notification		Add Copy Modify Reme	ove
TCP Server	Toformation		
Multicast Notification	Enable profile :	yes	
<ul> <li>Network Configuration</li> </ul>	Name :	People Counter	
Storage	Description :	Office Tripwire Counter	
▶ VCA	Description :		
Maintenance	Event sources :	Motion detection-no, VCA-yes, Network loss/detec no, Recurrence-no, Schedule-no	t-no, Network setting changed-
<ul> <li>Activation</li> </ul>	Event action :	Recording-yes, Save event log-no, Send e-mail no to FTP-no, Send HTTP notification-no, Send TCP no	tification-no, Upload notification otification-no, Send notification
About		via TCP event server-no, Send multicast notification	on-no

Figure 7-26: Setup Tab – Event Configuration – Event Rules Settings

- 2). From the **Event Rules** settings page, a user may enable and subsequently **Add** a new event rule. A user may also **Copy, Modify or Delete** and existing event rule.
- 3). To enable, check-off the Enable Event Rules box.
- 4). Select a rule from the list to display its **Event Source** and **Event Action** specifications under the **Information** section.

By default, VISIX V-Series All-in-One Camera's will have events enabled and with a single motion record rule configured, designed to trigger footage recording when motion is detected. This allows for recording directly out-of-the-box with no user interaction required.

- 5). To copy or delete an existing rule, select the desired rule from the list and click the **Copy...** or **Remove** button. You may be prompted to confirm the action. Click **OK** to confirm.
- 6). After adding, removing or modifying rules as desired, click the **Apply** button to save changes.

### ADDING OR MODIFYING AN EVENT RULE

#### Steps:

1). To add an event rule, click the **Add...** button (if modifying, select the desired rule from the list and click **Modify...**). The Add/Modify Event Rule window will deploy.

Add to Event Rule List	×
Configuration	
Enable rule	
Name :	
Description :	
Event Source Event Action	
Triggered by	
Detectors	
Motion detection	Go to Motion Detection Configuration
VCA source	Go to VCA Configuration
Face detection	Go to Face Detection Configuration
Network loss/detect	Go to Network Loss Configuration
System	
Network setting changed	
Storage error	
Time	
Recurrence	
Schedule	Go to Schedule Configuration
	OK Cancel

Figure 7-27: Setup Tab – Event Configuration Menu – Event Rules Settings – Adding/Modifying a Rule - Event Source Tab

- 2). Check-off the Enable box.
- 3). Enter a **Name** and **Description** for the rule. This name will be used to reference this specific rule throughout the camera's browser interface.

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# EVENT SOURCE (TRIGGERS) TAB – ADDING/MODIFYING EVENT RULE

# Steps:

1). Under the **Event Source** tab of the **Add/Modify Event Rule** form, the following event trigger settings can be configured:

Event Source (Trigger) Setting	Description	
Motion Detection	Enable the rule to trigger based off of Motion Detection. Click the <b>Go to Motion</b> <b>Detection Configuration</b> to edit motion detection settings.	
VCA Source	Enable to rule to trigger based off of a VCA (video analytics) source. (i.e. tripwire, customer not present, etc) When this box is checked, an additional form will deploy allowing the user to pick specific VCA elements as trigger criteria (pictured below).	
	<ul> <li>Figure 7-28: Setup Tab – Event Configuration Menu – Event Rules Settings – Event Source Tab - VCA Source Settings</li> <li>Available criteria will vary based on active VCA rules.</li> <li>A trigger mode can also be chosen. Select Rising Edge to trigger an event at the onset of a VCA rule being triggered. Select Falling Edge to trigger an event at the conclusion of an event being triggered (latched). Select Both to trigger an event rule regardless of the state of a VCA event.</li> <li>Click Go to VCA Configuration to edit video analytics rule settings.</li> </ul>	
Face Detection	Enable the rule to trigger based off of facial recognition of a specific person. Click <b>Go to Face Detection Configuration</b> to edit facial recognition settings.	
Network Loss/Detect	Enable the rule to trigger whenever network signal loss is detected. Click <b>Go to Network Loss Configuration</b> to edit network loss settings.	
Network Setting Changed	Enable this rule to trigger whenever a network setting change is detected.	
Storage Error	Enable the rule to trigger whenever a storage error is detected.	
Recurrence	Enable the rule to trigger on a reoccurring basis. When selected, the user will be able to assign a time interval for the reoccurring trigger.	
Schedule	Enable the rule to trigger based on a schedule. The event rule will remain active only during the scheduled times. Click the <b>Go to Schedule Configuration</b> link to open the <b>Schedule</b> settings and configure a schedule as needed. The <b>Schedule</b> event source option will not be available until schedule settings have been properly configured.	

# EVENT ACTION TAB – ADDING/MODIFYING EVENT RULE

#### Steps:

1). Under the **Event Action** tab of the **Add/Modify Event Rule** form, the following event action settings can be configured:

Figure 7-29. Setup Tab -	- Event Configuration Menu	– Event Rules Settings –	Event Action Tab
rigule /-29. Setup Tab -	- Lveni Conngulation Menu	– Lvent Kules Settings –	LVEIIL ACLIOIT TAD

Event Action Setting	Description
Recording	Enable this option to start recording footage when the rule is triggered. Recording options ( <b>Prebuffer</b> and <b>Postbuffer</b> values, <b>Attach Thumbnail/Face Image</b> option) will be displayed when this rule is selected. Click <b>Go to Recording Configurations</b> to edit recording settings.
Save Event Log	Enable this option to save an event log when the rule is triggered. Navigate to Setup Tab>Maintenance Menu> System Log settings page for access to system event logs.
Send E -Mail	Enable this option to have the camera send an email notification to a recipient of your choosing whenever the rule is triggered. Email notification options ( <b>To</b> and <b>Subject</b> fields, <b>Attach Thumbnail/Face Image, Attach Snapshot options</b> ) will be displayed when the rule is selected.
Notification	An email recipient must be configured to enable this option. Click the <b>Go to E-Mail Recipient Configuration</b> link to edit <u>recipient settings</u> .
Upload	Enable this option to have the camera upload a notification (JPEG image with timestamp) to an FTP whenever the rule is triggered.
Notification to FTP	Click the <b>Go to FTP Notification Configuration</b> link to edit <u>FTP connection settings.</u>
Send HTTP	Enable this option to have the camera send a push notification across an HTTP service whenever the rule is triggered.
Notification	Click the <b>Go to HTTP Notification Configuration</b> link to edit <u>HTTP connection settings.</u>
Send TCP	Enable this option to have the camera send a notification via TCP whenever the rule is triggered.
Notification	Click the <b>Go to TCP Notification Configuration</b> link to edit <u>TCP Notification settings</u> .
Send Notification via TCP Event Server	Enable this option to have the camera send a notification via TCP Event Server whenever the rule is triggered. Click the <b>Go to TCP Server Configuration</b> link to edit <u>TCP Server connection settings</u> .
Send Multicast	Enable this option to have the camera broadcast a UDP Multicast notification whenever the rule is triggered.
(UDO) Notification	Click the <b>Go to Multicast Notification Configuration</b> link to edit <u>Multicast Notification</u> <u>settings</u> .

# **MOTION DETECTION**

### Steps:

 Opening the Setup Tab>Event Configuration drop-down menu and clicking the Motion Detection link will open the Motion Detection settings page.



Figure 7-30: Setup Tab – Event Configuration Menu – Motion Detection Settings

- 2). From the **Motion Detection** settings page, a user may draw up to eight motion detection zones, and activate each as necessary.
- 3). Check off the **Enable** column box for the desired zone. This will deploy the zone over the image. Resize the zone as desired.
- 4). A Name, Description, Sensitivity and Object Size value can be assigned to each zone.
- 5). Enable **Show Motion Blob** to overlay a visualization of detected motion activity on the image (the red squares in the above example).
- 6). Enable **Show Motion Activity** to deploy a motion activity graph as a video overlay (bottomright of the video preview in the above example). Motion activity will only be graphed when a motion detection zone is actively selected within the image.
- 7). Click the **Save** button to save changes to motion detection settings.

# **FACE DETECTION**

# Steps:

1). Opening the **Setup Tab>Event Configuration** drop-down menu and clicking the **Face Detection** link will open the **Face Detection** settings page.



Figure 7-31: Setup Tab – Event Configuration Menu – Face Detection Settings

2). From the **Face Detection** settings page, a user may draw up to four facial detection zones, and activate each as necessary.

# NOTE:

Do not confuse **Facial Detection** with **Facial Recognition**. Face detection merely detects the presence of a human face. There is no Facial Recognition algorithm. The camera cannot be configured to recognize specific faces.

- 3). Check off the **Enable** column box for the desired zone. This will deploy the zone over the image. Resize the zone as desired.
- 4). A Name and Description value can be assigned to each zone.
- 5). Click **Apply** to save any settings changes.
# **NETWORK LOSS**

## Steps:

1). Opening the **Setup Tab>Event Configuration** drop-down menu and clicking the **Network Loss** link will open the **Network Loss** settings page.

Basic Live Search	VISIX Analytic Sensor	<b>3×LOGIC</b>
Basic Configuration	Setup > Event Configuration > Network Loss	
▶ Video	Configuration	
<ul> <li>Event Configuration</li> </ul>	Check ethernet connectivity	
	Check ping response	
Event Rules	Interval : 10 (5	60 sec(s))
Motion Detection	Dest eddense i	
Face Detection	Host address :	
Network Loss	Apply	
Heart Beat		
Figure 7-3	2: Setup Tab – Event Configuration Menu – N	etwork Loss Settings

2). From the **Network Loss** settings page, a user may configure the following network signal loss settings:

Stream Setting	Description
Check Ethernet Connectivity	Enable the camera to check for Ethernet (physical) connectivity.
Check Ping Response	Enable the camera to check for network connectivity, via network ping.
Interval	Configure the time interval in between checks/pings.
Host Address	Enter the address of the device you would like the camera to ping. When this device cannot be reached/ a ping response is not received, the camera will fall into a network loss state.

3). Click **Apply** to save changes to network loss settings.

#### **HEART BEAT**

## Steps:

1). Opening the **Setup Tab>Event Configuration** drop-down menu and clicking the **Heart Beat** link will open the **Heart Beat** settings page.

Basic Live Search	VISIX Analytic Sensor	3×LOGIC
Basic Configuration	Setup > Event Configuration > Heart Beat Configuration	
Video     Event Configuration	✓ Enable Interval : 60 (1 300 sec(s))	
Event Rules Motion Detection	✓ TCP Server	
Face Detection	☐ TCP Notification ☑ Multicast	
Heart Beat	Apply	

Figure 7-33: Setup Tab – Event Configuration Menu – Heart Beat Settings

- 2). In network and computer science, a **Heart Beat** is a periodic signal generated by hardware (or software) to indicate normal operation.
- 3). Check off **Enable** to activate a heartbeat signal from the camera.

After enabling, a user may configure the following options:

Stream Setting	Description
Interval	Configure the time interval between heart beat signal broadcasts.
TCP Server	Enable a heartbeat signal broadcast via TCP Event Server.
TCP Notification	Enable a heartbeat signal broadcast via TCP Notification.
Multicast	Enable a heartbeat signal broadcast via UDP Multicast.

4). Click **Apply** to save **Heart Beat** settings changes.

# SCHEDULE

## Steps:

1). Opening the **Setup Tab>Event Configuration** drop-down menu and clicking the **Schedule** link will open the **Schedule** settings page.

Dasic Live Search	VISIX Analytic Sensor	<b>3×LOGIC</b>
Basic Configuration	Setup > Event Configuration > Schedule	
	Schedule List	
Video	Id Name Description	
<ul> <li>Event Configuration</li> </ul>		
Event Rules		
Motion Detection		
Face Detection		
Network Loss		
Heart Beat		
Schedule	Add Modify Remove	

Figure 7-34: Setup Tab – Event Configuration Menu – Schedule Settings

- From the Schedule settings page, a user may Add, Modify or Remove an event schedule.
   When associated with a schedule, an event will trigger only during the specified time range.
- 3). Select a schedule from the list to display Schedule information.
- 4). To remove a schedule, select the desired schedule from the list and click **Remove**.

#### **ADDING/MODIFYING A SCHEDULE**

#### Steps:

1). To add a schedule, click the Add... button (if modifying, select the desired schedule from the list and click Modify...). The Add to Schedule List form will deploy.

Add to Sche	dule List	×
Name :		
Description :		
Date :		
Start :	Month 1 V Day 1 V Year 2000 V	
End :	Month 12 Day 31 V Year 2037 V	
Time :		
Start :	Hour 0 (0~23) Minute 0 (0~59)	
End :	Hour 23 (0~23) Minute 59 (0~59)	
Days :		
🖌 Mon	🖉 Tue 🗹 Wed 🗹 Thu 🗹 Fri 🖉 Sat 🖉 Sun	
	OK Cancel	

Figure 7-35: Setup Tab – Event Configuration Menu – Schedule Settings – Adding/Modifying Schedule

Schedule Setting	Description
Name	Name the schedule. This name will be used to identify this particular schedule
	when assigning it to an event.
	Provide a brief description of the schedule (intended use, etc). This
Description	description will be displayed when the schedule is selected on the schedule
	settings page
Date	Check-off the <b>Date</b> box to enable. If enabled, a user may configure a <b>Start</b> and
	End date range for the schedule.
Time	Check-off the <b>Time</b> box to enable. If enabled, a user may configure a Start and
	End time range for the schedule.
Days	Select which days of the week to apply the schedule to.

2). After configuring the desired time range, click **OK** to save the new schedule.

# **E-MAIL RECIPIENTS**

Basic Live Search <mark>Setup</mark>

#### Steps:

Opening the Setup Tab>Event Configuration drop-down menu and clicking the E-Mail 1). Recipient link will open the E-Mail Recipient settings page.

	VISIX Analytic Sensor	3×LOGIC
Basic Configuration     Video	Setup > Event Configuration > E-Mail Recipient Configuration	
<ul> <li>Event Configuration</li> </ul>	Send rate limit : 0 (0 600 sec(s)	))
Event Rules Motion Detection	Contents :	
Face Detection	E-Mail Recipient List	
Network Loss Heart Beat	Id Name Description	
Schedule		
E-Mail Recipient		
FTP Notification	Add Modify Remove Go to SMTP (E-Mail) Configuration	ionto Cottingo

Figure 7-36: Setup Tab – Event Configuration Menu – E-Mail Recipients Settings

**3XLOGIC** 

- From the E-Mail Recipients settings page, a user may Add, Modify or Remove an e-mail notification recipient. General recipient settings may also be edited, including Send Rate Limit (minimum e-mail notification time interval) and content delivery modes (HTML Encoded or Plain Text).
- 3). Select a recipient from the list to display recipient information. To remove a recipient, select the desired recipient from the list and click **Remove.**
- 4). SMTP (E-mail Server) Settings must be configured in order for e-mail notifications to function. Click the Go to SMTP (E-Mail) Settings link to open the SMTP settings form and configure settings as necessary. See <u>SMTP (E-Mail Server) Settings</u> for more info.

#### ADD/MODIFY AN E-MAIL RECIPIENT

#### Steps:

E-Mail Address

1). To add a recipient, click the Add... button (if modifying, select the desired recipient from the list and click Modify...). The Add/Modify E-Mail Recipient form will deploy.

Modification of E-M	ail Recipient \$
Name :	Brendan S
Description :	Tech Writer at 3xENG
E-Mail address :	brendan.savage@3xlogic-eng.com ×
	OK Cancel

Figure 7-37: Setup Tab – Event Configuration Menu – E-Mail Recipients Settings - Add/Modify a Recipient

E-Mail Recipient SettingDescriptionNameName the recipient. This name will be used to identify this particular<br/>recipient when assigning it to an e-mail notification.DescriptionProvide a brief description of the recipient (intended use, etc...) This<br/>description will be displayed when the schedule is selected on the<br/>schedule settings page.

Enter the e-mail address of the recipient.

2). Fill in the Name, Description and E-mail Address fields for the desired recipient.

3). When you have filled in all the fields, click **OK** to save the new recipient.

# **FTP NOTIFICATION**

# Steps:

1). Opening the Setup Tab>Event Configuration drop-down menu and clicking the FTP Notification link will open the FTP Notification settings page.

Basic Live Search	Setup	١	/ISIX Analytic Sensor	<b>3×LOGIC</b>
Basic Configuration	Setup > FTP No	Event Configu tification L	ration > FTP Notification	
Video     Event Configuration	Id	Name	Description	
Event Rules				
Motion Detection Face Detection				
Network Loss				
Heart Beat Schedule	Add	Modify	Remove	
E-Mail Recipient				
FTP Notification Figure 7	<b>'-38</b> : Set	up Tab	- Event Configuration Menu – FT	P Notification Settings

- From the FTP Notifications settings page, a user may Add, Modify or Remove an FTP Server. Notifications will be sent in the form of a .jpg image containing an image of the event and corresponding data (time stamp, camera name, rule, etc...)
- 3). To remove an existing FTP server, select it from the list and click **Remove**. You will be prompted to confirm. Click **OK** to confirm the removal.

# **ADD/MODIFY AN FTP SERVER**

## Steps:

 To add an FTP Server, click the Add... button (if modifying, select the desired schedule FTP server from the list and click Modify...). The Add to/Modify FTP Notification List form will deploy.

Add to FTP Notificatio	n List	×
Name :		
Description :		
IP Address :		
Port (1 65535) :	21	
Target Directory :		
Account :		
Password :		
File name format :	YYYYMMDD V	
([Device IP address]_[C	hannel]_YYYYMMDD_hhmmss.[Millisecond].jpg)	

#### Test OK Cancel

Figure 7-39: Setup Tab – Event Configuration Menu – FTP Notification Settings – Add/Modify an FTP

FTP Notification Setting	Description
Name	Name the FTP server. This name will be used to identify this
Description	Enter a description for the FTP. This information will be displayed when the FTP is selected on the FTP Notification settings window.
IP Address/Port	Enter network connection values for the desired FTP Server.
Target Directory	Enter the target destination directory on the FTP for the FTP notifications.
Account / Password	Enter the user login credentials for the FTP. 3xLOGIC recommends using an administrative level account when possible to avoid permissions conflicts.
Filename Format	Assign the filename format for the .jpg notifications.

- 2). Click **Test** to test FTP connectivity. If the test fails, confirm the correct settings have been entered for the selected FTP server.
- 3). Click **OK** to save the new FTP server settings.

## **HTTP NOTIFICATIONS**

# Steps:

1). Opening the Setup Tab>Event Configuration drop-down menu and clicking the HTTP Notification link will open the HTTP Notification settings page.

Basic Live Search	VISIX Analytic Sensor	<b>3×LOGIC</b>
Basic Configuration	Setup > Event Configuration > HTTP Notification	
<ul> <li>Video</li> </ul>	HTTP Notification List	
<ul> <li>Event Configuration</li> </ul>	Id Name Description	
Event Rules		
Motion Detection		
Face Detection		
Network Loss		
FTP Notification		
HTTP Notification	Add Modify Remove	
Figure 7-40: S	etup Tab – Event Configuration Menu – HTTP Not	ification Settings

- 2). From the **HTTP Notifications** settings page, a user may **Add**, **Modify or Remove** an HTTP web server for receiving event notifications.
- 3). To remove an existing HTTP server, select the server from the list and click **Remove.** You will be prompted to confirm.
- 4). Click **OK** to confirm the removal.

# **ADD/MODIFY AN HTTP SERVER**

#### Steps:

1). To add an HTTP web server, click the **Add...** button (if modifying, select the desired schedule HTTP server from the list and click **Modify...**). The **Add to/Modify HTTP Notification List** form will deploy.

Add to HTTP Notificati	on List	×
Name :		
Description :		
Address :		
Port (1 65535) :	80 ×	
Authentication details (if	required)	
Account :		
Password :		
Message :		
	Append detailed information	
	Test OK Ca	ncel

Figure 7-41: Setup Tab – Event Configuration Menu – HTTP Notifications – Adding/Modifying an HTTP Server

HTTP Notification Setting	Description
Name	Name the HTTP server. This name will be used to identify this particular HTTP server when assigning it to an e-mail notification.
Description	Enter a description for the HTTP server. This will be displayed when the HTTP server is selected on the HTTP Notification settings window.
IP Address/Port	Enter network connection values for the desired HTTP Server.
Account / Password	Enter the user login credentials for the HTTP server. 3xLOGIC recommends using an administrative level account when possible to avoid permissions conflicts.
Message	Enter a customized message to include with the notification.
Append Detailed Information	Enable this checkbox to append detailed information including event details, the custom <b>Message</b> field, etc

- 2). Click **Test t**o test for a successful connection with the defined HTTP web server. Once you have configured your desired settings.
- 3). Click **OK** to save the newly configured HTTP web server.

# **TCP NOTIFICATIONS**

## Steps:

1). Opening the **Setup Tab>Event Configuration** drop-down menu and clicking the **TCP Notification** link will open the **TCP Notification** settings page.

Basic Live Search	Setup	ISIX Analytic Sensor	<b>3×LOGIC</b>
<ul> <li>Basic Configuration</li> </ul>	Setup > Event Configura	ation > TCP Notification	
• Video	Configuration		
<ul> <li>Event Configuration</li> </ul>	IP Address:	127.0.0.1	Message Customization
Event configuration	Port :	23456 (1 65535)	
Event Rules	Connect Timeout	2 (1 300 sec)	
Motion Detection	connect nineout.	(1	
Schedule	Send Timeout :	2 (1 300 sec)	
E-Mail Recipient	Alive Type :	🔘 Once 🖲 Unlimited 🔘 Timeout	
FTP Notification	Alive Time :	2 (1 86400 sec)	
HTTP Notification			
TCP Notification		Apply	
Figure	7-42: Setup Tab-	Event Configuration Menu – TCP N	Notification Settings

2). From the **TCP Notifications** settings form, a user may configure the following settings:

TCP Notification Setting	Description
IP Address / Port	Enter TCP notification's destination network connection info.
Connect Timeout	Configure the connection timeout value.
Send Timeout	Configure the Send Timeout value.
Alive Type	Configure the TCP keep-alive packet mode.
Alive Time	Configure the time interval between keep-alive retransmissions.

3). Click **Apply** to save changes to the TCP Notification settings.

#### **TCP SERVER**

#### Steps:

1). Opening the **Setup Tab>Event Configuration** drop-down menu and clicking the **TCP Server** link will open the **TCP Server** settings page.

Basic Live Search	VI	SIX Analyt	ic Sensor	<b>3×LOGIC</b>
<ul> <li>Basic Configuration</li> </ul>	Setup > Event Configurati	on > TCP Server		
► Video	Port :	2555	(1 65535)	Message Customization
Event Configuration     TCP Server			Apply	

Figure 7-43: Setup Tab – Event Configuration Menu - TCP Server Settings

2). From the TCP Server setting pages, a user may enter a **Port** value for the TCP Event Server. Click the **Message Customization** button to deploy the event message settings for TCP Event servers.

TCP Message Settings	Description
Message Header Tab	Enable and customize a custom message header.
VCA Tab	Select a default message or configure a custom message for VCA Config, VCA Alarm and VCA Counter events.
MD Tab	Select a default message or custom message for motion detection events.
Network Tab	Select a default message or configure a custom message for <b>Network</b> events.
DI/DO Tab	Select a default message or configure a custom message for <b>DI/DO</b> events.

3). Click Apply to save changes to the TCP Server settings.

#### **MULTICAST NOTIFICATION**

## Steps:

1). Opening the **Setup Tab>Event Configuration** drop-down menu and clicking the **Multicast Notification** link will open the **Multicast Notification** settings page.

Basic Live Search S	ietup VIS	<b>IX Analyti</b>	c Sensor	<b>3×LOGIC</b>
Basic Configuration	Setup > Event Configuration	> Multicast Notific	ation	
▶ Video	Configuration			
<ul> <li>Event Configuration</li> </ul>	Address :	224.0.0.25		
HTTP Notification	Port :	2555	(1 65535)	
TCP Notification	TTL :	1	(1 255)	
TCP Server			Apply	
Multicast Notification			Арріу	

Figure 7-44: Setup Tab – Event Configuration Menu – Multicast Notification Settings

2). From the **Multicast Notification** setting pages, a user may configure the following UDP multicast settings:

Multicast Notification Settings	Description		
Address	Enter the UDP multicast notification destination's IP address.		
Port	Enter the UDP multicast notification destination's enter the Port.		
πι	<ul> <li>Set the TTL threshold.</li> <li>The TTL threshold is a time value which delineates how long a data packet can exist across an information network (local intranet, internet, etc) before being invalidated.</li> <li>Approximation of TTL threshold value effects are listed below: <ul> <li>0 - Restricted to the same host. Won't be output by any interface.</li> <li>1 - Restricted to the same subnet. Won't be forwarded by a router.</li> <li>&lt;32 - Restricted to the same site, organization or department.</li> <li>&lt;64 - Restricted to the same region.</li> <li>&lt;128 - Restricted to the same continent.</li> <li>&lt;255 - Unrestricted in scope; Global.</li> </ul> </li> </ul>		

# 7.4 Network Configuration Menu

# **TCP/IP SETTING**

# Steps:

1). Opening the **Setup Tab>Network Configuration** drop-down menu and clicking the **TCP/IP** link will open the network **TCP/IP** settings page.

Basic Live Search	VISIX A	nalytic Sensor	<b>3×LOGIC</b>
Basic Configuration	Setup > Network Configuration > TC	P/IP	
<ul> <li>Midee</li> </ul>	IP Address Configuration		
• Video	🗹 Enable IPv4		
Event Configuration     Network Configuration	<ul> <li>Obtain an IP address vi</li> <li>IP address :</li> </ul>	a DHCP	
TCP/IP	Subnet mask :	0.0.0.0	
Web Server	Gateway address :	0.0.0.0	
NTP	A start of the internal	4	
UPnP	Use the following IP add IP address :	10 . 1 . 13 . 45 Test	
RTSP/RTP	Subnet mask :	255.255.224.0	
RTMP	Gateway address :	10 . 1 . 10 . 254	
mDNS	Enable IPv6		
WS-Discovery			
SMTP (E-Mail)	DNS Configuration		
DDNS	Primary DNS server :	8.8.8.8	
SNMP	Secondary DNS server :	8.8.4.4	
IP Filtering		-	
Hosted Service	Host Configuration		
	Host name : VX-2A	A-IMD-X	
<ul> <li>Storage</li> </ul>	Link-Local Address		
VCA	Enable Auto-Configuration lin	k-local address	
Maintenance	IP address -	169 254 5 5	
<ul> <li>Activation</li> </ul>	a duress i		
About	Subnet mask :	255.255.0.0 Renew	
	_	Apply	

Figure 7-45: Setup Tab – Network Configuration Menu – TCP/IP Settings

2). From the TCP/IP settings page, a user may edit a camera's TCP/IP settings. This includes all configurable settings from the Basic Tab>Camera Configuration> Network settings (IP Settings, DNS Server settings pages as well as the ability to enable IPv6 and configure host name and local link address details). These settings can also be accessed via the Advanced Tab>Basic Configuration Menu>Network Settings.

Network Setting	Description
IP Address Configuration	<ul> <li>Select the method by which the cameras will obtain an IP address:</li> <li>Obtain an IP Address via DHCP – Select this method to have your router's DHCP function automatically assign the camera's network connection settings. This method is enabled by default. The automatically-generated IP, Subnet Mask and Gateway addresses will be listed directly underneath.</li> <li>i. Use the following IP Address (Manual Configuration) – Select this option to manually enter network connection settings. IP Address, Subnet Mask and Gateway Addresses can be manually entered directly underneath this setting. Clicking the Test button will confirm the validity of the network connection addresses you have entered.</li> <li>ii. To enable IPv6 protocol, click Enable IPv6. For more information on IPv6 settings, see IPv6 Settings Configuration, below.</li> </ul>

Network Setting	Description
DNS Configuration	Enter in Primary and Secondary DNS Server connection information.
Host Configuration	Configure the device host name.
	Checking-off Enable Auto-Configuration Link-Local Address will generate an
Link – Local Address	alternate internal IP address which can also be used to connect to the camera,
	access the UI via browser, etc when on the same network as the camera.

# **NETWORK CONFIGURATION MENU - TCP/IP SETTINGS - IPV6 SETTINGS CONFIGURATION**

## Steps:

1). When the enable IPv6 box is checked, IPv6 settings fields will deploy (pictured below).

Enable IPv6
IP address (Information) :
Enable accept router advertisements
Enable DHCP
DHCP type : auto
IP address :
Prefix length : 128 (0 128, 128)
Default router :
Figure 7.46: Setup Tab. Network Configuration Manuer TCD/ID Settings IDv6 Settings

Figure 7-46: Setup Tab –Network Configuration Menu – TCP/IP Settings – IPv6 Settings

IPv6 Setting	Description		
Enable Accept Router Advertisements	<b>Enable Accept Router Advertisements</b> will allow the camera to accept router advertisements, signaling device availability and connectivity to the host router.		
Enable DHCP	<b>Enable DHCP</b> for automatic IP address assignment. Select a <b>DHCP Type</b> from the drop-down menu.		
IP Address	The device IP address. If DHCP is not enabled, the user may assign an address.		
Prefix Length	Assign an address prefix length.		
Default Router	Enter the default router address.		

#### WEB SERVER SETTINGS

# Steps:

1). Opening the **Setup Tab>Network Configuration** drop-down menu and clicking the **TCP/IP** link will open the network **TCP/IP** settings page.

Basic Live Search	Setup VISIX Analytic Sensor	<b>3×LOGIC</b>
<ul> <li>Basic Configuration</li> </ul>	Setup > Network Configuration > Web Server	
▶ Video	Configuration	
Event Configuration	○ HTTPS	
<ul> <li>Network Configuration</li> </ul>	HTTP	
TCD/ID	TCP/IP port number of HTTP : 80 (1 65535)	
Web Server	TCP/IP port number of HTTPS : 443 (1 65535)	
NTP	Authentication Type : basic 🔽	
UPnP	Annhy	
RTSP/RTP	Арріу	
Figure	2-47: Setup Tab – Network Configuration Menu – Web 3	Server Settings

- From the Web Server settings form, a user may configure the camera's web server connection settings. Configurable settings include choosing the hypertext protocol (HTTP or HTTPS), assigning separate port numbers for each protocol and choosing the Authentication Type (basic or digest) for the active protocol.
- 3). Click **Apply** to save any new changes to the **Web Server** settings.

## **NTP SETTINGS**

Basic Live Search Setup

#### Steps:

1). Opening the **Setup Tab>Network Configuration** drop-down menu and clicking the **NTP** link will open the network **NTP** settings page.

	V	ISIX Analytic Sensor	3×LOGIC
Basic Configuration	Setup > Network Config	uration > NTP(SNTP)	
▶ Video	NTP Server Lists		
Event Configuration	NTP Server 1 :	time.windows.com	
<ul> <li>Network Configuration</li> </ul>	NTP Server 2 :	clock.isc.org Test	
700 (10	NTP Server 3 :	ntp.shoa.cl Test	
TCP/IP	NTP Server 4 :	time.bora.net Test	
web Server			
NIP	Figure 7-48: Setur	Tab –Network Configuration Menu	- NTP Settings

- 2). From the **NTP** settings page, a user may enter NTP server connection info for time synchronization purposes. Up to four NTP servers can be added.
- 3). After entering a time server address, click the **Test** button to confirm a connection between the camera and the selected NTP Server. If the test fails, confirm you have entered in the correct address for the NTP Server.
- 4). Click **Apply** to save settings changes.

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#### **UPNP SETTINGS**

Basic Live Search Setup

#### Steps:

Opening the Setup Tab>Network Configuration drop-down menu and clicking the UPnP link 1). will open the network **UPnP** settings page.

		VISIX Analytic Sensor	<b>3×LOGIC</b>
Basic Configuration	Setup > Network Cor	nfiguration > UPnP	
▶ Video	Configuration		
Event Configuration	Enable		
<ul> <li>Network Configuration</li> </ul>	Friendly name :	VX-2A-IMD-X	
TCP/IP		Apply	
Web Server			
NTP			
UPnP			

Figure 7-49: Setup Tab – Network Configuration Menu – UPnP Settings

- 2). From the UPnP settings page a user may enable UPnP. UPnP (Universal Plug and Play) is a set of networking protocols that permits networked devices mobile devices to seamlessly discover each other's presence on the network and establish functional network services for data sharing, communications, and entertainment. UPnP is intended primarily for residential networks without enterprise-class devices.
- 3). Check-off the Enable box to enable UPnP. A user may also enter a device name. The camera model number will be used as the default name.
- 4). Click **Apply** to save changes to UPnP settings.

# **RTSP/RTP SETTINGS**

#### Steps:

Opening the Setup Tab>Network Configuration drop-down menu and clicking the RTSP link 1). will open the network **RTSP** settings page.

#### **RTSP CONFIGURATION**

RTSP Configuration		
Port :	554	(1 65535)
Enable RTSP Authent	lication	
Authentication Type :	digest 🗸	

Figure 7-50: Setup Tab – Network Configuration Menu – RTSP/RTP Settings – RTSP Configuration

#### Steps:

Under the RTSP Configuration section of the RTSP settings page, a user may configure an RTSP 1). port (default is 554). The user may also enable and choose the RTSP Authentication Type (digest or basic).

#### SRTP

SRTP	
Enable	
Protection profile :	SRTP_AES128_CM_HMAC_SHA1_80
Master key :	Key generation
Salt key :	Key generation

Figure 7-50: Setup Tab – Network Configuration Menu – RTSP/RTP Settings – SRTP Configuration

#### Steps:

 Under the SRTP (Secure RTP) Configuration section of the RTSP settings page, a user may enable SRTP, a Protection Profile type may be chosen and Master and Salt keys may be generated.

## UNICAST

First Stream Secon	d Stream
Unicast	
<ul> <li>Enable stream</li> </ul>	
Session	
Name :	ufirststream
Enable metada	ta
Enable ONVIF	netadata
Enable QoS DSCP	
Video DSCP :	0 (063)
Meta DSCP :	0 (063)
ONVIE Make DECD	0 (0 63)

Figure 7-51: Setup Tab –Network Configuration Menu – RTSP/RTP Settings –Unicast Configuration

#### Steps:

1). Under the **Unicast** section of the **RTSP** settings page, a user may enable and configure Unicast settings for the camera's First (Main) and Second (Sub) streams. Before configuring, make sure the desired stream tab has been selected (above the **Unicast** section header).

Unicast Setting	Description			
Name	Name the unicast stream.			
Enable Metadata	Check-off this box to include metadata with the stream transmission.			
Enable ONV/IE Metadata	Check-off this box to include ONVIF metadata with the stream			
	transmission.			
Enable QoS DSCP	Enable Quality of Service differentiated services.			
Video / Mate / ONV//F	Assign DSCP levels for Video, Meta and ONVIF Meta. Low-latency services			
Meta DSCP	will be dedicated starting with components featuring the highest DSCP			
	value.			

# MULTICAST

Multicast	
<ul> <li>Enable stream</li> </ul>	
Enable always multicas	st
Video IP address :	0 . 0 . 0 . 0 (Enter 0.0.0.0 for automatic configuration)
Video port :	18888 (1 65535)
Meta IP address :	0 . 0 . 0 . 0 (Enter 0.0.0.0 for automatic configuration)
Meta port :	18892 (1 65535)
ONVIF Meta IP address :	0 . 0 . 0 . 0 (Enter 0.0.0.0 for automatic configuration)
ONVIF Meta port :	18894 (1 65535)
TTL :	1
Session	
Name :	m firststream
Enable metadata	
Enable ONVIF meta	adata
Enable QoS DSCP	
Video DSCP :	0 (0 63)
Meta DSCP :	0 (063)
ONVIF Meta DSCP :	0 (063)

Figure 7-52: Setup Tab – Network Configuration Menu – RTSP/RTP Settings – Multicast Configuration

Steps:

 Under the Multicast section of the RTSP settings page, a user may enable and configure Multicast settings for the camera's First (Main) and Second (Sub) streams. Before configuring, make sure the desired stream tab has been selected (above the Unicast section header). Configurable settings include:

Multicast Setting	Description			
Enable Always Multicast	Enabling this option will have the selected stream use UDP multicast indefinitely for RTSP streaming.			
Video IP Address/Port	Enter a static address (or leave blank for auto configuration) for broadcast of UDP Multicast video.			
Meta IP Address/Port	Enter a static address (or leave blank for auto configuration) for broadcast of UDP Multicast meta data.			
ONVIF Meta IP Address/Port	Enter a static address (or leave blank for auto configuration) for broadcast of UDP Multicast ONVIF meta data.			
TTL	Set the TTL threshold. The TTL threshold is a time value which delineates how long a data packet can exist across an information network (local intranet, internet, etc) before becoming invalidated. Approximation of TTL threshold value effects are listed below: <b>0</b> - Restricted to the same host. Won't be output by any interface. <b>1</b> - Restricted to the same subnet. Won't be forwarded by a router. <b>32</b> - Restricted to the same site, organization or department. <b>64</b> - Restricted to the same region. <b>128</b> - Restricted to the same continent. <b>255</b> - Unrestricted in scope; Global.			
Name	Name the multicast stream.			
Enable QoS DSCP	Enable Quality of Service differentiated services.			
Video / Meta / ONVIF Meta DSCP	Assign DSCP levels for <b>Video, Meta and ONVIF</b> Meta. Low-latency services will be dedicated starting with components featuring the highest DSCP value.			

## **RTMP SETTINGS**

## Steps:

1). Opening the **Setup Tab>Network Configuration** drop-down menu and clicking the **RTMP** link will open the network **RTMP** settings page.

Basic Live Search	Setup	/ISIX Analy	tic Sensor	3×LOGIC
Basic Configuration	Setup > Network Confi	guration > RTMP		
Video	Configuration			
Event Configuration	🗹 Enable			
<ul> <li>Network Configuration</li> </ul>	Port :	1935	(1024 65535)	
TCP/IP	Chunk size :	819200	(4096 2147483646)	
Web Server	First Stream			
NTP	Name :	live		
UPnP	Instance :	first		
RTSP/RTP	URL -	rtmp://10.1.13	.45:1935/live/first	
RTMP	UNE I	-		
mDNS	Second Stream			
WS-Discovery	Name :	live		
SMTP (E-Mail)	Instance :	second		
DDNS	URI :	rtmp://10.1.13	.45:1935/live/second	
SNMP				
IP Filtering			Apply	

Figure 7-53: Setup Tab – Network Configuration Menu – RTMP Settings

- 2). From the RTMP Settings page, a user may enable RTMP. Real Time Messaging Protocol (RTMP) was initially a proprietary protocol developed by Macromedia for streaming audio, video and data over the Internet, between a Flash player and a server. V-Series All-in-One cameras can broadcast either of their stream profiles using RTMP.
- 3). Check-off the **Enable** box to initiate RTMP streaming. The user may name the RTMP **Name and Instance** for both first and second streams. RTMP streaming URL for both stream profiles will be displayed.
- 4). Click **Apply** to save RTMP settings changes.

#### **MDNS SETTINGS**

#### Steps:

1). Opening the **Setup Tab>Network Configuration** drop-down menu and clicking the **mDNS** link will open the network **mDNS** settings page.

Basic Live Search	Setup	SIX Analytic Sensor	3×LOGIC
Basic Configuration	Setup > Network Configu	ration > mDNS	
Video	Enable		
<ul> <li>Event Configuration</li> <li>Network Configuration</li> </ul>	Friendly name :	VX-2A-IMD-X	
RTMP		Арріу	
mDNS			

Figure 7-54: Setup Tab – Network Configuration Menu – mDNS Settings

# NOTE:

The **multicast Domain Name System (mDNS)** resolves host names to IP addresses within small networks that do not include a local name server. It is a zero-configuration service, using essentially the same programming interfaces, packet formats and operating semantics as the unicast Domain Name System (DNS).

2). From the mDNS settings page, a user may check-off **Enable** to enable mDNS for this camera and assign a device **Name**. Click **Apply** to save settings changes.

## WS-DISCOVERY SETTINGS

#### Steps:

1). Opening the **Setup Tab>Network Configuration** drop-down menu and clicking the **WS Discovery** link will open the network **WS Discover** settings page.

Basic Live Search	VISIX Analytic Sensor	<b>3×LOGIC</b>
Basic Configuration	Setup > Network Configuration > WS-Discovery	
▶ Video	Configuration	
Event Configuration		
<ul> <li>Network Configuration</li> </ul>	Apply	
WS-Discovery		

Figure 7-55: Setup Tab – Network Configuration Menu – WS-Discovery Settings

- 2). Check-off the Enable box to enable WS Discovery (Web Services Dynamic Discovery).
- 3). Click **Apply** to save settings changes.

# **SMTP (E-MAIL SERVER) SETTINGS**

#### Steps:

1). Opening the **Setup Tab>Network Configuration** drop-down menu and clicking the **SMTP** link will open the network **SMTP** settings page.

Basic Live Search S	Setup VISIX	Analytic Senso	r	<b>3×LOGIC</b>
Basic Configuration	Setup > Network Configuration >	SMTP (E-Mail)		
▶ Video	Email Sender			
Event Configuration	Sender's name :			
Network Configuration	From email address :			
TCP/IP	SMTP			
Web Server	Mail server address :			
NTP	Mail server port :	(1 65	535)	
UPnP	Enable encrypted connecti	on (SSL)		
RTSP/RTP	Use authentication to log i	n this server		
RTMP				
mDNS	Test			
WS-Discovery	Send test mail to :		Test	
SMTP (E-Mail)		Apply		

Figure 7-56: Setup Tab – Network Configuration Menu – SMTP Settings

2). From the **SMTP** settings page, a user may configure e-mail server settings. SMTP settings must be configured correctly to allow for the successful transmission of event e-mail notifications. Configurable settings include:

SMTP Setting Category	Description
E-Mail Sender	Configure a Sender Name (to be displayed in the From email field) and From Email Address.
SMTP	Configure the SMTP Mail Server Address and Port. Check-off Enable Encrypted Connection (SSL) to enable SSL encryption of e-mails sent through the configured SMTP Server. Check-off Use Authentication to Log In This Server to require login when
Test	Configure a test email. Enter the test recipient address and click the <b>Test</b> button to confirm successful SMTP configuration.

3). Click **Apply** to save changes to SMTP settings.

## **DDNS SETTINGS**

## Steps:

1). Opening the **Setup Tab>Network Configuration** drop-down menu and clicking the **DDNS** link will open the network **DDNS** settings page.

Basic Live Search	Setup	IX Analytic S	ensor	<b>3×LOGIC</b>
<ul> <li>Basic Configuration</li> </ul>	Setup > Network Configurat	ion > DDNS		
Video	Configuration			
Event Configuration	Enable DDNS			
<ul> <li>Network Configuration</li> </ul>	DDNS Service Provider			
TCP/IP	Service Provider :	DynDNS.org 🔽		
Web Server	DDNS Setting			
NTP	Domain name :			
UPnP	Update time :	600	(1 864000 sec, 10days)	
RTSP/RTP	User name :			
RTMP				
SMTP (E-Mail)	Password :			
DDNS			Apply	

Figure 7-57: Setup Tab – Network Configuration Menu – DDNS Settings

2). From the **DDNS (Dynamic Domain Name System)** settings page, a user may enable DDNS and configure related settings. Available configurable settings include:

DDNS Setting	Description	
Service Provider	Choose the DDNS service provider (DynDNS.org, FreeDNS.org, NO-IP.com)	
Domain Name	Configure a domain name for use with the DDNS service.	
Update Time	Configure a DDNS update interval (in seconds).	
Username and	Configure login credentials if required. Field availability is dependent on	
Password	chosen DDNS service provider.	

3). Click **Apply** to save DDNS settings changes.

## **SNMP SETTINGS**

## Steps:

1). Opening the **Setup Tab>Network Configuration** drop-down menu and clicking the **SNMP** link will open the network **SNMP** settings page.

Basic Live Search	Setup	SIX Analytic Sens	or 3×LOGIC
<ul> <li>Basic Configuration</li> <li>Video</li> <li>Event Configuration</li> <li>Network Configuration</li> </ul>	Setup > Network Configura Configuration Enable SNMP Version	ation > SNMP	
TCP/IP Web Server NTP	v2c V3     SNMP Description     Location :		
UPnP RTSP/RTP RTMP mDNS	Contact : VACM Setting Read Community :	public	
WS-Discovery SMTP (E-Mail) DDNS	Trap Setting Trap Ver1.0 :	Address :	Community :
SNMP IP Filtering	Trap Ver2.0 :	Address :	Community :

Figure 7-58: Setup Tab – Network Configuration Menu – SNMP Settings

# NOTE:

**SNMP (Simple Network Management Protocol)** is an Internet-standard protocol for collecting and organizing information about managed devices on IP networks and for modifying that information to change device behavior.

2). From the SNMP settings page, a user may **Enable** SNMP and configure the following related settings:

SNMP Setting Category	Description
SMNP VersionSelect the SMNP version to use with the camera.	
SMNP Description Configure SMNP Location and Contact description informatio	
VACM Setting	Configure the View-based Access Control Model Read Community. The camera default settings is <b>public (read-only). Private (read-write)</b> can also be used.
Trap Setting	Define an Address and Community for Trap Ver 1.0 and 2.0.

3). Click **Apply** to save SNMP settings changes.

#### **IP FILTERING SETTINGS**

## Steps:

1). Opening the **Setup Tab>Network Configuration** drop-down menu and clicking the **IP Filtering** link will open the network **IP Filtering** settings page.

Basic Live Search	VISIX Analytic Sensor	<b>3×LOGIC</b>
Basic Configuration	Setup > Network Configuration > IP Filtering	
Video	Configuration	
Event Configuration	Enable	
<ul> <li>Network Configuration</li> </ul>	☑ Always allow ping request	
TCP/IP	Allow admin IP :	
Web Server	Policy	
NTP	🔿 Allow 🖲 Deny	
UPnP	Filtered IP Addresses	
RTSP/RTP		
RTMP		
mDNS		
SNMP		
IP Filtering	Add	
Hosted Service	Apply	

Figure 7-59: Setup Tab – Network Configuration Menu – IP Filtering Settings

# NOTE:

IP Filtering is a simple process which essentially decides which types of IP datagrams will be processed using normal procedures and which will be discarded/ignored.

2). From the **IP Filtering** settings page, a user may enable IP filtering and configure the following related settings.

IP Filtering Setting	Description	
Always Allow Ping Request	If enabled, the camera will accept pings, regardless if the incoming ping is sent from a device with a filtered IP address.	
Allow/Deny	Set the IP Filtering Mode to <b>Allow</b> or <b>Deny.</b> Based on your choice, addresses in the <b>Filtered IP Addresses</b> list will be denied or allowed.	
Add/Remove	Select the <b>Add</b> button to add an IP address for filtering. Enter an IP Address and click <b>OK</b> to save the new address. To remove an existing address from the filtered list, select the address in the list and click <b>Remove.</b> You will be prompted to confirm the removal. Click <b>OK</b> to confirm.	

3). Click Apply to save changes to IP Filtering settings.

#### **HOSTED SERVICE SETTINGS**

## Steps:

1). Opening the **Setup Tab>Network Configuration** drop-down menu and clicking the **Hosted Service** link will open the **Hosted Service** settings page.

Basic Live Search :	Setup	IX Analytic Sensor	3×LOGIC
<ul> <li>Basic Configuration</li> </ul>	Setup > Network Configurati	on > Hosted Service	
▶ Video	Configuration		
Event Configuration	L Enable		
<ul> <li>Network Configuration</li> </ul>	Tunneled Link Setup Se	etting	
mDNS	Server address :		
DDNS	Server port :	5000	(1 65535)
SNMP	Update interval :	60	(1 ~ 1440 min)
IP Filtering			
Hosted Service		Apply	

Figure 7-60: Setup Tab – Network Configuration Menu – Hosted Service Settings

2). From the **Hosted Service** settings page, a user may enable configure connection settings for camera integration with a hosted service. Available configurable settings include:

Hosted Service Settings	Description
Server Address and Port	Enter the hosted service IP Address and Port.
Update Interval	Enter an update interval (in minutes)

3). Click **Apply** to save hosted service settings.

# 7.5 Storage Menu

#### **SD SETTINGS**

# Steps:

1). Opening the **Setup Tab>Storage** drop-down menu and clicking the **SD** link will open the **SD** settings page.

Basic Live Search S	Setup V	/ISIX Analyti	c Sensor	3×LOGIC
Basic Configuration	Setup > Storage > SD			
Video	SD Storage List			
<ul> <li>Event Configuration</li> </ul>	Choose a storage de	evice	Detail storage information	
Network Configuration	Disk Siz	ze		
* Storage	MMC 609	905MB	Disk :MMC	
+ Storage			Type :ext3	
SD			Type Texto	
FTP			Total capacity :60905MB	
Recording			Free space :49281MB	
Continuous			Status :connected	
► VCA	Refresh SD Device L	List		
Maintenance	Record Device Cont	trol		
Activation	Format(vfat) Fo	ormat(ext3) Mount	Eject	

Figure 7-61: Setup Tab – Storage Menu – SD Settings

 From the SD Card storage settings page, a user may choose their SD storage device, view information on the chosen device, change storage format or mount and eject storage devices. These settings can also be accessed from <u>Basic Tab>Storage Configuration Menu>SD</u>.

# **SD STORAGE LIST**

In the SD Storage List section, a user may select their desired storage device from the list. The following device details will be generated to the right of the device list after making a selection:

Storage Detail	Description
Disk	The storage device disk type of the selected device.
Туре	The storage disk format of the selected device.
Total Capacity	The totally storage capacity of the selected device.
Free Space	Lists the remaining free space on the selected device.
Status	Current storage device status.

# **RECORDING DEVICE CONTROL**

In the Record Device Control section, a user may select the desired storage format (vfat, ext3) and can also mount an inactive storage device or eject the currently active storage device:

Device Control	Description
Format (vfat)	Use <b>vfat</b> format for the selected device. Format progress will be displayed. <b>WARNING:</b> Re-formatting the storage device will wipe all stored footage. Download any footage you wish to retain before beginning the format process.
Format (ext3)	Use <b>ext3</b> format for the selected device. Format progress will be displayed. <b>WARNING:</b> Re-formatting the storage device will wipe all stored footage. Download any footage you wish to retain before beginning the format process.
Mount	Mount the currently selected device. This option is only available if the currently selected device is inactive.
Eject	Eject the currently selected device. This option is only available if the selected device is mounted.

## **FTP SETTINGS**

## Steps:

1). Opening the **Setup Tab>Storage** drop-down menu and clicking the **FTP** link will open the **FTP** storage settings page.

Basic Live Search S	Setup	SIX Analytic Sensor	3×LOGIC
Basic Configuration	Setup > Storage > FTP		
▶ Video	Configuration		
Event Configuration	Name :		
Network Configuration	IP address :		
▼ Storage	Port(1 65535) :	21	
SD	Target directory :		
FTP	Account :		
Recording	Password :		
Continuous	File name format :	E30E01723 _YYYYMMddhhmmssXXX.dat	
► VCA		Apply	
	Figure 7-62: S	Setup Tab –Storage Menu –FTP Sett	ings

2). If uploading footage data to an FTP destination is desired, a user may configure connection settings from for their desired FTP service on the **FTP Settings page.** 

FTP Setting	Description
Name	Name the FTP server. This name will be used to identify this particular FTP when selecting it for storage purposes.
IP Address/Port	Enter network connection values for the desired FTP Server.
Target Directory	Enter the target destination directory on the FTP for storing uploaded files.
Account / Password	Enter the user login credentials for the FTP. 3xLOGIC recommends using an administrative level account when possible to avoid permissions conflicts.
Filename Format	Assign the filename format for the files uploaded to the FTP.

3). Click **Apply** to save changes to FTP storage settings.

#### RECORDING

## Steps:

1). Opening the **Setup Tab>Storage** drop-down menu and clicking the **Recording** link will open the **Recording** storage settings page.

Basic Live Search S	VISIX Analytic Sensor	<b>3×LOGIC</b>
Basic Configuration	Setup > Storage > Recording	
Video	Recording Type	
Event Configuration	○ Continuous    Event ○ None	
Network Configuration	Recording Storage Options	
✓ Storage	Storage device : sd 🗸	
SD	Recording Setting	
FTP	Recording resource : 🛛 Video 🗌 Audio 🗹 VCAmeta 🗹 MDmeta	
Recording	Recording hold off time : 5 (0 60 sec)	
Continuous	Stream source : First stream 🔽	
► VCA	Apply	
<ul> <li>Maintananco</li> </ul>		

Figure 7-63: Setup Tab – Storage Menu – Recording Settings

2). From the **Recording** settings page, a user may configure settings related to the cameras recording functionality.

Configurable recording settings include:

Recording Setting Category	Description
Recording Type	<ul> <li>Select a recording mode for the cameras. The following modes are:</li> <li>Continuous – Select Continuous recording mode to have the camera constantly record.</li> <li>Event - Select Event recording mode to have the camera begin recording based on an events (i.e. motion detection, VCA tripwire, DIO etc).</li> </ul>
	<ul> <li>None – Select the None mode to use the camera as a live-view only device.</li> </ul>
	Select a storage device from the drop-down menu.
	If Continuous is selected as the Recording Type, the user
	must select the storage <b>Recycling</b> mode. Choose <b>Stop</b>
Recording Storage Options	<b>Recording</b> to halt recording when storage is at full capacity.
	Choose Delete Files and Recycle (Oldest First) to continue
	recording and overwrite the oldest files on the storage
	device when storage has reached full capacity.

Recording Setting Category	Description
Recording Settings (With <i>Event</i> Recording Type)	<ul> <li>Recording Resource - Select recording resources. Choose from Video, Audio (for audio-capable camera models only), VCA Meta Data and Motion Detection (MD) Meta Data.</li> <li>Chosen resources will be captured when recording.</li> <li>Specify the length of time the camera will continue to record after a trigger has been deactivated by setting a Recording Hold Off Time value (seconds). A maximum of one minute (60 seconds) can be configured.</li> <li>Select the recording Stream Source (First/Main Stream, Second/Substream).from the available drop-down menu.</li> </ul>
Recording Settings (With <i>Continuous</i> Recording Type)	<ul> <li>Filename Prefix – Designate a filename prefix for continuous recording files.</li> <li>Recording Resource - Select recording resources. Video</li> <li>Only is the recommended (and default) setting to maximize storage utilization.</li> <li>Select the maximum continuous Recording File size/Duration by selecting and adjusting the Size or Time slider accordingly. When the maximum limit is reached, a new file will begin recording and the current file will be available for download from the Continuous storage page.</li> <li>Select the recording Stream Source (First/Main Stream, Second/Substream).from the available drop-down menu.</li> </ul>
Instant Recording ( <i>Continuous</i> Recording Type Only)	Configure an Instant Recording time interval (in seconds). Use this feature to quickly create a footage file without waiting until the configured Maximum Filesize/Duration is reached. Click Start to end the current file and begin recording a new file for the length you have configured.

3). Click Apply to save Recording settings changes.

#### **CONTINUOUS (RECORDING) SETTINGS**

Basic Live Search Setup

#### Steps:

Opening the Setup Tab>Storage drop-down menu and clicking the Continuous link will open 1). the **Continuous** storage settings page.

		VISIX Analytic Sens	sor 3	×LO	GI
Basic Configuration	Setup > 9	Storage > Continuous			
Video				Search :	x
Event Configuration	Num	FileName	DateTime	Size	Download
Network Configuration	1	REC-C20151214-101228-0000000073.avi	12/14/2015 10:12:28	220.8M	[Recordin
Storage	2	REC-C20151214-093447-0000000072.avi	12/14/2015 09:34:47	496.0M	[Downloa
	3	REC-C20151214-085712-0000000071.avi	12/14/2015 08:57:12	496.1M	[Downloa
SD	4	REC-C20151214-081744-0000000070.avi	12/14/2015 08:17:44	496.4M	[Downloa
FTP	5	REC-C20151214-073742-0000000069.avi	12/14/2015 07:37:42	496.2M	[Downloa
Recording	6	REC-C20151214-065727-000000068.avi	12/14/2015 06:57:27	496.2M	[Downloa
Continuous	7	REC-C20151214-061713-000000067.avi	12/14/2015 06:17:13	496.1M	[Downloa
	8	REC-C20151214-053648-000000066.avi	12/14/2015 05:36:48	496.2M	[Downloa
VCA	9	REC-C20151214-045634-0000000065.avi	12/14/2015 04:56:34	496.3M	[Downloa
Maintenance	10	REC-C20151214-041622-0000000064.avi	12/14/2015 04:16:22	496.3M	[Downloa
Activation	11	REC-C20151214-033617-000000063.avi	12/14/2015 03:36:17	496.2M	[Downloa
About	12	REC-C20151214-025613-000000062.avi	12/14/2015 02:56:13	496.0M	[Downloa
	13	REC-C20151214-021613-000000061.avi	12/14/2015 02:16:13	496.3M	[Downloa

Figure 7-64: Setup Tab – Storage Menu – Continuous (Recording) Settings

- 2). From the Continuous storage settings page, a user may access any files recorded using Continuous recording type. File info including File Name, Date/Time range, and Size (in MB) will be displayed for each available file. If a file is currently being recorded, it will display as Recording under the Download column.
- 3). To download an available file, simply click the corresponding **Download** link.
- 4). Use the navigation controls at the bottom of the file list to navigate multiple pages of files.

#### NOTE:

Continuous footage files can only be accessed (downloaded) from this page and cannot be viewed via the Search (Playback tab).

# 7.6 VCA Menu

# ENABLE/DISABLE

# Steps:

1). Opening the **Setup Tab>VCA** drop-down menu and clicking the **Enable/Disable** link will open the VCA **Enable/Disable** settings page.

Basic Live Search Setup

# **VISIX Analytic Sensor**

**3×LOGIC** 

<ul> <li>Basic Configuration</li> </ul>	VCA Configuration
▶ Video	Enable Go to Stream Configuration
Event Configuration	VCA Features
Network Configuration	☑ Object Tracking
Storage	Counting Line
▼ VCA	Tracking mode
Enable/Disable	O Surveillance  People Select surveillance tracking for intruder detection or outdoor scenes. Select people tracking for tracking multiple people in index reaser.
Zones and Rules Calibration	Apply Restore Defaults
al - 4 - 6	Figure 7-65: Setup Tab –VCA Menu –Enable/Disable Settings

2). From the VCA **Enable/Disable** settings page, a user may enable VCA and configure the following settings:

VCA Setting	Description
	Enable desired VCA features:
VCA Features	<b>Object Tracking</b> - Enable this function to use the Object Tracking analytic. Object tracking analytics are generally utilized to count queue times, trigger no-customer present exceptions, etc
	<b>Counting Line</b> - Enable this function to use the Counting Line analytic.
	entering/exiting a space.
	Choose the VCA tracking mode.
Tracking Mode	Surveillance – Surveillance tracking mode should be used for intruder detection or outdoor surveillance.
	<b>People</b> – People tracking mode is most suitable for tracking multiple
	people in indoor, high traffic environments. People tracking requires an advanced All-in-One Analytics license.

- 3). To restore VCA Enable/Disable settings to their factory default state, click Restore Defaults
- 4). Click **Apply** to save settings changes.

#### **ZONES AND RULES SETTINGS**

#### Steps:

- 1). Opening the **Setup Tab>VCA** drop-down menu and clicking the **Zones and Rules** link will open the VCA **Zones and Rules** settings page.
- From the VCA Zones and Rules page, a user may perform the majority of VCA analytics configurations. The Zones and Rules settings page consists of two separate tabs. The Zones & Rules tab and the Logical Rules tab. By default, the page will open with the Zones & Rules tab deployed.

## **ZONES AND RULES SETTINGS – ZONES & RULES TAB**

#### Steps:

1). On the **Zones and Rules** tab, **Zones, Lines** and **Counters** (and the analytics **Rules** pertaining to each) can all be constructed or placed within the live preview image.

Basic Configuration	Setup > VCA > Z	ones and Rules				
Video	Zones and Rules					
Event Configuration	Zones & Rules	Logical Kules		Tree	Value	0
Network Configuration			The second second second	All zones and counter	, vuide	
Network conliguration				E SZones		
Storage				Zone 0	Zone 0	
VCA				Zone 1	Zone 1	
For the (Direction	and the second			⊡ • • Counters		
Enable/Disable	G G				Counter 0	
Zones and Rules						
Calibration		South States and States	Destauration of the second second			
			ALTER DECEMBER 2010 10 10 10 10 10 10 10 10 10 10 10 10			
Classification	,			1.		
Classification Tamper Detection	01					
Classification Tamper Detection Scene Change	0.0					
Classification Tamper Detection Scene Change Burnt-in Annotation						H
Classification Tamper Detection Scene Change Burnt-in Annotation Counter Reporting	0.0	1				-
Classification Tamper Detection Scene Change Burnt-in Annotation Counter Reporting	00					-0
Classification Tamper Detection Scene Change Burnt-in Annotation Counter Reporting Advanced						-(
Classification Tamper Detection Scene Change Burnt-in Annotation Counter Reporting Advanced Import/Export						-0
Classification Tamper Detection Scene Change Burnt-in Annotation Counter Reporting Advanced Import/Export Maintenance	ID Rule Nam	ne Zone Name	Object Type Start Time End T	inter a		-(
Classification Tamper Detection Scene Change Burnt-in Annotation Counter Reporting Advanced Import/Export Maintenance	ID Rule Nam	ne Zone Name	Object Type Start Time End T	ime		-(

Figure 7-66: Setup Tab –VCA Menu –Zones and Rules Settings – Zones & Rules Tab

- 2). The Zones & Rules tab consists of three segments:
  - i. **Preview Area** A live preview of the camera's image. In the preview area, user may overlay analytics Zones, Lines and Counters for use with the analytics engine.
  - ii. Zone and Rule List Recent object interaction with zones/lines will be listed in this area with the following information provided for each entry: ID, Rule Name, Zone Name, Object Type, Start Time, and End Time.
  - iii. Rule Configuration Menu When a zone, line or counter is selected, rule options pertaining to the selected elements functionality will be available for configuration in this menu. When no item is actively selected, this section will display all zones/lines and counters currently configured on the device (as pictured in the above example).
- 3). To create analytics rules or zones, right-click within the preview area.

# The following menu options will be available:

Right-Click Option	Description
Zone/Line	Create Zone – Create an analytics zone. Zones are often used for queue wait and dwell timers. Create Line – Create an analytics line/tripwire. Lines are generally used for people counting.
Counter	Add Counter – Create a counter. Counters can be used to tally present objects in a dwell zone. Reset All Counters – Reset all active counters to zero.
Display	Display Blobs – Display motion blob. This option is generally used for         Visual diagnostics and is only available when Blob has been         Display Objects – From this men, the user may enable several object         display Objects – From this men, the user may enable several object         display Objects – From this men, the user may enable several object         display Objects – From this men, the user may enable several object         objects on-screen.       Display Object Height –         Display Objects in       Value.         Multiple Colors – Use       Display Object Area –         differing colors for object       Display Object Area –         differing colors for object       Display Object Area –         objects are present.       Display Object         objects – Display objects       Value (in square meters)         objects – Display objects       Display Object         Objects – Display objects       Classification – List the         object facter in field of       visions but does not         enter dwell zone/ cross       counting line).         Display Object Speed –       Display Object Speed –         Display System Messages – Display analytics system messages generated
Pause	Pause the live video preview on the current frame.

#### **CREATE ZONE**

#### Steps:

- 1). To create a zone, right-click within the preview area and select **Zone/Line>Create Zone**.
- 2). Draw the zone within the preview area as desired by clicking and dragging each corner until a satisfactory shape and position is achieved.



Figure 7-67: Setup Tab –VCA Menu –Zones and Rules Settings – Creating a Zone

3). When a zone is selected, the following options will be available in the **Rule Configuration Menu**:

VCA Zone – Rule Config.	Description
Name	Name the zone. This name will be used to refer to this particular zone throughout the cameras browser interface.
Color	Assign a color to the zone. This will allow for fast visual recognition when multiple zones are present.
Detect/Non-Detect	<ul> <li>Select the zone's detection mode.</li> <li>Detect- Detect object motion within the analytics zone.</li> <li>Non-Detect -Cease detecting objects within the camera's field of vision when they enter the analytics zone. Non-Detect zones are often utilized as a mask.</li> </ul>

VCA Zone – Rule Config.	Description
Object Class Filter	Create an <b>Object Filter</b> . Object filters can be used to filter predefined objects from triggering an analytics event. Filters can also be configured to trigger an event ONLY when a specific object class is detected within a zone. Include/Exclude – Select Include to apply analytics only to objects of the selected classification. Select Exclude to exclude objects of the selected classification from triggering analytics events. To create an <b>Object Class Filter</b> , check off a filter and choose the object class in the Value field drop-down (Filter <b>0</b> is actively filtering the <b>Clutter</b> object class in the below example). For information on configuring object classes, see <u>Classification</u> Cutting
	Settings. Enable this rule to trigger an analytics event whenever an object
Presence	comes into contact with any portion of the zone. The zone will remain triggered so long is presence is detected.
Enter	Enable this rule to trigger an analytics event whenever an object enters the zone.
Exit	Enable this rule to trigger tan analytics event whenever an object exits the zone.
Appear	Enable this rule to trigger an analytics event whenever an object appears within the zone.
Disappear	Enable this rule to trigger an analytics event whenever an object disappears from the zone.
Stopped	Enable this rule to trigger an analytics event whenever an object has stopped moving within the analytics zone for equal to or longer than the defined <b>Time (Seconds)</b> .
Dwell	Enable this rule to trigger an analytics event whenever an object has dwelled within the zone longer than the defined <b>Threshold</b> (Seconds).
Direction Filter	Enable this rule to trigger analytic events based on directional movement through the zone. A directional indicator will be overlaid over the zone. Adjust the <b>Direction</b> and <b>Acceptance</b> angle to configure a direction spectrum. Only objects travelling through the zone within this directional spectrum will trigger an analytics event.
Speed Filter	Enable this rule to trigger an analytics events whenever an object travels through the zone within the defined speed range Configure a <b>Lower Bound (km/h)</b> and <b>Upper Bound (km/h)</b> speed value to define your speed range.

VCA Zone – Rule Config.	Description
Tailgating	Enable this rule to trigger an analytics event whenever an object enters the zone within the defined <b>Time (Seconds)</b> period after another object has entered.
	If the <b>Time (Seconds)</b> value is set to 5, then anytime an object enters a zone within 5 seconds of another object, the camera will consider this tailgating and an analytics event will be triggered.
	Enable this rule to trigger an analytics event whenever an object of a specified color is detected within the zone.
Color Filter	Set a <b>Threshold (%)</b> to designate how much of an object must feature the specified color to trigger the alarm. If the Color is set to Blue, and the <b>Threshold</b> is set to 25%, than an object which is 25% blue or more will trigger an analytics event.

4). Right-clicking a zone within the preview area will deploy a menu with the following options:

VCA Zone – Right-Click Option	Description
Remove Zone	Remove the zone from the live preview. All rules associated with the zone will be deleted.
Insert/Remove Node	<b>Insert/Remove</b> a node to the zone border. Adding nodes will allow the user to further customize the shape of the zone.
Rules	Enable a rule. If a secondary setting for a rule exists (Dwell, Directional Filter, etc) default values for the secondary settings will be used.
Pause	Pause the live video preview on the current frame.

5). Click the **Apply** button to save your new VCA Zone settings.

# **CREATE LINE (TRIPWIRE)**

# Steps:

- 1). To create a line, right-click within the preview area and select **Zone/Line>Create Line**.
- 2). Draw the line within the preview area as desired by clicking and dragging to place both line endpoints.



Figure 7-68: Setup Tab – VCA Menu – Zones and Rules Settings – Creating a Line
3). When a line is selected, the following options will be available in the **Rule Configuration Menu**:

VCA Line – Rule Config.	Description
Name	Name the line. This name will be used to refer to this particular line throughout the cameras browser interface.
Color	Assign a color to the line. This will allow for fast visual recognition when multiple zones/lines are present.
Object Class Filter	Create an <b>Object Filter</b> . Object filters can be used to filter predefined objects from triggering an analytics event. Filters can also be configured to trigger an event ONLY when a specific object class has contacted the line. Include/Exclude – Select Include to trigger an event with only
	objects of the selected classification. Select <b>Exclude</b> to exclude objects of the selected classification from triggering analytics events.
	To create an <b>Object Class Filter</b> , check off a filter and choose the object class in the <b>Value</b> field drop-down ( <b>Filter 0</b> is actively filtering the <b>Clutter</b> object class in the below example).
	Include/Exclude     Include       Include/Exclude     Include       Include     Include       Image: Specific structure     Image: Specific structure       Image: Specific structure     Image: Specific structure
	For information on configuring object classes, see <u>Classification</u> <u>Settings.</u>
Presence	Enable this rule to trigger an analytics event whenever an object comes into contact with any portion of the line. The line will remain triggered so long as contact is maintained between the line and the object.
Enter	Enable this rule to trigger an analytics event whenever an object contacts the line.
Exit	Enable this rule to trigger tan analytics event whenever an object ceases contact with the line.
Appear	Enable this rule to trigger an analytics event whenever an object is detected and is already in contact with the line. This rule is generally reserved for use with zones and is not recommended for lines.
Disappear	Enable this rule to trigger an analytics event whenever the camera ceases tracking an object which was in contact with the line before tracking ceased. This rule is generally reserved for use with zones and is not recommended for use with lines (tripwires).
Stopped	Enable this rule to trigger an analytics event whenever an object has stopped moving on the line for equal or greater than the defined amount of <b>Time (Seconds)</b> .

VCA Line – Rule Config.	Description
Dwell	Enable this rule to trigger an analytics event whenever an object has dwelled on the line longer than the defined <b>Threshold</b> (Seconds). This rule is generally reserved for zones and functions similarly to the <b>Stopped</b> rule when used with a line.
Direction Filter	Enable this rule to trigger analytic events based on directional movement across the line. A directional indicator will be overlaid over the line. Adjust the <b>Direction</b> and <b>Acceptance</b> angle to configure a direction spectrum. Only objects travelling across the line within this directional spectrum will trigger an analytics event. This rule is generally reserved for use with zones, and functions similarly to the <b>Counting Line</b> rule (outlined below) when used with a Line (tripwire).
Speed Filter	Enable this rule to trigger an analytics events whenever an object travels through the zone within the defined speed range Configure a Lower Bound (km/h) and Upper Bound (km/h) speed value to define your speed range.
Tailgating	Enable this rule to trigger an analytics event whenever an object enters the zone within the defined <b>Time (Seconds)</b> period after another object has entered. If the <b>Time (Seconds)</b> value is set to 5, then anytime an object enters a zone within 5 seconds of another object, the camera will consider this tailgating and an analytics event will be triggered.
Counting Line	Enable this rule to trigger an analytics event whenever an object crosses the line in a chosen direction. <b>Directions</b> - Configure which directions to monitor by selecting <b>Direction A, Direction B,</b> or both. An on-screen overlay will be visible to demonstrate which directions correspond to A and B. <b>Width Calibration</b> - Enable <b>Width Calibration</b> to indicate the anticipated width of counted objects. An overlay will appear in the live preview, over the line. Small lines on either side show the minimum and maximum object widths. Use your mouse-wheel or click-and-drag the marker to change the width. <b>Shadow Filter</b> - Enable <b>Shadow Filter</b> to help mitigate the possibility of shadows causing a false trigger. This technology utilizes light and color sensitivity to avoid detection of shadows but <u>does not</u> guarantee false trigger prevention.
Color Filter	Enable this rule to trigger an analytics event whenever an object of a specified color contacts the line. Set a <b>Threshold (%)</b> to designate how much of an object must feature the specified color to trigger the alarm. If the Color is set to <b>Blue</b> , and the <b>Threshold</b> is set to 25%, than an object which is 25% blue or more will trigger an analytics event.

4). Right-clicking a line within the preview area will deploy a menu.

VCA Line- Right-Click Option	Description
Remove Line	Remove the line from the live preview. All rules associated with the zone will be deleted.
Insert/Remove Node	<b>Insert/Remove</b> a node to the line to create another line segment.
Rules	Enable a rule. If a secondary setting for a rule exists (Dwell, Directional Filter, etc) default values for the secondary settings will be used.
Pause	Pause the live video preview on the current frame.

The options are as followed:

5). Click the **Apply** button to save your new VCA Zone/Line settings.

## **CREATE COUNTER**

## Steps:

1). To create a **Counter**, right-click within the preview area at the location you wish to overlay the counter and select **Counter>Add Counter**.



Figure 7-69: Setup Tab –VCA Menu –Zones and Rules Settings – Creating a Counter

2). When a counter is selected, the following options will be available in the **Rule Configuration Menu**:

VCA Counter- Rule Config	Description	
Name	Name the counter. This name will be used to refer to this particular line throughout the cameras browser interface and on the counter overlay itself.	
Color	Assign a color to the counter. This will allow for fast visual recognition when multiple zones/lines/counters are present.	
Increment	Enable Increment to increment the counter anytime a chosen analytics event occurs. Cone 0-Cnt Line - Dir A Activate the desired increment rule (Inc 0 used in the above example) and assign a rule trigger under the Value column (A counting line rule named Zone 0 –Cnt Line – Dir A is used in the above example).	

VCA Counter – Rule Config.	Description
Decrement	Enable <b>Decrement</b> to decrement the counter anytime a chosen analytics event occurs.
Occupancy	Enable Occupancy to count occupants of a specified zone. Decoupancy Decoupancy True (Occ 0 used in the above example) and assign a rule trigger under the Value column (A zone presence rule named Zone 1 – Presence is used in the above example).

3). Click the **Apply** button to save your new VCA Counter settings.

# ZONES AND RULES SETTINGS – LOGICAL RULES TAB

From the **Logical Rules** tab, a user may set up further rules governed by a set of custom logical operators. Logical rules can be written in such a manner that they can run on a schedule; while other rules or events are active (or not active); when a digital input is received, etc. These **Logical Rules** can also be used to trigger the generation of events (alarms/DO); incrementing of custom counters, etc...

# Steps:

1). To open the Logical Rules settings tab, click the Logical Rules tab on the Setup (Advanced Tab)>VCA>Zones and Rules settings page.

Basic Live Search	VISIX Analytic Senso	r 3×LOGIC
<ul> <li>Basic Configuration</li> </ul>	Setup > VCA > Zones and Rules	
Video	Zones & Rules Logical Rules	
<ul> <li>Event Configuration</li> </ul>	Logical Rule List	
Network Configuration	Name Description	
Storage		
▼ VCA		
Enable/Disable		
Zones and Rules		
Calibration		
Classification		Destruct Defents
Tamper Detection	Add Modity Remo	Restore Defaults

Figure 7-70: Setup Tab – VCA Menu – Zones and Rules Settings – Opening the Logical Rules Tab

- 2). From the Logical Rules settings tab, a user may Add, Modify, or Remove a logical rule.
- 3). For instructions on adding/modifying a logical rule, see <u>Adding/Modifying a Logical Rule.</u> To remove an existing logical rule, select the rule from the list and click **Remove.** You will be prompted to confirm the removal. Click **OK** to confirm.

# ADDING/MODIFYING A LOGICAL RULE

# Steps:

1). To add a logical rule, click the **Add...** button. If modifying an existing rule, select the rule from the list and click **Modify...** Both actions will cause the **Add/Modify New Rule** window to deploy.

dd New Rule [2] Name: Rule Name ×	
Description: Rule Description	
Trigger the logical rule when the following condition is	met:
Select clause type	<b>v</b>
Run the following actions when the rule is triggered:	
	OK Cancel
Figure 7-71: Setup Tab –VCA Menu –Zones and	Rules Settings – Logical Rules Form

- 2). Assign a Name and Description to the rule by filling in the respective fields.
- 3). Under the **Trigger the Logical Rule when the Following Condition is Met** text, a user may select a condition clause. Some of these clauses will require secondary conditional clauses to be chosen as well **([and], [or], etc...)** Descriptions of the available condition clauses are listed below:

Logical Rule - Clause	Description
[rule]	Select this conditional clause to trigger the logical rule whenever a VCA rule is true/active. Select the conditional trigger rule from the available drop-down.
[and]	Select this conditional clause to trigger the logical rule whenever multiple clauses are simultaneously true/active. Select the conditional clause from the available drop-down. All chosen conditional clauses must be true to trigger the logical rule.
[or]	Select this conditional clause to trigger the logical rule whenever one of multiple clauses rules is true. Select each conditional trigger rule from the drop-downs as necessary. Only one of the multiple configured rules must be triggered/active to trigger the logical rule.
[not]	Select this conditional clause to trigger when a specified clause is not true.
[continuously]	Select this conditional clause to trigger the logical rule whenever a clause has been continuously true/false for a specified period of time.
[previous]	Select this conditional clause to trigger the logical rule when a clause was previously true/false for a specified period of time.
[was]	Select this conditional clause to trigger the logical rule when a clause was true/false a specified period of time ago.
[time]	Select this conditional clause to trigger the logical rule during a specified daily time range.



Logical Rule – Clause	Description
[day]	Select this conditional clause to trigger the logical rule on a specified day of the week.
[date]	Select this conditional clause to trigger the logical rule on a specified date of the year.
[value]	Select this conditional clause to trigger the logical rule whenever a VCA counter reaches a specified value. Select the desired <b>Counter, operator</b> (<, >, =) and specify a counter value in the available text field.
[input]	Select this conditional clause to trigger the logical rule whenever a digital input of your choosing is in a state (open, closed) of your choosing. Select the desired input and state from the available drop-down menus.
[before]	Select this conditional clause to trigger the logical rule whenever a specified <b>[and]</b> conditional clause occurs before another. <b>NOTE:</b> This clause is only available as a secondary conditional clause within an <b>[and]</b> clause.
[identity]	Select this conditional clause to trigger the logical rule whenever two specified clauses are each triggered by the same (or different; user specified) objects. <b>NOTE:</b> This clause is only available as a secondary conditional clause within an <b>[and]</b> clause.
[within]	Select this conditional clause to trigger the logical rule whenever two specified <b>[and]</b> conditional clauses are each triggered within a specified amount of time of one another. <b>NOTE:</b> This clause is only available as a secondary conditional clause within an <b>[and]</b> clause.
[classification]	Select this conditional clause to trigger the logical rule whenever a specified <b>[and]</b> conditional clause is triggered by an object of a specified class. <b>NOTE:</b> This clause is only available as a secondary conditional clause within an <b>[and]</b> clause.
[between]	Select this conditional clause to trigger the logical rule whenever a specified <b>[and]</b> conditional clause is triggered between two specified times. Select the desired clause and configure the two times using the available drop-down menus. <b>NOTE:</b> This clause is only available as a secondary conditional clause within an <b>[and]</b> clause.
[tamper]	Select this conditional clause to trigger the logical rule whenever tampering detected. See <u>Tamper Detection Settings</u> for more info on configuring tamper detection.
[learning]	Select this conditional clause to trigger the logical rule whenever a scene is being learned.

4). Configure your conditional trigger clause as desired. When you have configured the clause, the trigger actions must also be selected. The trigger action is simply the resulting action of the logical rule being triggered.

A list of available trigger actions is described below:

Logical Rule - Action	Description
[generateevents]	Select this action to generate an event whenever the logical rule is triggered.
[incrementcounter]	Select this action to increment a specified VCA counter whenever the logical rule is triggered.
[learnscene]	Select this action to have the camera perform scene learning whenever the logical rule is triggered.
[resetcounter]	Select this action to reset a specified VCA counter whenever the logical rule is triggered.

5). Once you have configured both a conditional clause and a trigger action, click **OK** to save the new logical rule.

# **CALIBRATION SETTINGS**

## Steps:

1). Opening the **Setup Tab>VCA** drop-down menu and clicking the **Calibration** link will open the network **DDNS** settings page.



Figure 7-72: Setup Tab –VCA Menu –Calibration Settings

2). The VCA calibration process includes configuring the correct camera angle and field of view, as well as the delineation of anticipated object **(people, car, etc...)** size. Proper calibration of the camera is required to ensure accurate analytics counts and tracking.

VCA Calibration Spec	Description
Preset Select	Select a preconfigured preset. Presets include: Overhead, 60 Degree Lookdown, 30 Degree Lookdown.
Height	Adjust calibration height. Use this to best emulate the height of the camera from the ground. Note the mimic size in comparison with an actual person to gain the best results.
Tilt Angle	Adjust calibration tilt angle. Use this to best emulate the camera's tilt angle.
Vertical Field of View	Adjust the calibration vertical field-of-view. Use this to best emulate the camera's vertical perspective.
Pan Angle	Adjust the calibration roll angle. Use this to best emulate the camera's pan perspective.
Roll Angle	Adjust the calibration roll angle. Use this to best emulate the camera's pan perspective.

The following calibration specifications are available for configuration:

## Steps:

- 1). To begin calibration, adjust calibration settings as required. A user may perform basic calibration cameras via two separate methods:
- 1). **Click-and-Drag**. For this method, click and drag the green calibration grid to satisfactorily emulate the camera's height, tilt perspective, and field of view. The mimics may be moved around the image to help the user gauge perspective. The mouse scroll wheel is also utilized to adjust camera height, and consequentially the size of the calibration grid and mimics. Use resizing of these elements to anticipate average object size.
- 2). **Manual Configuration** Manually enter/adjust calibration values under the **Camera Setup** section. As the user enters values, the calibration overlay on the live preview will react accordingly.
- 3). If required, adjust Pan Angle and Roll Angle under the Advanced Parameters section using the slider bars. As the sliders are moved, the calibration overlay over the preview image will react accordingly. Advanced Parameters must be manually entered and <u>cannot</u> be adjusted using the Click-and-Drag technique.
- 4). Right-click within the video preview area for the following calibration tools:

<b>Right-Click Option</b>	Description
Virtual Ruler	Select this tool to anchor a virtual ruler from the point-of the right click. Drag your mouse across the image to extend the ruler. Use this feature to ensure accurate perspective calibration settings.
Draw Horizon	Select this option to add a drawn horizon line to the calibration grid. This horizon line will be visible when the camera's tilt angle is twenty degrees or less.
Transparent Grid (enabled by default)	Select this option to make the green calibration grid transparent.

Right-Click Option	Description
Add Mimic	Add another mimic to the live preview.
Pause	Pause the live preview image on the current frame.

- 5). When you have calibrated the camera to your satisfaction, click **Apply** to save the new calibration settings.
- 6). If desired, click Uncalibrate to reset all calibration specifications to their default value.

# **CLASSIFICATION SETTINGS**

# Steps:

1). Opening the **Setup Tab>VCA** drop-down menu and clicking the **Classification** link will open the VCA object **Classification** settings page.

Basic Live Search	Setup	VISIX Analy	tic Sen	sor	3×	LOGIC
Basic Configuration	Setup > VCA	> Classification				
Video	Choose an	object classifie <del>r</del>		Detailed object	ct classifier inform	nation
Event Configuration	Id Na	ame		Name:		
Network Configuration	02 Clut 00 Pers	ter on		Enable:	Yes 🗸	
<ul> <li>Storage</li> </ul>	03 Grou 01 Vehi	up of People cle	Min Area:	Min Area:		m <sup>2</sup>
▼ VCA				Max Area:		m <sup>2</sup>
				Min Speed:		km/h
Enable/Disable				Max Speed:		km/h
Zones and Rules		Add Kelliove				
Calibration			Apply Re	estore Defaults		
Classification						

Figure 7-72: Setup Tab –VCA Menu –Classification Settings

- 2). From the **Classification** settings page, a user may **Add**, **Remove** or modify an object classification. Four default classifications exists: **Clutter**, **Person**, **Group of People**, **and Vehicle**.
- 3). To create a new classification, click the **Add** button and configure the required classifier information. To modify an existing classification, select it from the list and edit the classifier information as required. Classifier information is described below:

Classifier Info	Description
Name	Name the classification.
Enable	Enable the classification to have the camera actively classify objects that meet the classification's parameters. If disabled, the camera will not classify objects with this class.
Min Area	The minimum area (in square meters) taken up by an object of this classification.
Max Area	The maximum area (in square meters) of an object of this classification.
Min. Speed	The minimum travelling speed (in km/h) of an object of this classification.
Max. Speed	The maximum travelling speed (in km/h) of an object of this classification.

- 4). Click **Apply** to save the new classification settings.
- 5). Click **Restore Defaults** to reset the classifications to their default settings. This will delete any custom classification.

## TAMPER DETECTION SETTINGS

# Steps:

1). Opening the **Setup Tab>VCA** drop-down menu and clicking the **Tamper Detection** link will open the VCA object **Tamper Detection** settings page.



Figure 7-72: Setup Tab –VCA Menu –Tamper Detection Settings

- 2). From the **Tamper Detection** settings window, a user may enable **Tamper Detect**, and configure related settings. **Tamper Detection** safeguards the camera against vandalism or view obscuration by generating an alarm whenever tampering is detected.
- 3). To activate tamper detection, check-off Enable.

The following tamper detection settings can be configured:

Classifier Info	Description
Tamper Duration	The amount of time allowed to transpire during tampering until the tamper
	alarm is triggered.
Tamper Image Area	The amount of the image to use for the tamper detection algorithm.
Suppress Alarm on	Select this option to suppress alarms accidentally generated by lights within
Lights On/Off	the image turning on/off.

4). Click **Apply** to save changes to tamper detection settings. Click **Restore Defaults** to restore tamper detection settings to their default state.

## **SCENE CHANGE SETTINGS**

## Steps:

1). Opening the Setup Tab>VCA drop-down menu and clicking the Scene Change link will open the Scene Change settings page.



Figure 7-73: Setup Tab –VCA Menu –Scene Change Settings

2). From the **Scene Change** settings page, a user may configure scene changes settings and enable day/night mode detection.

Descriptions of configurable settings are listed below:

Scene Change Setting	Description			
Mode	<ul> <li>Automatic – Automatically detect scene changes.</li> <li>Manual - Manually trigger</li> <li>Disabled – Disable Scene Change detection.</li> </ul>			
Advanced Settings	<ul> <li>Changed Time – The amount of time that must transpire after a detected scene change to trigger event.</li> <li>Changed Image Area – The amount of the image area that will be utilized to detect scene changing.</li> </ul>			
Day/Night Mode Change Detection	Select <b>Enable</b> to detect the transition between day and night. This process works by looking for color from/to the grayscale transition between two successive frames.			

# **BURNT-IN ANNOTATION SETTINGS**

## Steps:

**3×LOGIC** 

1). Opening the **Setup Tab>VCA** drop-down menu and clicking the **Burnt-In Annotation** link will open the **Burnt-In Annotation** settings page.

	Setup > VCA > Bu	urnt-in Annotatio	n				
	First Stream	Second Stream	Snapshot				
	Burnt-in Annot	tation					
	🖌 Enable Burnt	-in Annotation					
	Zones						
	Display Zone	s					
	Objects						
	🖌 Display Objec	cts					
	✔ Non-Alarr	med Objects					
	Object Sp	eed					
	Object He	eight					
	Object Ar	ea					
	🗸 Object Cla	assification					
	Text Size :	Si	mall 🗸				
	Display ol	bjects in two color:	5				
	Alarm O	bject Color :	Red 🗸				
	Non-Alai	rm Object Color :	Yellow 🗸				
	🔿 Display ol	bjects in multiple o	olors				
Figure 7	<b>-74</b> : Setup 1	Tab –VCA Me	enu –Burnt	-In Annotation	Settings 1(scree	enshot cont'd on	next page)
	Counters						
	🗹 Display Cou	inters					
	🗸 Name						
	🖌 Value						
	Text Size :		Medium 🗸				
	System Mess	ages					
	🖌 Display Mes	sages					
	Display Cur	rent Profile					
	Text Size :		Medium 🗸				
	Diagnostics						
	Display Cou	inting Line Events					
			Apply	y Restore Defaults			

Figure 7-75: Setup Tab –VCA Menu –Burnt-In Annotation Settings 2

2). From the **Burnt-In Annotation** settings, a user may configure settings related to the on-screen display of VCA components in live and recorded footage. Settings may be configured for each individual stream profile by selecting the desired profile tab near the top of the settings form.

# NOTE:

VCA components are visible in the <u>VCA Rules and Zones</u> settings page video preview as well as on the <u>Live tab</u> (if chosen to be displayed in the Live tab right-click menu). These are for reference during configuration only and are not burnt-in to recorded video. Enable burnt-in annotation for desired VCA components to ensure they are visible on recorded video.

3). Click **Enable Burnt-In Annotation** to enable burnt-in annotations and reveal related options and settings.

Burnt-In Settings	Description			
Zones	<b>Display Zones</b> – Select this option to burn any VCA zones into the camera image.			
Objects	<ul> <li>Display Objects – Select this option to burn in VCA object trackers. The following options may be enabled for burnt-in object tracking:</li> <li>Non Alarmed Objects – Burn-in object tracking for objects not triggering an alarm/event.</li> <li>Object Speed – Burn-in the object's speed value (km/h).</li> <li>Object Height – Burn in the objects height measurement value.</li> <li>Object Area – Burn in the object area measurement value (m<sup>2</sup>).</li> <li>Object Classification – Burn in the objects classifications</li> <li>Text Size – Select a preconfigured size (small, medium, large) for the burnt-in text.</li> <li>Display Objects in Two Colors – Display burnt-in colors for Alarmed and Non-Alarmed (Objects not currently triggering an alarm/event) objects differently. Select the color for each object type from the available drop-down menu.</li> <li>Displays Objects in Multiple Colors – Enable multiple burnt-in</li> </ul>			
Counters	<b>Display Counters</b> – Select this option to burn in any VCA counters into the camera image. A user may choose to burn-in the counter's <i>Value, Name</i> or both by checking off the corresponding box.			
System Messages	<ul> <li>Display System Messages – Select this option to burn system messages into the camera image.</li> <li>Display Current Profile – Select this option to burn the current stream profile's information into the camera image.</li> <li>Text Size – Select a preconfigured size (small, medium, large) for the burnt-in text.</li> </ul>			
Diagnostics	<b>Display Counting Line Events</b> – Select this option to burn counting line even information into the camera image.			

4). Click **Apply** to save settings changes. Click **Restore Defaults** to restore settings to their default state.

# **COUNTER REPORTING SETTINGS**

## Steps:

- 1). Opening the Setup Tab>VCA drop-down menu and clicking the Counter Reporting link will open the Counter Reporting settings page.
- 2). The Counter Reporting settings page is split across three tabs: The Reporting Service, Database Service and E-mail Notifications tabs.

Each is outlined in the below sections.

Basic Live Search Setup

## **REPORTING SERVICE TAB – COUNTER REPORTING SETTINGS**

## Steps:

1). From the **Reporting Service** tab, a user may configure settings related to the reporting of VCA counter data.

	VISIX A	3×LOGIC	
Basic Configuration     Video	Setup > VCA > Counter Report Reporting Service Database	se Service E-Mail Notification	
<ul> <li>Event Configuration</li> </ul>	Predefined Request	one hour	
<ul> <li>Network Configuration</li> </ul>	Request Command		
<ul> <li>Storage</li> </ul>	Time :	now-01:00 (from)	
▼ VCA		now (to)	
Epoble/Dicoble	Counter ID :	active V {active all 0,1,n}	
Zones and Rules	Table(Sampling) :	Table 0 (1) v (minutes)	
Calibration	Sorting order :	Descending 🗸	
Classification	Value type :	Absolute 🗸	
Tamper Detection	Request		
Scene Change		Table Bar CSV DB Service	is disabled!!!
Burnt-in Annotation			
Counter Reporting	Request URI		0
Advanced			~

Figure 7-76: Setup Tab –VCA Menu –Counter Reporting Settings – Reporting Service Tab

- If desired, select a Predefined Request from the drop-down menu to autofill the Request Command information. Available options include One Hour, Today, Yesterday, One Day (the last 24 hours), This Week (first day of the current week until present), Last Week, One Week, This Month (first day of the current month until present) and Last Month.
- 3). If a custom counter report is desired, fill out the required fields in the **Request Command** section manually.

Available settings include:

Request Command	Description
Time	Fill out the <b>To</b> and <b>From</b> fields to designate a time range for the counter report.
Counter ID	Select the counter to report data on. An individual counter may be chosen by selecting its corresponding ID (1-19). Select <b>Active</b> to report on only active counters. Select <b>All</b> to report on all counters.
Table (Sampling)	Select the table to use in the report. Each table features a separate Sampling Interval and Roll-Over Count. See <u>Database Service Tab</u> for more information on configuring counter report tables.
Sorting Order	Select whether the results should be displayed in <b>Ascending</b> or <b>Descending</b> order.
Value Type	Select whether the displayed results should be <b>Absolute</b> value of each counter, or the <b>Difference</b> between counters.

- Under the Request section, select the report style. Available styles include: Table, Bar and CSV. Please note, a Counter Report cannot be generated without enabling Database Service on the <u>Database Service tab</u>. Please enable Database Service to enable counter report generation.
- 5). After selecting a style, a pop-up will open with your report and a URL link to the report will also be available in the **Request URL** field.

# DATABASE SERVICE TAB – COUNTER REPORTING SETTINGS

#### Steps:

**3×LOGIC** 

1). From the **Database Service** tab, a user may enable **Database Service** (required for counter reporting and counter report email notifications) and configure related settings.

c Configuration	Setup > VCA > Counte	r Report			
leo	Reporting Service	Database Service	E-Mail Notification		
t Configuration	General				
vork Configuration	✓ Enable Database S	ervice			
1200	DB Storage :	Inter	al Flash 🗸 <u>Storage In</u>	formation	
n aye	Total DB Size :	0	/ 512	Kbytes	
4	Tables				
able/Disable	Enable Table 0				
nes and Rules	Sampling interval :	1	minute	25	
alibration	Roll-over Count :	720			
lassification	Max Roll-over Time	12 ho	urs		
mper Detection	Enable Table 1				
ene Change	Sampling interval :	10	minute	15	
urnt-in Annotation	Boll-over Count :	1008			
ounter Reporting	Max Roll-over Time	7 day	S		
dvanced	Enable Table 2				
port/Export	Conceller interval :	50	minute		
	Sampling Interval :	744	mildo		
aintenance	Koll-over Count :	744	1.00		
ivation	Gashia Tabla 2	51 04	ys.		
ut	Chapie Table 3				
	Sampling interval :	1440	minute	25	
	Roll-over Count :	Roll-over Count : 365			
	Max Roll-over Time	365 d	ays		
			Apply Restore Defa	aults	
	Datahase Managem	ent			

Figure 7-77: Setup Tab –VCA Menu –Counter Reporting Settings– Database Service Tab

- 2). Enabling Database Service will create a database to store counter reporting data.
- 3). Select the DB Storage medium by choosing either Flash (internal) or SD (removable storage) from the drop-down menu. After selecting your storage medium, designate a Total DB Size (in kilobytes). The maximum available amount of storage will vary depending on your chosen storage medium.
- 4). Under the **Tables** section, a user may enable up to four DB tables by checking off the corresponding **Enable Table x** box.

The following table settings can be configured:

Table Settings	Description
Sampling Interval	Set the table's sampling interval (in minutes).
Roll-Over Count	Set the table's <b>Roll-Over</b> count. New entries will begin to replace the oldest
	The maximum amount of time that can be allowed to transpire before
Max Roll-Over Time	overwriting of the oldest existing entries will begin based on the defined Sampling Interval and Roll-Over Count values. This setting is not directly
	configurable.

- 5). Click **Apply** to save settings changes. Click **Restore Defaults** to restore all settings to their default state.
- 6). Under the Database Management section, a user may select Clear to clear the current database. Select Back-Up to make a back-up copy of the database and its current structure and content. The backup will be automatically downloaded to your browser's Downloads folder.
- 7). If the database requires restoration, select the **Browse** button next to the **Restore From** field and select a DB backup file to restore DB structure and contents.

# **E-MAIL NOTIFICATION TAB – COUNTER REPORTING SETTINGS**

#### Steps:

1). From the **E-Mail Notification** tab, a user may configure VCA counter report e-mail notifications and their related settings.

Basic Live Search S	Setup VI	SIX Analyti	c Sensor	3×LOGIC
Basic Configuration	Setup > VCA > Count	er Report		
Video	Reporting Service	Database Service	E-Mail Notification	
Event Configuration	Configuration			
<ul> <li>Network Configuration</li> </ul>	Enable E-Mail Not	tification		
Storage			Apply	
▼ VCA	E-Mail Recipient Li	st		
Enable/Disable	ID Name	Description		
Zones and Rules				
Calibration				
Classification				
Tamper Detection				
Scene Change	Add Modify	Remove		Go to SMTP (E-Mail) Configuration
Burnt-in Annotation				

Figure 7-78: Setup Tab – VCA Menu - Counter Reporting Settings–E-Mail Notifications Tab

2). To enable VCA counter reporting e-mail notifications, check-off Enable E-Mail Notification.

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- 3). Once notifications are enabled, a user may **Add**, **Modify or Remove** a counter reporting e-mail notification recipient. When adding/modifying a recipient, recipient and report settings may also be edited.
- 4). Select a recipient from the list to display recipient information. To remove a recipient, select the desired recipient from the list and click **Remove.**
- 5). **SMTP (E-mail Server) Settings** must be configured in order for e-mail notifications to function. Click the **Go to SMTP (E-Mail) Settings** link to open the SMTP settings form and configure settings as necessary. See <u>SMTP (E-Mail Server) Settings</u> for more info.

## ADD/MODIFY A COUNTER REPORT E-MAIL NOTIFICATION RECIPIENT

## Steps:

1). To add a recipient, click the Add... button (if modifying, select the desired recipient from the list and click Modify...). The Add/Modify E-Mail Recipient form will deploy.

## **E-MAIL CONFIGURATION**

## Steps:

1). In the E-Mail Configuration section of the form, a user may enter basic recipient info.

Modification of E-Mai	l Recipient	×	
Name :	Brendan S		
Description :	Tech Writer at 3×ENG		
E-Mail address :	brendan.savage@3xlogic-eng.com	×	

Figure 7-79: Setup Tab – VCA Menu - Counter Reporting Settings–E-Mail Notifications Tab – Add/Modify E-Mail Recipient

## 2). Fill in the Name, Description and E-mail Address fields for the desired recipient.

E-Mail Recipient Setting	Description
Name	Name the recipient. This name will be used to identify this particular recipient when assigning it to an e-mail notification.
Description	Provide a brief description of the recipient (intended use, etc). This description will be displayed when the schedule is selected on the schedule settings page.
E-Mail Address	Enter the e-mail address of the recipient.

## SCHEDULE CONFIGURATION

## Steps:

1). In the **Schedule Configuration** section of the **Add/Modify Recipient** window, a user may configure a notification schedule for the recipient.

Schedule Configuration				
Current Device Time:	2016/01/13 9:29:16			
Enable Hourly Report				
Trigger Time : 0:00 🗸 (from	m) 0:00 🗸 (to)			
🗹 Sunday 🗹 Monday 🗹 T	uesday 🗹 Wednesday	🗹 Thursday	🖌 Friday	🖌 Saturday
C Enable Daily Report				
○ Enable Weekly Report				
◯ Enable Monthly Report				
Figure 7-80: Setup Tab –VCA Menu - Co	ounter Reporting Settings–I	E-Mail Notificatio	ons Tab – Sch	edule Configuration

2). Enable an **Hourly, Daily, Weekly** or **Monthly** report. When the desired report is selected, related settings will be deployed and can be customized.

Schedule Settings	Description
	Enable hourly reporting to send a report on a customized hourly basis.
Hourly	Select <b>From</b> and <b>To</b> trigger times from the available drop-down menus to choose which hours in a day the hourly report will be sent. If 1:00 and 8:00 are selected as <b>From</b> and <b>To</b> respectively, then a report will be e-mailed on
	the hour from 01: 00 to 08:00.
	Select the days of week the report will be emailed on. The report will be sent on the chosen days, during the designated trigger hour range.
	Enable daily reporting to send reports on a customized daily basis.
Daily	Select a <b>Trigger Time</b> from the drop-down menu. The report will be e- mailed at the selected time.
	Select days of week the report will be emailed on. The report will be sent on the chosen days, at the designated trigger hour.
	Enable weekly reporting to send reports on a customized weekly basis.
Weekly	Select a Trigger Day and Trigger Time from the available drop-down
vveekiy	menus. The report will be emailed to the recipient on the chosen day, at
	the chosen time.
	Enable monthly reporting to send reports on a customized monthly basis.
Monthly	Select a <b>Trigger Day</b> (1-31) and <b>Trigger Time</b> from the available drop-down menus. Reports will be emailed to the recipient on the chosen day of the month, at the chosen time.

## **REPORT CONFIGURATION**

## Steps:

1). In the **Report Configuration** section of the **Add/Modify Recipient** window, a user may configure an email counter report settings.

Report Configuration		
Hourly report always sends the co	unt data from the previous hour.	
Time :	Report all data	
	0:00 V (from)	
	0:00 🗸 (to)	
Counter ID :	active <pre>active all 0,1,n}</pre>	
Table(Sampling) :	Table 0	
	Table 3	
Sorting order :	Descending   Ascending	
Value type :	Absolute      Difference	
Format :	● HTML ○ Bar ○ CSV(Attachment) ○ CSV(Plain Text)	
	Send Test Report OK Cancel	

Figure 7-81: Setup Tab – VCA Menu - Counter Reporting Settings–E-Mail Notifications Tab – Report Configuration

Report Setting	Description
	Select <b>Report All Data</b> to report all counter data within the schedule range.
Time	If a custom range is desired, fill out the <b>To</b> and <b>From</b> fields to designate a time range for the counter report.
Counter ID	Select the counter to report data on. An individual counter may be chosen by selecting its corresponding ID (1-19). Select <b>Active</b> to report on only active counters. Select <b>All</b> to report on all counters.
	Select the table(s) to use in the report. Each table features a separate
Table (Sampling)	Sampling Interval and Roll-Over Count. See <u>Database Service Tab</u> for more information on configuring counter report tables.
Sorting Order	Select whether the results should be displayed in Ascending or Descending
Sol ting Order	order.
	Select whether the displayed results should be <b>Absolute</b> value of each counter,
value Type	or the <b>Difference</b> between counters.
Format	Select the report format for the email counter report.

- 2). Click **Send Test Report** to send a test report using the currently configured settings to the email entered in the **E-mail Configuration** section.
- 3). Click **OK** to save the new recipient. Click **Cancel** to close the window without saving the recipient.

## **ADVANCED VCA SETTINGS**

## Steps:

1). Opening the **Setup Tab>VCA** drop-down menu and clicking the **Advanced** link will open the **Advanced** VCA settings page.

Basic Live Search	VISIX Analytic Sensor	3×LOGIC
Basic Configuration	Setup > VCA > Advanced	
Video	- Alarm Holdoff Time	
<ul> <li>Event Configuration</li> </ul>	Threshold: 5 seconds	
Event Configuration	→ Measurement Units	
Retwork Configuration	Height/Area/Speed units: Metric 🗸	
<ul> <li>Storage</li> </ul>	Metadata Format	
▼ VCA	Metadata :	
Enable/Disable	🗹 Event 🗹 Object 🗹 Counting	
Zones and Rules	✓ Do not send empty metadata packets (metadata won't be sent if no i	nformation generated)
Calibration	Diagnostic Metadata:	
Classification	I Blob ☐ Counting Line ☐ Tamper ☐ Scene Change	
Scene Change Burnt-in Annotation	Time: 60 seconds Tracking Options	
Counter Reporting	Minimum tracked object size:   Auto	
Advanced	O 16 blobmap pixels	
Import/Export	Display Options	
Maintenance	Minimum alarm object display time: 2000 milliseconds	
Activation		
About	Detection Point of Tracked Objects	
	Default (choose centroid)     Centroid (force entroid)     Midbottom (force midbottom)	sideon or uncalibrated)
	Global Restore Defaults	
	Restore all default VCA settings	
	Apply Posters Defaults	

Figure 7-82: Setup Tab –VCA Menu –Advanced VCA Settings

2). From the **Advanced** VCA settings page, a user may configure settings related to advanced operation of VCA video analytics.

Configurable settings include:

Advanced Setting	Description
Alarm Hold-Off Time	Configure the amount of time (in seconds) allowed to transpire between a VCA event/alarm creation and the action which triggered the event/alarm.
Measurement Units	Select a desired measurement system from the available drop-down. These units will be used for approximating VCA object height/area/speed. Metric is the camera default.
Metadata Format	<ul> <li>Metadata - Select your desired metadata categories: Event, Object, and</li> <li>Counting. Select Do Not Send Empty Metadata Packets to avoid sending packets when there is no data available.</li> <li>Diagnostic Metadata - Select your desired diagnostic metadata categories:</li> <li>Blob (Motion), Counting Line, Tamper and Scene Change.</li> </ul>
Stationary Object Hold-On Time	Configure the amount of time the camera will track a stationary VCA object before it ceases tracking.

Advanced Settings	Description	
Tracking Options	Configure the <b>Minimum Tracked Object Size</b> . Select <i>Auto</i> to only track objects equal to or larger than the smallest object classification. To configure a custom size, select the <b>Blobmap Pixels</b> option and enter the desired value.	
Display Options	Configure a <b>Minimum Alarm Object Display Time</b> . Objects which have triggered an event/alarm will display an alarm tracker (red object tracker) for, at a minimum, the designated amount of time.	
Detection Point of Tracked Items	<ul> <li>Configure a detection point for tracked objects: <ol> <li>Default - Default mode will use Centroid if calibrated as overhead or Midbottom if calibrated as sideview or if the camera is uncalibrated.</li> <li>Centroid – Detection point for objects is at centroid. Recommended for overhead camera</li> <li>Midbottom – Detection point for objects is the Midbottom region. Recommended for sideview or uncalibrated cameras.</li> </ol></li></ul>	
Global Restore Defaults	Select <b>Restore All Default VCA Settings</b> to restore all VCA settings to their factory default state.	

3). Click **Apply** to save settings. Click **Restore Defaults** to restore all VCA advanced settings to their default state.

# **IMPORT/EXPORT SETTINGS**

Basic Live Search Setup

## Steps:

1). Opening the **Setup Tab>VCA** drop-down menu and clicking the **Import/Export** link will open the **Import/Export VCA Settings** page.

	VISIX Anal	ytic Sensor	3×LOGIC
Basic Configuration	Setup > VCA > Import/Export		
▶ Video	VCA Configuration Export		
Event Configuration	Export		
Network Configuration	VCA Configuration Import	Rulas 📈 Countars 📈	Calibration
Storage	Classification I Tamper	BIA V PTZ V	Scene Change
▼ VCA	Import from :	Beering	
Advanced		browse	
Import/Export			
	Figure 7-83: Setup Tab –VCA I	Menu –Import/Export Se	ettings

- 2). From the **Import/Export VCA Settings** page, a user may export or import an .xml containing VCA configuration settings.
- Click the Export button to download an xml file (vca\_config.xml) to your browsers downloads destination. This file can be imported to other cameras to assign them the same VCA configurations as the device from which is was exported.



- 4). Under the VCA Configuration Import section, a user may select which VCA settings configuration to import from the file.
- 5). To import a VCA settings file, click the **Browse** button, navigate to and select the desired xml file and click **Open.** Only VCA settings configurations which have been checked-off in the **VCA Configuration** Import section will be imported to the device.

# 7.7 Maintenance Menu

## **USERS**

## Steps:

1). Opening the **Setup Tab>Maintenance** drop-down menu and clicking the **Users** link will open the **Users** settings page.

Basic Live Search	VISIX Analytic Sensor	3×LOGIC
Basic Configuration	Setup > Maintenance > Users	
Video	User List	
Event Configuration	admin Administrator	
<ul> <li>Network Configuration</li> </ul>		
<ul> <li>Storage</li> </ul>		
VCA		
<ul> <li>Maintenance</li> </ul>	Attention: Your changes will take effect after one minute.	
Users	Add Modify Remove	
Date & Time		
API	User Authentication	
Language	$\checkmark$ Enable anonymous viewer login (no user name or password required)	
Firmware Upgrade	Apply	
Contrast Law		

2). From the Users page, a user may view the camera's list of user profiles. A user may also add, modify or remove a user profile. Details regarding each action are outlined in the proceeding sub-sections of this manual. User settings can also be edited from both the Basic Tab>Camera Configuration>Users and the Setup (Advanced) Tab>Basic Configuration>Users settings pages.

## ADD A USER

## Steps:

1). Click the Add... to add a new user profile. The Add User form (pictured right) will deploy.

Form Field	Description
Username and Password	Enter a username and password for the new user.
Confirm Password	Confirm the previously entered password.
User Group	Choose a User Group for the user.



2). After finishing configuration, click **Apply** to save the new settings.

# **MODIFY A USER**

## Steps:

1). Click the **Modify...**button to modify an existing user profile. The **Modify User** form (pictured right) will deploy.

Form Field	Description	
Username and Password	Enter a username and password for the new user.	
Confirm Password	Confirm the previously entered password.	
User Group	Choose a User Group for the user.	

M	odify User		
	User name :	admin	
	Password :		
	Confirm password :		
	User group	<ul> <li>Viewer</li> <li>Operator</li> <li>Administrator</li> </ul>	
		Apply Cancel	
Figure 7-86: Setup Tab –Maintenance Menu – Users – Modify User			

2). After finishing configuration, click **Apply** to save the new settings.

## **REMOVE A USER**

#### Steps:

1). Click the **Remove** button to remove an existing user profile. This action is only available when a user profile is selected in the list. You will be prompted for a confirmation before finalizing the removal.

## **USER AUTHENTICATION**

#### Steps:

1). Check-off **Enable Anonymous Viewer Login** to enable anonymous viewing (no username or password required) of the camera's live view

## **DATE & TIME SETTINGS**

#### Steps:

1). Opening the **Setup Tab>Maintenance** drop-down menu and clicking the **Date & Time** link will open the **Date & Time** settings page.

Dasic Live Search	V	ISIX Analytic Sensor	3×LOGIC
Basic Configuration	Setup > Maintenance >	Date & Time	
▶ Video	Current Camera/En	coder Time	
Event Configuration			
Network Configuration	Configuration		
Storage	Time zone :	(UTC-08:00) Pacific Time (US & Canada)	$\checkmark$
► VCA	Sync source :	NTP server	Go to NTP Configuration
<ul> <li>Maintenance</li> </ul>	Date & Time format	: Predefined : YYYY-MM-DD 24-Hour	
Users		Apply	
Date & Time			
API	New Camera/Enco	ler Time	
Language	Source :	Set this computer's Date & Time	
Firmware Upgrade		Set with NTP server	
System Log		NTP server : time.windows.com	
Conf. Import/Export		Set manually	
Reset All Settings		Date : 12-15-2015 MM-DD-YYYY	
Reboot		Time : 15:32:18 HH:MM:SS(24-Hour)	
3xLOGIC		Apply	

Figure 7-87 Setup Tab – Maintenance Menu – Date and Time Settings

2). From the **Date & Time** settings page, a user may edit a camera's time settings including time zone, time server, date and time format and time synchronization source.

Time Setting	Description	
Current Camera Encoder Time	Displays the current camera time	
	Time Zone - Select the camera time zone.	
Configuration	<ul> <li>Sync Source - Set the active NTP server as your time sync source. Click the Go to NTP Configuration to be taken to the NTP Settings page.</li> </ul>	
	<ul> <li>Date and Time Format – Choose a predefined date-format.</li> <li>Enable 24-Hour to use standard 24 hour time.</li> </ul>	
	<ul> <li>Set this Computer's Date and Time – Selecting this option will sync the camera's time with your current computer system.</li> </ul>	
New Camera / Encoder Time	<ul> <li>Set with NTP Server - Selecting this option will sync the camera's time with the displayed NTP server (Default: time.windows.com)</li> </ul>	
	<ul> <li>Set Manually – Select this option to manually configure the camera's date and time.</li> </ul>	

3). Click **Apply** to save the new time settings.

## **API SETTINGS**

# Steps:

1). Opening the **Setup Tab>Maintenance** drop-down menu and clicking the **API** link will open the **API** settings page.

Basic Live Search S	VISIX Analytic Sensor	3×LOGIC
Basic Configuration	Setup > Maintenance > API	
Video	Configuration	
Event Configuration	✓ Enable Genetec	
Network Configuration	Enable ONVIF URL : http://10.1.13.45:80/onvif/device_service	
Storage	Enable authentication	
VCA	Enable replay attack protection     Enable profile G	
★ Maintenance	Apple	
Date & Time	Арру	
API		

Figure 7-88 Setup Tab – Maintenance Menu – API Settings

2). From the API settings page, a user may activate settings related to the camera's application programming interface.

Configurable settings include:

Storage Detail	Description	
Enable Genetec	Enable integration with Genetec security center.	
	Enable ONVIF on the camera:	
Enable ONVIF	<ul> <li>Enable Authentication - Enable ONVIF Authentication. The user may also enable Replay Attack Protection to protect the camera against malicious/ fraudulent activity.</li> <li>Enable Profile G – Enable ONVIF Profile G.</li> </ul>	

3). Click **Apply** to save settings changes.

# LANGUAGE SETTINGS

# Steps:

1). Opening the **Setup Tab>Maintenance** drop-down menu and clicking the **Language l**ink will open the **Language s**ettings page.

Basic Live Search	Setup VISIX Analytic Sens	or 3×LOGIC
▶ VCA	Setup > Maintenance > Language	
▼ Maintenance	Language	
ADT	Language : English 🗸	
Language	Арр	ły

Figure 7-89 Setup Tab – Maintenance Menu – Language Settings

- 2). From the Language settings page, a user may select the camera interface language. Select a desired language from the available drop-down menu. Languages include: English, Chinese and Korean.
- 3). Click **Apply** to save settings changes.

# **FIRMWARE UPGRADE**

## Steps:

1). Opening the **Setup Tab>Maintenance** drop-down menu and clicking the **Firmware Upgrade** link will open the **Firmware Upgrade** page.

Basic Liv	: Search	Setup VISIX Analytic Sensor	3×LOGIC
VCA		Setup > Maintenance > Firmware Upgrade	
* Maintanana		Upload Firmware Image	
* Maintenant		Installed firmware : 1.10.0.16(Hotfix Release)	
Language		Select firmware image file: Browse Start	
Firmware	Ipgrade	Start	

Figure 7-90 Setup Tab – Maintenance Menu – Firmware Upgrade Settings

- 2). From the **Firmware Upgrade** page, a user may update the device's hardware firmware. To update device firmware, simply click the **Browse** button, navigate to the location of the firmware file on your current system and select the file for use. A **Start** button will appear when a valid **.enc** file has been selected.
- 3). Click **Start** to begin the firmware update process.

# SYSTEM LOG SETTINGS

## Steps:

1). Opening the **Setup Tab>Maintenance** drop-down menu and clicking the **System Log** link will open the **System Log Settings** page.

Basic Live Search	VISIX Analytic S	Sensor 3×LOGIC
Basic Configuration     Video     Event Configuration     Network Configuration     Charge	Setup > Maintenance > System Log Download System Log Download System Log FTP Log Backup Mode	
VCA     Maintenance	FTP Log Backup Configuration	
Users Date & Time	IP Address :	
API Language Firmware Upgrade	Target Directory : Account :	
System Log Conf. Import/Export	Password : File name format :YYYYMM	MddhhmmssXXX.log
Reset All Settings Reboot	igure 7-91 Setup Tab –Maintenance M	Show notification list Nenu –System Log Settings

2). From the System Log page, a user can click **Download System Log** for an updated copy of the log. If desired, check-off **Enable Auto Backup** and configure the following details for auto backup of the system log to an FTP service of your choosing.

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FTP Setting	Description
Name	Name the FTP server. This name will be used to identify this particular FTP when selecting it for storage purposes.
IP Address/Port	Enter network connection values for the desired FTP Server.
Target Directory	Enter the target destination directory on the FTP for storing uploaded files.
Account/Password	Enter the user login credentials for the FTP. 3xLOGIC recommends using an administrative level account when possible to avoid permissions conflicts.
Filename Format	Assign the filename format for the .log files uploaded to the FTP.

## FTP connection settings are described below:

- 3). If you have previously configured an FTP service via the <u>FTP Notification settings</u>, click Show Notification List. A list of configured FTP notifications will appear. To instantly load an FTP notification's FTP connection info into the System Log-FTP configuration form, select the desired notification from the list and click Load Notification into Settings.
- 4). Click **Apply** to save settings changes.

# **CONFIGURATION IMPORT/EXPORT SETTINGS**

#### Steps:

1). Opening the Setup Tab>Maintenance drop-down menu and clicking the Configuration Import/Export link will open the Configuration Import/Export page.

Basic Live Search S	VISIX Analytic Sensor	3×LOGIC
► VCA	Setup > Maintenance > Configuration Import/Export	
▼ Maintenance	Configuration Export	
Language	Export	
Firmware Upgrade	Configuration Import	
System Log		
Conf. Import/Export	Browse	

Figure 7-92 Setup Tab – Maintenance Menu – Configure Import/Export Page

- 2). From the **Configuration Import/Export** page, a user can export the cameras current settings configuration (**.dat** format) or import a settings configuration file to apply to the camera.
- 3). To export the camera's current settings, click the **Export** button. The camera settings file will be downloaded to your browser's download destination.
- 4). To import settings, click the Browse... and navigate to the files location on your system. When a file is selected, an Import button will appear. Click Import to import settings from the selected file.

## **CAUTION:**

Importing a settings file will overwrite all existing camera settings.

## **RESET ALL SETTINGS**

## Steps:

Opening the Setup Tab>Maintenance drop-down menu and clicking the Reset All Settings link 1). will open the Reset All Settings page.

Basic Live Search	VISIX Analytic Sensor	<b>3×LOGIC</b>
▼ Maintenance	Setup > Maintenance > Reset All Settings	
	Reset All Settings	
Firmware Upgrade	Reset all configuration settings, but:	
System Log	Preserve network settings	
Conf. Import/Export	✓ Preserve timezone setting	
Reset All Settings	Reset All Settings	
	Figure 7-93 Setup Tab _Maintenance Menu _Reset All	Settings

Figure 7-93 Setup Tab – Maintenance Menu – Reset All Settings

- 2). From the Reset All Settings page, a user may reset all camera settings to their factory default state.
- 3). Before resetting, a user may choose to preserve Network and Time Zone settings. Check-off Preserve Network Settings and/or Preserve Time Zone Settings.
- 4). After designating settings to be preserved, click Reset All Settings to restore settings to their factory defaults.

## REBOOT

## Steps:

1). Opening the Setup Tab>Maintenance drop-down menu and clicking the Reboot link will open the **Reset All Settings** page. To reboot the system, click **Reboot** and follow the on-screen instructions.

# **3XLOGIC**

## Steps:

Opening the Setup Tab>Maintenance drop-down menu and clicking the 3xLOGIC link will open 1). the 3xLOGIC VIGIL Camera Server Software settings page.

Basic Live Search	Setup VISIX Analytic Sensor	<b>3×LOGIC</b>							
Basic Configuration	Setup > Maintenance > 3xLOGIC								
▶ Video	Stop/Start								
Event Configuration	Stop Restart								
Network Configuration									
Storage	Update Browse Uninstall								
► VCA									
▼ Maintenance									
Reboot	Uninstall								
2~10010									

Figure 7-94 Setup Tab – Maintenance Menu – 3xLOGIC Software Settings

2). From the **3xLOGIC VIGIL Camera Server** software settings page, a user can view the camera's current VIGIL Camera Server software version. The user can also Stop (shut down) or Restart the camera's VIGIL software by clicking the corresponding buttons.

- 3). A user may also update the camera's VIGIL Server Camera software from this page. To begin, click the **Browse** button in the **Update** section. This will deploy a standard file browser. Navigate to the update file on your system and select it. An **Update** button will appear when valid file has been chosen. Click **Update** to begin the software update process.
- 4). To uninstall the current VIGIL Server Camera software, click the Uninstall button.

# 7.8 Activation Menu

# ACTIVATE

## Steps:

1). Opening the **Setup Tab>Activation** drop-down menu and clicking the **Activate l**ink will open the **Activation** settings page.

Basic Live Search	VISIX Analytic Sensor	3×LOGIC
Basic Configuration	Hardware Code	
▶ Video	A03EEADB57580A445637ECB7F6D5BC25E9D38171AE380C2AF4EAA090C62A6FI	30
Event Configuration	Activation Code	
Network Configuration		~
<ul> <li>Storage</li> </ul>		$\sim$
► VCA	Installed Licenses	
Maintenance	Presence 1ch	×
	Advanced 1ch	
Activate	Apply	×
About		

Figure 7-95 Setup Tab – Activation Menu – Activation Form

- 2). From the Activation settings page, a user may view the camera's Hardware Code and any installed licenses. To register new license, enter the activation code into the Activation Code text field. Valid codes will be automatically processed and the corresponding license will appear in the Installed Licenses list.
- 3). Click **Apply** to save settings changes.

# 7.9 About Menu

# INFORMATION

# Steps:

1). Opening the **Setup Tab> About** drop-down menu and clicking the **Information** link will open the camera information page.

Basic Live Search :	Setup	IX Analytic Sensor	3×LOGIC
<ul> <li>Basic Configuration</li> </ul>	Setup > About > Informat	ion	
Video	USN :	E30E01723	
<ul> <li>Event Configuration</li> </ul>	Full name :	VISIX 2MP Analytic Mini Dome Camera	
Network Configuration	Short name :	VX-2A-IMD-X	
Storage	Firmware version :	1.10.0.16(Hotfix Release)	
► VCA	Userfs version :	8.80.0005	
Maintenance	Micro-P version :		
<ul> <li>Activation</li> </ul>	Manufacturer :	3xLOGIC	
▼ About	MAC address :	00:13:23:E0:17:23	
Information	Pan/Tilt :	None	
License	Focus/Zoom :	None	
	DC Auto-Iris :	None	
	Day/Night :	Software	
	IR Illumination :	None	
	TV-Out :	0	
	AudioIn/AudioOut :	0/0	
	DI/DO :	0/0	
	RS-485 :	0	
	USB :	0	
	SD :	1	

Figure 7-96 Setup Tab – About Menu – Information Form

The Information page provides a user with at-a-glance information regarding the following camera components/specifications:

- Serial Number
- Full and Short Names
- Firmware Version
- VIGIL Server Camera (Userfs) Software Version
- Micro-P Version
- Manufacturer Name
- MAC Address
- Pan/Tilt Capability

- Focus/zoom Capability
- DC-Auto Iris Info
- Day/Night Mode Info
- IR Illumination Specs
- TV-Out
- Audio In/Audio Out
- DI/DO
- RS-485
- USB
- SD

## LICENSE

## Steps:

1). Opening the **Setup Tab>About** drop-down menu and clicking the **About** link will open the License information page.

#### Basic Live Search Setup 3×LOGIC VISIX Analytic Sensor Setup > About > License Basic Configuration View licenses Video Event Configuration OPEN SOURCE SOFTWARE LICENSES ~ Network Configuration This product includes software licensed under the GNU General Public License and other open source licenses. With respect to receiving the source code that is subject to the open ource licenses, you can Storage contact the manufacturer found at Information page. VCA 1. The GNU General Public License applies to the following software Maintenance components of this product: Activation GPL v2: busybox-1.17.3 mtd-utils-1.4.9 alsa-utils-1.0.11 splay-0.8.2 About Information wireless\_tools.29 wpa\_supplicant-0.7.3 libgcrypt-1.5.2 License Izo-2.06 ethtool vesion 5 in.telnetd 6.8 ntpdate 4.2.0a tcpd 7.6 libgpg-error-1.0 gSOAP Toolkit 2.8.8(GPL and the gSOAP public license) ARM MMCSD/NOR/NAND/SPI User Boot Loader and Flash writers (1.1.0) u-boot-1.3.4 dosfstools-2.11 Mdhcp6 Open Aria SRTP 2. The GNU Lesser General Public License applies to the following software components of this product: LGPL v2: e2fsprogs-1.4 glibc-2.10.1 LGPL v2.1:

- Figure 7-94 Setup Tab About Menu License Information
- 2). The **License Information** page provides a user with at-a-glance information regarding the licensing for several of the camera and software components.

# 8 IP Address – Hexadecimal/Decimal Conversion Table

Refer to the following table when converting the MAC address of the device to the IP address:

Hex	Dec												
0	0	25	37	4A	74	6F	111	94	148	B9	185	DE	222
1	1	26	38	4B	75	70	112	95	149	BA	186	DF	223
2	2	27	39	4C	76	71	113	96	150	BB	187	E0	224
3	3	28	40	4D	77	72	114	97	151	BC	188	E1	225
4	4	29	41	4E	78	73	115	98	152	BD	189	E2	226
5	5	2A	42	4F	79	74	116	99	153	BE	190	E3	227
6	6	2B	43	50	80	75	117	9A	154	BF	191	E4	228
7	7	2C	44	51	81	76	118	9B	155	C0	192	E5	229
8	8	2D	45	52	82	77	119	9C	156	C1	193	E6	230
9	9	2E	46	53	83	78	120	9D	157	C2	194	E7	231
0A	10	2F	47	54	84	79	121	9E	158	C3	195	E8	232
0B	11	30	48	55	85	7A	122	9F	159	C4	196	E9	233
0C	12	31	49	56	86	7B	123	A0	160	C5	197	EA	234
0D	13	32	50	57	87	7C	124	A1	161	C6	198	EB	235
0E	14	33	51	58	88	7D	125	A2	162	C7	199	EC	236
OF	15	34	52	59	89	7E	126	A3	163	C8	200	ED	237
10	16	35	53	5A	90	7F	127	A4	164	C9	201	EE	238
11	17	36	54	5B	91	80	128	A5	165	CA	202	EF	239
12	18	37	55	5C	92	81	129	A6	166	СВ	203	F0	240
13	19	38	56	5D	93	82	130	A7	167	CC	204	F1	241
14	20	39	57	5E	94	83	131	A8	168	CD	205	F2	242
15	21	3A	58	5F	95	84	132	A9	169	CE	206	F3	243
16	22	3B	59	60	96	85	133	AA	170	CF	207	F4	244
17	23	3C	60	61	97	86	134	AB	171	D0	208	F5	245
18	24	3D	61	62	98	87	135	AC	172	D1	209	F6	246
19	25	3E	62	63	99	88	136	AD	173	D2	210	F7	247
1A	26	3F	63	64	100	89	137	AE	174	D3	211	F8	248
1B	27	40	64	65	101	8A	138	AF	175	D4	212	F9	249
1C	28	41	65	66	102	8B	139	B0	176	D5	213	FA	250
1D	29	42	66	67	103	8C	140	B1	177	D6	214	FB	251
1E	30	43	67	68	104	8D	141	B2	178	D7	215	FC	252
1F	31	44	68	69	105	8E	142	B3	179	D8	216	FD	253
20	32	45	69	6A	106	8F	143	B4	180	D9	217	FE	254
21	33	46	70	6B	107	90	144	B5	181	DA	218	FF	255
22	34	47	71	6C	108	91	145	B6	182	DB	219		
23	35	48	72	6D	109	92	146	B7	183	DC	220		
24	36	49	73	6E	110	93	147	B8	184	DD	221		

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# **9 Revision History**

MAN#	DATE(M/D/Y)	Comments
11-2015-1	11/02/2015	Styled
01-2016-22	01/22/2016	Finalized initial draft.



10225 Westmoor Drive, Suite 300, Westminster, CO 80021 | www.3xlogic.com | (877) 3XLOGIC