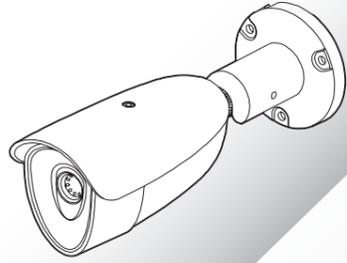


3XLOGIC



VISIX VX-VT-35/56 Bullet-style Thermal Imager

Quick Start Guide

Ver. 1.1/ 2022.08
Before installing and using the camera, please read this manual carefully.
Be sure to keep it handy for future reference.



a. 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

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to correct the interference by one of the following measures: Reorient or relocate the receiving antenna, increase separation between the equipment and receiver, connect the equipment to an outlet on a different circuit or consult a dealer or authorized radio / TV technician.

b. This device complies with ICES-3 (A)/NMB-3(A) and RSS-247 of Industry Canada Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

c. This device is UL and ULC E467574 (Safety) certified

d. This device complies with CE 2014/30/EU – EMC Directive, 2015/863/EU RoHS3 as part of 2011/65/EU RoHS

e. This device complies with UKCA Electromagnetic Compatibility Regulations 2016 and UKCA Restriction of the of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012

f. This device complies with WEEE

Safety Information

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

If the product is not functioning properly or damaged, contact the service center or purchasing office.

CAUTION : Risk of explosion if battery is replaced by an incorrect type.
Dispose of used of used batteries according to the instructions.

ATTENTION : Il y a risque d'explosion si la batterie est remplacée par une batterie de type incorrect.
Mettre au rebut les batteries usagées conformément aux instructions.



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

BATTERY

1. There is a risk of explosion if the battery is incorrectly replaced. The battery should be replaced only with the same battery.
2. Used batteries must be disposed of according to local regulations or battery manufacturer's instructions. Disposing of in a fire or in a hot oven, or mechanically crushing and cutting may cause an explosion.
3. Leaving the battery in a very high temperature or low air pressure environment may result in an explosion or leak of flammable liquids or gases.

POWER

1. Use only standardized adapters written in the manual. Incorrect connection of the power source can cause fire, electric shock, or failure.
2. If there is smoke or a strange smell from the power source, disconnect the power immediately and contact the service center or purchasing office. If you continue to use it as it is, it can cause fire and electric shock.
3. Disconnect the power plug from the outlet before connecting to the power terminal block.

INSTALLATION

1. Install it according to the temperature and humidity environment suitable for the product specifications. Otherwise, it can cause fire and electric shock.
2. Thunder and lightning can cause problems with the camera. When installing, be careful to minimize damage caused by lightning such as grounding.
3. Do not place conductive materials (drivers, coins, metal sticks, etc.) and water-filled containers on or near the camera. This can lead to fire, electric shock, injury should the camera mount become unstable and the camera falls.
4. If you want to move the installed product, turn off the power and move it or reinstall it. Failure to de-power and disconnect writing can cause fire and electric shock.

5. Do not install it in places where there is a lot of moisture, dust, soot, etc. This can cause fire and electric shock.
6. Avoid places where direct sunlight comes in or where heat comes out, such as heating appliances. This can cause fire and electric shock.

CLEANING

1. Do not spray water directly on the product or its parts when cleaning. This can lead to fire and electric shock.



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

POWER

1. Use the power line after fixing it firmly to the power connection terminal. Incomplete connection can cause fire.
2. Do not extend the adapter output cable. If you need to install the power cable extension, please contact your sales representative.
3. Use insulated power for PoE connected external power.

INSTALLATION

1. It is recommended not to touch the lens when installing the product as the factory ships with a focus adjustment completed during the manufacturing completion inspection phase.
2. Avoid installing cameras facing bright lights like sunlight. This causes damage to the image sensor.
3. Make sure it safe and secure when installing camera on the wall or ceiling. An improperly secured camera can cause injury when falling
4. Do not connect multiple cameras to one adapter. Excess capacity causes abnormal heat and fire.
5. Wear protective gloves when installing/uninstalling the camera. High temperature on the surface of the product may cause burns.
6. Don't drop or shock the product. Please stay away from places where vibration is severe or magnet types are present.
7. Install in a well-ventilated place. Overheating due to poor ventilation can cause fire / failure.

CLEANING

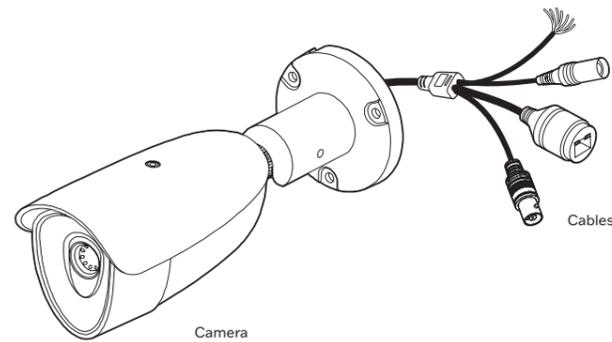
1. Wipe the contaminated surface with a clean, soft, dry cloth or wet the soft, dry cloth to prevent water from flowing, then wipe the contaminated area.

Installation and Use Precautions

1. The battery (battery pack or equipped battery) must not be exposed to excessive heat such as sunlight, fire, etc.
2. Do not disassemble the camera at your discretion.
3. If you forcefully install any part of the camera, damage can cause the camera to malfunction and fail and can lead to other safety hazards (fire, electric shock, etc..)
4. Do not punch or shake the camera and be careful not to damage the camera with careless storage or malfunction.
5. Be careful not to install the camera in a rainy or humid place, and do not store it in a wet or humid environment.
6. Installing or using the product in water can cause serious product failure.
7. Do not install the product if there is chemical or vapor in the place where the product is installed, or if they can potentially be generated at the install site.
8. Be careful not to get chemicals on the surface of the product when installing the product. Chemical solvents such as cleaning agents and adhesive components can cause irreparable damage to the surface of the product.
9. Do not install it near a kitchen or cooking / prep surface as edible oil such as soybean oil can also cause product damage and deformation.
10. Be careful not to get foreign substances in the Micro SD card terminal. If there is any foreign substance, wipe it away with a soft cloth.
11. Data will not be saved at the end of the life of the Micro SD card. If SD card health has diminished, purchase a new Micro SD card.
12. Moisture may occur in the glass of the camera when the new product box is opened (or when the product is initially running). The generated moisture is removed by a Gore vent attached to the camera within hours of the power connection.
13. For products enclosed with a desiccant or card-type absorbent, please install it according to the manual.
14. Use only with cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus.
15. Unplug this apparatus when a cart is used. Use caution when moving the cart/apparatus combination to avoid injury from tip-over.



Step 1. Product & Accessories

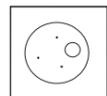


Camera

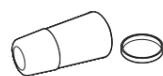
Cables



Torx Wrench



Template Sheet



Waterproof cap & Gasket

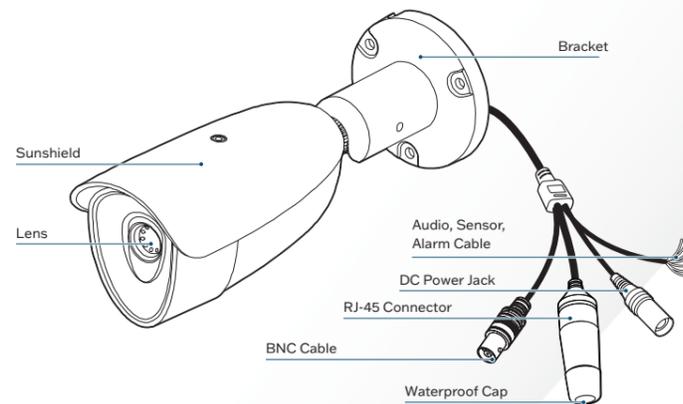


Screw & Plastic Anchor - 3pcs



Quick Manual

Step 2. Part Name



Bracket

Sunshield

Lens

Audio, Sensor, Alarm Cable

DC Power Jack

RJ-45 Connector

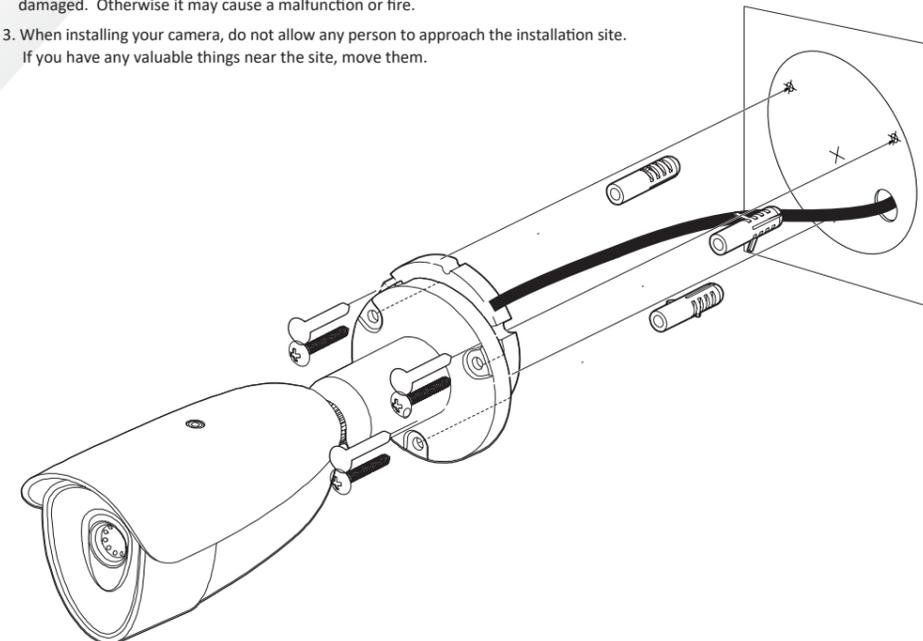
BNC Cable

Waterproof Cap

Step 3. Installation

Before installing your camera, please must read the following safety precautions.

1. You have to check whether the location can bear five times of the weight of your camera.
2. Do not let the cable be caught improperly or kink and do not allow the electric line cover to be damaged. Otherwise it may cause a malfunction or fire.
3. When installing your camera, do not allow any person to approach the installation site. If you have any valuable things near the site, move them.



- 1 Drill three holes on the installation surface based on the provided installation template.
- 2 Insert the plastic anchors into the holes.
- 3 Install the provided ferrite core in the cable.
- 4 Attach the provided wall cushion to the bottom of the camera's pan/tilt bracket.
- 5 Fix the camera to the installation surface.

A. Align the screw holes of the camera's pan/tilt bracket and the plastic anchors.
B. Insert the provided screw into the plastic anchors through the screw holes of the camera's pan/tilt bracket.
C. Tighten the screws firmly into the plastic anchors.

- 6 Connect all the necessary cables.
- 7 Adjust the angle.

Step 4. Cabling

Two Options

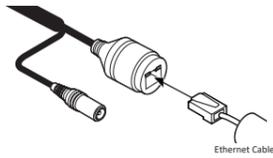
Use a PoE-enabled switch to connect data and power through a single cable and begin viewing and recording images instantly. A non-PoE switch will require an adaptor for power transmission.

1. Using a PoE-Enabled Switch

The Camera is PoE-compliant, allowing transmission of power and data via a single Ethernet cable.

PoE eliminates the need for the different cables used to power, record, or control the camera.

Follow the illustration below to connect the camera to a PoE-enabled switch using an Ethernet cable.



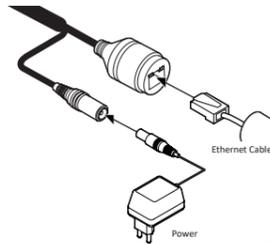
Ethernet Cable

2. Using a Non-PoE Switch

If a PoE-enabled switch is not used, use a power adaptor for power transmission and non-PoE switch for data transmission.

Follow the illustrations below to connect the camera without a PoE-enabled Switch.

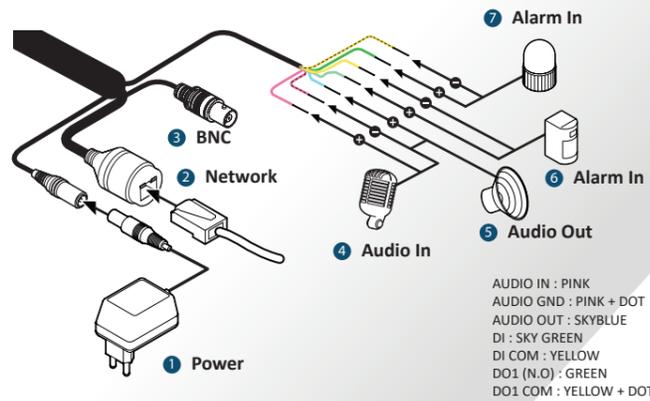
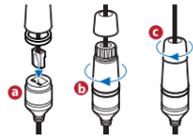
Follow the illustration below to connect the camera to a PoE-enabled switch using an Ethernet cable.



Power

How to connect to the network through the water proof cable

Put the Lan cable into (a), then (b) will be fastened to (a) tightly. As a final step, (c) needs to be assembled to (b) without making o leaving any space.



1 Power Connection

Please, check the voltage and current capacity of rated power carefully.

Rate Power	Power Consumption	PoE
DC12V	11.9W	IEEE 802.3af Class 3

2 Network Connection

Connect the crossover cable into the RJ-45.

3 BNC Connection

Used to connect video output device such as monitor using the BNC coaxial cable.

4 Audio In

Connect the 'Audio In' cable of the camera to the device such as a microphone.

5 Audio Out

Connect the 'Audio Out' cable of the camera to device such as a speaker.

Audio Out supports only RTSP Back channel function. It plans to make it available on the web later.

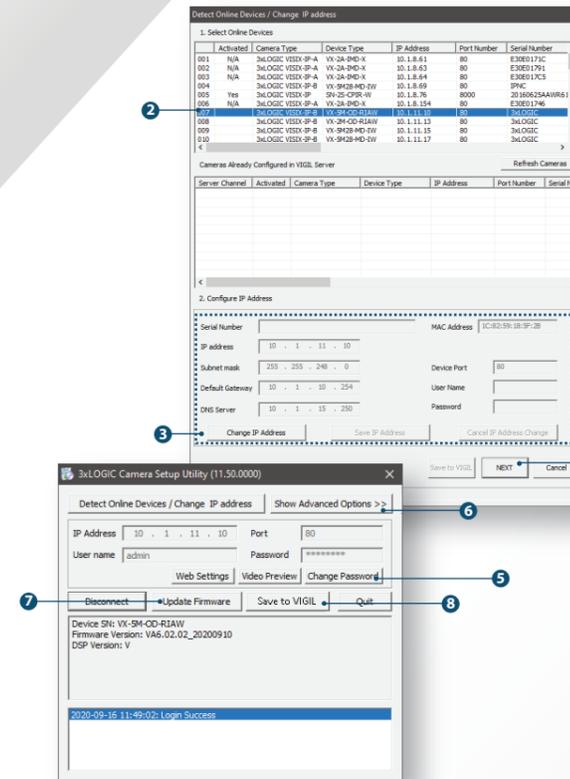
6 Alarm In

Cable of the sensor/alarm input device should connect to Yellow and Sky Green line of the Alarm cable.

7 Alarm Out

Connect to alarm lights, siren or lamps, etc...The sensor types are normal open and normal close. Cable of the alarm output device should connect to DO1(N.O.) and DO1 COM of the cable slot.

Step 5. Identification / Adding Camera to VIGIL Server



1 Run the 3xLOGIC Camera Setup Utility

- Download and install the latest version of the utility (at www.3xlogic.com) on the VIGIL Server system. The VIGIL Server should be on the same LAN network as the camera(s) you are adding. If the camera was purchased as a standalone device, run the utility on a PC on the same network as the camera and skip to Step vi below.
- Navigate to **Start > Programs > VIGIL>Utilities** and launch the VIGIL Firewall Utility. Create firewall rule for **VISIXIPSetup Utility** if one has not already been created.
- Launch VIGIL Server, navigate to **Settings > Cameras**.
- Select the desired camera channel from the treeview.
- Open Network Camera Settings and set the **Type** to **VISIX-IP-B**.
- Click the **Detect Camera (Detect Online Devices)** button. The utilities' **Detect Online Devices** window will now launch with a list of detected cameras on the network.

2 Identify your Camera

Select the desired camera from the list of devices.

3 Change IP Info (Optional for non-DHCP environments)

The camera will use DHCP by default and should be assigned an IP by your network automatically. If the network lacks DHCP and requires a static IP for the camera, click **Change IP Address** and edit the camera's IP info. Default username and password of **admin / admin** will be required to change IP info. Enter the credentials and click **Save IP Address** after making changes to save the new IP information.

- Default TCP/IP information (set after 90 seconds if no DHCP is detected).
 - IP: 192.168.1.80
 - Subnet Mask: 255.255.255.0
 - Gateway: 192.168.1.1
 - DNS : 168.126.63.1

4 After making and saving any IP changes, confirm the camera is still selected in the devices list then click **Next**. The main utility window will now launch.

5 Change Password

After the main utility window launches with the camera selected, enter in the default username and password of **admin / admin** in then click **Connect**. Once the utility states **Login Success**, click **Change Password**. A pop-up will deploy. Enter and confirm a unique password, then click **OK** to complete the change. A pop-up will confirm success.

The default user ID and password must be changed for security reasons. Video will not stream from the camera until the default admin password is changed.

The ID and PW will be set to defaults when a 'factory reset' is performed on the camera.

6 Show Advanced Options (Optional)

Click **Show Advanced Options** to edit video stream (main stream, sub stream) settings for the camera.

7 Update Firmware (Optional).

If you have the latest firmware file downloaded (contact 3xLOGIC support for latest available firmware), click **Update Firmware**, locate the firmware file on your system and click **Open**. The utility will install the firmware on the camera.

8 a. Finalizing Setup - Adding to VIGIL Server

If adding the camera to VIGIL Server software, click **Save to VIGIL**. The camera will occupy the camera channel you selected in Step 1 (iv) of this section.

b. Setup - Standalone

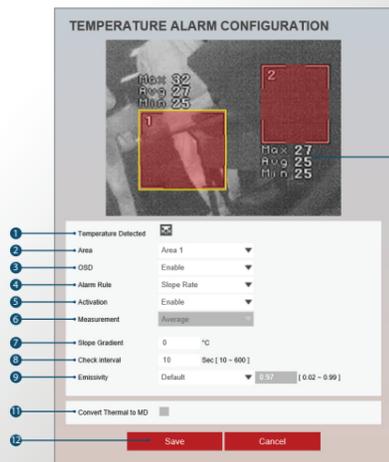
If using as a standalone All-in-One device, download the VISIX Tech Setup app on your mobile device (iOS or Android) and use the app to scan the QR code on the camera. Follow the instructions in the app to complete setup of your camera.

9 Rebooting or Resetting the Camera to Factory Settings

If a factory reset is required, login to the camera's browser interface (enter IP into a browser URL bar and login to the camera) then navigate to **Setup > System > Factory Reset**. To perform a basic camera reset, Navigate to **Setup > System > Restart**

Step 6. Temperature Alarm Event Setup

To configure temperature alarms, login to the camera's browser interface and navigate to **Setup>Events > Thermal Temp Alarm**. See below for descriptions of the different rule configuration values and other available options.



1 Temperature Detected - Indicates a Temperature Alarm is activated.

Event Alert Icon (🔥) appears if 'Temperature Alarm' is activated.

2 Area Selection - There are 8 detection areas available. Area shape is rectangular, other shapes are not supported. In theory the minimum size of the area is single pixel but in practise this is hard to reach due to area drawing method.

3 OSD - When enabled, the temperature values are overlaid over the video. Selection is for each area independently.

4 Alarm Rule - There are 3 temp detection alarm rules to select for an area:

- Above** : This setting will trigger Thermal Alarm Event when the detected temperature exceeds the value defined in 'Slope Rate'.
- Below** : This setting will trigger Thermal Alarm Event when the detected temperature is below the value defined in 'Slope Rate'.
- Slope Rate** : This setting will trigger alarm when the average area temperature changes the value defined in 'Measurement' faster than the time defined in 'Check Interval'.

5 Activation - Enable or disable the selected area.

6 Measurement - This selection is not available for Alarm Rule 'Slope Rate'. For the Above or Below rules, the user has the following options :

- Maximum** : The alarm trigger is the highest detected pixel temperature.
- Average** : The alarm trigger is the average temperature of the area. Average calculation identifies the temperature of each pixel in the area and divides the sum by the count of pixels in the area.
- Minimum** : The alarm trigger is the lowest detected pixel temperature.

7 Slope Gradient - When Alarm Rule on 'OSD' is set to 'Slope Rate', this field becomes visible. In this field you define the temperature change that, when exceeded within the time set in 'Slope Gradient', will trigger Thermal Alarm Event. Temperature change considers both increasing and decreasing values.

8 Check Interval - When Alarm Rule on 'Alarm Rule' is set to 'Slope Rate', this field becomes visible. In this field you define the time window the temperature change is measured. When the temperature changes the value of 'Measurement' faster than this value, it will trigger Thermal alarm event.

9 Alarm Temperature - When Alarm Rule on 'OSD' is set to 'Above' or 'Below', this field becomes visible. In this field you define the temperature value which is the trigger point for the Alarm rule 'OSD'.

10 Emissivity - Different surfaces have different temperature emission values. You need to select the proper material from the dropdown list to increase accuracy. Available options are as below. Custom selection enables the user to set numeric value freely: Default / Glass, smooth(uncoated) / Limestone / Concrete, rough / Aluminum, anodized / Brick / Paint(including white) / Marble(polished) / Plaster, rough / Asphalt / Paper, roofing or white / Copper, oxidized / Copped, polished / Silver, oxidized / Aluminum foil / Silver, polished / Custom. See the table below for surface emissivity info.

Material	Emissivity	Material	Emissivity
Water, pure	0.96	Plaster, rough	0.89
Glass, smooth(uncoated)	0.95	Asphalt	0.88
Limestone	0.92	Paper, roofing or white	0.88 to 0.86
Concrete, rough	0.91	Copper, oxidized	0.87
Aluminum, anodized	0.9	Copper, polished	0.04
Brick	0.9	Silver, oxidized	0.04
Paint(including white)	0.9	Aluminum foil	0.03
Marble(polished)	0.89 to 0.92	Silver, polished	0.02

11 Convert Thermal to MD - This selection converts Thermal Alarm Events to ONVIF Motion Detection events, allowing a customer to easily record alarm events to some brands of DVR/NVR and to search for them based using the motion detection tag.

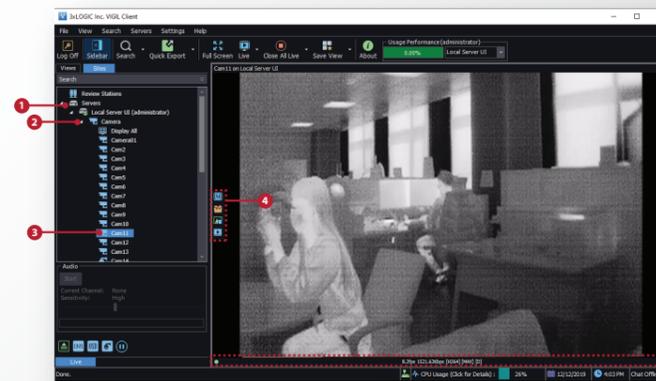
12 Click 'Save' to save the current settings.

13 Click 'Cancel' to return to the previous setting.

14 Be certain to interface the camera's rules with VIGIL Server using VIGIL's on-board analytics rule detection. This will ensure rule data is stored in the VIGIL Server database. See the latest VIGIL Server user guide for more information on using analytics rules with VIGIL Server.

Step 7. Viewing Camera in VIGIL Client

After adding the camera to VIGIL Server or setting the camera up as a standalone device (applicable models only), 3xLOGIC recommends VIGIL Client for viewing live and playback. Client's powerful toolset can be leveraged by users to thoroughly and quickly review camera footage and other data collected by a VIGIL Server or VIGIL All-in-One camera. After adding a VIGIL Server or standalone camera to VIGIL Client, refer to the steps in this section for details on viewing the camera's footage in VIGIL Client.



1 After launching VIGIL Client, extend the Servers

node located in the Sites tab treeview then double-click the desired VIGIL Server / standalone camera to reveal available devices and tools.

2 For Standalone devices, simply double-click the camera name in the drop-down to open a live view from the camera (skip to step 4). For VIGIL Servers, expand the **Cameras** node to reveal a list of available devices interfaced with the Server.

3 Double-click the desired camera. The camera's live stream will be automatically displayed in the viewing area.

4 Live Edge Controls instantly grant the user access to common tools such as a Capture Still Image, Instant Replay and Stream Type Selection.

5 Stream information such as FPS rate, bitrate and CODEC type are listed when the cursor hovers over the bottom edge of the frame.

Select Instant Replay from the Live Edge Controls to open the last 5 minutes of footage from the camera or perform a playback search to review a custom time range of playback. A Playback viewer featuring the requested footage will deploy.



For further details on reviewing and exporting playback and other advanced features such as audio recording and two-way audio talk, POS Data OSD and more, please visit www.3xlogic.com and consult the product documentation library for VIGIL Client-related support documentation.

Disposal of Old Appliance / Safety



1. When this crossed-out wheel bin symbol is attached to a product it means the product is covered by the European Directive 2002/96/EC.

2. All electrical and electronic products should be disposed of separately from the municipal waste stream in accordance to laws designated by the government or the local authorities.

3. The correct disposal of your old appliance will help prevent potential negative consequences for the environment and human health.

4. For more detailed information about disposal of your old appliance, please contact your city office, waste disposal service or the shop where you purchased the product.

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