Quick Guide

V810B Network Outdoor Bullet Camera
V930D/V9501D Network Outdoor Turret Camera

XX296-20-02

WARNING

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.   DO NOT INSERT ANY METALLIC OBJECTS THROUGH THE VENTILATION GRILLS OR OTHER OPENINGS ON THE EQUIPMENT.

CAUTION
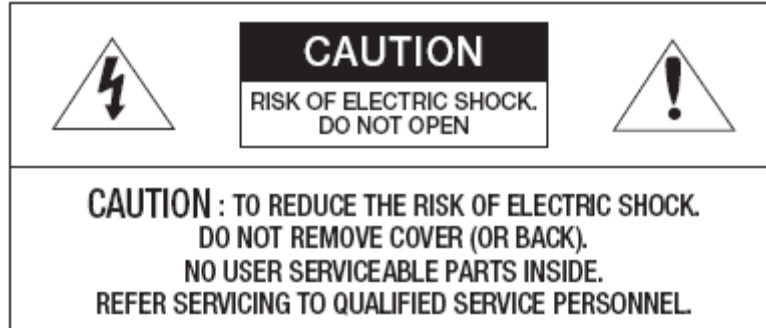
EXPLANATION OF GRAPHICAL SYMBOLS

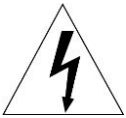 The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

 The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

FCC COMPLIANCE STATEMENT

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, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC INFORMATION: This equipment has been tested and found to comply with the limits for a Class 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.

CAUTION: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This Class A digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.

CE COMPLIANCE STATEMENT

WARNING
This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

CAUTION
RISK OF EXPLOSION IF BATTERY IS REPLACED
BY AN INCORRECT TYPE.
DISPOSE OF USED BATTERIES ACCORDING
TO THE INSTRUCTIONS.

IMPORTANT SAFETY INSTRUCTIONS

1. Read these instructions.

2. Keep these instructions.

3. Heed all warnings.

4. Follow all instructions.

5. Do not use this apparatus near water.

6. Clean only with dry cloth.

7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.

8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

11. Only use attachments/accessories specified by the manufacturer.

12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

13. Unplug this apparatus during lightning storms or when unused for long periods of time.

14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

15. ***CAUTION – THESE SERVICING INSTRUCTIONS ARE FOR USE BY QUALIFIED SERVICE PERSONNEL ONLY. TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT PERFORM ANY SERVICING OTHER THAN THAT CONTAINED IN THE OPERATING INSTRUCTIONS UNLESS YOU ARE QUALIFIED TO DO SO.***

16. Use satisfy clause 2.5 of IEC60950-1/UL60950-1 or Certified/Listed Class 2 power source only.

17. ITE is to be connected only to PoE networks without routing to the outside plant.

1. Introduction

The information in this manual provides quick installation and setup procedures for the V810B series and V930D/V9501D series network cameras. These units should only be installed by a qualified technician using approved materials in conformance with federal, state, and local codes. Read these instructions thoroughly before beginning an installation. Always refer to Vicon's website to assure you have the most up-to-date manual, www.vicon-security.com.

These camera series are designed for demanding security installations. They offer a number of fixed network camera versions with a variety of resolutions and a choice of fixed or motorized varifocal autoiris lens to fit almost any installation need. The camera includes IR illuminators. These cameras are fully compatible with Vicon Valerus and ViconNet VMS systems.

The cameras support H.264/H.265 compression technology and are designed for easy installation.

1.1   Components

This system comes with the following components;

Network Camera	1
Installation Guide	1
Template Sheet	1
Accessory Kit	1

Note 1. Check your package to make sure that you received the complete system, including all components listed above.

Note 2. Adapter for 12 VDC is not supplied.

2. Installation

For the network camera to operate, it is necessary to connect a network cable for data transmission and power connection from a power adapter.

## 2.1   Installation

Carefully remove the contents from the box.

· Fixed Bullet Camera

To mount the bullet camera, fix the base of the camera with the three screws provided in the accessory kit.
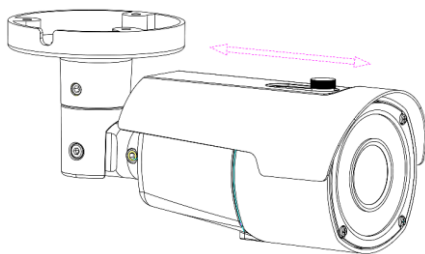
Mounting Screw

Plastic Anchor
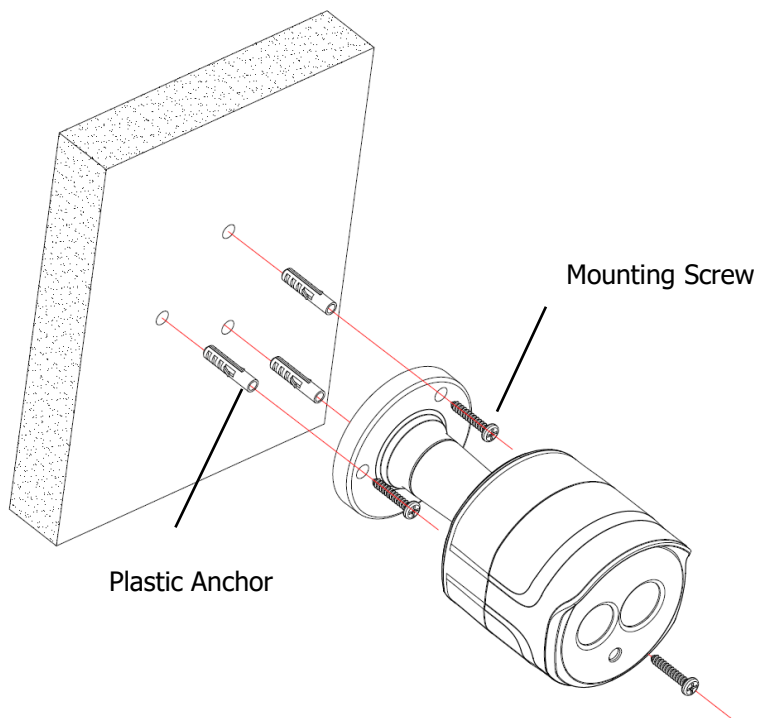
· MVF Bullet Camera

1) To mounting the bullet camera, fix the base of the camera with the three screws provided in the accessory kit.

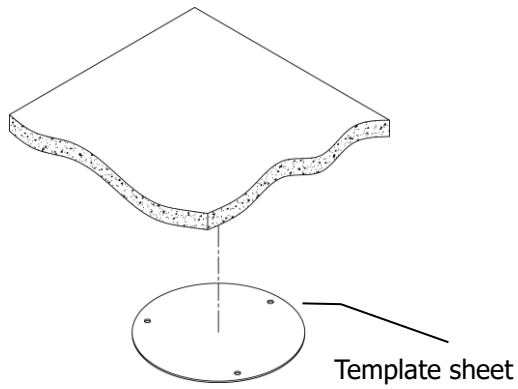2) Adjust the camera angle and tighten the mount using the L-wrench.

Plastic Anchor

Mounting Screw

360°

180°

90°

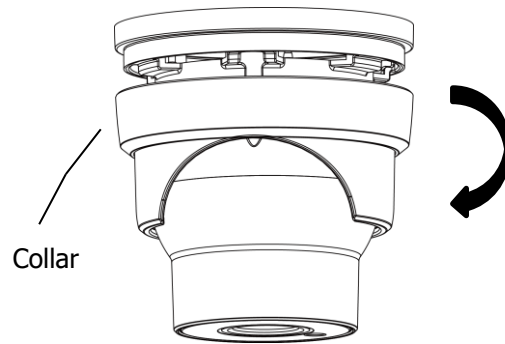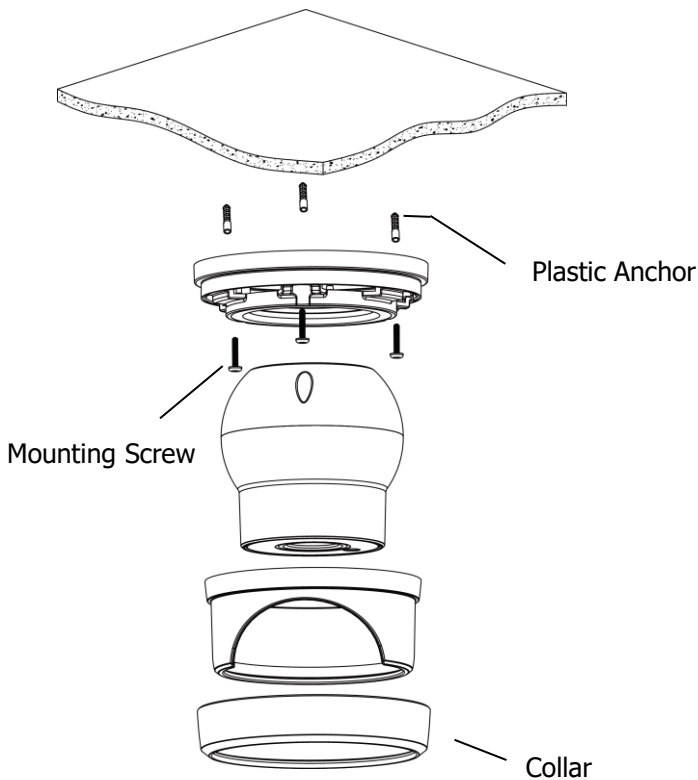L-wrench
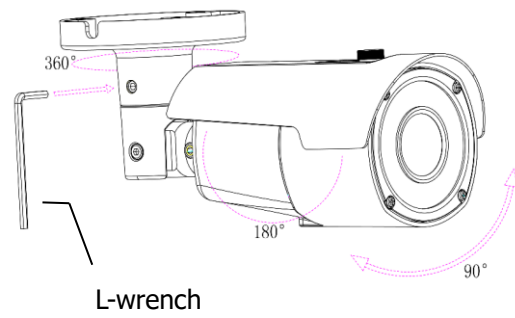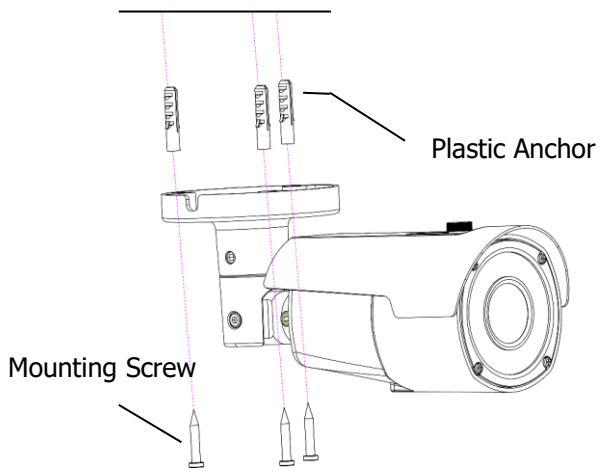
3) Adjust sun-shield position.

· **Fixed Turret Camera**

1) Secure the template sheet in place at the proper position.

2) Remove the collar of the camera by rotating it counterclockwise.

Collar

Template sheet

3) Fix the base of the camera with the three screws provided in the accessory kit.

4) Mount the collar back by rotating it clockwise.

Plastic Anchor

Mounting Screw

Collar

· **MVF Turret Camera**

1) Secure the template sheet in place at the proper position.
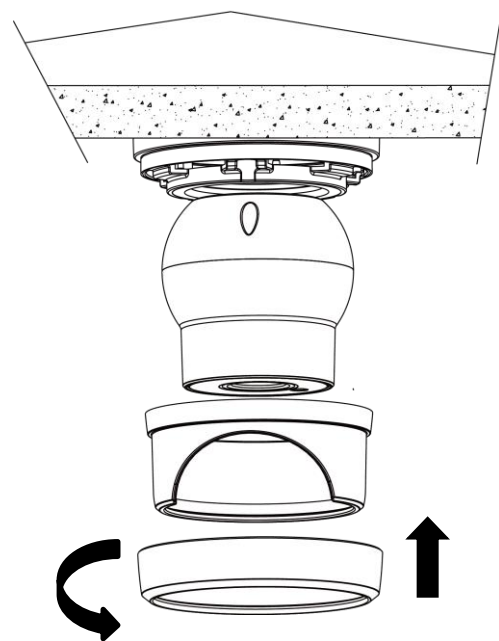

Template sheet

2) Remove the collar of the camera by rotating it counterclockwise.

Collar

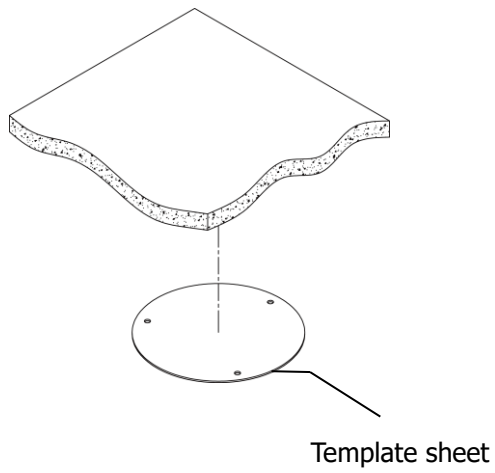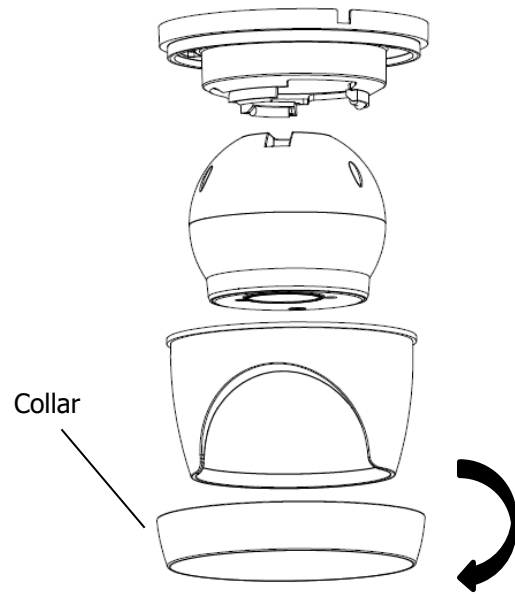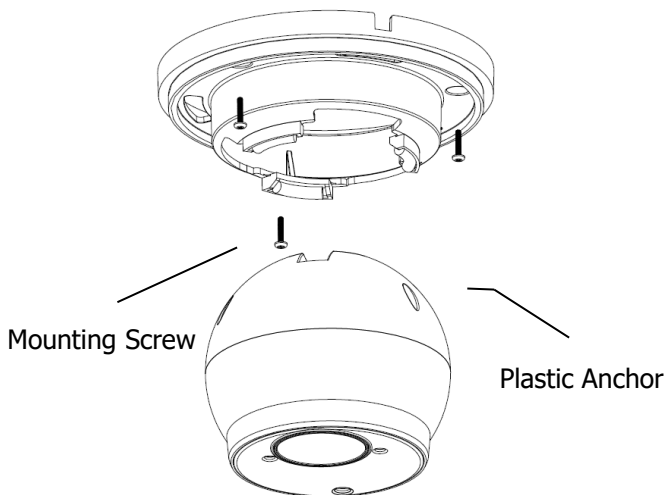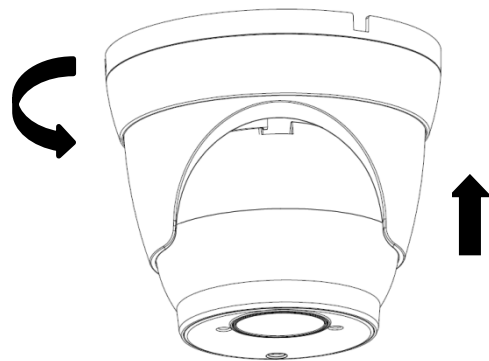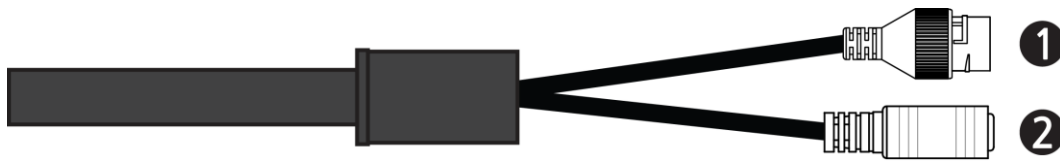3) Fix the base of the camera with the three screws provided in the accessory kit.

Mounting Screw

Plastic Anchor

4) Mount the collar back by rotating it clockwise.

- **Extension Cable**

NO	Item	Description
1	RJ-45	Ethernet, RJ-45 port compatible with 10/100Mbps PoE Modular Jack
2	DC Jack	Main Power, DC Jack, 12 VDC

- **Connecting to the RJ-45**

Connect a standard RJ-45 cable to the network port of the network camera. Generally a cross-over cable is used for directly connection to PC, while a direct cable is used for connection to a hub. You can also use a router featuring PoE (Power over Ethernet) to supply power to the camera.

- **Connecting the Power**

Connect the power of 12 VDC for the network camera. Connect the positive (+) pole to the '+' position and the negative (-) pole to the '-' position for the DC power.

- Be careful not to reverse the polarity when connecting the power cable.
- A router featuring PoE (Power over Ethernet) can also be used to supply power to the camera.
- For the power specifications, refer to the Appendix, Product Specification in the User's manual.
- Power for PoE switch must be turned off if using 12 VDC.

2.2   Network Connection and IP assignment

The network camera is designed for use on an Ethernet network and requires an IP address for access. Most networks today have a DHCP server that automatically assigns IP addresses to connected devices. By the factory default, your camera is set to obtain the IP address automatically via DHCP server. If your network does not have a DHCP server the network camera will use 192.168.1.100 as the default IP address.

If DHCP is enabled and the product cannot be accessed, run the "Smart Manager" utility on the CD to search and allocate an IP address to your products, or reset the product to the factory default settings and then perform the installation again.

1) Connect the network camera to the network and power up.

2) Start SmartManager utility (Start>All Programs>SmartManager>SmartManager); the main window displays. After a short while any network devices connected to the network will be displayed in the list.
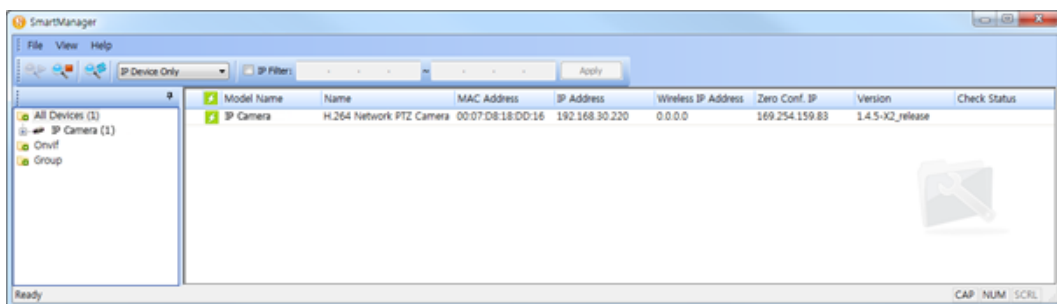
3) Select the camera on the list and click right button of the mouse. The pop-up menu below displays.
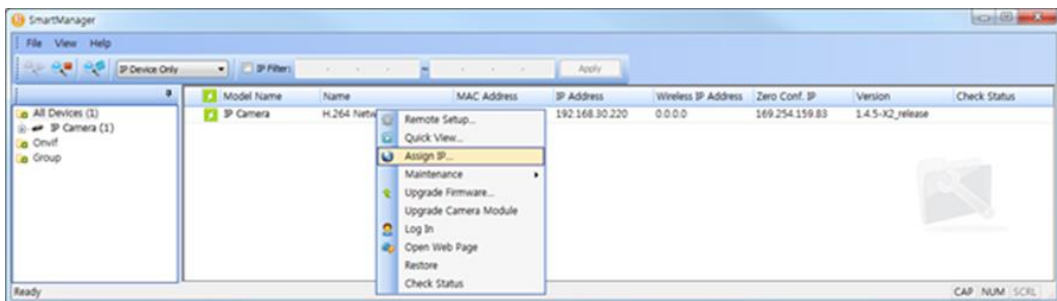
4) Select Assign IP. The Assign IP window displays. Enter the required IP address.

Note: For more information, refer to the Smart Manger User's Manual.

3. Operation

The network camera can be used with Windows® operating system and browsers. The recommended browsers are Internet Explorer®, Safari®, Firefox®, Opera® and Google® Chrome® with Windows.

Note: To view streaming video in Microsoft® Internet Explorer, set your browser to allow ActiveX controls.
Note: Some screens may appear different (i.e., color scheme) depending on the firmware version, but the functionality is the same or similar.

3.1   Access from a Browser

1) Start a browser (i.e., Internet Explorer).

2) Enter the IP address or host name of the network camera in the Location/Address field of the browser.

3) A starting page displays. Click Live View, Playback or Setup to select corresponding web page.

4) Click Live View for the network camera's **Live View** page to appear in the browser.
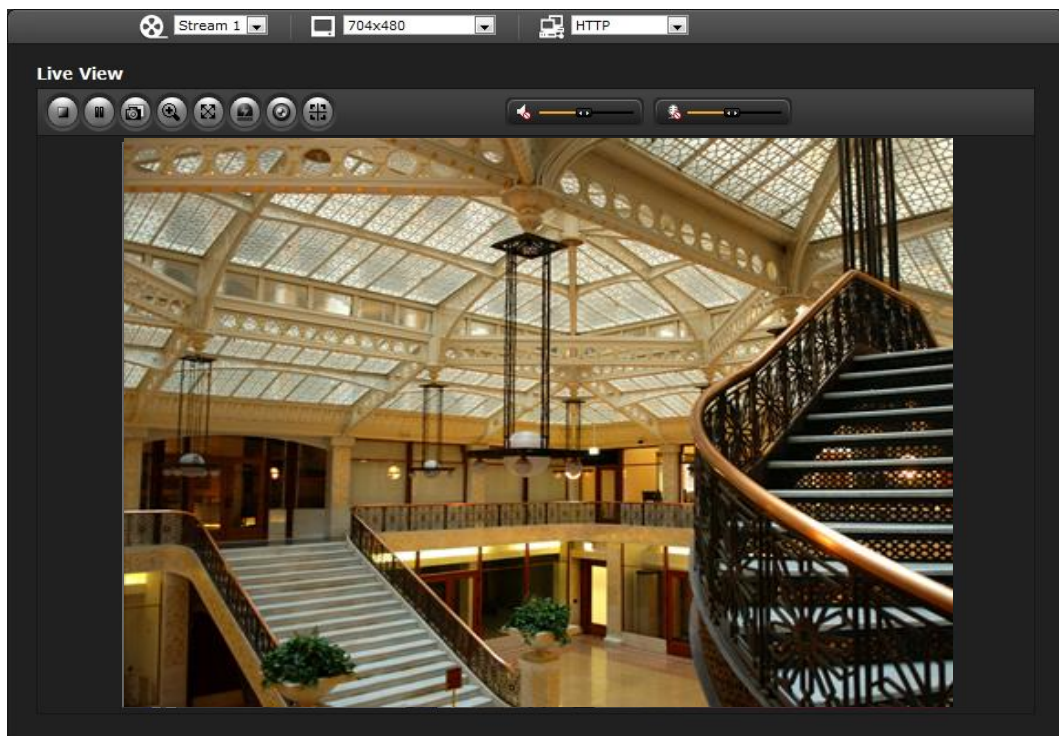
3.2 Access from the Internet

Once connected, the network camera is accessible on your local network (LAN). To access the network camera from the Internet you must configure your broadband router to allow incoming data traffic to the network camera. To do this, enable the NAT-traversal feature, which will attempt to automatically configure the router to allow access to the network camera. This is enabled from Setup > System > Network > NAT.

For more information, refer to section "3.5.4 System>Network>NAT" of the User's manual.

3.3 Setting the Admin Password over a Secure Connection

To gain access to the camera, the password for the default administrator user must be set. This is done in the "Admin Password" dialog, which is displayed when the network camera is accessed for setup the first time. Enter your admin name and password, set by the administrator.

Note: The default administrator username is "ADMIN" and password is "1234". If the password is lost, the network camera must be reset to the factory default settings.


To prevent network eavesdropping when setting the admin password, it can be done via an encrypted HTTPS connection, which requires an HTTPS certificate (see note below).

To set the password via a standard HTTP connection, enter it directly in the first dialog shown below. To set the password via an encrypted HTTPS connection, see "3.5.4 System > Security > HTTPS".

Note: HTTPS (Hypertext Transfer Protocol over SSL) is a protocol used to encrypt the traffic between web browsers and servers. The HTTPS certificate controls the encrypted exchange of information.

3.4 Live View Page

The Live View page provides several screen modes. Select the most suitable mode in accordance with your PC specifications and monitoring purposes.
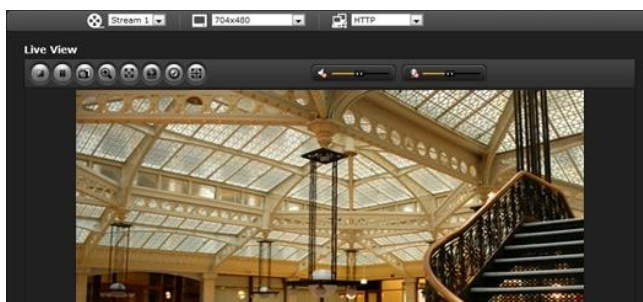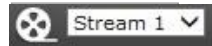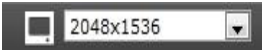
1) General controls

 Live View Page   Setup Page   Help Page

 The video drop-down list allows the selection of a customized or pre-programmed video stream on the Live View page. Stream profiles are configured under Setup > Basic Configuration > Video & Image. For more information, see section "3.5.1 Basic Configuration > Video & Image" of this manual.

 The resolution drop-down list allows the selection of the most suitable video resolutions to be displayed on Live View page.

 The protocol drop-down list allows the selection of the combination of protocols and methods to use depending on your viewing requirements and on the properties of the network.

2) Control toolbar

The live viewer toolbar is available on the web browser page only. It displays the following buttons:

 The Stop button stops the video stream being played. Pressing the key again toggles the start and stop. The Start button connects to the network camera or start playing a video stream.

 The Pause button temporarily stops (pauses) the video stream being played.

 The Snapshot button takes a picture (snapshot) of the current image. The location where the image is saved can be specified.

 The Digital Zoom button activates a zoom-in or zoom-out function for the video image on the live screen.

 The Full Screen button causes the video image to fill the entire screen area. No other windows will be visible. Press the 'Esc' button on the computer keyboard to cancel full screen view.

 The Manual Trigger button activates a pop-up window to manually start or stop the event.

 The Remote Focus button enables users to adjust focus and zoom remotely via network (motorized lens models only).

 The Fine Focus (one push focus) button readjusts focus automatically to set the focus to the optimum position (motorized lens models only).

3) Video Streams

The network camera provides several image and video stream formats. Your requirements and the properties of your network will determine the type you use.

The Live View page of the network camera provides access to H.264, H.265 and Motion JPEG video streams and to the list of available video streams. Other applications and clients can also access these video streams/images directly, without going via the Live View page.

4) Focus and Zoom Control (motorized lens models only).

You can control Zoom and Focus from the Live View screen. Press the button on the left top in the Live View screen to activate the Zoom and Focus control panel.
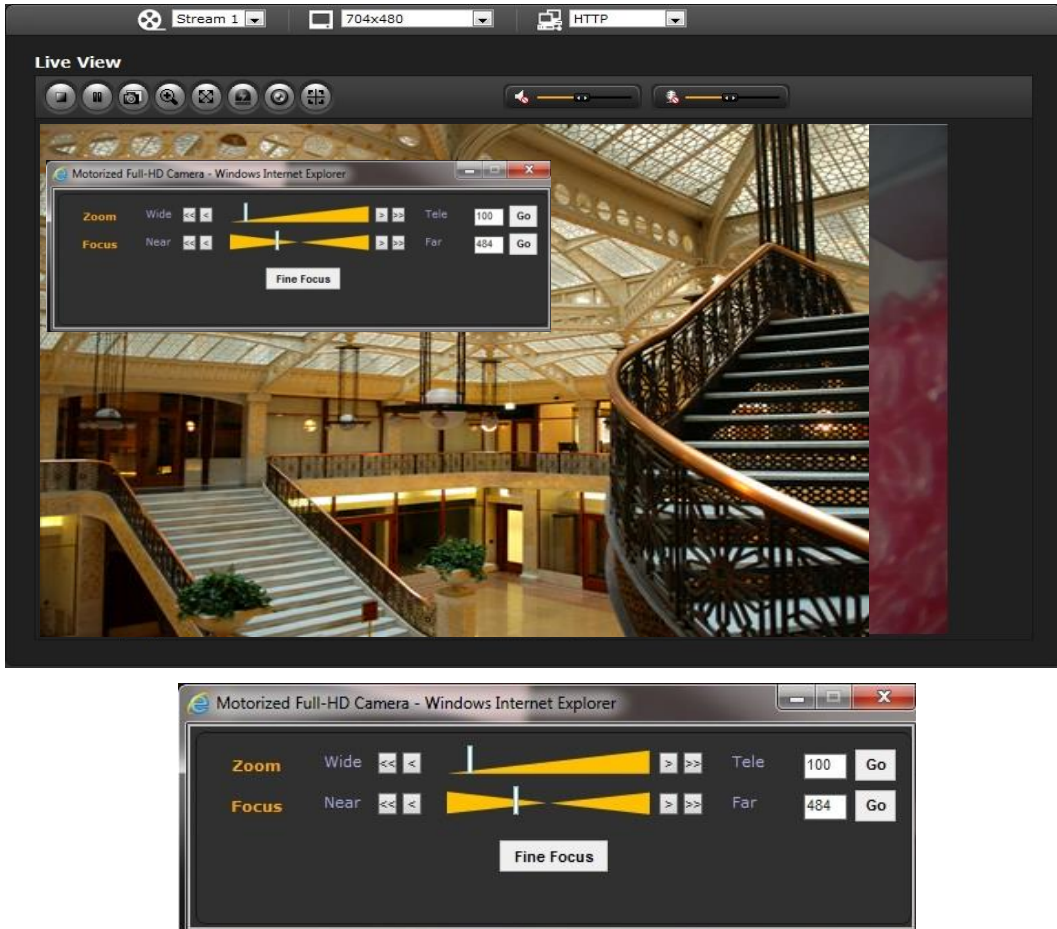
- Adjusting Zoom:
  Click "<" button to zoom out and click ">" button to zoom in. The focus is moved slightly after adjusting zoom; adjust the focus again, as necessary.

- Adjusting Focus:
  Click ">" button for far focus and click "<" button to near focus.

- Fine Focus:
  Click "Fine Focus" to fine tune and readjust focus automatically.

Note: Click the button in the Live View screen to set the focus to the optimum position.

3.5   Network Camera Setup

This section describes how to configure the network camera and is intended for product Administrators, who have unrestricted access to all the Setup tools, and Operators, who have access to the settings for Basic, Live View, Video & Image, Event, and System Configuration.

The network camera is configured by clicking Setup in the top right-hand corner of the Live View page. Click on this page to access the online help that explains the setup tools.

When accessing the network camera for the first time, the "Admin Password" dialog appears. Enter your admin name and password, set by the administrator.

Note: If the password is lost, the network camera must be reset to the factory default settings. See section "3.8 Resetting to the Factory Default Settings". The default administrator username is "ADMIN" and password is "1234".

System Requirement for Web Browser

Operating System: Microsoft® Windows® 98, Microsoft Windows ME, Microsoft Windows 2000, Microsoft Windows XP, or Microsoft Windows Vista®, Windows 7, Windows 8.1 and Windows 10.
CPU: Intel® Core™ 2 Duo 2GHz or higher, 1 GB RAM or more, 10 GB free disk or higher
VGA: AGP, Video RAM 32 MB or higher (1024x768, 24 bpp or higher)

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