



VIP2



VK2-1080VRD(IR)3V9(F)

Installation Guide

1. Description

This manual applies to the VK2-1080VRDIR3V9F, VK2-1080VRD3V9F and VK2-1080VRD3V9
These domes are fully featured Vandal resistant day/night IP cameras

Model Name	Features
VK2-1080VRD3V9	Varifocal Lens No IR LED
VK2-1080VRD3V9F	Motorized Varifocal Lens No IR LED
VK2-1080VRDIR3V9F	Motorized Varifocal Lens Built-in 24 IR LEDs

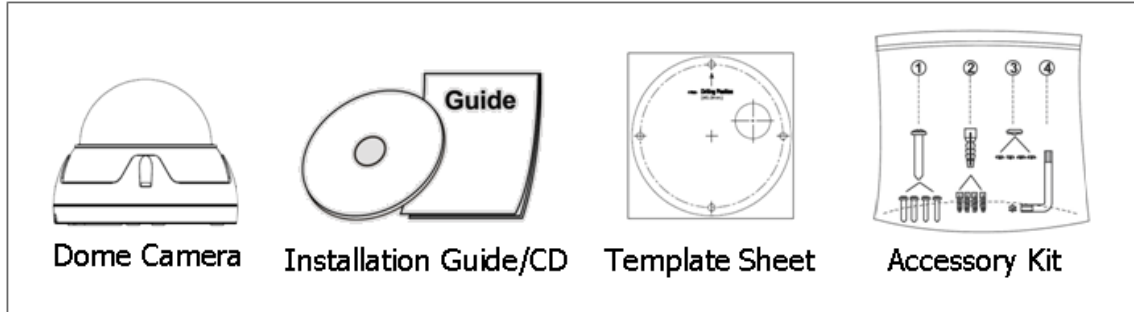
- **Installation Steps**

Follow these steps to install the network camera on your local network (LAN):

1. Check the package contents against the list below.
2. Connect the Network Camera.
3. Set an IP address.
4. Set the password.

- **Package Component**

The system comes with the following components:



- **Contents in the installation CD**

1. The DOMEUser's Manual
2. The SmartManager User's Manual
3. The VIP2 Client User's Manual
4. The SmartManager Installation software
5. The VIP2 Installation software

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

2. Installation

2.1 Base Installation

1. Position the supplied template in the mounting location, use this template to drill the required mounting holes and cable access holes

NOTE

The total mass of the main unit is approx 1.3kg. Check whether the ceiling to which the Dome Camera is installed is strong enough to hold the unit mass. If not, either mount in a different position or strengthen the ceiling.

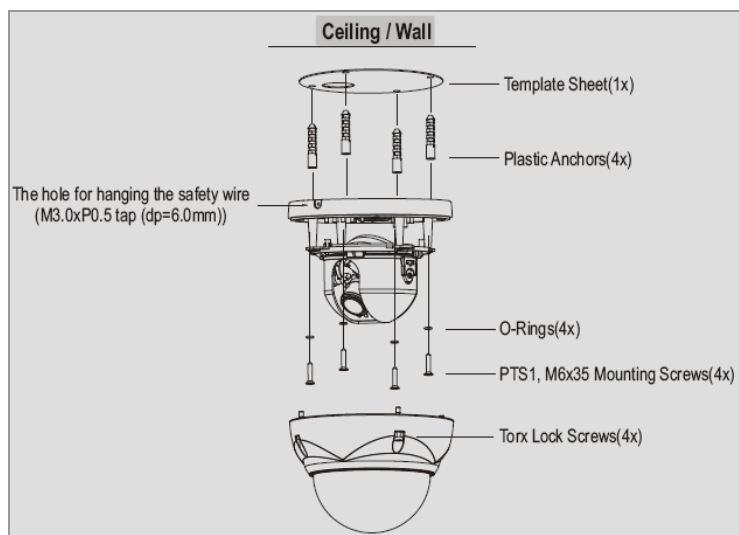
2. Attach safety wire for securing the dome camera to ceiling or structure.

3. Insert each cable through the cable hole, connect BNC cable and communication lines.

4. Unlock (4x) torx screws on the dome cover and fix the dome case firmly with supplied mounting screws (4x), plastic anchors (4x), O-Rings (4x).

5. Adjust desired focus and scene by turning and moving the hemisphere by hand.

6. Replace the housing cover and secure with the torx screws (4x).



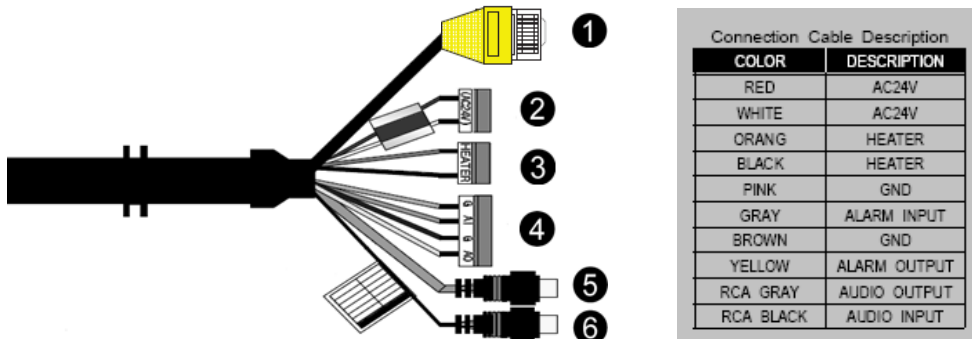
Important note:

The O-Rings(4X) form the primary waterproofing seal, and must be included in the installation process

As a minimum the dome requires the connection of a network cable, if a PoE switch is used this cable can supply power as well as transmit the video. If a PoE switch is not available then a separate power supply is required

2.2 cabling

- **Connection Cable**



NO	Connector Name	Description
1	Black	Ethernet, RJ-45 port compatible with 10/100Mbps having PoE functionality. Modular Jack
2	Red: AC24V/DC12V White: AC24V/GND	Main Power, 3pin terminal, DC12V 470mA(4.0W) / AC24V 5200mA(6.5W) with heater Off
3	Orange: AC24V Black: AC24V	Heater Power, 3pin terminal, max. 25Watt @ AC24V
4	Pink: GND Gray: Alarm Input Brown: GND Yellow: Alarm Out	Alarm Input and Output, 4pin terminal.
5	RCA Gray	Audio line output, RCA Jack
6	RCA Black	Audio line input, RCA Jack

- **Micro SD memory slot on the Board**

Card Slot for Micro SD memory: Socket "J15"

- **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 Alarms**

AI(Alarm In) :

You can use external devices to signal the dome to react on events. Mechanical or electrical switches can be wired to the AI (Alarm In) and G (Ground) connectors.

G(Ground) :

Connect the ground side of the alarm input and/or alarm output to the G (Ground) connector.

Alarm Out :

The network camera can activate external devices such as buzzers or lights. Connect the device to the AO (Alarm Out) and G (Ground) connectors.

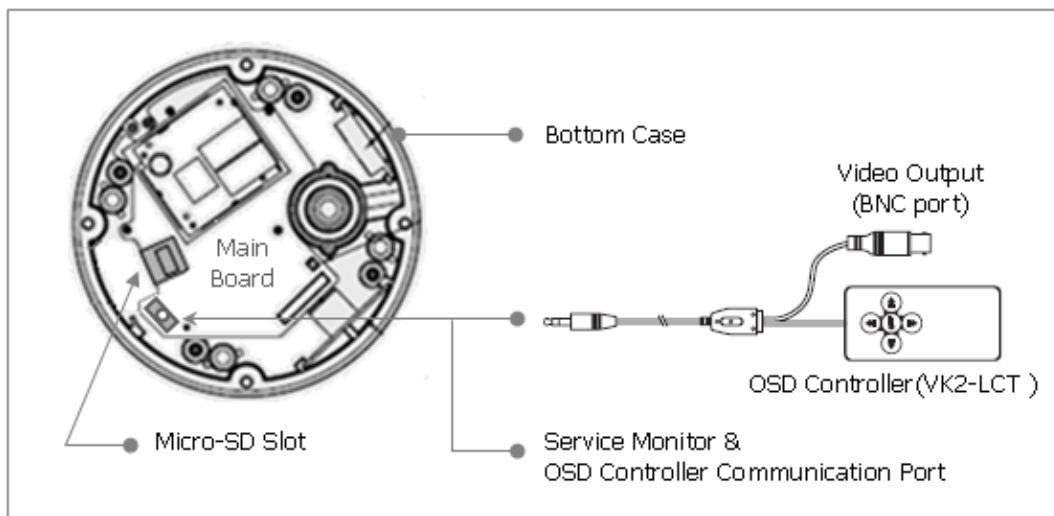
- **Connecting the Power (If PoE is not being used)**

Connect the power of DC12V or AC24V 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 you connect the power cable.
- You can also use a router featuring PoE (Power over Ethernet) to supply power to the camera.
- The heater will operate properly only by the heater power source of AC 24V.
- If using PoE, the heater will not operate at all.
- Use an adaptor if the installation site requires heater operations. Adaptor is sold separately.
- For the power specifications, refer to the "Appendix" of User's Manual. (page 75)
- If PoE and DC 12V are both applied, this camera will get supplied with power from PoE.

• **Connecting Service Monitor Port (using VK2-LCT)**

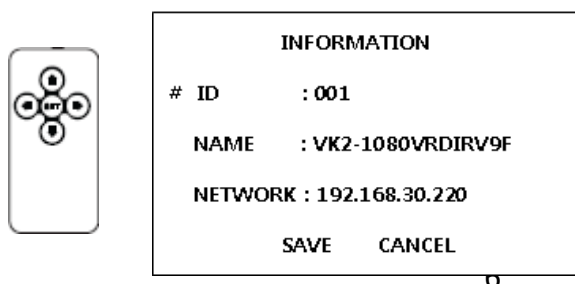
Service monitor output port (J3) is located on the board of the dome camera, and is used for an easy OSD setup.



► **ID & IP assignment**

The VK2-LCT local commissioning tool is used for an easy OSD setup. To make changes in the OSD menu, please use the OSD controller, this is an optional purchase. You can set Camera Title and IP Address, using a standard analogue set up monitor such as the VTMPRO. Instruction for use of the VK2-LCT is supplied with the unit.

1. Connect VK2-LCT to the Service Monitor port of the network camera.
2. Connect Service Monitor and the Video Output port of the VK2-LCT.
3. Press the SET button to access main Menu.
4. Change Camera ID, and IP Address. You can change the Name or Title and IP address of the camera. Using the ↑↓←→ buttons on the VK2-LCT, you can change the parameters.
5. Select SAVE or CANCEL to exit the Main Menu.



Video Output is used for an easy zoom and focus control when installing lens. Video Output is restricted to 704x480(576) resolution.

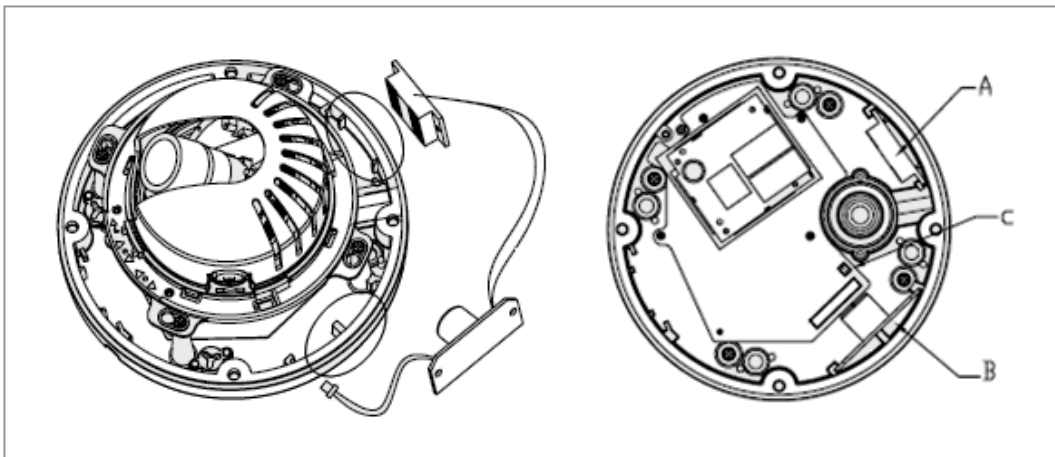
► **Zoom & Focus Control**

The camera enters Zoom and Focus control mode as soon as connecting the VK2-LCT to the Service Monitor port.

- Zoom Control: ↑(Zoom In), ↓(Zoom Out)
- Focus Control: ←(Focus Near), →(Focus Far)
- Smart Focus: Press and hold the SET button for 2 or more seconds. The camera readjusts focus automatically.

● **Heater Kit Installation(Optional)**

1. Place the heater element in slot "A". Please ensure that the cables are facing upwards and the heater is pointing towards the Dome.
2. Place the PCB in slot "B". Please ensure that the PCB is facing inside of the Dome with the connection blocks at the top.
3. Place the plug in the Socket "C" (J3) which is found on the controller board.



• Heater (IF Applicable)

Power Supply	24VAC
Power Consumption	20Watt
Heater On	at 41°F (5°C)
Heater Off	at 59°F (15°C)

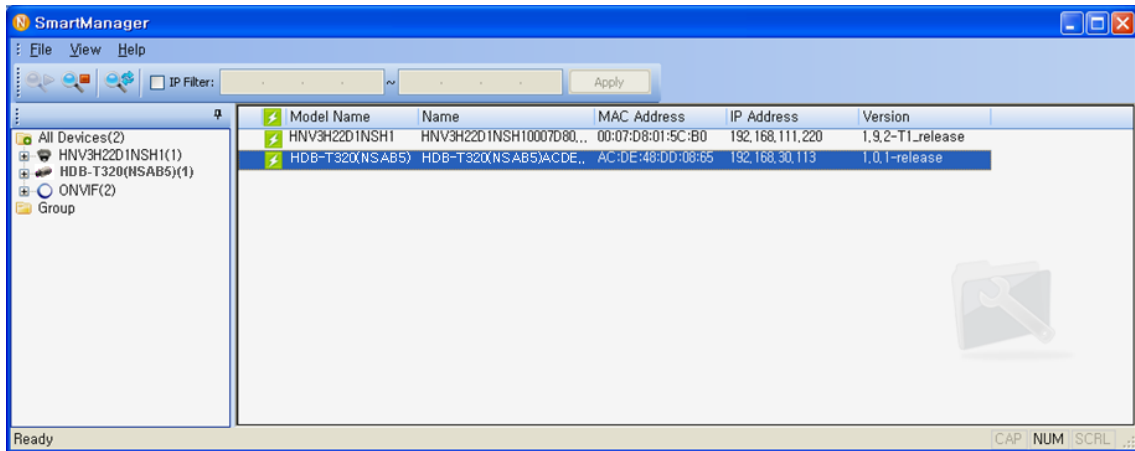
Note: The Heater module does not come equipped with the camera; however can be purchased as an option.

2.2 Network Connection and IP assignment

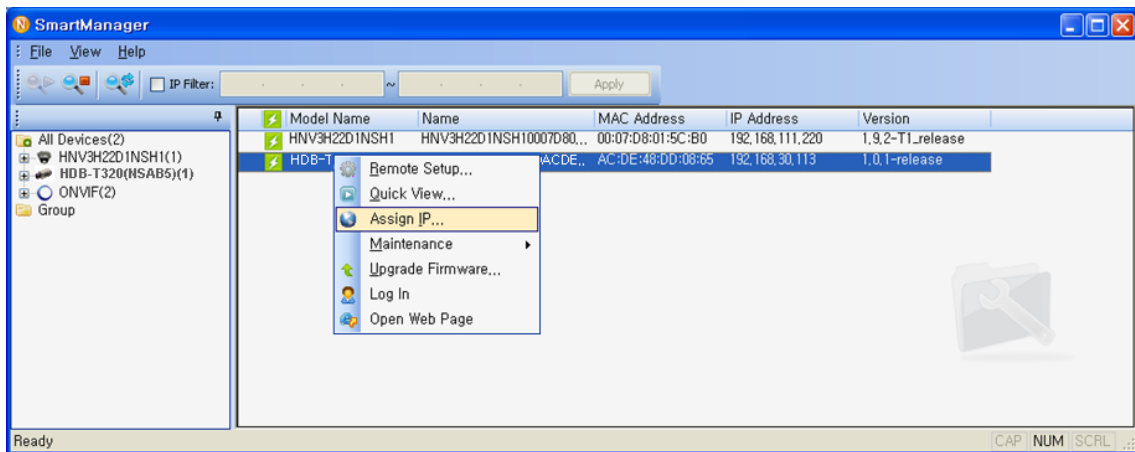
A standard straight network patch cable can be used to connect the camera to a switch or hub. Generally if connecting directly to a PC a crossover cable would be used.

1. Connect the dome to the network and power up.

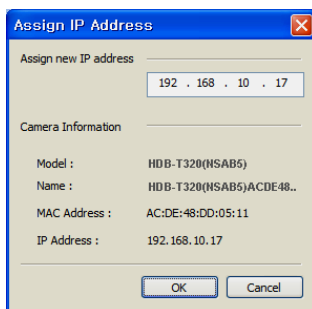
2. Start SmartManager utility found on the supplied CD (Start>All programs>SmartManager), the main window will be displayed, after a short while any network devices connected to the network will be displayed in the list.



3. Select the camera on the list and click right button of the mouse. You can see the pop-up menu below.



4. Select Assign IP. You can see a Assign IP window. Enter the required IP address.



3. Operation

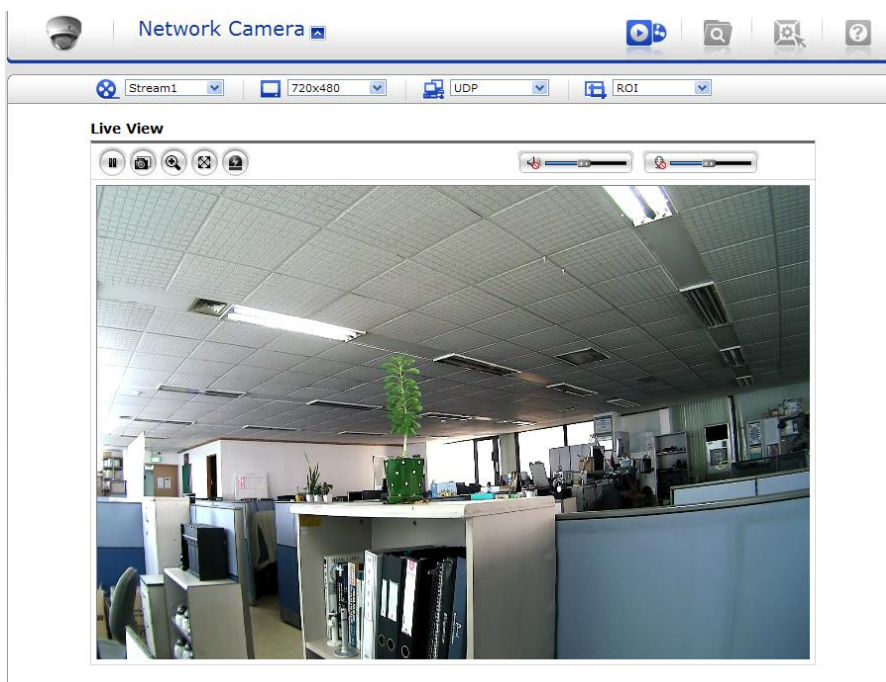
The dome can be used with Windows operating system and browsers. The recommended browsers are Internet Explorer, Safari, Firefox, Opera and Google Chrome with Windows.

3.1 Access from a browser

1. Start a browser (Internet Explorer).
2. Enter the IP address or host name of the dome in the Location/Address field of your browser.
3. The following page will be displayed. Click Live View or Setup to enter web page.



4. Live View



3.2. Access from the internet

Access from the internet once connected, the dome is accessible on your local network (LAN). To access the dome from the Internet you must configure your broadband router to allow incoming data traffic to the 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, please see "3.5.5 System>Network>NAT" of User's Manual.

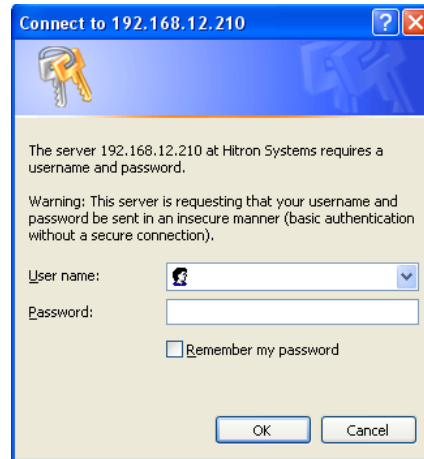
3.3 Set-up menu access

To gain access to the cameras set-up, a user name and password must be entered. As default:

User = admin

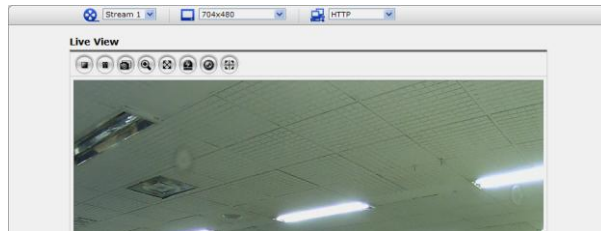
Password = admin

It is recommended that the Administrator password is changed immediately.








3.4 Live View Page

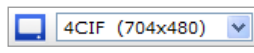
The live view page comes in eight screen modes: 1920x1080, 1280x1024, 1280x720, 720x480(576), 640x480, 352x240(288) and 320x240. Users are allowed to select the most suitable one out of those modes. Please, adjust the mode in accordance with your PC specifications and monitoring purposes.




1) General controls

 Live View Page  Search & Playback Page  Setup Page  Help Page









 VIDEO The video drop-down list allows you to select 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, please see “3.5.1 Basic Configuration > Video & Image” of User’s Manual.

 4CIF (704x480) The resolution drop-down list allows you to select the most suitable one out of video resolutions to be displayed on live view page.

 HTTP The protocol drop-down list allows you to select which combination of protocols and methods to use depends on your viewing requirements, and on the properties of your network.

2) Control toolbar

The live viewer toolbar is available in 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 Pause button pause the video stream being played.
-  The Snapshot button takes a snapshot of the current image. The location where the image is saved can be specified.
-  The digital zoom activates a zoom-in or zoom-out function for video image on the live screen.
-  The Full Screen button causes the video image to fill the entire screen area. No other window 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 an event.
-  The Remote Focus button enables users to adjust focus and zoom remotely via network.
-  The Smart Focus button readjusts focus automatically.

3) Video and Audio Streams

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

The Live View page in the dome provides access to H.264, MPEG-4 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.

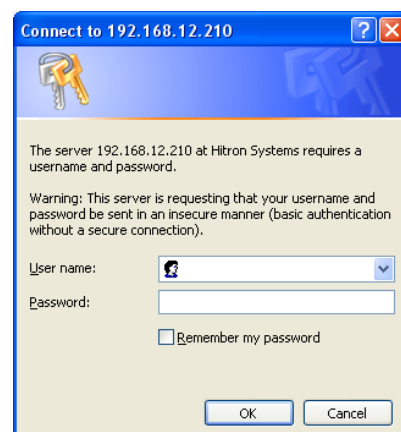
3.5 setup

This section describes how to configure the 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, Audio, Event, and System Configuration.


You can configure the dome 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

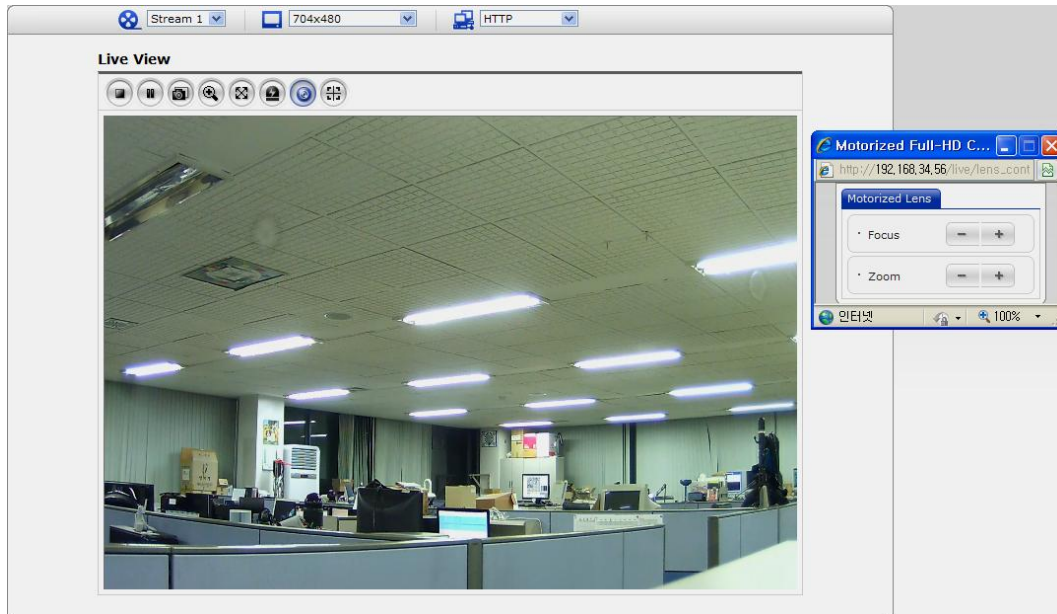
When accessing the dome for the first time, the “Admin Password” dialog appears. Enter your admin name and password, set by the administrator.

Note: If the password is lost, the dome must be reset to the factory default settings.
See “3.6 Resetting to the Factory Default Settings”.




4) Focus and Zoom Control

You can control Zoom and Focus in the live screen. Press the  button on the left top in the live screen to activate the Zoom & Focus control panel.

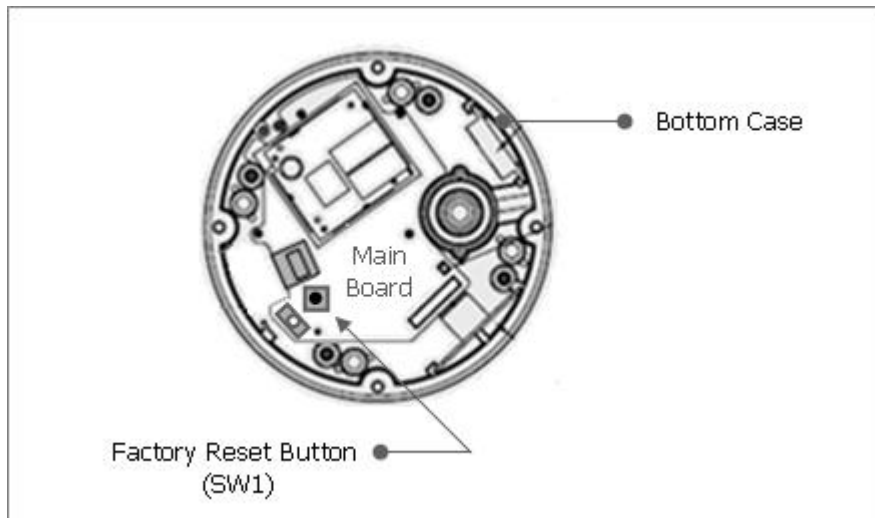


- Adjusting Zoom:
Click “-” button to zoom out and click “+” button to zoom in.
The focus is moved slightly after adjusting zoom; adjust the focus again, as necessary.
- Adjusting Focus:
Click “-” button for far focus and click “+” button to near focus.

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

3.6 Resetting to the factory default settings

To reset the dome to the original factory settings, go to the Setup>System> Maintenance web page (described in “3.5.5 System > Maintenance”) or use the Reset button (SW1) on the board of the dome camera, as described below:



- **Using the Reset Button**

Follow the instructions below to reset the Network Camera to the factory default settings using the Reset button.

1. Power off the Camera by disconnecting the power adapter.
2. Remove the bubble.
3. Press and hold the Reset button (SW1) on the board with your finger while reconnecting the power.
4. Keep the Reset button (SW1) pressed for about 5 seconds.
5. Release the Reset button (SW1).
6. The camera resets to factory defaults and restarts after completing the factory reset.
7. Replace the bubble

CAUTION: When performing a Factory Reset, you will lose any settings you have saved.

3.7 More Information

For more information, please see the dome User's Manual, which is available on the CD included in this package.