Illustra Pro Series 5MP, 3MP & 2MP Mini Dome Series

Quick Start Guide

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Notice of Use

- This manual is designed for administrators and users of the network camera. Please read it carefully before use. All requirements should be followed before using this camera.

- We are not responsible for any technical or typographical errors and reserve the right to change the product and manuals without notice.

- Keep this document for future reference.

- The camera is intended to be supplied from a power source of either 24V AC or PoE, in compliance with LPS requirement. Only connect the camera to this required power system.

- The camera must be installed on a solid mounting surface.

- Keep the camera and other accessories dry.

- Tyco Security Products is not responsible for any damage caused by inappropriate use.

- All the installation should be performed by qualified personnel.

- For outdoor application with a power supply: If the power supply is installed outdoors, it shall be a listed rainproof/rain tight Class 2/LPS power supply or a listed Class2/LPS power supply complying with UL 60950-1 Part 1 and Part 22.

- For wiring method for the power source: The wiring method should comply with Article 725 and 300 in National Electrical Code for Class 2 circuits and Wiring in Ducts.

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Indoor and Outdoor Camera Installation

This installation guide includes information for installing both the indoor and outdoor variants of the Illustra Pro Series Mini Dome camera. Refer to the procedure relevant to your installation.

2. Preparing the Camera for Installation

Enclosure Base Assembly

Camera Assembly

Camera Liner
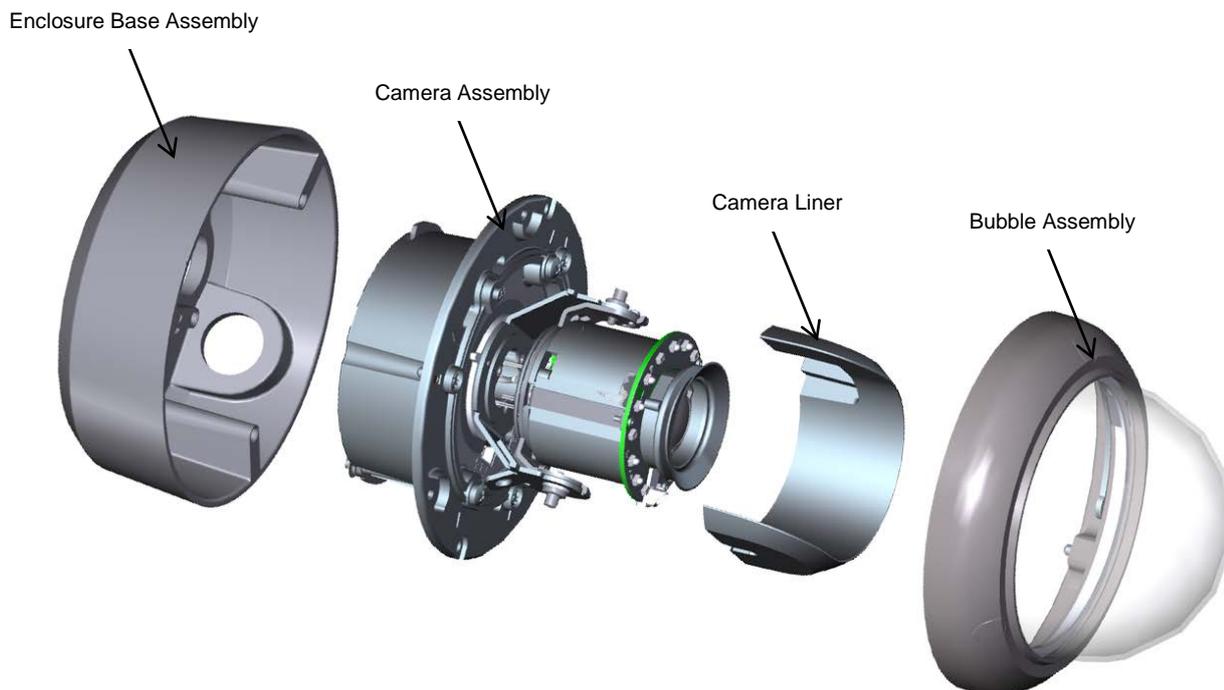
Bubble Assembly

Figure 1

Remove the camera from the box

Take care when removing the camera from the box.

1. Remove the camera from the box.
2. Using the supplied security torx key, loosen (but do not remove) the three cover screws from the bubble assembly.
3. Remove the camera liner.
4. Loosen the three screws marked with a triangle on the camera assembly as seen in Figure 2.
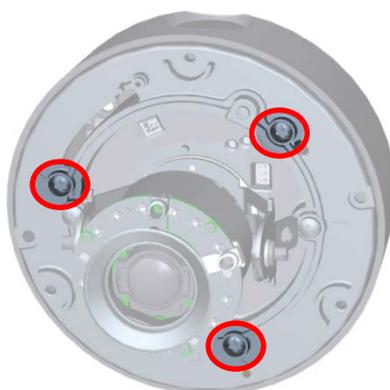
Figure 2

5. Remove the camera body from the Enclosure Base Assembly.

Use the template to prepare the mounting area

Select the type of mounting required from the procedures below.

To flush mount using screws

1. Create a circular opening in the mounting surface with a diameter of 120 mm (4.7") with tolerances of -0/+5 mm (-0"/+0.2").
2. Create three 6 mm (0.2") holes at the T3 template positions. Then insert the screw anchors into the holes.

Note:

- Not suitable for drop ceiling installation without appropriate lanyard.
- Not suitable for installation in ceilings used for environmental air return.

To flush mount using locking arms (Indoor)

1. Create a circular opening in the mounting surface with a diameter of 110 mm (4.3") with tolerances of (-0"/+0.2").

To surface mount

1. According to your needs, create 6mm (0.2") holes at the T1/T2 template positions. Then insert the screw anchors into the holes.
2. If you want to feed wiring from the hole on the top of the enclosure base assembly, create a circular opening (bottom conduit hole) in the mounting surface.
3. Feed the wires through the appropriate hole on the enclosure base assembly.

Note:

Ensure that the plug is secured in the other hole on the enclosure base assembly.

To surface mount using a Junction Box

See, `Mount Using a Junction Box (Outdoor)` or `Mount Using a Junction Box (Indoor)` for information on how to surface mount the camera using a junction box.

3. Connecting the cables and making adjustments
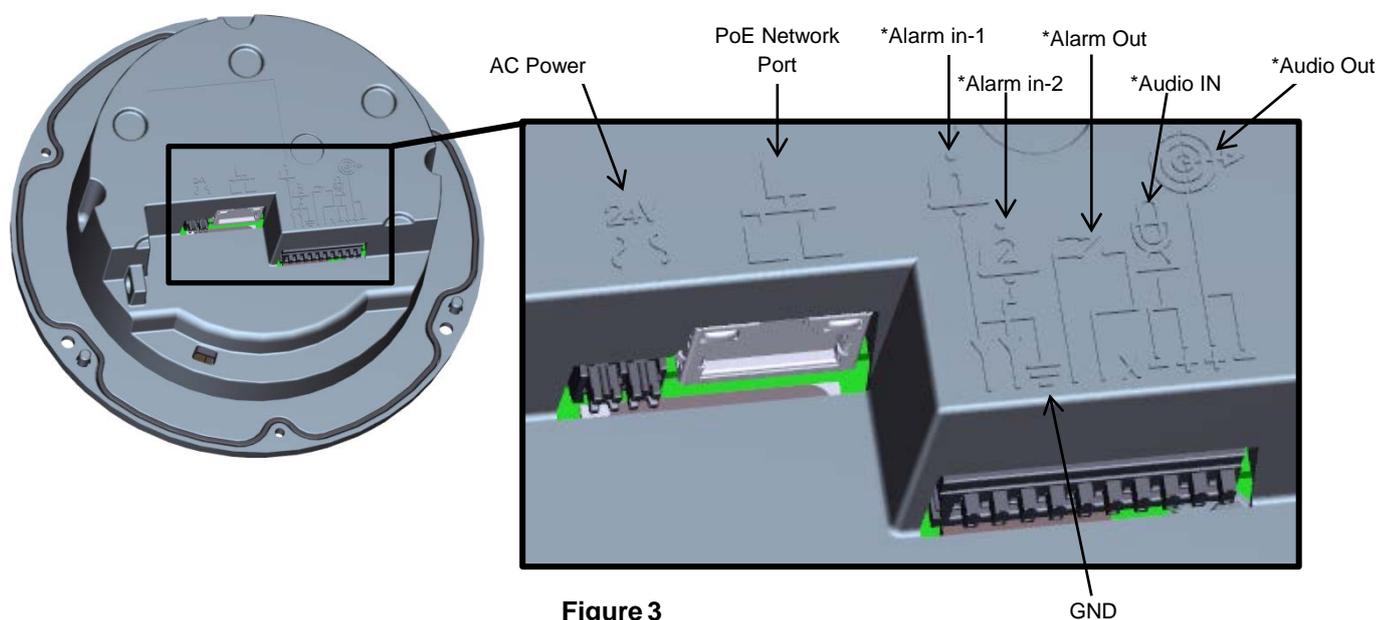
Figure 3

- **AC Power:** Connects to AC 24V power adapter. If you are to use power from Ethernet connection, this connector is not used when the power is provided by PoE.

- **PoE Network Port:** Connects to the LAN port of a standard 10Base/100Base-TX device, e.g., hub, switch or router.

- **Audio In:** Connects to an external microphone.

- **Audio Out:** Connects to speaker.

- **Alarm In 1 & 2:** Connects to devices that trigger alarm signals. Up to two 2 input devices can be connected.

- **Alarm Out:** Connects to device that responds to alarm signals, such as buzzers or lights.

- **GND:** Ground

Note:

To connect the Audio In/Out, Alarm In/Out or GND wires, firmly insert the wire. Once in place, gently pull back the wire to ensure it has been secured by the push in connector.
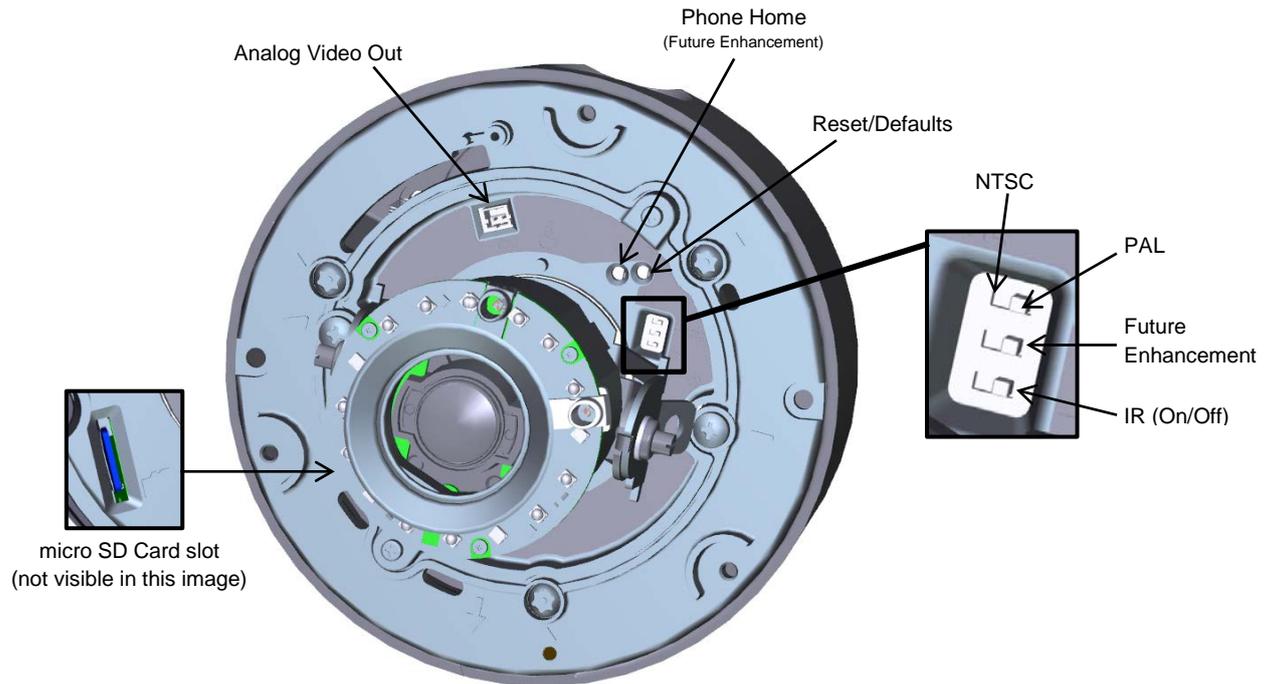
Figure 4

- **DIP Switches:**

    o PAL/NTSC system switch, default is NTSC.

    o Future Enhancement.

    o IR On/Off, default is on.

    Use a suitable small tool to operate the switch.

Note:

After switching the video system mode from NTSC to PAL or vice versa, you have to reboot the camera for the change to take effect.

- **Micro SD Card:** Micro SDHC card slot.

- **Defaults:**

    o **Reboot Request:** Press and hold for between 5 to 14 seconds to restart the camera.

    o **Hardware Factory Default:** Press and hold for more than 14 seconds to restart and restore the camera to factory defaults.

- **Video Out:** Analog video output to the video input of a monitor. The Illustra video cable should be fed through from the rear of the camera assembly. Ensure that the cable is kept taut.

4. Mounting the Camera Enclosure

Select the type of mounting required and refer to the relevant procedure:

- Flush Mount Using Screws (Indoor)
- Surface Mount (Indoor)
- Surface Mount (Outdoor)
- Mount Using a Junction Box (Indoor)
- Mount Using a Junction Box (Outdoor)

Note:

If the camera is being wall mounted, after hardware installation ensure that the mirror and flip option is enabled using the camera web user interface. See `Enable correct Video Orientation for a Wall Mounted Camera` for more information.

To flush mount using screws (Indoor)

1. For a plenum rated ceiling, feed the leads through the plenum cover, then connect the wiring and assemble the plenum cover. Secure with two M3 screws to the camera assembly.
2. Insert the camera assembly into the ceiling; fasten the two TP4 screws to the inserted anchors to secure the camera assembly in place.
3. Aim the camera to the area of interest by tilting or rotating the camera lens assembly and panning the camera base. When rotating the camera base, do not rotate it past the stop point. When the desired orientation is achieved, tighten the two pivot screws to secure the camera lens assembly in place.
4. Fit the camera liner over the camera assembly so that it snaps into place.
5. Use the supplied security torx key to tighten the three cover screws to secure the bubble assembly.
6. Finally, insert the screw hole covers to cover the three screws in the bubble assembly.

To flush mount using locking arms (Indoor)

1. Turn the screws clockwise to extend the locking arms as seen in Figure 5.
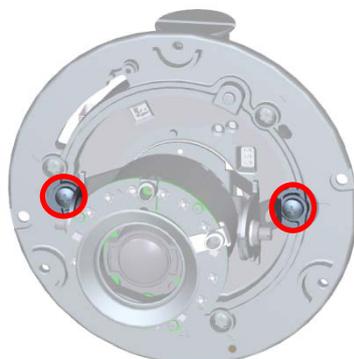
Figure 5

2. Tighten the screws sufficiently to compress the arms to adjust to the mounting surface.

3. Aim the camera to the area of interest by tilting or rotating the camera lens assembly and panning the camera base. When rotating the camera base, do not rotate it past the stop point. When the desired orientation is achieved, tighten the two pivot screws to secure the camera lens assembly in place.

4. Fit the camera liner over the camera assembly so that it snaps into place.

5. Use the supplied security torx key to tighten the three cover screws to secure the bubble assembly.

6. Finally, insert the screw hole covers to cover three screws in the bubble assembly.

To surface mount (Indoor)

1. According to your needs, use the top or side conduit hole on the enclosure base assembly for cable entry and connect the wiring.

Note:

Ensure that the plug is secured in the other conduit hole on the enclosure base assembly.

2. Mount the enclosure base assembly on a surface with two screws.

3. Align the camera assembly with the enclosure base assembly using the green dot as a guide. Insert the camera assembly and then fasten the TP4 screws into the inserted anchors.

4. Aim the camera to the area of interest by tilting or rotating the camera lens assembly and panning the camera base. When rotating the camera base, do not rotate it past the stop point. When the desired orientation is achieved, tighten the two pivot screws to secure the camera lens assembly in place.

5. Fit the camera liner over the camera assembly so that it snaps into place.

6. Use the supplied security torx key to tighten the three cover screws to secure the bubble assembly.

7. Finally, insert the screw hole covers to cover the three screws in the bubble assembly.

To surface mount (Outdoor)

1. Pierce a small hole through the base seal of the enclosure base assembly at the corresponding screw hole to allow the screw to be inserted. Only pierce the holes needed for the installation as this will maintain the waterproof seal.

2. According to your needs, use the top or side conduit hole on the enclosure base assembly for cable entry and connect the wiring.
    If you are going to use the side conduit hole, note the following:

    -   Use a 3/4" NPT (National Pipe Thread) pipe to feed the cables.
    -   Before inserting the pipe to the side conduit hole, use a tape to seal the threads of the pipe.
    -   Wrap at least 12 full loops of seal tape around the threads. Ensure that all the 100mm of tape is wrapped around the threads of the pipe to ensure a tight seal and to prevent leaks.
    -   Ensure all areas of the thread on the pipe are covered with seal tape.
    -   Only those seal tapes complying with UL requirements should be considered (Category Code: JNGR).

    Note:

    Ensure that the plug is secured in the other conduit hole on the enclosure base assembly.

3. Mount the enclosure base assembly on a surface with two screws.

4. Align the camera assembly with the enclosure base assembly using the green dot as a guide. Insert the camera assembly and then fasten the TP4 screws into the inserted anchors.

5. Aim the camera to the area of interest by tilting or rotating the camera lens assembly and panning the camera base. When rotating the camera base, do not rotate it past the stop point. When the desired orientation is achieved, tighten the two pivot screws to secure the camera lens assembly in place.

    Note:

    Motorized lenses allow users to adjust Zoom and Focus functions remotely.
    The Ultra Wide Angle 1.8mm-3mm lens requires manual adjustment. To adjust the 1.8mm-3mm lens

    a) Remove the camera liner

      b) Loosen the Zoom/Focus lever and adjust the lens for the desired FOV and picture sharpness

      c) After you have completed the adjustment, re-tighten the Zoom and Focus levers.

6. Fit the camera liner over the camera base so that it snaps into place.
7. Use the supplied security torx key to tighten the three cover screws to secure the bubble assembly.
8. Finally, insert the screw hole covers to cover the three screws in the bubble assembly.

To mount using a Junction Box (Indoor)

1. Tie your wiring into a junction box and feed the wires through the top conduit hole on the enclosure base assembly.
2. Tighten the screws to secure the enclosure base assembly to the junction box. Then connect the wiring.
3. Align the camera base assembly with the enclosure base assembly, using the green dot as a guide. Insert the camera base assembly and then fasten the TP4 screws into the inserted anchors.
4. Aim the camera to the area of interest by tilting or rotating the camera lens assembly and panning the camera base. When rotating the camera base, do not rotate it past the stop point. When the desired orientation is achieved, tighten the two pivot screws to secure the camera lens assembly in place.
5. Fit the camera liner over the camera assembly so that it snaps into place.
6. Use the supplied security torx key to tighten the three cover screws to secure the bubble assembly.
7. Finally, insert the screw hole covers to cover the three screws in the bubble assembly.

To mount using a Junction Box (Outdoor)

1. Pierce a small hole through the base seal of the enclosure base assembly at the corresponding screw hole to allow the screw to be inserted. Only pierce the holes needed for the installation as this will maintain the waterproof seal.
2. Tie your wiring into a junction box and feed the wires through the top conduit hole on the enclosure base assembly.
3. Tighten the screws to secure the enclosure base assembly to the junction box. Then connect the wiring.

4. Align the camera base assembly with the enclosure base assembly using the green dot as a guide. Insert the camera base assembly and then fasten the TP4 screws into the inserted anchors.

5. Aim the camera to the area of interest by tilting or rotating the camera lens assembly and panning the camera base. When rotating the camera base, do not rotate it past the stop point. When the desired orientation is achieved, tighten the two pivot screws to secure the camera lens assembly in place.

Note:

Motorized lenses allow users to adjust Zoom and Focus functions remotely.
The Ultra Wide Angle 1.8mm-3mm lens requires manual adjustment. To adjust the 1.8mm-3mm lens

d) Remove the camera liner

e) Loosen the Zoom/Focus lever and adjust the lens for the desired FOV and picture sharpness

f) After you have completed the adjustment, re-tighten the Zoom and Focus levers.

6. Fit the camera liner over the camera assembly so that it snaps into place.

7. Use the supplied security torx key to tighten the three cover screws to secure the bubble assembly.

8. Finally, insert the screw hole covers to cover the three screws in the bubble assembly.

To mount using the Pendant Cap (Outdoor)

If mounting the camera using the pendant cap you must ensure that the cable seal connector is used and that the wires are shaped as in Figure 6 below. This will allow any moisture that may gather to run off without entering the enclosure base assembly.

Figure 6

1. Pierce a small hole through the base seal of the enclosure base assembly at the corresponding screw hole to allow the screw to be inserted. Only pierce the holes needed for the installation as this will maintain the waterproof seal.

2. Cut off the top of the required boots.

Uncut boot

Boot has been cut so wire can be inserted

Figure 7

3. Insert the cable seal connector in the conduit hole on the camera base and secure. If required the torx key can be placed horizontally in the space provided on the seal connector and turned to ensure a tight seal.
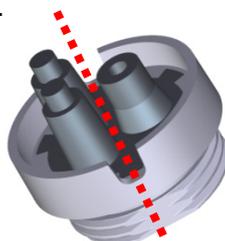
Figure 8

4. Feed the wire/s through the corresponding boot of the cable seal connector on the enclosure base assembly.

5. Shape the wires as seen in Figure 6. This will allow any moisture that may gather to run off.

6. Secure the enclosure base assembly to the pendant cap. Tighten the screws to secure the enclosure base assembly to the pendant cap. Then connect the wiring.

    Note:

    When attaching the enclosure base assembly to the pendant cap take care to avoid nipping the cables.

7. Align the camera base assembly with the enclosure base assembly using the green dot as a guide. Insert the camera base assembly and then fasten the TP4 screws.
8. Aim the camera to the area of interest by tilting or rotating the camera lens assembly and panning the camera base. When rotating the camera base, do not rotate it past the stop point. When the desired orientation is achieved, tighten the two pivot screws to secure the camera lens assembly in place.

    Note:

    Motorized lenses allow users to adjust Zoom and Focus functions remotely.
    The Ultra Wide Angle 1.8mm-3mm lens requires manual adjustment. To adjust the 1.8mm-3mm lens

    g) Remove the camera liner
    h) Loosen the Zoom/Focus lever and adjust the lens for the desired FOV and picture sharpness
    i) After you have completed the adjustment, re-tighten the Zoom and Focus levers.

9. Fit the camera liner over the camera assembly so that it snaps into place.
10. Use the supplied security torx key to tighten the three cover screws to secure the bubble assembly.
11. Finally, insert the screw hole covers to cover the three screws in the bubble assembly.

5. Network Connection

Connect to a PC directly: Directly connect the camera to a PC using a standard Ethernet cable.

Connecting Camera(s) to a Local Area Network (LAN): To add the camera(s) to an existing LAN, connect the camera(s) to the hub or switch on your network. If you want to provide the camera power through the Ethernet connection, a PoE-enabled hub/switch is required.
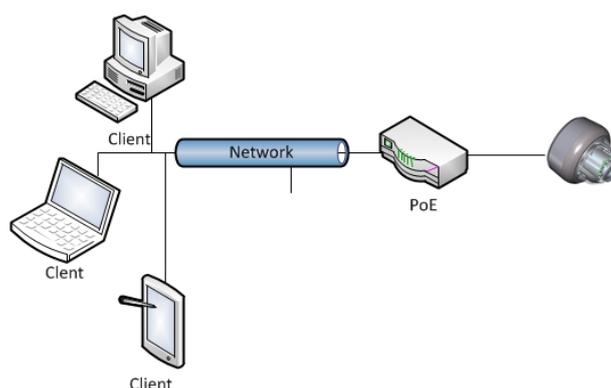

Figure 9

Default Camera Settings

DHCP:	**Enabled**
Static IP Address:	**192.168.1.168**
Default Username:	**admin**
Default Password:	**admin**

Installation using Illustra Connect

Note:

Illustra Connect can only discover devices on the same subnet as its host computer. Therefore, the camera and the computer being used to configure the camera must be on the same subnet.

1. Using a computer which is connected to the same network and subnet as the camera, install the Illustra Connect software that is provided with the camera on the CD. Refer to the Illustra Connect manual for more information.
2. When the installation is complete, run Illustra Connect. It will search the network and display all compliant devices, including the mini dome camera.

3. Select the camera you wish to configure, locating it by its unique MAC address. Illustra Connect allows basic configuration of the camera. Refer to the Illustra Connect manual for more information.

4. Right-click the camera and select **Launch Web GUI Configuration**.

5. Refer to Logging in to the Camera for details on how to log in to the camera and view the live feed.

Installation using the Static IP Address

1. The camera attempts to obtain an IP Address from the DHCP Server. When no DHCP Server is available, the camera is assigned a Static IP address of 192.168.1.168.

2. Open Microsoft Internet Explorer and enter the URL of the camera as 192.168.1.168.

Note:

The computer being used to configure the camera must have an IP address on the same subnet as the camera.

3. The web user interface sign in page is displayed.

4. Refer to Logging in to the Camera for details on how to log in to the camera and view the live feed.

To Log in to the camera

1. When the camera is selected, the sign in page is displayed.

2. Select your preferred language from the drop down menu.

3. Enter the username in the **Username** text box. The default username is admin.

4. Enter the password in the **Password** text box. The default password is admin.

5. Select **Log in**.

6. The live view page is displayed.

To enable correct video orientation for a wall mounted camera

1. Refer to Logging in to the Camera for details on how to log in to the camera and view the live feed.

2. Select **Setup** on the web user interface banner to display the setup menus.

3. Select the **Picture Basic** tab from the Basic Configuration menu.

4. Select the required Orientation setting:

- **Mirror**
- **Flip**

5. The video pane will update to display the new settings.