



Camera Installation

This chapter provides information and instructions for installing the Cisco Video Surveillance 7070 IP Camera.

The IP camera requires a network cable and a connection to a standard 10/100BaseT router or switch. To power the IP camera with Power over Ethernet (PoE), a switch must be 802.3af or 802.3at compliant.

This chapter includes the following topics:

- [Warnings, page 2-1](#)
- [Mounting Positions, page 2-2](#)
- [Installing the IP Camera, page 2-3](#)

Warnings

-  **Warning** Power off the IP camera if smoke or unusual odors are detected.
-  **Warning** Do not place the IP camera on unsteady surfaces.
-  **Warning** Do not put sharp or tiny objects into the IP camera.
-  **Warning** See the data sheet for operating temperatures.
-  **Warning** Do not touch the IP camera during a lightning storm.
-  **Warning** Do not drop the IP camera.
-  **Warning** Installation of the equipment must comply with local and national electrical codes. Statement 1074

**Warning**

This product must be connected to a power-over-ethernet (PoE) IEEE 802.3af compliant power source or an IEC60950 compliant limited power source. Statement 353

**Warning**

Due to its high performance IR lights, the surface temperature of the dome cover can reach 158°F (70°C) after operating in night mode for a period of time. You should wait for the surface to cool down if you need to re-install the camera.

**Note**

This equipment is only to be connected to PoE networks without routing to outside plants.

For PoE input connection, use only UL listed I.T.E. with PoE output.

Mounting Positions

The following figures show the mounting positions for the IP camera:

- [Figure 2-1](#)—Camera base plate mounting positions
- [Figure 2-2](#)—Camera mounting plate mounting positions

Figure 2-1 Camera Base Plate Mounting Positions

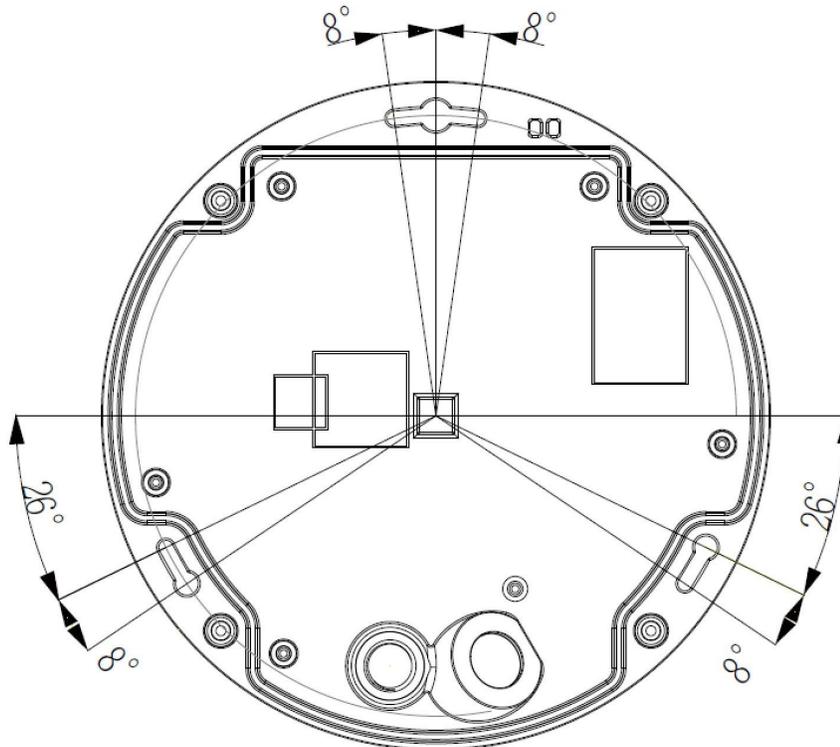
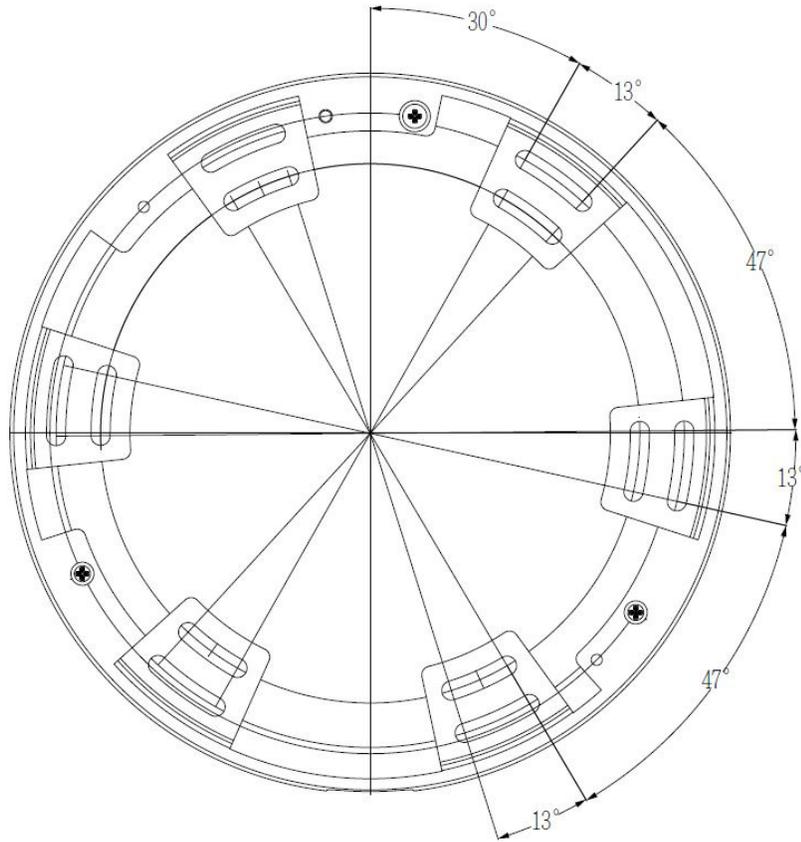


Figure 2-2 Camera Mounting Plate Mounting Positions

Installing the IP Camera

This section describes how to install the IP camera on a ceiling, wall, or table.

Before you begin

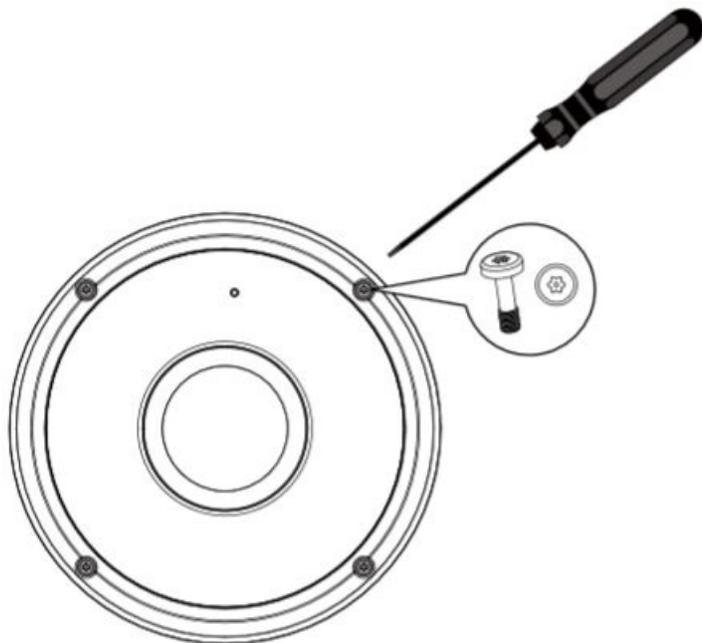
(Optional) Insert a MicroSD card, if needed. See [Figure 1-1 on page 1-2](#).

To install the IP camera, follow these steps:

Procedure

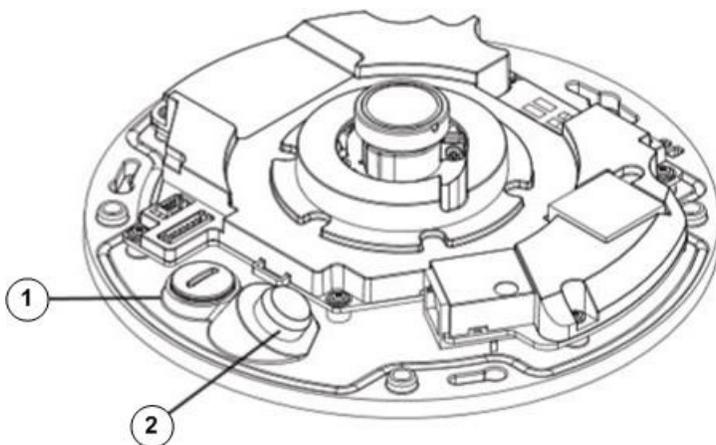
-
- Step 1** Use the provided T10 screwdriver for tamper-proof screws to detach the dome cover from the camera base as shown in [Figure 2-3](#).

Figure 2-3 Detaching the Dome Cover from the IP Camera



- Step 2** Take these actions:
- a. Remove the rubber seal for the Ethernet cable as shown in [Figure 2-4](#).
 - b. (Optional) If you will use DC power or an external microphone or speaker, remove the rubber stopper for the power and IO cable as shown in [Figure 2-4](#).

Figure 2-4 Removing Stopper and Seal Plug for Cables



1	Rubber stopper for power and IO cable
2	Rubber seal for RJ45 Ethernet cable

Step 3 If you want to feed cables through the bottom of the IP camera, take the following actions to mount the camera to a ceiling, wall, or table without a mounting plate.

If you want to feed cables through the side of the IP camera, go to [Step 4](#).

- a. Attach the provided alignment sticker for the camera base to location on the ceiling, wall, or table at which you want to mount the camera.

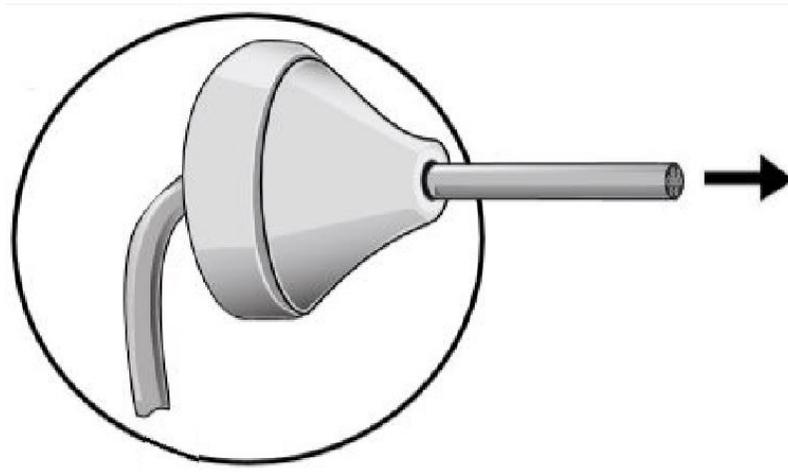
If you are mounting the camera on a wall, make sure that the alignment sticker is oriented so that the “Alignment Sticker” text is right side up and horizontally level.

- b. Using the three drill hole marks on the alignment sticker, drill three pilot holes into the ceiling, wall, or table, then put the provided wall plugs into the holes.

Use a hammer to drive the anchors into the holes.

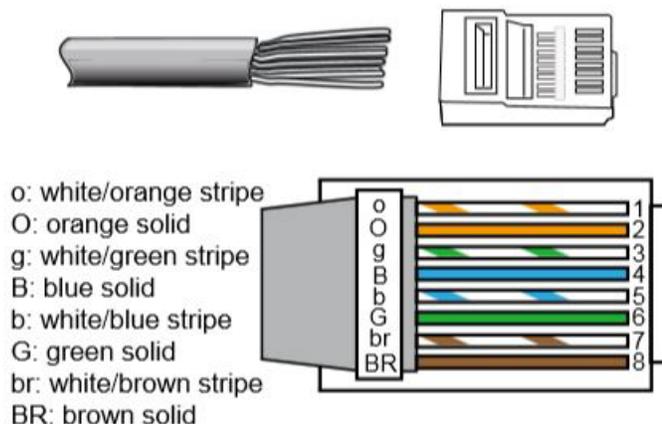
- c. Poke a hole in the provided rubber seal plug and feed the RJ45 24AWG Ethernet cable through the hole, as shown in [Figure 2-5](#).

Figure 2-5 *Inserting the Ethernet Cable through the Rubber Seal Plug*

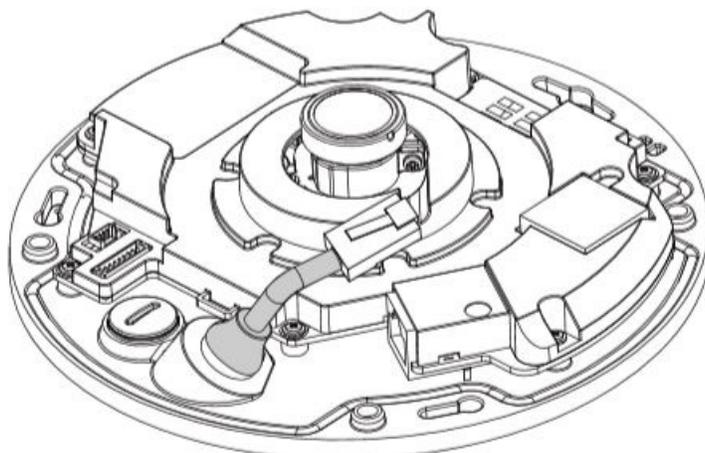


- d. Strip 1/2 inch (12.7 mm) of the sheath from the end of the Ethernet cable that will attach to the IP camera and use an RJ45 crimping tool to attach an RJ45 connector to the cable

The cable wires must be aligned in the connector as shown in [Figure 2-6](#).

Figure 2-6 Attaching an RJ45 Connector

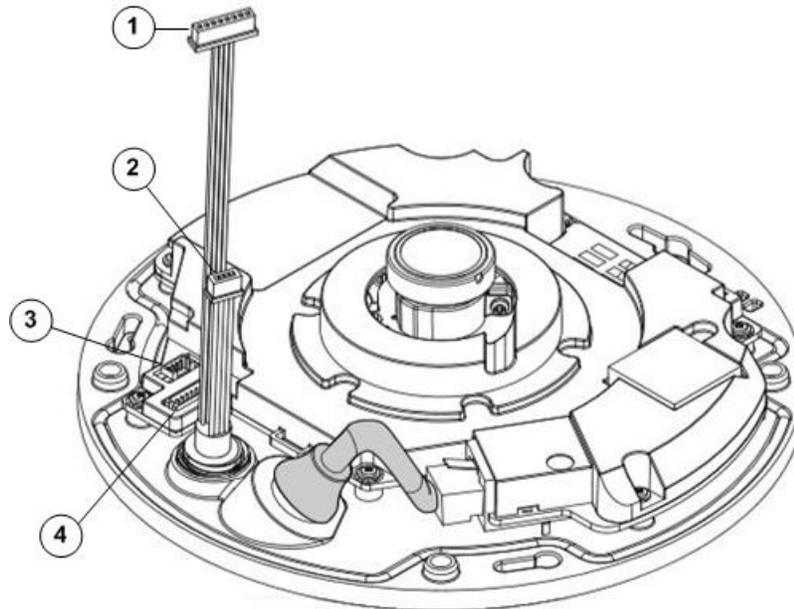
- e. Feed the Ethernet cable through its hole at the bottom of the IP camera base and attach the rubber seal plug from the bottom of the camera for water proofing as shown in [Figure 2-7](#).

Figure 2-7 Feeding the Ethernet Cable through the IP Camera

- f. Connect the Ethernet cable to the 10/100BaseT RJ45 socket on the IP camera (see [Figure 1-1 on page 1-2](#)).
- g. If you will power the IP camera with DC power or use an external speaker or microphone:
- Attach the provided rubber washer to the provided power and IO cable, feed the cable through its hole in the bottom of the IP camera base, and screw the plastic base of the cable into the camera for water proofing, as shown in [Figure 2-8](#).
 Hand tighten the cable base.
 - To power the IP camera with DC power, connect the DC power connector to the DC power J6 socket on the IP camera, as shown in [Figure 2-8](#).
 - To use an external speaker or microphone, connect the IO connector to the IO J7 socket on the IP camera, as shown in [Figure 2-8](#).

When you connect a DC power cable, external speaker, or external microphone to the IP camera, connect the power to the black jack, connect the speaker to the green jack, and connect the microphone to the pink jack on the power and IO cable.

Figure 2-8 Connecting the Power and IO Cable



1	IO connector
2	DC power connector
3	DC power J6 socket
4	IO J7 socket

- h. Attach the camera base to the ceiling, wall, or table by using the three provided M3 x 25 screws.
- i. Replace the desiccant bag that is in the camera with the desiccant bag that is provided with the camera accessories.
- j. Reattach the dome cover to the camera base by using the provided screwdriver for tamper-proof screws to fasten three screws tamper-proof screws.

Skip to [Step 5](#).

Step 4 If you want to feed cables through the side of the IP camera, take the following actions to mount the camera to a ceiling, wall, or table with a mounting plate:

- a. Attach the provided alignment sticker for the mounting plate to location on the ceiling, wall, or table at which you want to mount the camera.

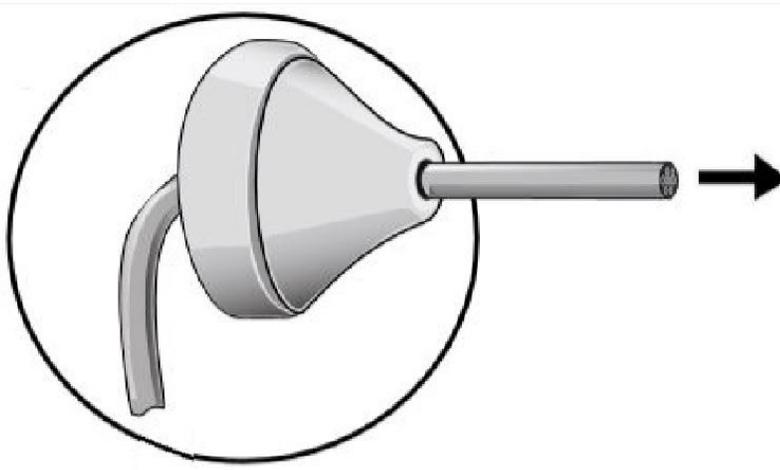
If you are mounting the camera on a wall, make sure that the alignment sticker is oriented so that the “Alignment Sticker” text is right side up and horizontally level.

- b. Using the three drill hole marks on the alignment sticker, drill three pilot holes into the ceiling, wall, or table, then put the included screw anchors into the holes.

Use a hammer to drive the anchors into the holes, if needed.

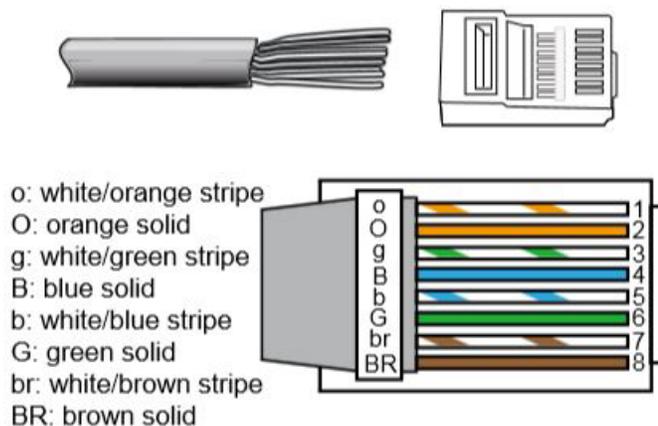
- c. Feed the Ethernet cable and, if needed, the provided power and IO cable through the side of the mounting plate.
- d. Attach the mounting plate to the ceiling, wall, or table by using the three provided M3 x 25 screws.
- e. Poke a hole in the provided rubber seal plug and feed the RJ45 24AWG Ethernet cable through the hole, as shown in [Figure 2-9](#).

Figure 2-9 Inserting the Ethernet Cable through the Rubber Seal Plug

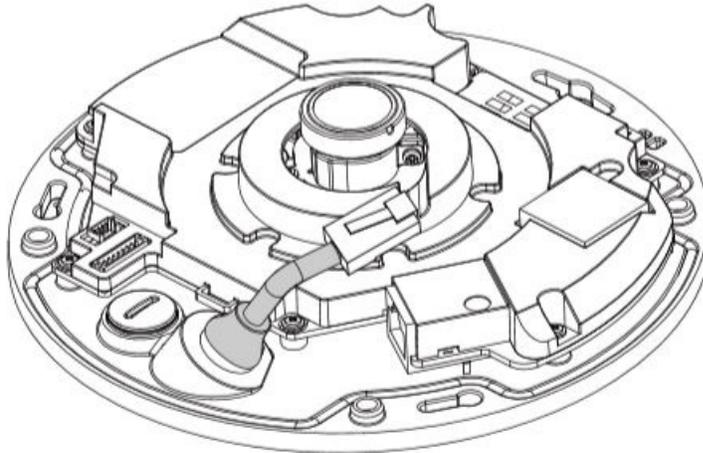


- f. Strip 1/2 inch (12.7 mm) of the sheath from the end of the Ethernet cable that will attach to the IP camera and use an RJ45 crimping tool to attach an RJ45 connector to the cable. The cable wires must be aligned in the connector as shown in [Figure 2-10](#).

Figure 2-10 Attaching an RJ45 Connector



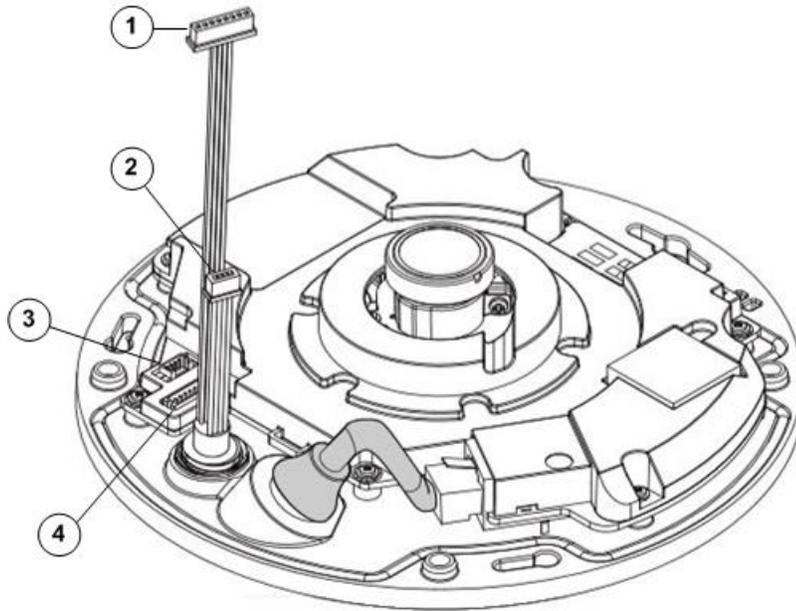
- g. Feed the Ethernet cable through its hole at the bottom of the IP camera base and attach the rubber seal plug from the bottom of the camera for water proofing as shown in [Figure 2-11](#).

Figure 2-11 Feeding the Ethernet Cable through the IP Camera

- h. Connect the Ethernet cable to the 10/100BaseT RJ45 socket on the IP camera (see [Figure 1-1 on page 1-2](#)).
- i. If you will power the IP camera with DC power or use an external speaker or microphone:
 - Attach the provided rubber washer to the provided power and IO cable, feed the cable through its hole in the bottom of the IP camera base, and screw the plastic base of the cable into the camera for water proofing.
Hand tighten the cable base.
 - To power the IP camera with DC power, connect the DC power connector to the DC power J6 socket on the IP camera, as shown in [Figure 2-12](#).
 - To use an external speaker or microphone, connect the IO connector to the IO J7 socket on the IP camera, as shown in [Figure 2-12](#).

When you connect a DC power cable, external speaker, or external microphone to the IP camera, connect the power to the black jack, connect the speaker to the green jack, and connect the microphone to the pink jack on the power and IO cable.

Figure 2-12 Connecting the Power and IO Cable



1	IO connector
2	DC power connector
3	DC power J6 socket
4	IO J7 socket

- j. Attach the camera base to the mounting plate and turn counter-clockwise, then secure the mounting plate by using the provided screws.
 - k. Replace the desiccant bag that is in the camera with the desiccant bag that is provided with the camera accessories.
 - l. Secure the dome cover to the camera base by using the provided screwdriver for tamper-proof screws to fasten three screws tamper-proof screws.
- Step 5** Use one of the following methods to connect the IP camera to power.
- To connect the IP camera if you are powering it with PoE through a PoE-enabled switch, connect the IP camera to the switch.
 - To connect the IP camera if you are powering it with PoE through a non-PoE switch, connect the IP camera to the switch through a PoE power injector as shown in the following figure.

What to do next

- After you install the IP camera, follow the instructions in [Chapter 3, “Performing the Initial Setup of the IP Camera”](#) to access the IP camera through your network.
- After completing the initial setup, access the Camera Video and Control window from the IP camera web-based interface, choose **Camera Settings > Advanced Settings**, and from the Mount Type drop-down list, choose the surface type on which you installed the IP camera. For more information, see the [“Viewing Live Video”](#) section on page 4-4.