



Sarix Enhanced 4 Dome Cameras Installation Manual



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Important Safety Information

This Installation Manual provides installation and operation information and precautions for the use of this device. Incorrect installation could cause an unexpected fault. Before installing this equipment read this manual carefully. Please provide this manual to the owner of the equipment for future reference.



WARNING

The Warning symbol indicates the presence of dangerous voltage within and outside the product enclosure that may result in a risk of electric shock, serious injury or death to persons if proper precautions are not followed.



CAUTION

The Caution symbol alerts the user to the presence of hazards that may cause minor or moderate injury to persons, damage to property or damage to the product itself if proper precautions are not followed.



WARNING

Failure to observe the following instructions may result in severe injury or death.

- Installation must be performed by qualified personnel only, and must conform to all local codes.
- Any external power supply connected to this product may only be connected to another product of the same model series. External power connections must be properly insulated.
- ESD to the camera when it is operating could cause a temporary loss of video. When servicing the camera, follow the appropriate ESD mitigation procedures. The operator should remove any static by grounding themselves before servicing the camera.
- Do not connect directly to mains power for any reason.



CAUTION

Failure to observe the following instructions may result in injury to persons or damage to the device.

- Do not expose the camera directly to high levels of x-ray, laser, or UV radiation. Direct exposure may cause permanent damage to the image sensor.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other sources of heat.

- Do not subject the device cables to excessive stress, heavy loads or pinching.
- Do not open or disassemble the device. There are no user serviceable parts.
- Refer all device servicing to qualified personnel. Servicing may be required when the device has been damaged (such as from a liquid spill or fallen objects), has been exposed to rain or moisture, does not operate normally, or has been dropped.
- Do not use strong or abrasive detergents when cleaning the device body.
- Use only accessories recommended by Pelco.



IMPORTANT

This product is intended to be supplied by a UL Listed Power Unit marked "Class 2" or "LPS" or "Limited Power Source" with output rated 12-24 VDC, 25 W max. or Power over Ethernet (PoE), 25 W max.

Regulatory Notices

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.

This device complies with EN 60529 IP66 and IP67 rating.

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 try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications made to this equipment not expressly approved by Pelco Corporation or parties authorized by Pelco Corporation could void the user's authority to operate this equipment.

UK Product Security and Telecommunications Infrastructure (PSTI) Act: Pelco cameras comply with the PSTI requirements. For more information, see the published [PSTI Statement of Compliance](#).

The use of EMC compliant support and auxiliary equipment with this device is required in order to fully comply with the EMC regulatory standards.

To meet the requirements of the EN 50121-4 Railway Applications Standard, use an external power supply or POE injector that is also compliant with EN 50121-4. Please contact Pelco for assistance regarding supporting equipment.

To meet the requirements of the EN 50130-4 Alarm Systems Applications Standard, use an external uninterruptible power supply (UPS).

This equipment contains a coin cell battery. Risk of fire, explosion, and burns. Do not disassemble, crush, heat above 100°C (212°F), or incinerate.

SRXE4 and SRXE4P Indoor Dome Cameras comply with an EN 60529 IP54 rating. SRXE4 and SRXE4P Outdoor Dome Cameras comply with EN 60529 IP66, IP67, IP68 and IPX9K ratings.

This Class B digital apparatus complies with Canadian ICES-003 (B)/NMB-003(B).

For Korea

이 기기는 가정용(B급) 전자파적합기기로서 주로 가정에서 사용하는 것을 목적으로 하며, 모든 지역에서 사용할 수 있습니다.

Disposal and Recycling Information

When this product has reached the end of its useful life, please dispose of it according to your local environmental laws and guidelines.

European Union:



This symbol means that according to local laws and regulations your product should be disposed of separately from household waste. When this product reaches its end of life, take it to a collection point designated by local authorities. Some collection points accept products for free. The separate collection and recycling of your product at the time of disposal will help conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment.

For Taiwan

For Taiwan

網路攝影機

型號: Model: PCDOSNAE, PCDOSRAE, PCDONNAE, PCDONRAE, PCDOSRXE

Class A Warning: 警告: 為避免電磁干擾, 本產品不應安裝或使用於住宅環境

Recommended to use MicroSemi model PD-9001GR/AT/AC or similar rated PoE model.

報驗義務人 (Contact for inspection)
摩托羅拉系統股份有限公司 (Motorola Taipei)
台北市中山區民生東路3段 2號 5樓之1

重要安全守則

	警告 不遵守以下說明可能會導致嚴重傷害或死亡
	• 安裝必須由合格人員執行，並且必須符合所有當地法規。 • 本產品連接的任何外部電源僅可連接到同一型號系列的其他 Pelco 產品。外部電源連接必須正確絕緣。 • 請勿因任何原因直接連接到主電源
	警告 不遵守以下說明可能會導致嚴重傷害或死亡
	• 請勿將相機直接暴露在高強度的 X 射線、雷射或紫外線輻射下。直接暴露可能會對影像感測器造成永久性損壞。

設備名稱：網路攝影機		型號（型式）：PCDOSNAE, PCDOSRAE, PCDONNAE, PCDONRAE, PCDOSRXE				
Equipment name: Network Camera		Type designation (Type)				
單元 Unit	限用物質及其化學符號 Restricted substances and its chemical symbols					
	鉛Lead (Pb)	汞Mercury (Hg)	鎘Cadmium (Cd)	六價鉻 Hexavalent chromium (Cr ⁺⁶)	多溴聯苯 Polybrominated biphenyls (PBB)	多溴二苯醚 Polybrominated diphenyl ethers (PBDE)
印刷電路板及電子組件	○	○	○	○	○	○
金屬零件	○	○	○	○	○	○
電纜及電纜組件	○	○	○	○	○	○
塑料和聚合物零件	○	○	○	○	○	○
光學與光學元件	○	○	○	○	○	○
備考1. “超出0.1 wt %” 及 “超出0.01 wt %” 係指限用物質之百分比含量超出百分比含量基準值 Note 1: “Exceeding 0.1 wt %” and “exceeding 0.01 wt %” indicate that the percentage content of the restricted substance exceeds the reference percentage value of presence condition.						
備考2. “○” 係指該項限用物質之百分比含量未超出百分比含量基準值。 Note 2: “○” indicates that the percentage content of the restricted substance does not exceed the percentage of reference value of						
備考3. “—” 係指該項限用物質為排除項目。 Note 3: The “—” indicates that the restricted substance corresponds to the exemption.						

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Sarix Enhanced 4 Dome Cameras Installation Manual

The Sarix Enhanced 4 Dome Cameras Installation Manual provides instructions for installing Sarix Enhanced 4 Dome cameras. This Installation Manual also covers how to connect external devices and how to add cameras to the network.

Camera Models:

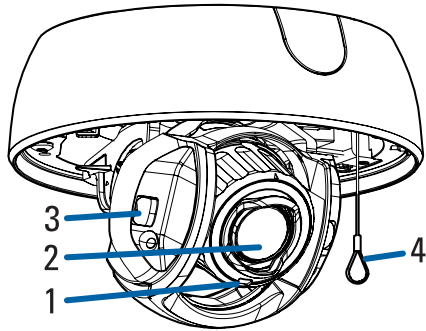
SRXE4-2V12-EMD-1	SRXE4-4V9-EMD-1	SRXE4-6V9-EMD-1	SRXE4-8V9-EMD-1
SRXE4-2V29-EMD-1	SRXE4-4V29-EMD-1	SRXE4-6V29-EMD-1	SRXE4-8V29-EMD-1
SRXE4-2V12-EMD-IR1	SRXE4-4V9-EMD-IR1	SRXE4-6V9-EMD-IR1	SRXE4-8V9-EMD-IR1
SRXE4-2V29-EMD-IR1	SRXE4-4V29-EMD-IR1	SRXE4-6V29-EMD-IR1	SRXE4-8V29-EMD-IR1
	SRXE4P-4V9-EMD-IR1		SRXE4P-8V9-EMD-IR1
	SRXE4P-4V29-EMD-IR1		SRXE4P-8V29-EMD-IR1

Sarix Enhanced 4 Dome Camera Overview

There are different types of Sarix Enhanced 4 Dome cameras based on the installation method. Refer to the following overview sections to see the different Sarix Enhanced 4 Dome camera components:

Sarix Enhanced 4 Dome Module Overview

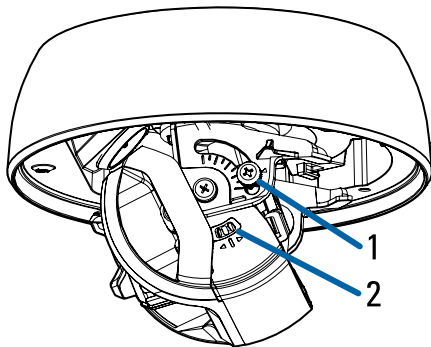
Lens View



1. **Azimuth control** — Provides control of the image angle.
2. **Camera lens** — Lens that captures the video image.
3. **IR LEDs** — IR illumination provides scene illumination in the IR spectrum.
4. **Lanyard** — Connects to a lanyard hook on the cover.

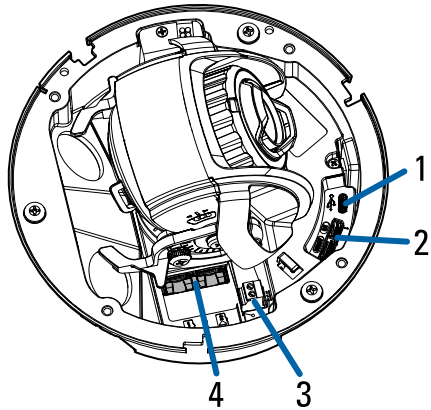
IR View

For IR Dome camera models only.



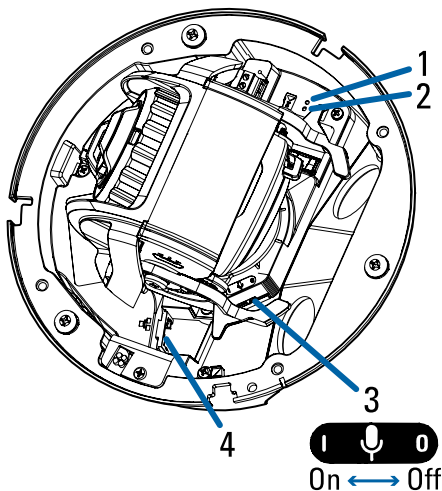
1. **Tilt lock thumb screws** — Provides a locking mechanism for the image tilt adjustment.
2. **IR positioning indicator** — Helps when aiming the IR LEDs. For more information, see [Aiming Sarix Enhanced 4 Dome Cameras on page 65](#).

SD, Power, I/O and USB View



1. **USB-C** — Accepts a USB type-C to USB adapter. Only required when using the [Using the USB Wi-Fi Adapter \(Optional\)](#) on page 58.
2. **I/O connector block** — Provides connections to external input/output devices.
3. **Power connector block** — Accepts a terminal block with a DC power connection. DC input can be either polarity. Only required when Power over Ethernet is not available.
4. **microSD card slot** — Accepts a microSD card for onboard storage. For more information, see [Configuring Onboard Storage \(Optional\)](#) on page 56.

LED, Ethernet and Audio Switch View



1. **Link LED indicator** — Amber LED indicates if there is an active connection in the Ethernet port.
2. **Connection status LED indicator** — Green LED provides information about device operation. For more information, see [Connection Status LED Indicators](#) on page 61.
3. **Microphone switch** — Switch to enable or disable the built-in microphone. For more information, see [Enabling the Microphone \(Optional\)](#) on page 66.

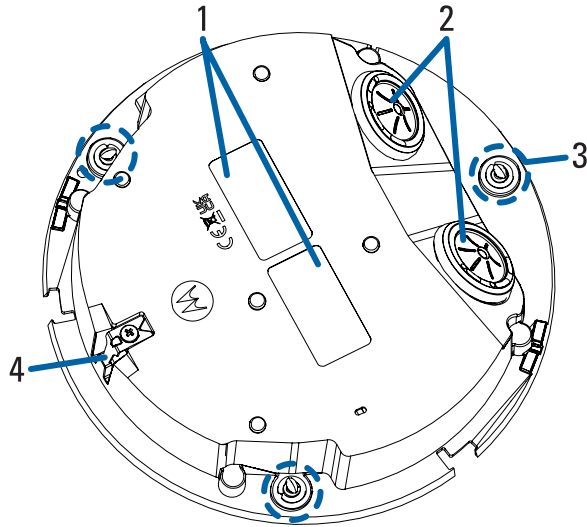


NOTE

Microphone is not available on SRXE4P camera models.

4. **Ethernet port** — Accepts an Ethernet connection to a network. Server communication and image data transmission occurs over this connection. Also receives power when it is connected to a network that provides Power over Ethernet.

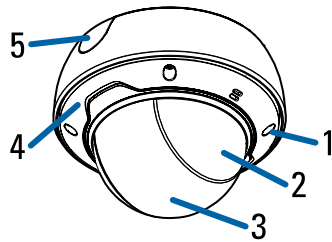
Bottom View



1. **Serial number tags** — Device information, product serial number and part number label.
2. **Cable entry hole** — An entry hole for the cables required for camera operation.
3. **Mounting setscrews** — Setscrews to attach the camera to the mounting adapter.
4. **Lanyard hook** — Hooks to attach the lanyard from the mounting adapter.

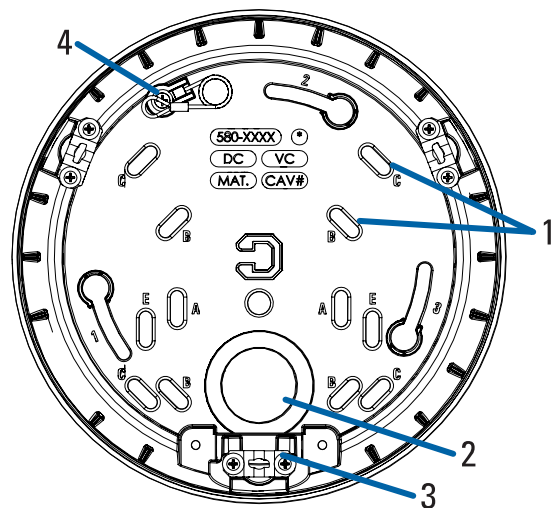
Sarix Enhanced 4 Dome Surface Mount Overview

Complete View



1. **Tamper resistant screws** — Star-shaped captive screws to fix the dome cover to the base.
2. **IR cover** — Shaded area on the dome bubble that covers the IR sensors. Present on IR camera models only.
3. **Dome cover** — Vandal resistant dome cover.
4. **Dome rim** — Vandal resistant dome rim.
5. **Sidewall plug** — Covers the side cable entry hole.

Adapter View

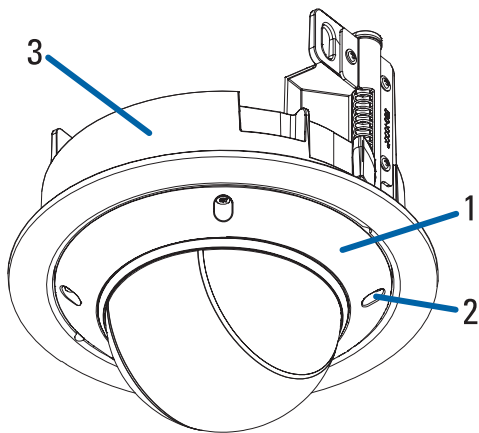


1. **Electrical box mounting holes** — Holes for mounting the wall plate to an electrical box. The wall plate supports five configurations:
 - A. UK standard single gang box
 - B. Octagon gang box
 - C. 4" gang box
 - D. Pendant mount adapter
 - E. US standard single gang box

2. **Rear cable entry hole** — An entry hole for the cables required for camera operation.
3. **Side cable entry hole** — A side entry hole for the cables required for camera operation.
4. **Lanyard** — Attaches the camera to the module.

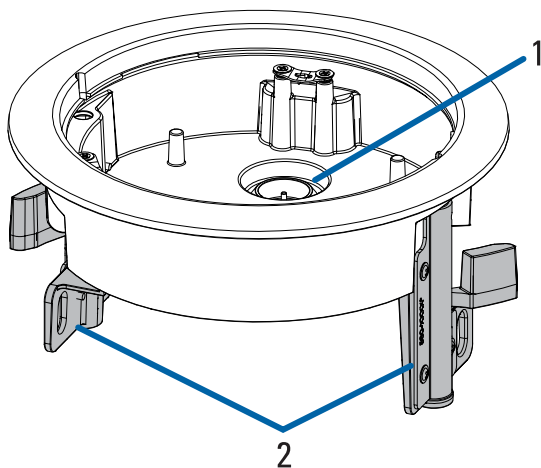
Sarix Enhanced 4 Dome In-Ceiling Mount Overview

Complete View



1. **Dome cover** — Vandal resistant dome cover.
2. **Tamper resistant screws** — Star-shaped captive screws to fix the dome cover to the base.
3. **In-ceiling mount adapter** — Used to mount the camera to a ceiling.

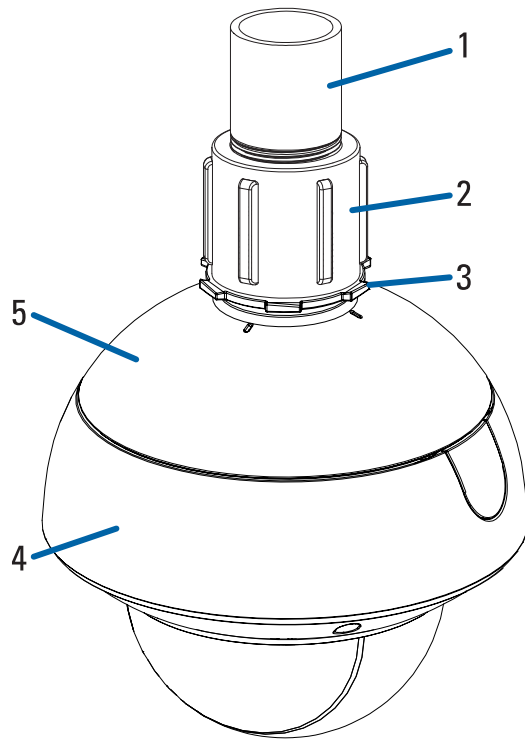
Adapter View



1. **Cable Entry Hole** — An entry hole for the cables required for camera operation.
2. **Clamps** — Spring loaded locking mechanisms that secure the camera to the mounting surface.

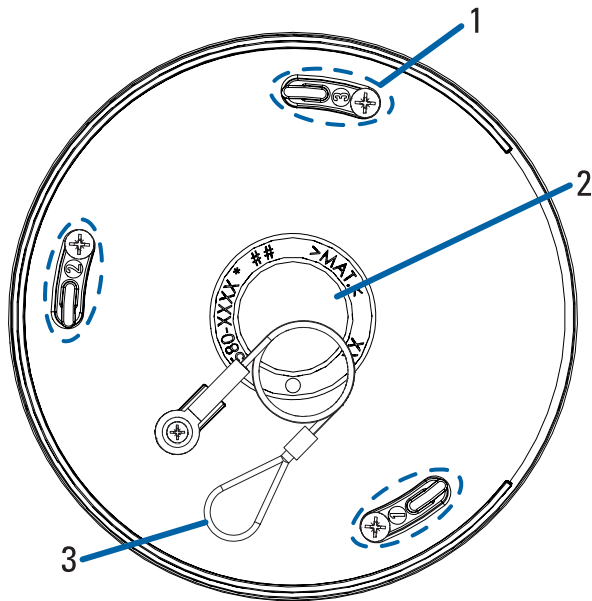
Sarix Enhanced 4 Dome Pendant Mount Overview

Complete View



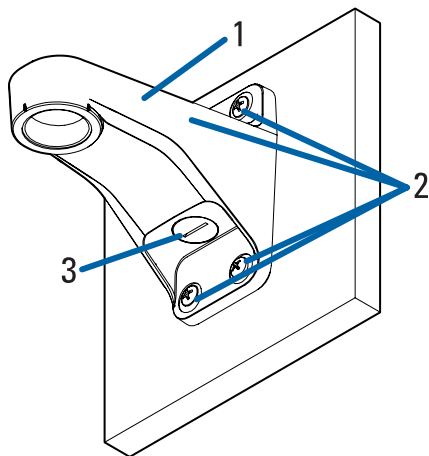
1. **NPT pipe** — NPT pipe used for a pendant mount with the NPT adapter.
2. **1-1/2" NPT-female to NPT-female adapter** — An adapter for attaching the pendant NPT mount to an NPT pipe.
3. **Lock nut** — Lock nut for securing the pendant NPT mount on the NPT-female to NPT-female adapter.
4. **Surface mount adapter and camera** — Surface camera module mounted to the surface mount adapter.
5. **Pendant NPT mount** — Dome camera mount for NPT pipes or wall arm.

Adapter View



1. **Camera mounting screws** — Screws for securing the camera to the pendant mount adapter.
2. **Cable entry hole** — An entry hole for the cables required for camera operation.
3. **Lanyard** — Connects to a lanyard hook on the surface mount adapter.

Wall Arm View



1. **Pendant wall mount** — Used with the NPT adapter to mount the dome camera to a wall in pendant installations.
2. **Pendant wall mount screws** — Screws for securing the pendant wall mount to the mounting bracket.
3. **NPT pipe entry hole** — A 1-1/2" NPT threaded hole for NPT pipe conduits.

Preparing Sarix Enhanced 4 Dome Cameras for Installation

Pre-Deployment In-Box Configuration (Optional)

The camera comes equipped with an RJ45 connector that is accessible from the outside of the box for users that want to configure camera settings before installing the camera. The RJ45 connector is accessible through the small flap on the side of the camera box for easy configuration before unpacking the camera.



NOTE

We recommend that you do not exceed 3 hours of leaving your camera connected during inbox configuration with ambient temperatures between 20 °C – 25 °C (68 °F – 77 °F).

1. Locate and open the flap on the side of the camera packaging. Look for the *Config* label:



2. Connect a network cable to the RJ45 plug on the configuration cable. The network cable must provide PoE power, IEEE 802.3af Class 3, to power the camera during configuration.
3. Connect to the camera using the Camera Configuration Tool, or the camera's web browser interface to configure the camera's settings.
4. Once you have finished making configuration changes, unplug the network cable.



CAUTION

Be careful when handling the camera after configuring it inside the packaging. The camera may be hot when handling it or removing from the packaging immediately after in-box configuration.

Removing the Sarix Enhanced 4 Dome Cameras Cover

Remove the dome cover by loosening the screws that fix the cover to the base. Use a T20 Pin-In star-shaped driver to loosen the screws.



NOTE

Be careful not to scratch or touch the dome bubble. The resulting marks or fingerprints may affect the overall image quality. Keep the protective covers on the outside of the dome bubble until the installation is complete.

Mounting and Aiming Video Analytics Cameras

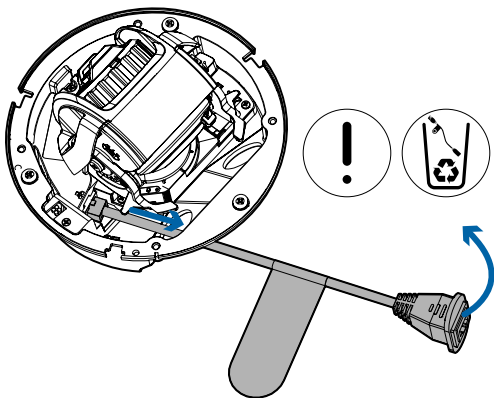
Follow these guidelines when mounting and aiming Pelco cameras for best results:

- **Height** — Above 2.74 meters (9 feet).
- **Tilt** — Downward tilt of 45 degrees maximum.
- **Level** — Keep the camera image level with the horizon.
- **Stability** — Securely mount to a stable surface to prevent movement.

For more information, see *Designing a Site with Pelco Smart Analytics* available at pelco.com/docs.

Removing the Configuration Cable

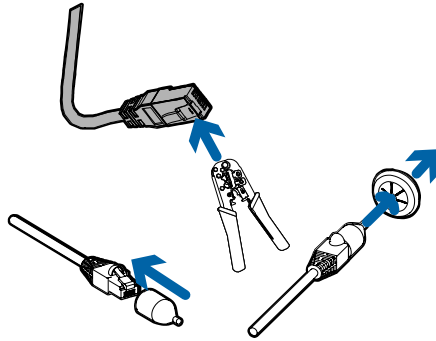
Remove the configuration cable by pushing down on the connector's tab and pulling it out of the port.



Inserting Cables through the Sealing Grommet

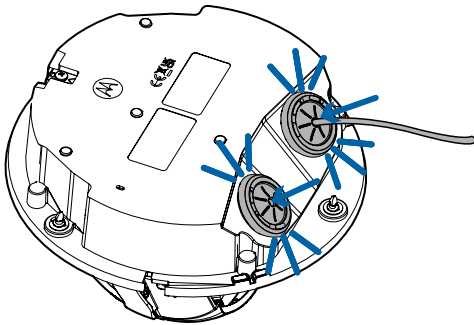
Unless specified otherwise, you must pull the required cables through the sealing grommet included with the camera when using a cable entry hole.

1. Locate the included cable entry grommet.
2. Pull the tab on the grommet to open a hole for the Ethernet cable.
3. Push an Ethernet cable through the grommet by one of the following methods:
 - a. If the Ethernet cable is uncrimped, push the cable through the grommet.
 - b. If the Ethernet cable is already crimped, place the grommet piercing cap on the Ethernet connector then push the cable through the grommet.



Ensure that the orientation of the cable and grommet matches the one shown in the image.

4. Push any other required cables through the grommet.
5. Install the grommet and cables into the base of the camera.



NOTE

If you will pull multiple cables through the sealing grommet, apply silicone sealant to seal any gaps in the grommet.

Installing Sarix Enhanced 4 Dome Cameras

Installing Sarix Enhanced 4 Dome Surface Mount Cameras

Required Tools for Sarix Enhanced 4 Dome Surface Mount Installation

The following tools are required to complete the installation but are not included in the package:

- Small slotted screwdriver with 5/64" or 2 mm blade width — for connecting power when not using Power over Ethernet.
- No. 2 Phillips screwdriver — for attaching camera to an electrical box or mounting surface
- Silicone sealant

Sarix Enhanced 4 Dome Surface Camera Package Contents

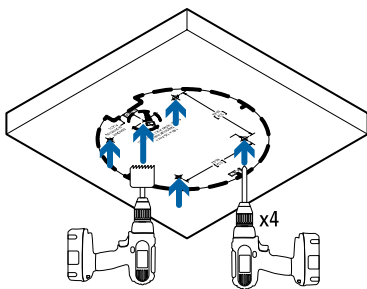
Ensure the package contains the following:

- Pelco Sarix Enhanced 4 or 4P Indoor or Outdoor Dome Camera
- Mounting template sticker
- Cable entry grommets
- RJ-45 grommet piercing cap
- 4 screws and anchors for solid walls

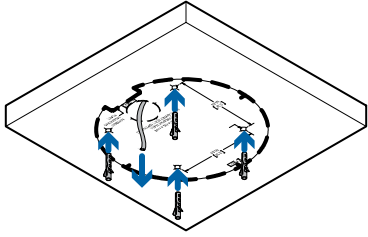
Installing the Surface Adapter Using the Bottom Cable Entry Hole

Perform the following steps if the required cables will be coming out of the mounting surface. Use this procedure on surfaces that can easily be cut, such as aluminum, and when the cables should be kept out of sight.

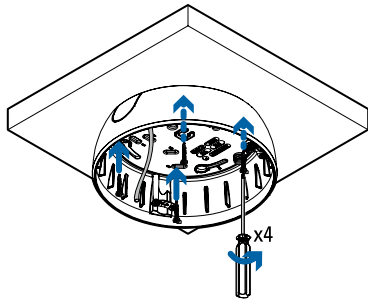
1. Use the mounting template to drill the mounting holes and one cable entry hole into the mounting surface.



2. Pull the cables through the cable entry hole in the mounting surface.
3. Insert the wall anchors into the mounting holes.



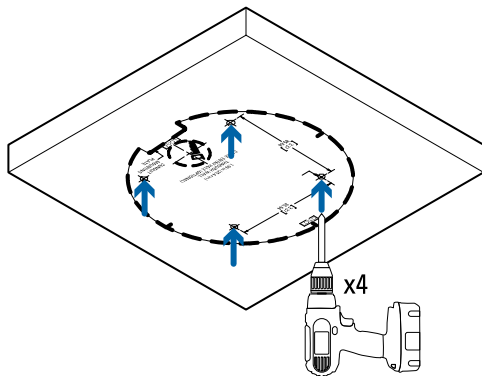
4. Use four screws to secure the adapter to the mounting surface.



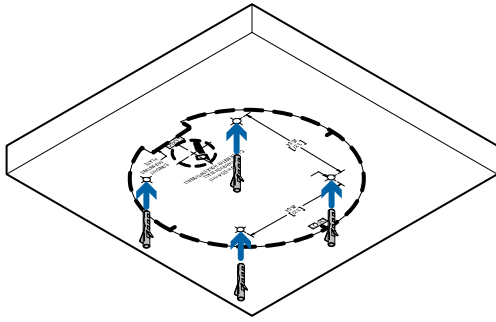
Installing the Surface Adapter Using the Side Cable Entry Hole

Perform the following steps if you will be mounting to a surface with the required cables coming out of an external conduit pipe. Use this procedure if the mounting surface cannot be easily cut, or when cables must be brought along the outside of the mounting surface.

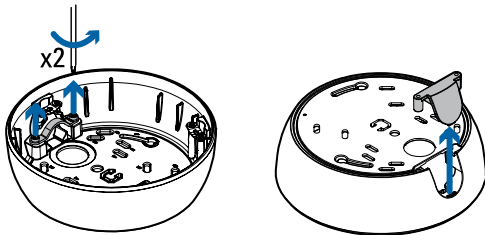
1. Use the mounting template to drill four mounting holes and position the conduit pipe correctly.



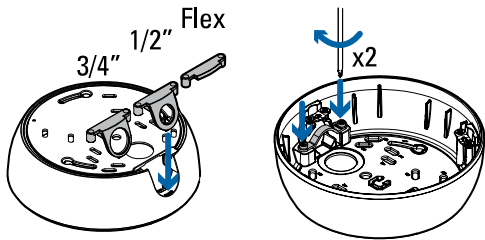
2. Insert the wall anchors into the mounting holes.



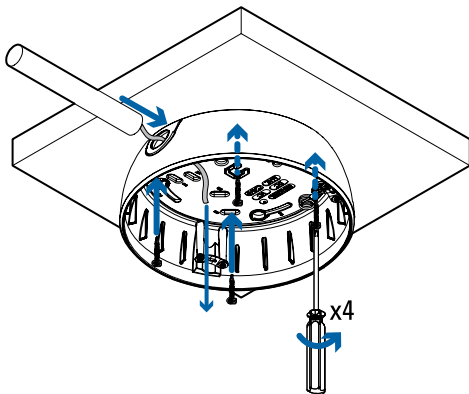
3. Use a screwdriver to loosen the side cover on the surface adapter, and remove the cover.



4. Choose the correct size cover for the conduit pipe, and screw into place.

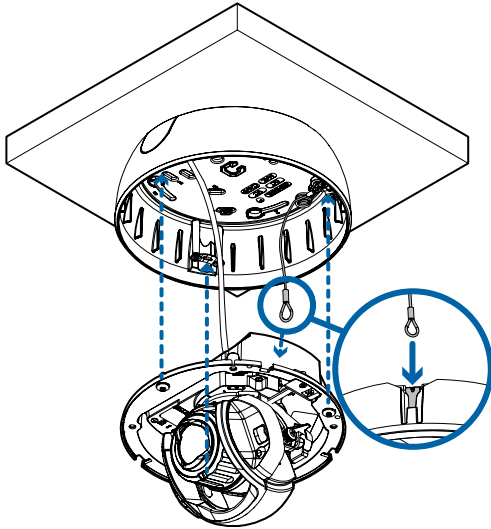


5. Pull the required cables through the conduit.
6. Drive four screws into the mounting holes on the surface adapter.
7. Insert the conduit pipe into the side conduit entry.

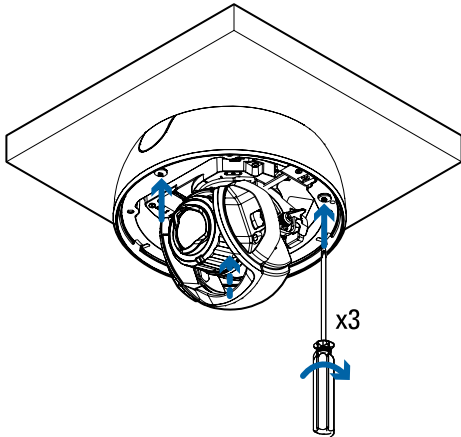


Mounting the Sarix Enhanced 4 Dome Camera to the Surface Adapter

1. Attach the lanyard on the adapter to the lanyard hook on the bottom of the camera. Let the camera hang.



2. Insert the sealing grommet with the required cables pulled through into the cable entry hole on the bottom of the camera. For more information, see [Inserting Cables through the Sealing Grommet on page 21](#).
3. Mount the camera using the three mounting setscrews.



Installing the Sarix Enhanced 4 Dome Camera Cover

Be careful not to touch or scratch the dome bubble when installing the dome cover.



NOTE

Before installing the dome cover, we recommend that you first connect to the camera and adjust the aim, zoom, and focus so that the camera covers the required field of view. For more information, see:

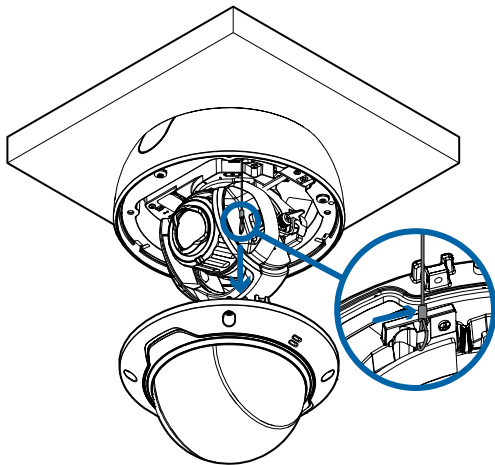
- [Adding Cameras to the Network on page 57](#)
- [Aiming Sarix Enhanced 4 Dome Cameras on page 65](#)
- [Zooming and Focusing Cameras on page 66](#)

Installing the Dome Cover for a Non-IR Dome Camera

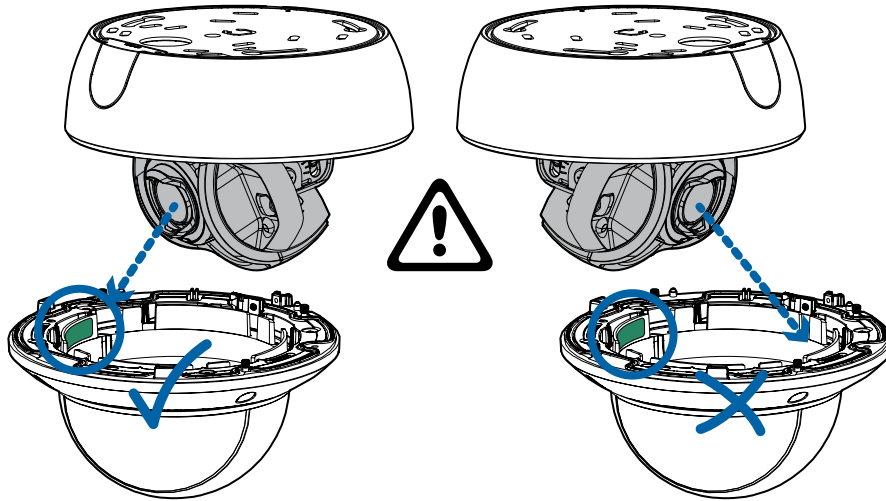
1. Attach the lanyard to the dome cover.
2. Remove the protective cover on the inside of the dome bubble.
3. Attach the dome cover to the base by tightening the screws with the star-shaped driver.
4. Remove the protective cover on the outside of the dome bubble.

Installing the Dome Cover for an IR Dome Camera

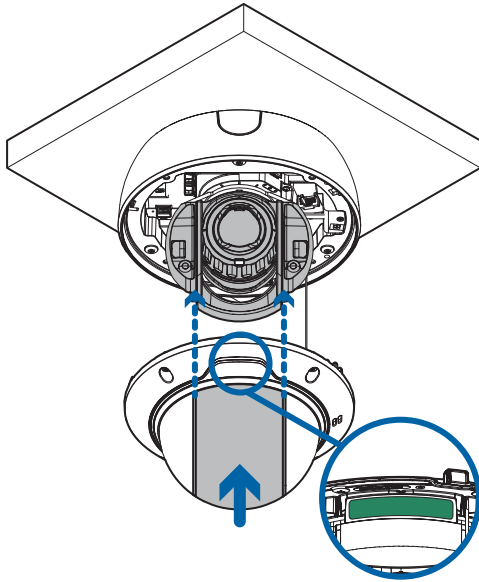
1. Attach the lanyard to the dome cover.



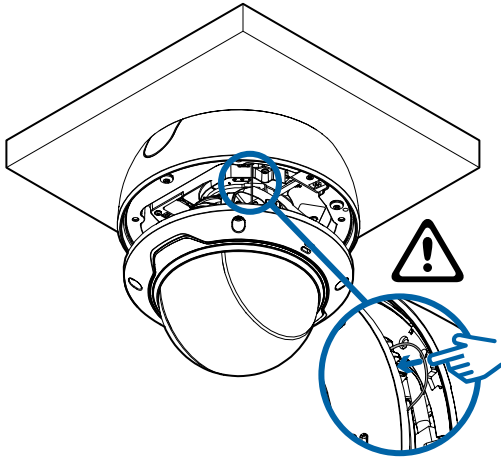
2. Remove the protective cover on the inside of the dome bubble.
3. Make sure that the camera lens is facing the side of the dome cover that has the green label on it.



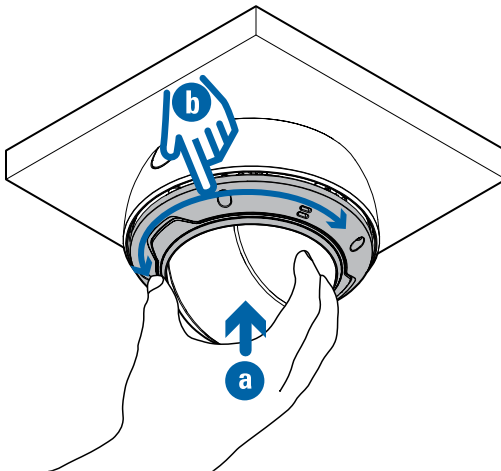
4. Align the slots on either side of the camera with the slots on the dome cover and gently slide the dome cover onto the camera.



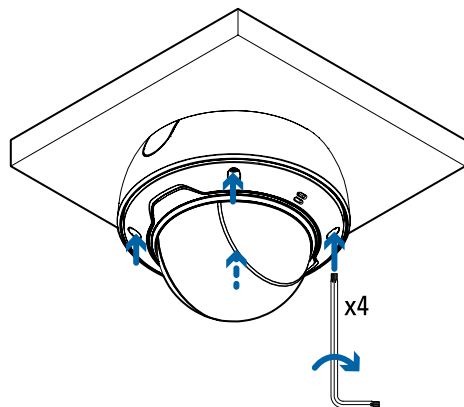
5. Tuck the lanyard inside the camera so it does not get pinned between the camera and dome cover.



6. Fix the camera into place by pushing upward on the dome bubble.
7. Hold the camera bubble in place and rotate the rim until the setscrews on the rim align with the screw holes on the camera.



8. Attach the dome cover to the base by tightening the screws with the star-shaped driver.



9. Remove the protective cover on the outside of the dome bubble.

Installing Sarix Enhanced 4 Dome In-Ceiling Mount Cameras

Required Tools for Sarix Enhanced 4 Dome In-Ceiling Mount Installation

The following tools are required to complete the installation but are not included in the package:

- Small slotted screwdriver with 5/64" or 2 mm blade width — for connecting power when not using Power over Ethernet.
- No. 2 Phillips screwdriver — for attaching the camera to a mounting surface and positioning the clamps.

Sarix Enhanced 4 Dome In-Ceiling Camera Package Contents

Ensure the package contains the following:

- Pelco Sarix Enhanced 4 or 4P Indoor Dome Camera
- Mounting template sticker
- Cable entry grommets
- RJ-45 grommet piercing cap
- 4 screws and anchors for solid walls

Mounting the Dome Camera Using the Ceiling Clamps



CAUTION

This camera is designed for indoor use only.

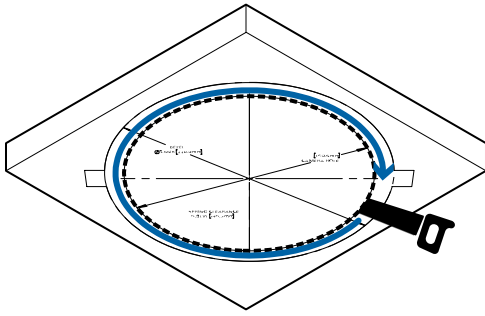
Perform the following steps if you will be mounting the camera into a ceiling.



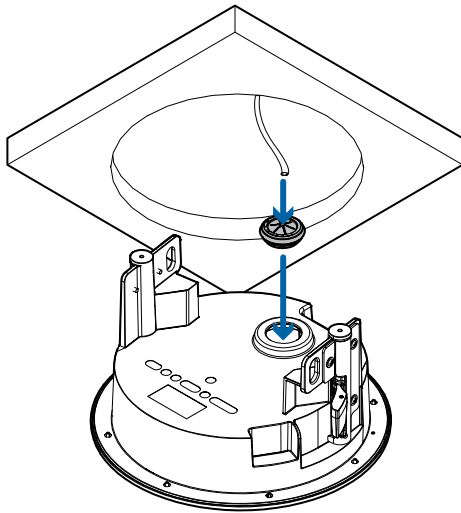
NOTE

The maximum supported mounting surface thickness for the in-ceiling mounting adapter is 50 mm (1.97").

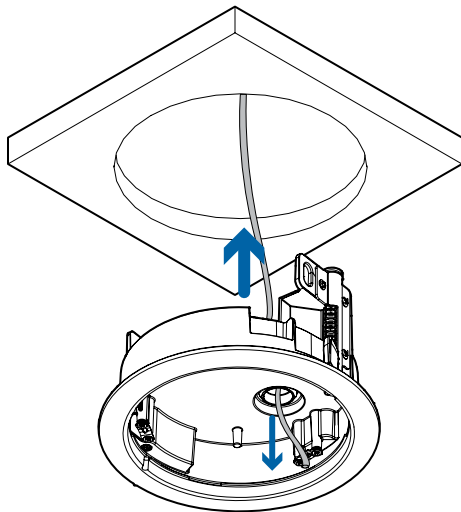
1. Use the mounting template to cut an entry hole for the camera and cables into the ceiling.



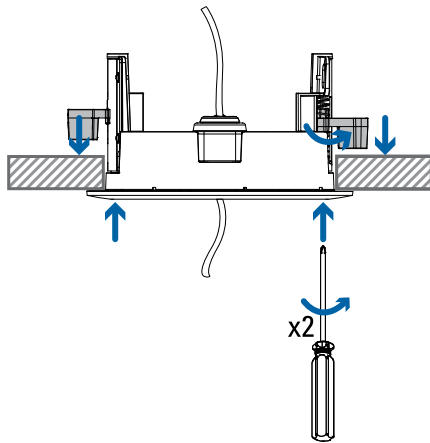
2. Insert the sealing grommet with all the required cables pulled through into the cable entry hole on the bottom of the in-ceiling adapter. For more information on using the sealing grommet, see [Inserting Cables through the Sealing Grommet on page 21](#).



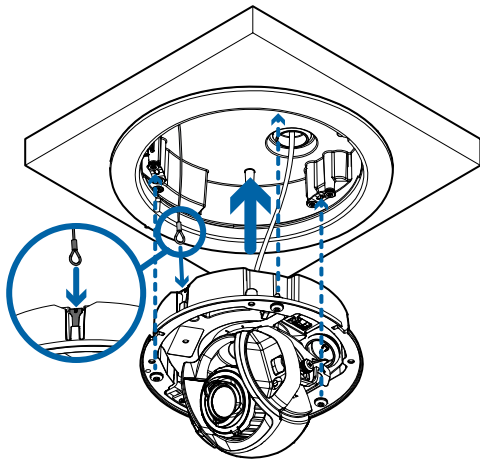
3. Insert the in-ceiling adapter into the entry hole in the ceiling. When inserting the camera, the clamps should be flush with the side of the adapter.



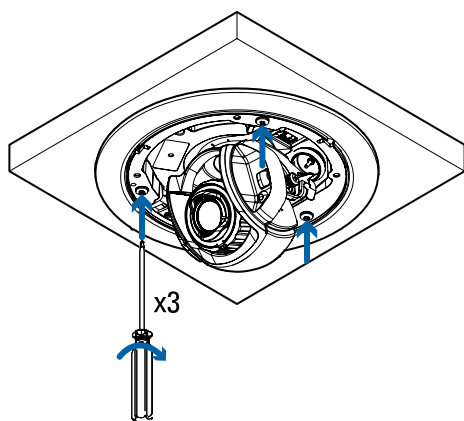
4. Use a No. 2 Phillips screwdriver to push each of the clamps into the camera. Push the clamp down until the spring is fully compressed, then rotate the clamp counter clockwise into the ready position.



5. Attach the lanyard on the in-ceiling adapter to the lanyard hook on the bottom of the camera.
6. Insert the dome camera into the entry hole in the ceiling. Make sure you align the mounting screws on the camera module with the mounting points on the in-ceiling adapter.



7. Tighten the mounting screws to secure the camera module to the in-ceiling adapter.



Installing the Sarix Enhanced 4 Dome Camera Cover

Be careful not to touch or scratch the dome bubble when installing the dome cover.



NOTE

Before installing the dome cover, we recommend that you first connect to the camera and adjust the aim, zoom, and focus so that the camera covers the required field of view. For more information, see:

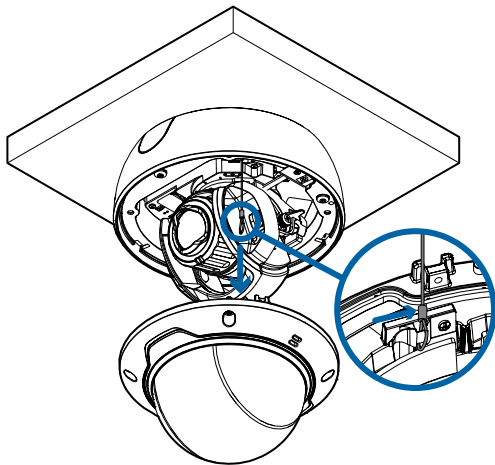
- [Adding Cameras to the Network on page 57](#)
- [Aiming Sarix Enhanced 4 Dome Cameras on page 65](#)
- [Zooming and Focusing Cameras on page 66](#)

Installing the Dome Cover for a Non-IR Dome Camera

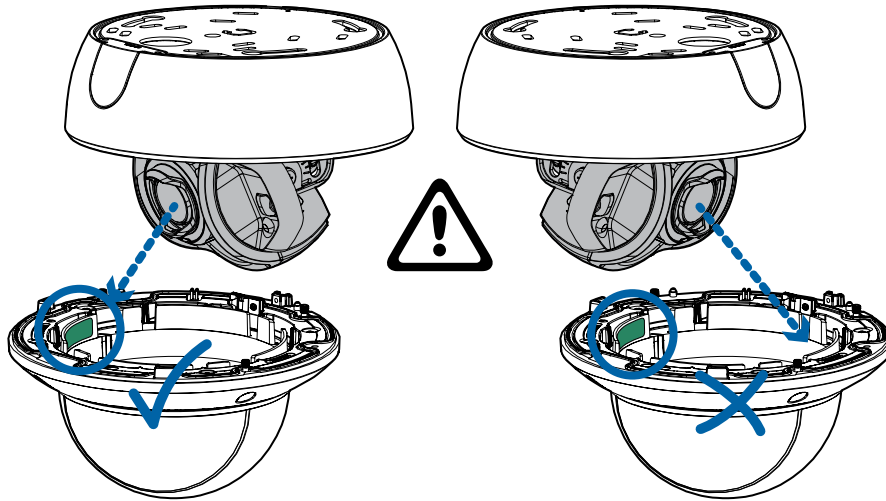
1. Attach the lanyard to the dome cover.
2. Remove the protective cover on the inside of the dome bubble.
3. Attach the dome cover to the base by tightening the screws with the star-shaped driver.
4. Remove the protective cover on the outside of the dome bubble.

Installing the Dome Cover for an IR Dome Camera

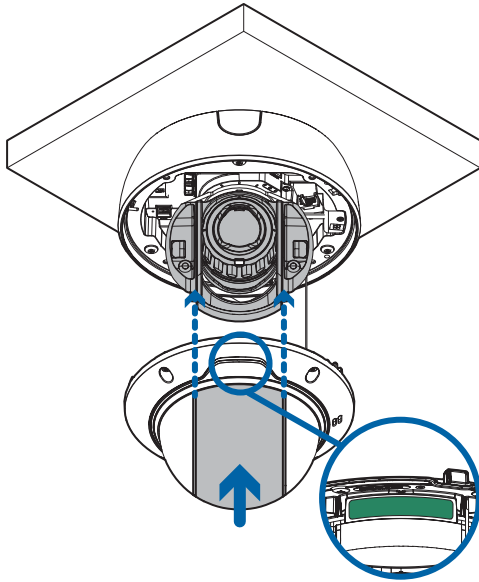
1. Attach the lanyard to the dome cover.



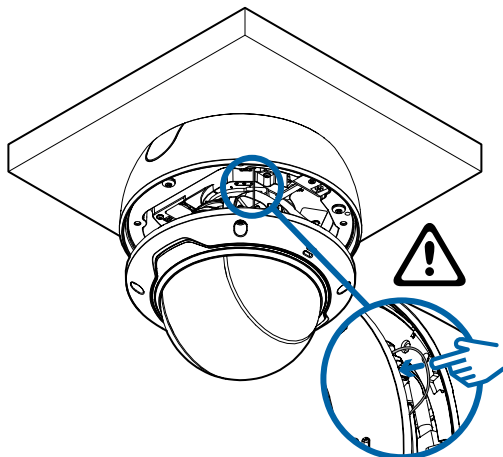
2. Remove the protective cover on the inside of the dome bubble.
3. Make sure that the camera lens is facing the side of the dome cover that has the green label on it.



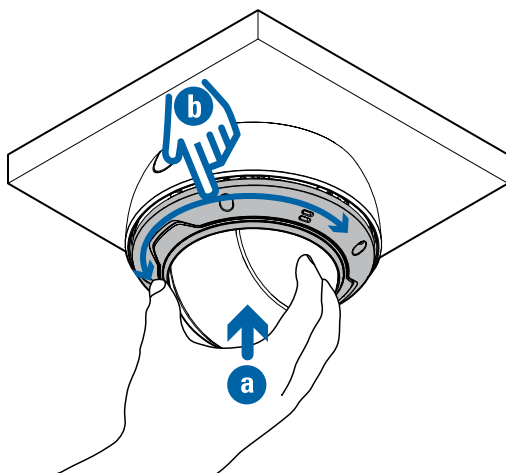
4. Align the slots on either side of the camera with the slots on the dome cover and gently slide the dome cover onto the camera.



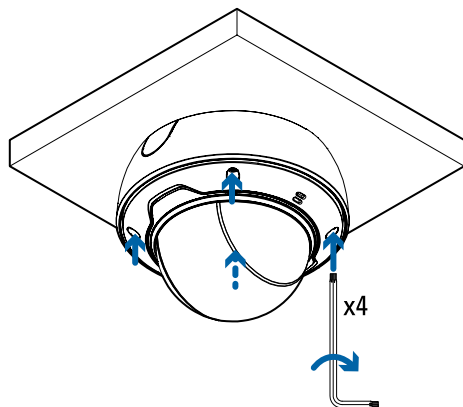
5. Tuck the lanyard inside the camera so it does not get pinned between the camera and dome cover.



6. Fix the camera into place by pushing upward on the dome bubble.
7. Hold the camera bubble in place and rotate the rim until the setscrews on the rim align with the screw holes on the camera.



8. Attach the dome cover to the base by tightening the screws with the star-shaped driver.



9. Remove the protective cover on the outside of the dome bubble.

Installing Sarix Enhanced 4 Dome Pendant Mount Cameras

Required Tools for Sarix Enhanced 4 Dome Pendant Mount Installation

The following tools are required to complete the installation but are not included in the package:

- Pendant wall mount (WLMT-1021) or Pendant NPT pipe mount
 - (Pendant wall mount only) No. 2 Phillips screwdriver — for attaching the pendant wall mount bracket to a mounting surface
 - (Pendant NPT pipe mount only) 1-1/2" NPT-female to NPT-female pipe adapter — for attaching the pendant NPT mount to a pipe
- Silicone sealant
- Small slotted screwdriver with 5/64" or 2 mm blade width — for connecting power when not using Power over Ethernet.

Sarix Enhanced 4 Dome Pendant Camera Package Contents

Ensure the package contains the following:



NOTE

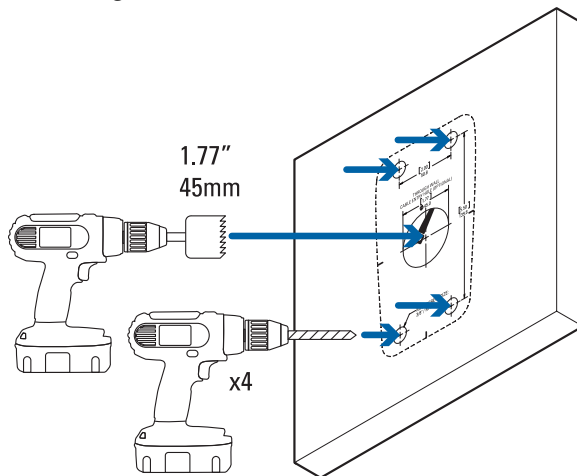
The pendant wall mount and pendant NPT mount are sold separately.

- Pelco Sarix Enhanced 4 or 4P Indoor or Outdoor Dome Camera
- Mounting template sticker
- Cable entry grommets
- RJ-45 grommet piercing cap
- 4 screws and anchors for solid walls
- Pendant NPT mount (SRXE4-PM-1E):
 - Lock nut
 - Thread seal tape
- Pendant Wall Mount (WLMT-1021):
 - Mounting template sticker
 - Mounting bracket
 - Thread seal tape
 - Four screws and anchors for solid walls

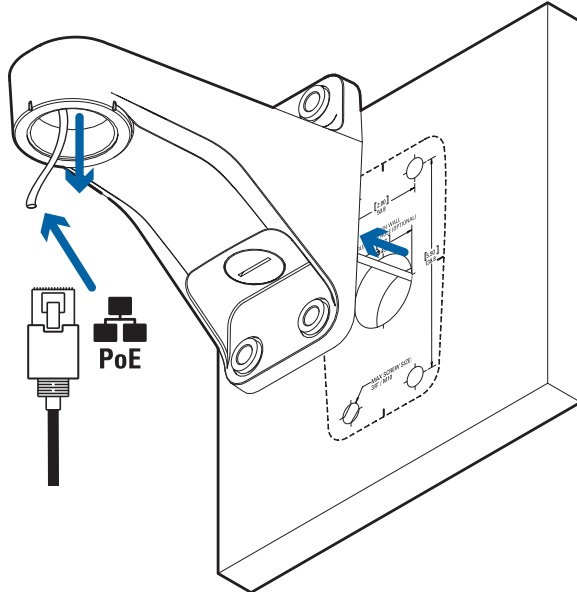
Installing the Pendant Wall Mount

When installing the wall mount, the cables for the camera can be accessed through either a hole in the wall or from a bottom conduit entry into the wall arm. If your installation requires a bottom conduit to access the required cables, refer to [Accessing Cables through the Bottom Conduit on page 40](#).

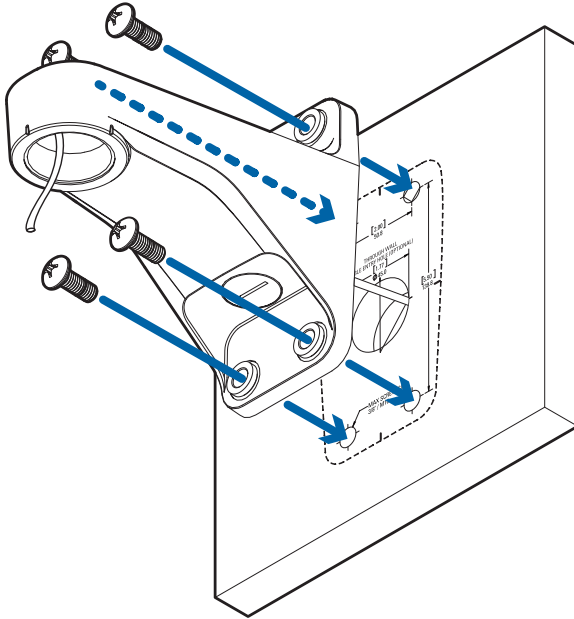
1. Use the mounting template to drill four mounting holes, and one cable entry hole, into the mounting surface.



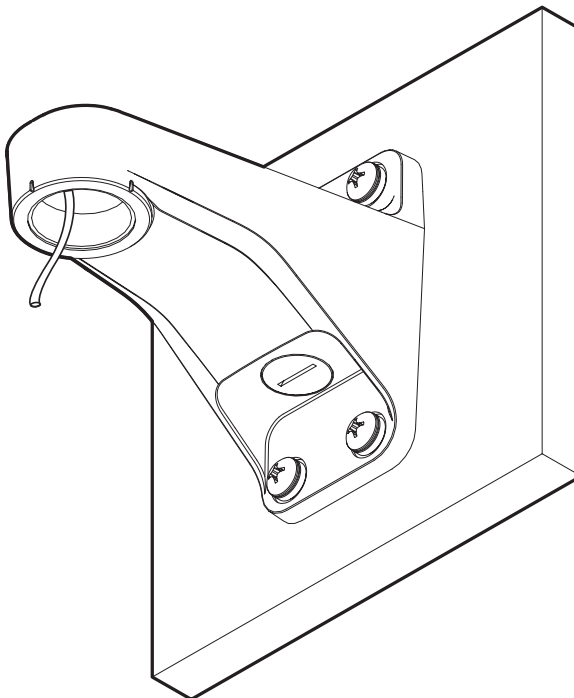
2. Pull the required cables through the cable entry hole and thread the cables through the wall arm.



3. Secure the wall arm to the mounting surface using the provided washers and mounting screws.

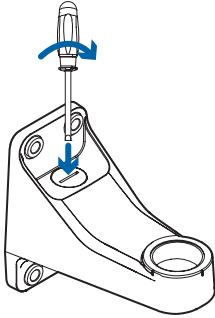


4. The finished wall arm installation should resemble the following image.

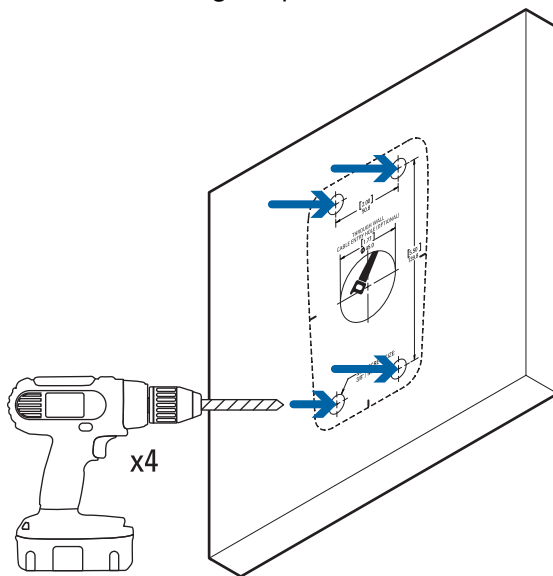


Accessing Cables through the Bottom Conduit

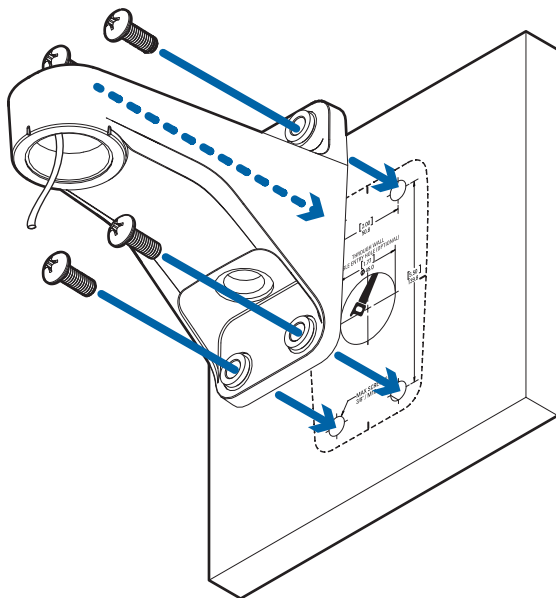
1. Use a screw driver to loosen the plug on the bottom of the wall arm.



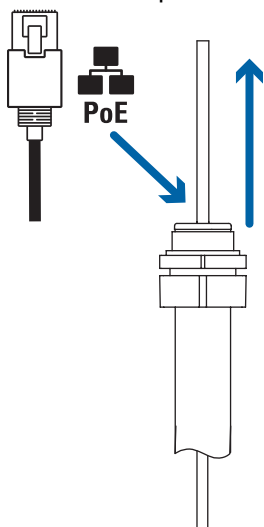
2. Use the mounting template to drill four mounting holes into the mounting surface.



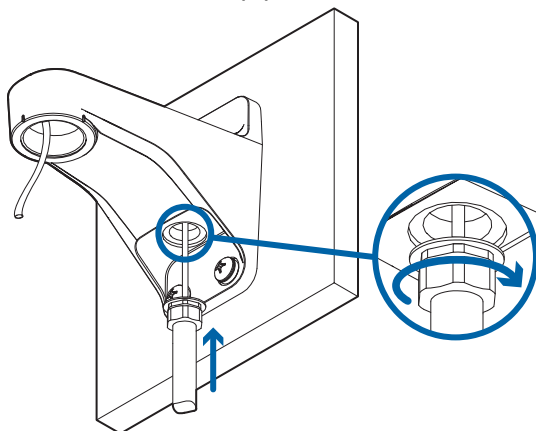
3. Use a drill to bolt the wall arm to the mounting surface.



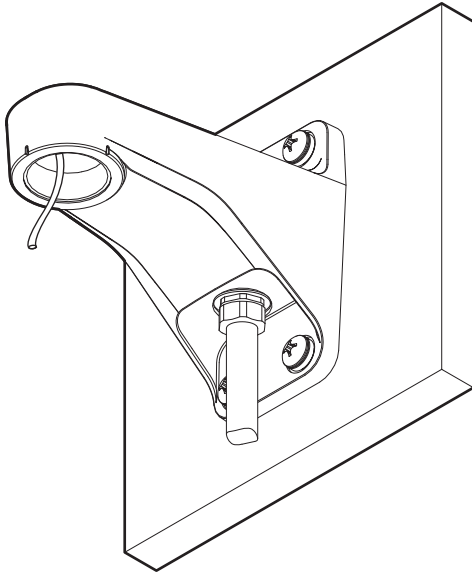
4. Push the required cables up the conduit pipe.



5. Screw the conduit pipe to fasten it to the bottom of the wall arm.



6. The finished wall arm installation should resemble the following image.



Installing the Pendant NPT Mount (Optional)

For installation environments where a wall is not available, you can also mount the pendant NPT mount to a pipe.



TIP

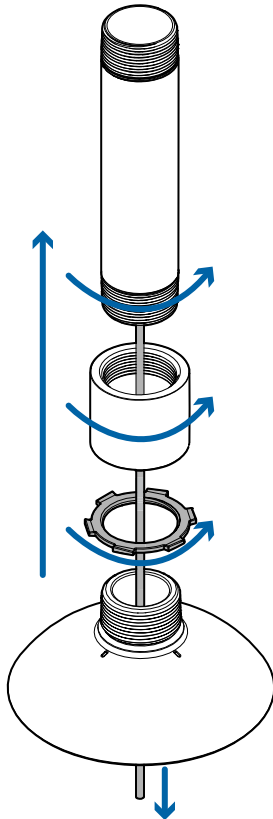
We recommend using a 1-1/2" conduit pipe for mounting the pendant NPT.



NOTE

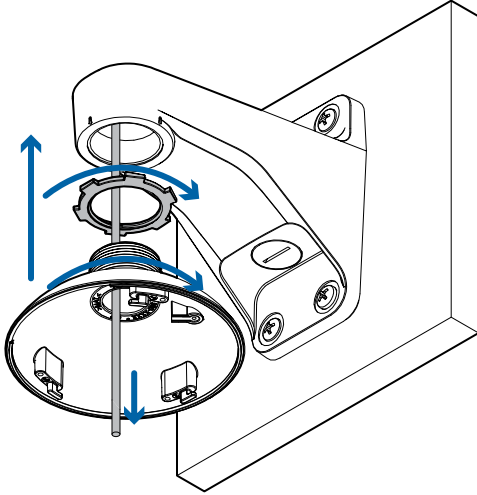
The NPT pipe and NPT-female to NPT-female adapter are not supplied by Pelco and should be sourced separately. However, if you are using the NPT adapter (SRXE4-PM-1E), the lock nut is included.

1. Pull the required cables through the NPT conduit pipe.
2. Apply thread seal tape to the pipe and screw on the 1-1/2" NPT female to NPT female pipe adapter.
3. Screw the lock nut onto the pendant NPT mount.
4. Apply thread seal tape to the pendant NPT mount and screw it into the pipe adapter.

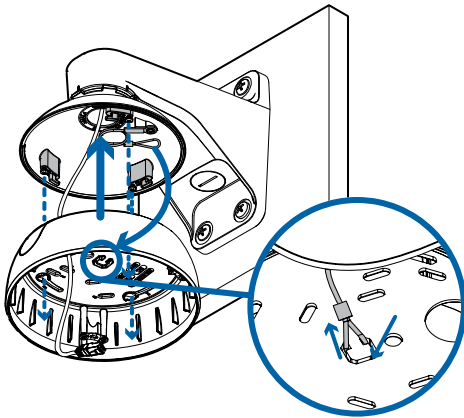


Mounting the Dome Camera to the Pendant Wall Mount

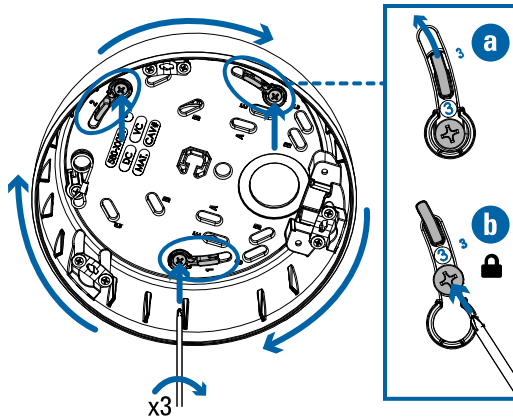
1. Pull the required cables through the pendant adapter.
2. Screw the lock nut onto the pendant adapter.
3. Apply thread seal tape to the pendant NPT mount and screw it into the pipe adapter



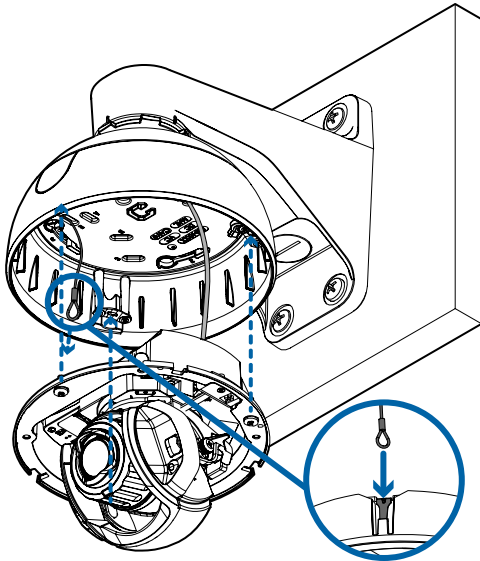
4. Attach the lanyard on the pendant mount to the lanyard hook on the bottom of the surface mount adapter.



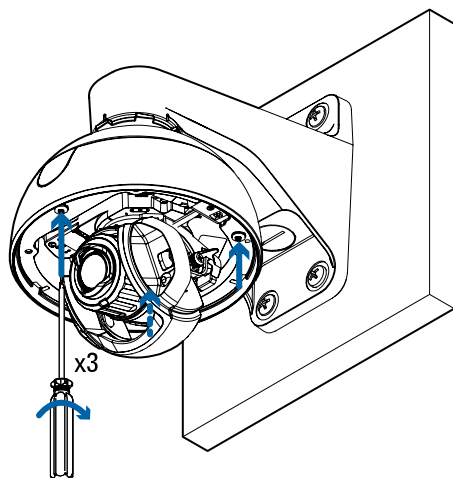
5. Mount the surface adapter so the mounting screws go into the holes and then twist the surface adapter clockwise until it is secure. Use a screwdriver to tighten the screws on the inside of the adapter, and secure the adapter to the wall arm.



6. Install the sealing grommet with all the required cables. For more information, see [Inserting Cables through the Sealing Grommet on page 21](#).
7. Connect the lanyard in the adapter to the lanyard hook on the bottom of the camera. Allow the camera to hang.



8. Tighten the bolts to secure the camera to the adapter.



Installing the Sarix Enhanced 4 Dome Camera Cover

Be careful not to touch or scratch the dome bubble when installing the dome cover.



NOTE

Before installing the dome cover, we recommend that you first connect to the camera and adjust the aim, zoom, and focus so that the camera covers the required field of view. For more information, see:

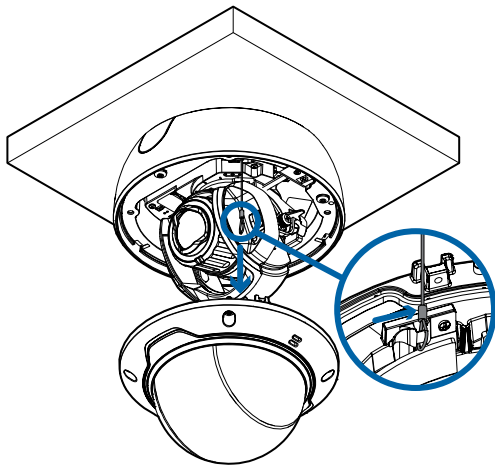
- [Adding Cameras to the Network on page 57](#)
- [Aiming Sarix Enhanced 4 Dome Cameras on page 65](#)
- [Zooming and Focusing Cameras on page 66](#)

Installing the Dome Cover for a Non-IR Dome Camera

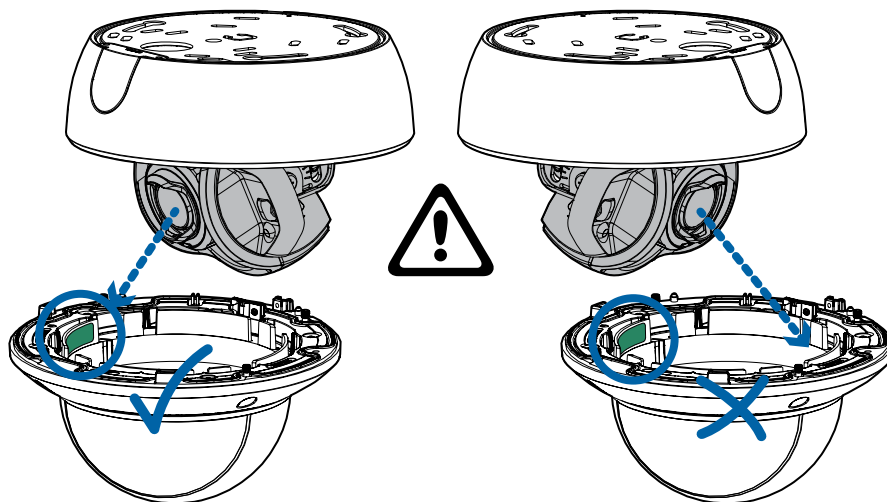
1. Attach the lanyard to the dome cover.
2. Remove the protective cover on the inside of the dome bubble.
3. Attach the dome cover to the base by tightening the screws with the star-shaped driver.
4. Remove the protective cover on the outside of the dome bubble.

Installing the Dome Cover for an IR Dome Camera

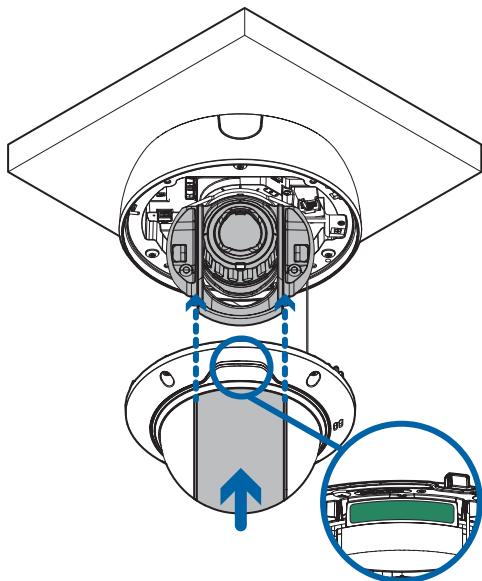
1. Attach the lanyard to the dome cover.



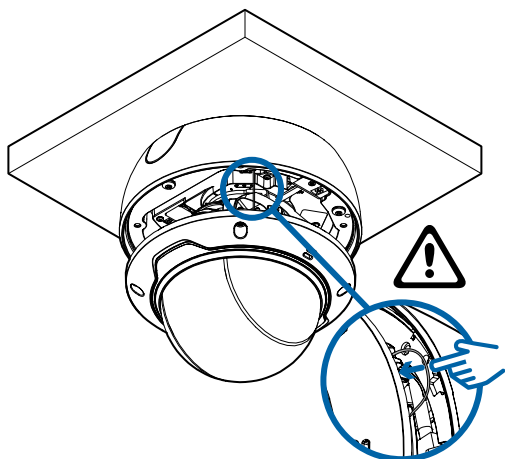
2. Remove the protective cover on the inside of the dome bubble.
3. Make sure that the camera lens is facing the side of the dome cover that has the green label on it.



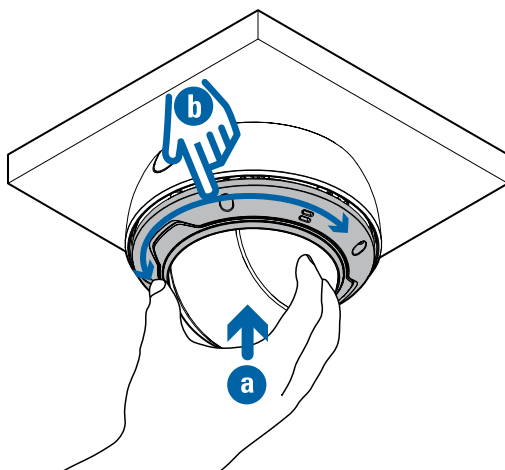
4. Align the slots on either side of the camera with the slots on the dome cover and gently slide the dome cover onto the camera.



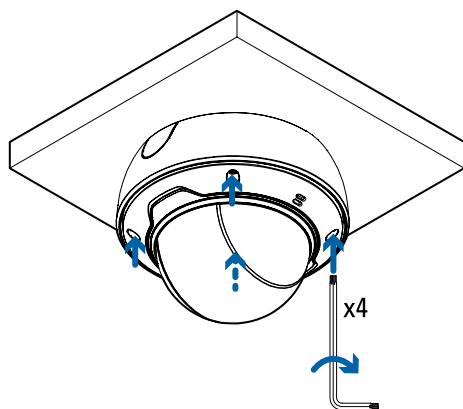
5. Tuck the lanyard inside the camera so it does not get pinned between the camera and dome cover.



6. Fix the camera into place by pushing upward on the dome bubble.
7. Hold the camera bubble in place and rotate the rim until the setscrews on the rim align with the screw holes on the camera.



8. Attach the dome cover to the base by tightening the screws with the star-shaped driver.



9. Remove the protective cover on the outside of the dome bubble.

Connecting Cables to Sarix Enhanced 4 Dome Cameras

Sarix Enhanced 4 Dome Cameras require electrical power and a network connection to operate. The following sections cover how to supply the camera with power and network connectivity and how to connect external devices using the camera's removable connector block.

Connecting Power Cables to Sarix Enhanced 4 Dome Cameras

There are three ways of connecting Sarix Enhanced 4 Dome cameras to a power source:

- [Power over Ethernet \(PoE\) below](#) — connect Power over Ethernet (PoE) to supply the camera with electrical power and network connection using the Ethernet port.
- [Auxiliary Power below](#) — connect Aux power to supply the camera with electrical power. You will have to supply network connectivity using the Ethernet port.
- [Auxiliary Power and PoE on page 52](#) — connect both PoE and Aux Power. The camera will draw power exclusively from Aux and use PoE for network connectivity.



IMPORTANT

This product is intended to be supplied by a UL Listed Power Unit marked "Class 2" or "LPS" or "Limited Power Source" with output rated 12-24 VDC, 25 W max. or Power over Ethernet (PoE), 25 W max.

Power over Ethernet (PoE)

Sarix Enhanced 4 Dome cameras accept a PoE connection to supply electrical power and network connectivity. The PoE connection also facilitates communication with the network servers and sharing of video footage, images and other data over the network.

1. Locate the Ethernet port on the camera. See the *Overview* section for the locations of the Ethernet port.
2. Insert the PoE cable to the camera's Ethernet port (RJ45 connector).
3. The green and yellow LED indicators will light up if the connection was successful. Refer to the [Connection Status LED Indicators on page 61](#) section for more information.

Auxiliary Power

If PoE is not available, the camera needs to be powered through the removable power connector block.

To connect power to the power connector block, complete the following steps:

Sarix Enhanced 4 Dome Cameras Installation Manual

1. Remove the power connector block from the camera. See the *Overview* section for the locations of the Power Connector Block.
2. Remove the insulation from ¼" (6 mm) of the power wires. Do not nick or damage the wires.
3. Insert the two power wires into the two terminals on the power connector block. The connection can be made with either polarity.
Use a small slotted (5/64" or 2 mm blade width) screwdriver to loosen and tighten the terminals.
4. Attach the power connector block back into the camera.

Auxiliary Power and PoE

You can connect cameras to both PoE and Aux to provide power redundancy. If the camera has power available from both auxiliary (Aux) power supply and a PoE PSE (Power Sourcing Equipment) device, the camera will draw power from Aux. If the camera loses power from Aux, it can switch to drawing power from PoE.

Power Redundancy for Sarix Enhanced 4 Dome Cameras

Connecting cameras to both PoE and Aux can provide power redundancy in the event that the camera's external AUX power supply fails. If the camera loses power from the preferred Aux power supply it can transition to drawing power from the PoE PSE device.

Sarix Enhanced 4 Dome Cameras cameras support different types of failover:

- [Seamless Failover \(SRXE4P\) below](#)— cameras can transition from Aux power to PoE without rebooting.
- [Non-Seamless Failover \(SRXE4\) below](#) — cameras will power off and reboot when transitioning from Aux power to PoE.

Seamless Failover (SRXE4P)

SRXE4P cameras support seamless failover. They can switch between from auxiliary (Aux) power to PoE without interruption. This redundancy ensures continuous function even if one power source fails. Seamless failover is guaranteed with full-power PoE (Class 4, 25.5W). Lower PoE classes may lead to power issues during failover, especially when Aux power is lost under high power consumption, for example, cameras with IR LEDs.

Connecting to a PoE-enabled port will still allocate power from the switch's budget, even when the camera is using Aux power.



NOTE

If the PSE demotes the camera to PoE Class 3 (13W), the camera will reboot and you will see an "insufficient power" message. Therefore, if the camera is connected to a Class 3 PoE source while running on Aux power and using full IR power and the Aux power source is disconnected, the camera will most likely overload the PSE and reboot. However, if the camera is not using IR LEDs and Aux power is removed, the Class 3 PoE power source would be adequate to guarantee seamless failover.

Non-Seamless Failover (SRXE4)

SRXE4 cameras that support non-seamless failover will power-off while waiting to transition from Aux power to PoE power. If the Aux power is resupplied, the camera might reboot while transitioning back to using Aux power. The camera might not reboot if the external Aux power supply reacts quickly enough to the increase in load.



NOTE

Make sure that sufficient power is manually reserved on the PSE, as the camera will not request PoE power until the camera loses Aux power.

Connecting External Devices to Sarix Enhanced 4 Dome Cameras

External devices are connected to the camera through the Input/Output (I/O) pluggable terminal block. For the locations of the terminals, see [Sarix Enhanced 4 Dome Module Overview on page 13](#).

The pinout for the I/O terminal block is shown in the following diagram:

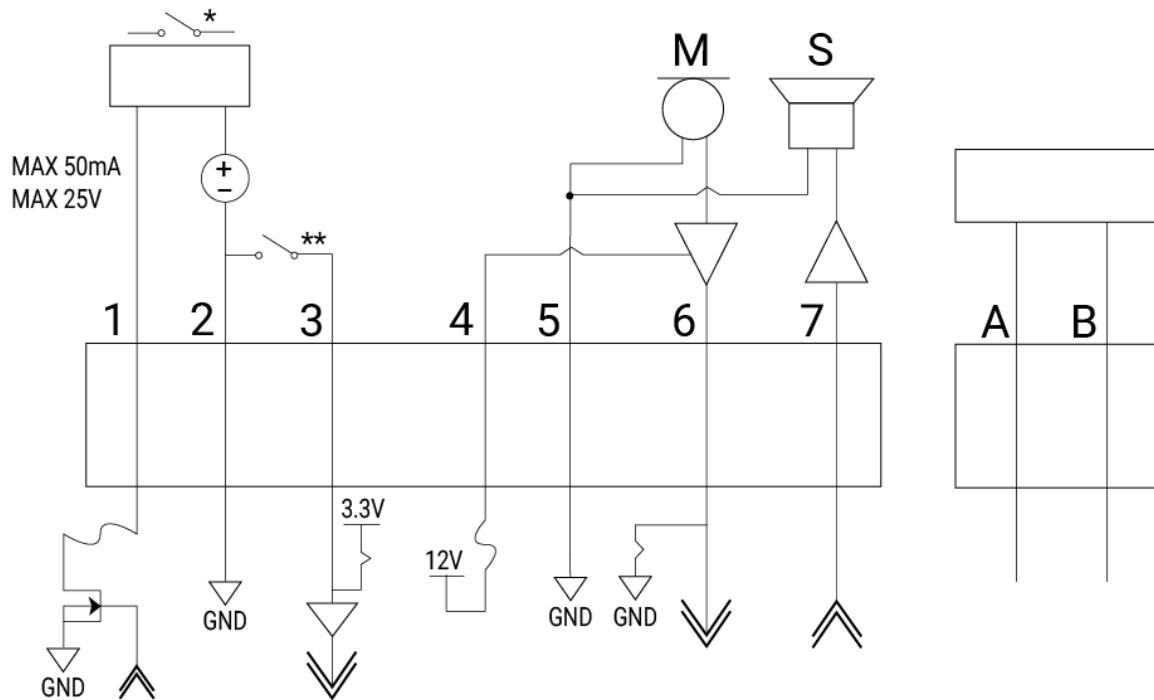


Figure 1: Pinout diagram showing the different connectors on the Sarix Enhanced 4 Dome camera's removable terminal block.

1. Digital Output — Max output 50mA and 25V.
2. Ground — Connect to microphone power ground.
3. Digital Input — Max input 3.3V.
4. Voltage Output (12V) — Connect to microphone power ground.
5. Audio Ground — Connect to microphone audio ground.
6. Audio Input (line level) — Connect to microphone audio.
7. Audio Output (line level)

- A. AUX1 — Auxiliary Power Wire. Takes DC AUX power only.
- B. AUX2 — Auxiliary Power Wire. Takes DC AUX power only.

* — Relay

** — Switch

M — Microphone

S — Speaker

Configuring Onboard Storage (Optional)

To use the camera's onboard storage feature, you must insert 1 microSD card into a microSD card slot. While there are two microSD slots, currently the camera only supports a single microSD card in either slot for onboard storage.

We recommend that the microSD card have a minimum storage capacity of 64 GB. Video Speed Class microSD card required, with Class V10 or better recommended. If the microSD card does not meet the recommended capacity or write speed, the performance of the onboard storage may suffer and result in the loss of frames or footage.

Ensure the microSD card is designed for continuous video recording or the microSD card life expectancy may be adversely affected.

1. Insert the microSD card into the camera. See the *Overview* section for the location of the microSD card slot.



WARNING

Do not force the microSD card into the camera or you may damage the card and the camera. The card can only be inserted in one direction.

2. You will also need to enable the storage feature in the camera web interface. See [Resources for Pelco Cameras on page 68](#) for information on using camera features and configuring settings.

Adding Cameras to the Network

Sarix Enhanced 4 Dome Cameras must be added to the IP network before you can connect them to the Video Management System (VMS). The following sections cover how to add cameras to the network and how to discover the camera's IP addresses.

Choose a Tool to Access Camera Settings

There are different tools that you can use to configure cameras. If you are configuring many cameras with the same settings, you will want to use the Camera Configuration Tool (CCT) to claim and apply settings in bulk. The camera web interface allows you to configure cameras one at a time from a web browser. You can only access the camera's web interface from a computer connected to the same network as the camera.

You can use one of the following tools:

- **Camera Configuration Tool** — use CCT to discover, initialize and configure cameras. CCT can discover and claim many cameras at once. You can also use CCT to configure and bulk apply common settings to cameras.
Refer to the [Motorola Solutions Camera Configuration Tool User Guide](#) for instructions.
- **Camera Web Interface** — use the camera web interface to initialize and configure cameras individually from a web browser without using the VMS. You can not use the camera web interface to discover cameras. You must find the IP address on the network before you can access the web interface.
Refer to the relevant Pelco Camera Operations Manual at pelco.com/docs for instructions.

Using the USB Wi-Fi Adapter (Optional)

You can use the USB Wi-Fi Adapter to connect the camera to the network instead of an Ethernet cable. Sarix Enhanced 4 Dome cameras require either the USB-AC56-NA-MSI-B or USB-AC56-EU-MSI-B adapter.

1. Attach the adapter to the camera's USB-C port to add the camera to the network.
2. Open the camera's mobile web interface.
3. After you connect to the Wi-Fi signal broadcast by the adapter, you can access the mobile web interface from any mobile device using the following address: *http://camera.lan*.



NOTE

The camera will reserve the 10.11.22.32/28 subnet for internal use while the USB Wi-Fi Adapter is plugged in.

4. You can also use the mobile web interface to configure the camera settings. For more information about configuring the camera from the mobile web interface, see the [USB Wi-Fi Adapter System User Guide](#).

Discovering Cameras on the Network

The camera will automatically be assigned an IP address as soon as it is connected to the network. To ensure proper connectivity, the cameras and the client machine accessing them must be on the same subnet. This can be achieved through one of the following methods:

- If DHCP is enabled, set the client machine to obtain a DHCP assignment so that the cameras and devices are automatically added to the same subnet.
- If DHCP is not enabled, set the client machine for zero-configuration networking (zero-conf). The cameras will use zeroconf to obtain an IP address in the 169.254.x.x range. Zero-conf is the default behavior for Windows OS when DHCP is not available.

Finding the Camera's IP Address

After you have added the camera to the network, you must find the camera's IP address. You will need the camera's IP address if you want to access and configure the camera's settings.

Use one of the following methods to find the camera's IP address:

- **Camera Configuration Tool (CCT)** — use CCT to autodiscover cameras on the same network as the client machine you are using.
- **Camera Web Interface** — use the camera web interface to initialize and configure cameras individually from a web browser without using the VMS.

Consider one of these options if you do not have access to CCT, or the web interface:

- **ARP/Ping** — The ARP/ping method can be used to change the IP address of a camera that is factory default and does not currently have any administrator credentials configured. The arp Windows command adds an entry to the ARP table. Then, while powering on the camera, pinging the camera with the new IP address will cause the camera to take on the new IP address.
- **DHCP assignment** — a network administrator will be able to check the DHCP assignment for the IP addresses on the network.

Changing the IP Address (Optional)

The IP address settings can be changed using one of the following methods:

- Video Management System (VMS) software application
- Camera Configuration Tool

Initializing a Camera by Creating a Username and Password

You must create an initial user with administrator privileges and log in to the camera before the camera becomes operational. You will need the camera's IP address to create the initial user. See [Discovering Cameras on the Network on the previous page](#) for instructions on how to obtain the camera's IP address.

There are different tools you can use to create the initial user. See [Choose a Tool to Access Camera Settings on page 57](#) for more information.

You can use one of the following tools to create the initial user:

- **Camera Configuration Tool** — cameras discovered in the factory default state will be identified by 🟡. Select the *Admin Users* tab to create the first user.
- **Camera Web Interface** — enter the camera's IP address in a web browser to access the web interface. If the camera is in the factory default state you will be redirected to the *Add a new user* page to create the first user.



NOTE

If you are using a third-party VMS, you must complete this step with either CCT or the camera's web interface before you can use the camera.

Connection Status LED Indicators

Once connected to the network, the green Connection Status LED indicator will display the progress in connecting to the Video Management System (VMS) software. The following table outlines the different LED signals:

Connection State	Connection Status LED Indicator	Description
Obtaining IP Address	One short flash every second	Attempting to obtain an IP address.
Discoverable	Two short flashes every second	Obtained an IP address but not connected to the Network Video Management software.
Upgrading Firmware	Two short flashes and one long flash every second	Updating the firmware.
Connected	On	Connected to the Network Video Management software. The default connected setting can be changed to Off using the camera's web user interface. For more information, see the <i>Pelco Sarix Enhanced 4 and 4P Dome Operations Manual</i> .

Troubleshooting Network Connections and LED Behavior



NOTE

For any of the below LED behaviors, ensure that the camera is getting power and is using a good network cable before trying another solution.

LED Behavior	Suggested Solution
Green LED is off and amber is on	Perform a factory reset of the camera using the physical firmware revert button. Resetting through the camera's web interface will not produce the desired result.
Both LEDs are off and the camera is not connected or streaming video	If the LEDs are not disabled, perform a factory reset of the camera using the physical firmware revert button. Resetting through the camera's web interface will not produce the desired result.
Both LEDs are blinking several times at the same time, then pause and repeat the blinking	Perform a factory reset of the camera using the physical firmware revert button. Resetting through the camera's web interface will not produce the desired result.

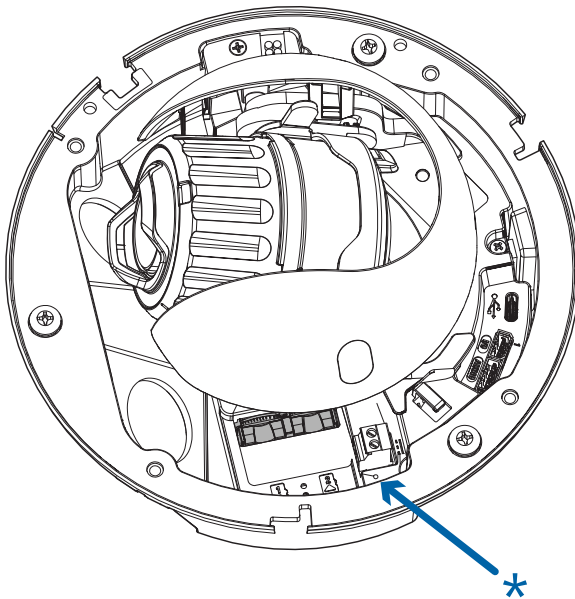
LED Behavior	Suggested Solution
A different LED blinking pattern than those described above	Perform a factory reset of the camera using the physical firmware revert button. Resetting through the camera's web interface will not produce the desired result.

Resetting Sarix Enhanced 4 Dome Cameras to their Factory Default Settings

If the Sarix Enhanced 4 Dome camera no longer functions as expected, try performing a factory reset using the camera's firmware revert button. Use the firmware revert button to reset the device to its factory default settings.

Follow these steps to manually reset the camera:

1. Ensure the camera is powered on.
2. Remove the camera cover.
3. Locate the reset button on the camera module. The reset button is a small hole.



4. Use a paperclip or small tool to press and hold the reset button until the LEDs beside the reset button turn off.
5. Release the button and wait while the camera reverts to the factory default settings.

Adjusting Sarix Enhanced 4 Dome Cameras

The last stage of the installation is adjusting the camera to optimize the video quality. Use the Live Viewer in the camera's web interface or the VMS to check the camera's field of view. Once you have access to the camera's video stream, you can adjust the camera's zoom and focus controls.

Make sure you complete these steps before attaching the camera's cover in case you need to make further adjustments:

Accessing the Live Video Stream

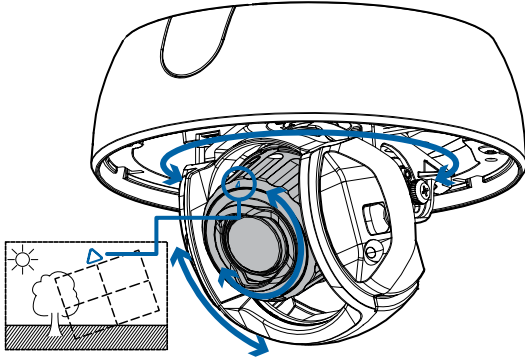
You can view the live video stream using one of the following methods:

- Camera Web Interface
- VMS client application

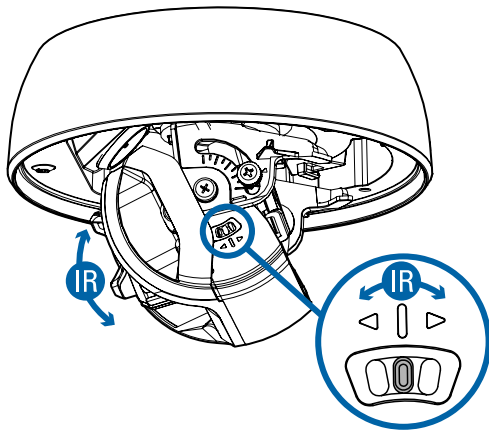
Aiming Sarix Enhanced 4 Dome Cameras

Reference the camera's live stream as you aim the camera.

1. Loosen the pan and tilt lock screws on the camera.
2. Turn the lens to the correct direction by panning and tilting the lens.



3. Tighten the pan and tilt lock screws to secure the dome camera's position.
4. Rotate the azimuth control ring to set the image to the correct angle.
5. For an IR Camera, set the IR LEDs in one of the three positions shown in the image below.



6. In the camera web browser interface, adjust the camera's Image and Display settings. You can set the zoom position, focus, and change the image rotation.

Zooming and Focusing Cameras

You can use the camera's **Zoom** and **Focus** controls to adjust the camera image before finishing the installation. You will need access to the camera's video feed to check the camera's image quality.



IMPORTANT

Make sure you install the camera's cover before adjusting the camera's zoom and focus because the camera cover can affect the image.

You can use the camera web browser to access the camera's *Image and Display* settings to zoom and focus the camera.

1. Access the camera's *Image and Display* settings.
2. Use the **Zoom** controls to zoom the camera in or out.
3. Use the **Focus** controls to manually adjust the focus.
4. Click **Auto Focus** to let the camera automatically focus the lens.
5. Click **Save**.

Enabling the Microphone (Optional)

Sarix Enhanced 4 Dome Cameras feature an internal microphone, and include a switch to physically enable or disable the microphone. The microphone switch is set to OFF by default.

We recommend that you enable the microphone before installing the camera in its final location.

1. Locate the microphone switch on the camera assembly.
2. Slide the switch from the default OFF position to ON to enable the microphone. For more information, see [Sarix Enhanced 4 Dome Module Overview on page 13](#)



NOTE

Sarix Enhanced 4P cameras do not include an internal microphone.

Sarix Enhanced 4 Dome Camera Maintenance

The sections below provide information and instructions for the ongoing maintenance of your Pelco cameras and devices. Perform regular maintenance to ensure that your products continue to perform well throughout the product's service life.

Cleaning Sarix Enhanced 4 Dome Cameras

Dirt, dust and/or fingerprints on the camera can cause the video image to become blurry. Make sure you clean these products to ensure optimal performance. Refer to the instructions below when cleaning Sarix Enhanced 4 Dome Cameras.

Which Cleaning Solutions Should I Use?

You can clean Pelco cameras using mild soap and water along with a non-abrasive cloth, microfiber cloths work best.



CAUTION

Do not use Windex to clean plastic or Lexan surfaces such as a dome or camera housing.

How Should I Clean Sarix Enhanced 4 Dome Cameras?

If the surface is extremely dirty, use a non-abrasive cloth with soap and water, but make sure you use long, sweeping strokes. Do not apply pressure or the dirt particles can scratch the plastic. Once the surface is clean of dust and dirt, use a new clean non-abrasive cloth with soap and water. This time apply more pressure to help remove the smaller particles.

When cleaning the camera body, use a dry or lightly dampened cloth. Do not use strong or abrasive detergents.



IMPORTANT

Make sure you do not rub any dirt that might already be on the camera. This will scratch the lens which will adversely impact image quality.

Cleaning Dome Bubbles

A damaged camera bubble will negatively impact image quality and cause unwanted IR light reflecting into the lens. Camera bubbles are vulnerable to scratches so follow the following guidelines when cleaning them.

To clean the dome bubble:

1. Use hand soap or a non-abrasive detergent to wash off dirt or fingerprints.
2. Use a microfiber cloth or non-abrasive fabric to dry the bubble.

Resources for Pelco Cameras

The following resources provide information for installing, configuring and using Pelco cameras. You can find more information and resources for your Pelco cameras at pelco.com/docs.

1. For best practices on positioning cameras for optimal performance, see the *Designing a Site with Pelco Smart Analytics* available at pelco.com/docs.
2. To upgrade your camera firmware, see the Pelco [Software Updates](#) page.
3. For instructions on using the Camera Configuration Tool (CCT) to claim and configure multiple cameras at once, see the *Camera Configuration Tool User Manual* at pelco.com/docs.
4. For instructions on using the Camera Web Interface to configure camera settings and features, see the relevant Pelco Camera Operations Manual at pelco.com/docs.

Pelco Troubleshooting Contact Information

For further assistance, contact Pelco Product Support at 1-800-289-9100 (USA and Canada) or +1-559-292-1981 (international).

Do not try to repair the unit yourself. Leave maintenance and repairs to qualified technical personnel only.

