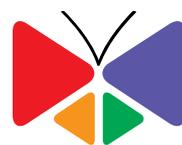




Mounting on the Ceiling Using Flush Mount (Face Down)

Installation Guide

2014/02/14



ACTi
Connecting Vision

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Safety Information

Read these instructions

You should read all the safety and operating instructions before using this product.

Heed all warnings

You must adhere to all the warnings on the product and in the instruction manual. Failure to follow the safety instruction given may directly endanger people, cause damage to the system or to other equipment.

Trademarks

All names used in this manual are probably registered trademarks of respective companies.

Liability

Every reasonable care has been taken during the writing of this manual. Please inform your local office if you find any inaccuracies or omissions. We cannot be held responsible for any typographical or technical errors and reserve the right to make changes to the product and manuals without prior notice.

Cleaning

Disconnect this video product from the power supply before cleaning.

Attachments

Do not use attachments not recommended by the video product manufacturer as they may cause hazards.

Do not use accessories not recommended by the manufacturer

Only install this device in a dry place protected from weather

Servicing

Do not attempt to service this video product yourself. Refer all servicing to qualified service personnel.

Damage Requiring service

Disconnect this video product from the power supply immediately and refer servicing to qualified service personnel under the following conditions.

- 1) When the power-supply cord or plug is damaged
- 2) If liquid has been spilled, or objects have fallen into the video product.
- 3) If the inner parts of video product have been directly exposed to rain or water.
- 4) If the video product does not operate normally by following the operating Instructions in this manual. Adjust only those controls that are covered by the instruction manual, as an improper adjustment of other controls may result in damage, and will often require extensive work by a qualified technician to restore the video product to its normal operation.

Safety Check

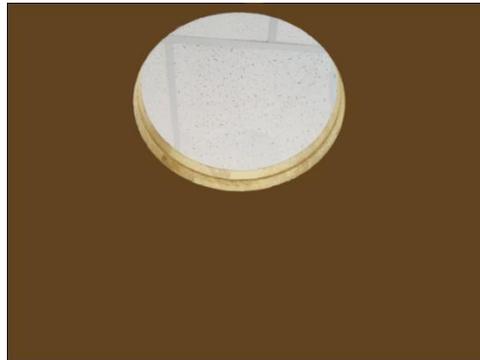
Upon completion of any service or repairs to this video product, ask the service technician to perform safety checks to determine if the video product is in proper operating condition.

Installation Procedures

This document contains procedures in installing cameras using Flush Mount accessories. Some procedures vary depending on camera models. The steps and pictures are for reference only. Refer to the camera hardware manual for other specific details about the camera cable, size, screw, etc.

Step 1: Drill a Hole on the Ceiling

Drill the hole on the ceiling where you want to mount the camera. The hole size may vary by camera models, refer to the drill template bundled with the camera for the appropriate size.



Step 2: Prepare for Waterproof Installation

NOTE: This section is applicable for outdoor dome cameras only.

The camera comes with two (2) glands used for waterproof installation:

- **Cable Gland:** For use with an **Exterior-grade Ethernet cable**. Exterior-grade Ethernet cables are already waterproof. See [Waterproof Solution with Naked Cable](#) on page 7.
- **Conduit Gland:** For use with a flexible conduit. This solution is recommended when an exterior-grade Ethernet cable is not available or when other input/output devices or external power adapter will be connected to the camera (select models only). See [Waterproof Solution with Conduit](#) on page 8.

Determine the type of waterproof solution that is applicable to your installation requirements and prepare the necessary accessories or purchase extra materials.

Cable Gland	Conduit Gland
	
<p>For use with an Exterior-grade Ethernet cable (not included in the package).</p>	<p>For use with a 3/8" flexible conduit (not included in the package).</p>
	<p style="text-align: center;">or</p> 
	<p>For use with 1/2" flexible conduit (not included in the package)</p>  <p>NOTE: The bundled conduit gland may vary. Check the conduit gland that came with your package to determine if 3/8" or 1/2" is the suitable flexible conduit size.</p>

Waterproof Solution with Naked Cable

This section describes the procedures in using the bundled cable gland and an exterior-grade Ethernet cable.

1. Disassemble the cable gland as shown below:



2. Skip to **Step 3: Prepare the Flush Mount** on page 10.

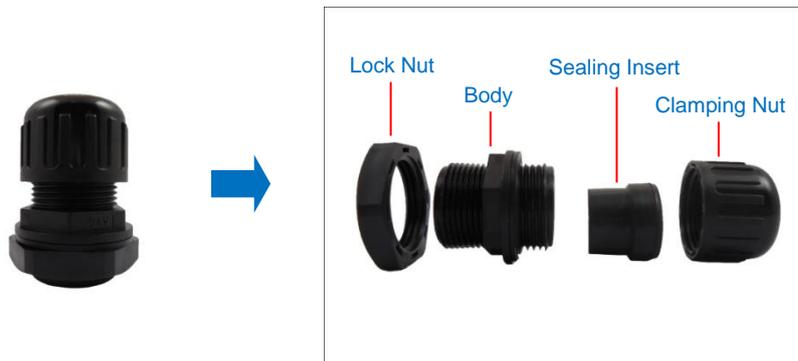
Waterproof Solution with Conduit

This section describes the procedures to waterproof the cabling connections using the bundled conduit gland and flexible conduit. This is the recommended when an exterior-grade Ethernet cable is not available or if other input/output devices or an external power adapter will be connected to the camera (select models only).

1. Prepare the following materials for waterproof installation:

Conduit Gland (included in the camera package)	
 For use with 3/8" flexible conduit	 For use with 1/2" flexible conduit
or	
Flexible Conduit 3/8" or 1/2" Trade size (not included in the package)	Network Cable CAT 5 or CAT 6 (not included in the package)
	
<p>NOTE: The bundled conduit gland may vary. Check the conduit gland that came with your package to determine if 3/8" or 1/2" is the suitable flexible conduit size.</p>	

2. Disassemble the bundled conduit gland as shown below:



NOTE: In this installation, the conduit gland body can be securely attached to the camera; therefore the use of lock nut is not necessary. Please set the lock nut aside.

3. Pull the network cable through the flex conduit.



Step 3: Prepare the Flush Mount

1. Route the flex conduit or network cable to dangle through the hole on the ceiling.



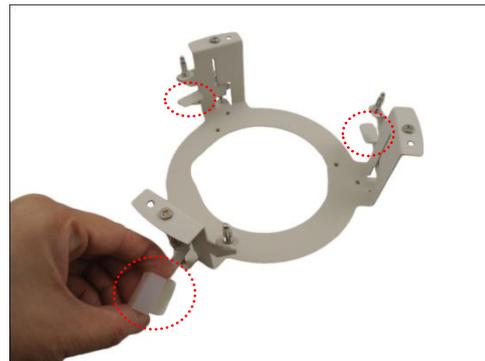
Using Flex Conduit

or

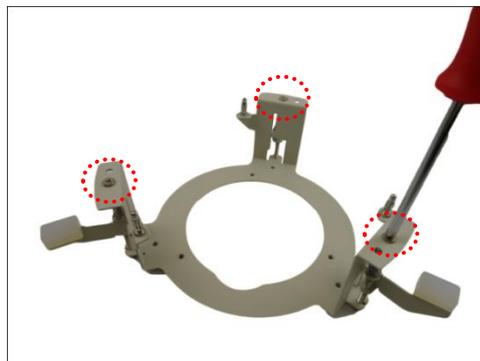


Using Naked Cable

2. Peel off the lining of the three (3) foam rubber pads and attach a rubber pad to each retaining bracket.



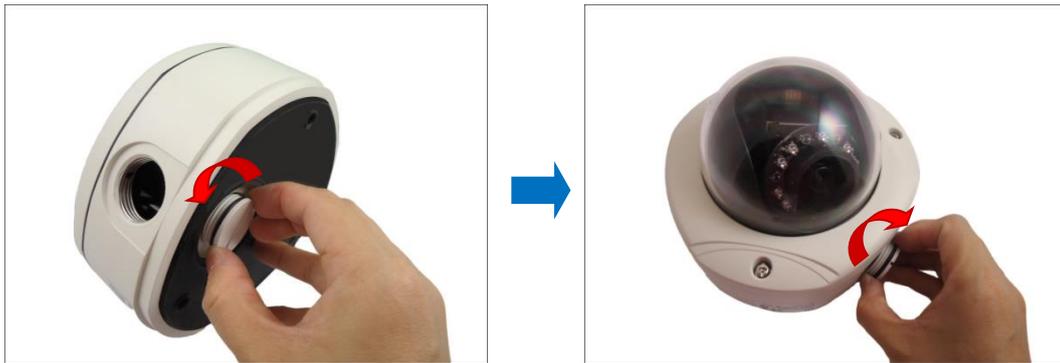
3. Using a screwdriver, loosen the retaining brackets according to the thickness of the ceiling.



Step 4: Open the Dome Cover

NOTE: Procedures may vary depending on camera model. Below steps is a reference for outdoor dome cameras.

1. Remove the plastic covering the camera.
2. Remove the metal cap covering the bottom conduit hole of the camera, and attach the cap to the side conduit hole to close it.



3. Loosen the three (3) screws securing the dome cover.



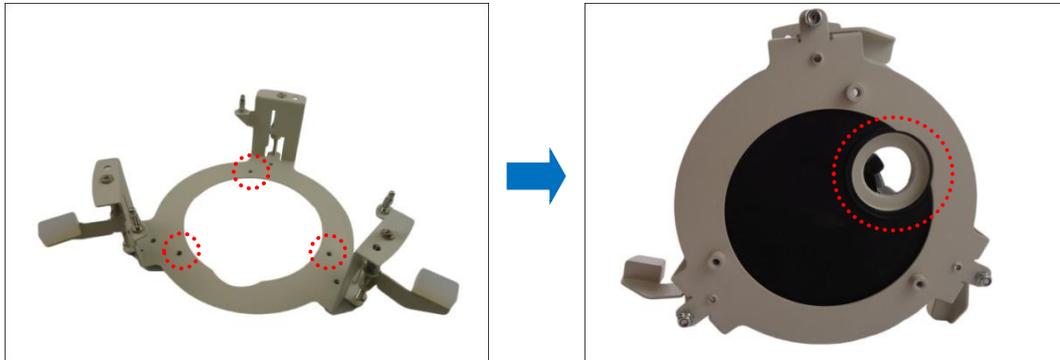
4. Carefully lift to open the dome cover and place it on the side of the camera.

NOTE: Do not abruptly lift the dome cover; it is attached to the camera with a spring wire.



Step 5: Install the Camera

1. If necessary, insert a memory card (not supplied) into the card slot of the camera.
2. Align the screw holes and conduit hole of the camera to the mount.



3. Attach the three (3) screws (included in the flush mount package) to secure the camera to the mount.



⚠ CAUTION: *When using electric screwdrivers*, be careful not to touch the internal camera components while attaching the screws. Since electric screwdrivers vary in sizes, speed, and force, they may bruise and damage the internal camera components.

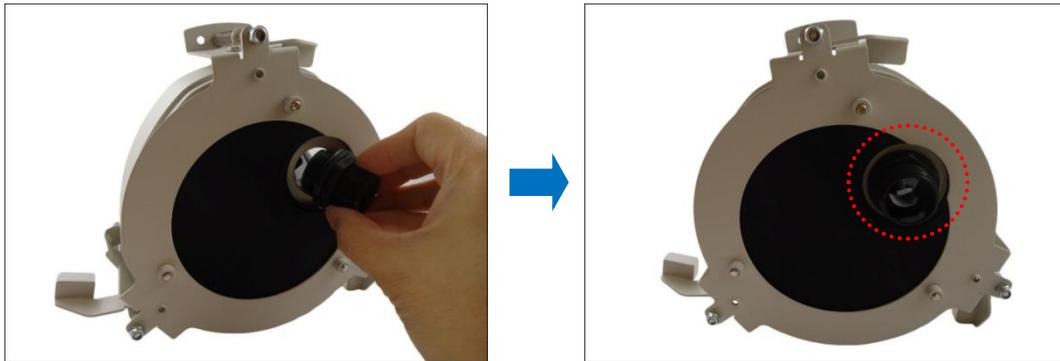
DISCLAIMER: ACTi will not be responsible for camera damage caused by improper installations or the misuse of equipment for installation.

Step 6: Connect the Cable(s)

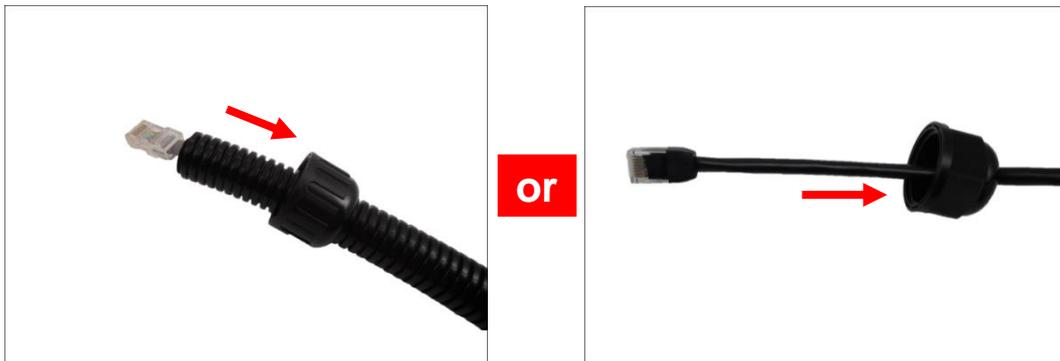
For indoor models, simply connect the cable(s) to the camera connectors. Then skip to the next section, [Step 7: Install the Mount](#) on page 17.

For outdoor dome cameras, you may refer to the procedures below for more details on cabling.

1. Tightly attach the gland body to the conduit hole of the camera.



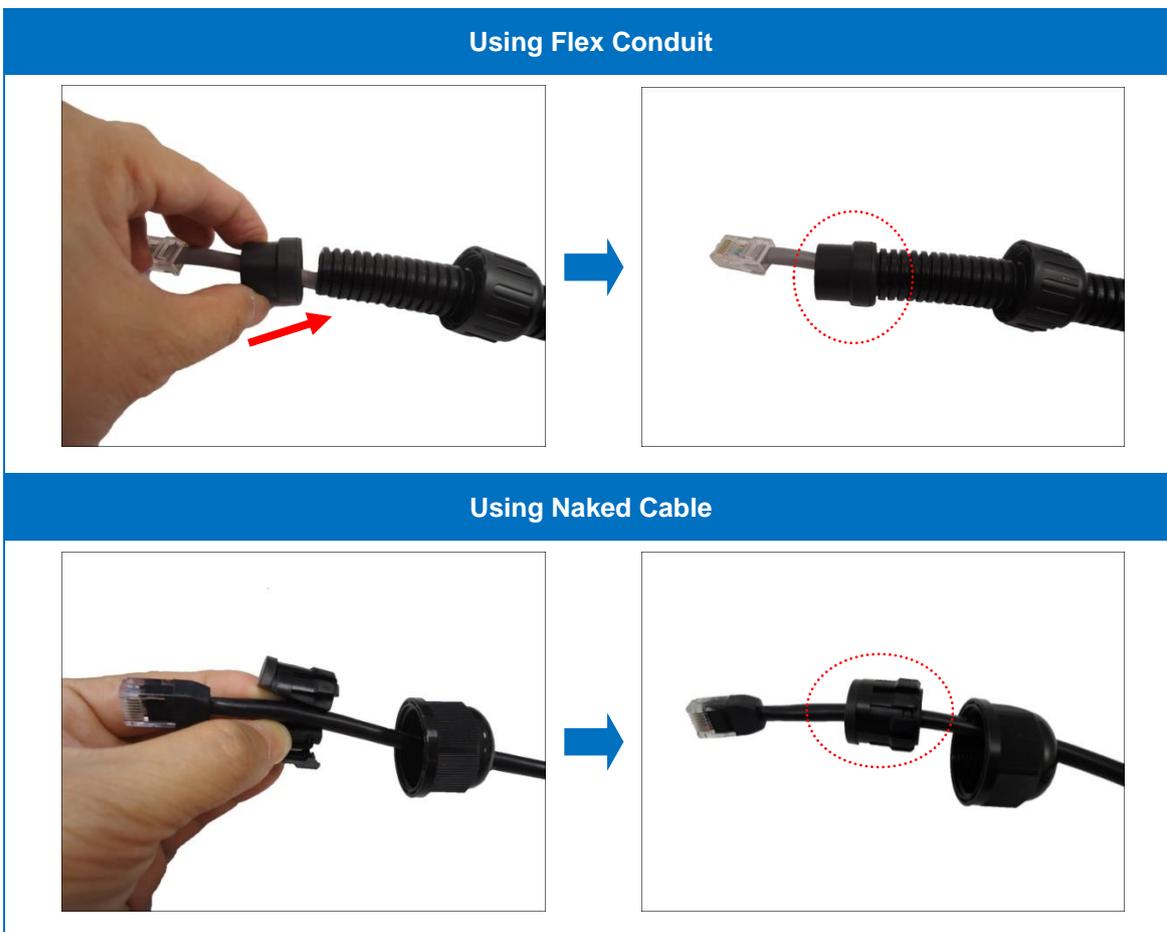
2. Insert the clamping nut.



Using Flex Conduit

Using Naked Cable

- 3. Insert the sealing insert. For flex conduit solution, attach the sealing insert at the end of the flex conduit.



- 4. Pull the network cable through the camera conduit hole.



NOTE: For camera models that support external power adaptor, audio in/out, or digital input/output (DI/DO) functions, route the cables without connectors through the flex conduit together with the network cable. Once cables pass through the conduit hole of the camera, attach the bundled connectors.

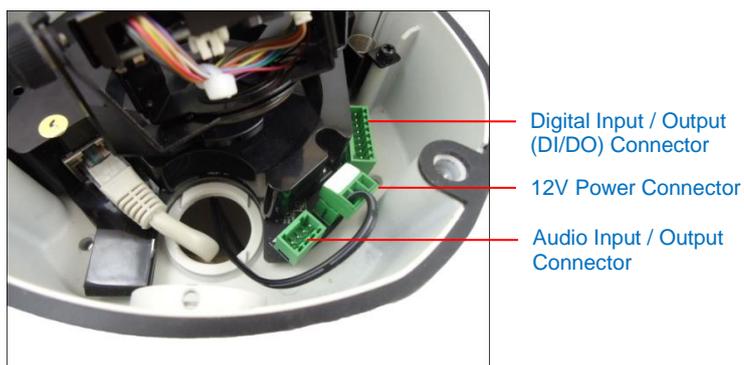


NOTE: For more information on connecting these cables, please refer to the camera model hardware manual downloadable from the website (www.acti.com).

- 5. Connect the network cable to the Ethernet port of the camera.

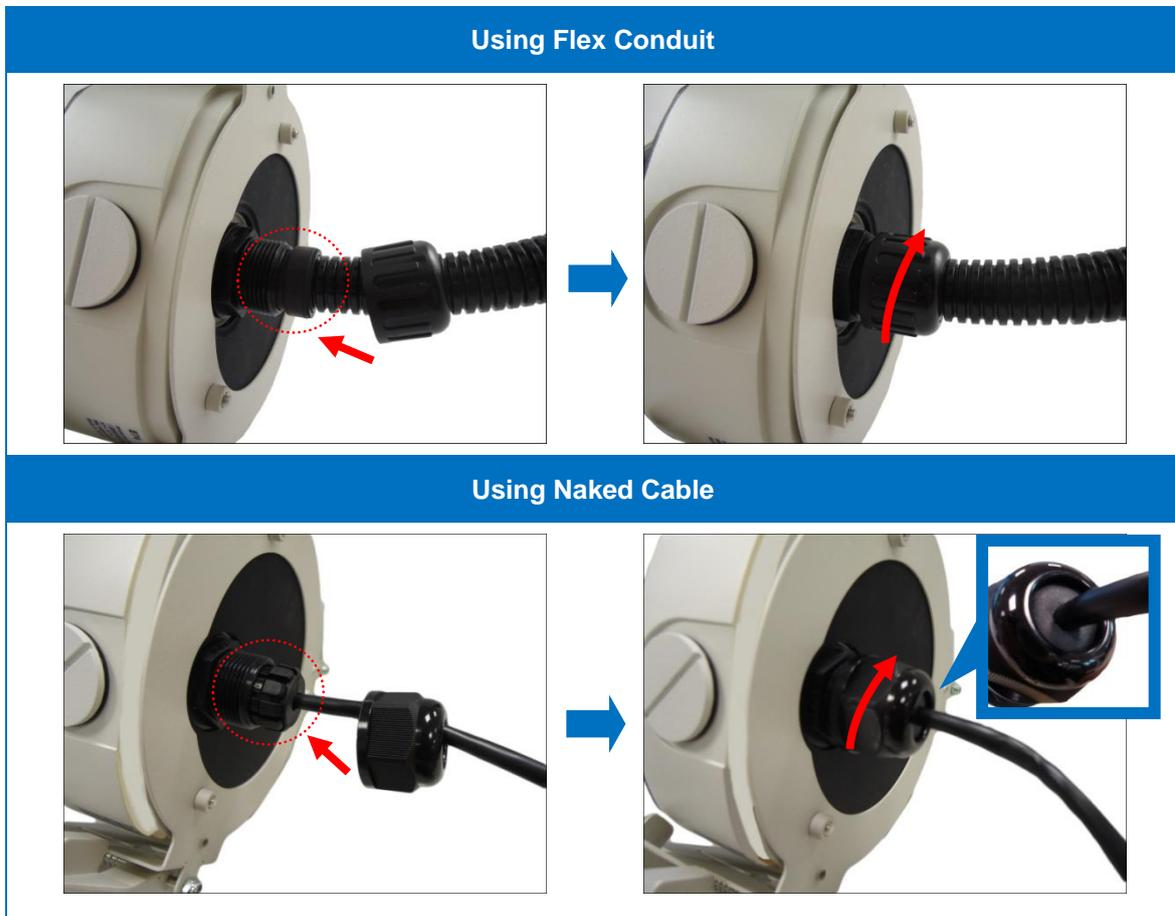


NOTE: For models with other connectors (e.g. power adaptor, DI/DO, etc.), connect the cables to their corresponding connectors. Sample image below.



For more information on connecting these cables, please refer to the camera model hardware manual downloadable from the website (www.acti.com).

6. Insert the sealing nut into the gland body and then attach the clamping nut to complete the cable solution.



NOTE: Make sure the clamping nut is tightly attached to the gland body to avoid water leak.

Step 7: Install the Mount

1. Insert the flush mount through the hole on the ceiling.



2. Position the retaining brackets to hold the mount on the ceiling.



NOTE: The following illustration shows how the flush mount will look like when viewed from inside the ceiling. In case you cannot access inside the ceiling, use your fingers to position the retaining brackets through the hole.



3. Tighten the screws to secure the mount to the ceiling.



Step 8: Access the Camera Live View

Refer to the camera hardware manual for details on how to access the camera live view.

Step 9: Adjust the Viewing Angle and Focus

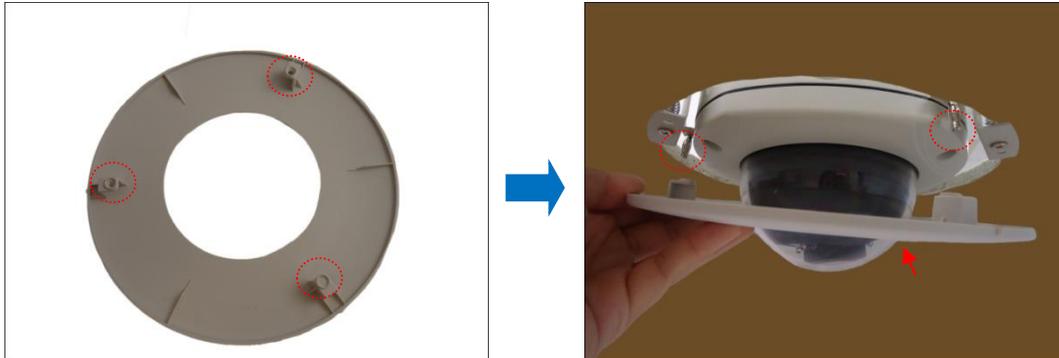
Based on the Live View, adjust the viewing angle and orientation of the camera. Adjustments vary per model, refer to the camera hardware manual for detailed information.

Step 10: Close the Dome Cover

Close the dome cover of the camera.

Step 11: Attach the Mount Cover

1. Align the metal latches and the latches on the flush mount cover.



2. Push to firmly secure the flush mount cover latches.



The mounted camera should look like the image below.

