

Vandal Proof/ Lightweight Fixed Dome IP Camera

Installation Guide

Indoor/Outdoor

User Name: Admin

Password: 1234

Ver. 1.1

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1. Indoor Camera Installation

1.1 Hard Ceiling

The Fixed Dome IP Camera can be installed directly on a wall or ceiling. Please note that the wall or ceiling must have enough strength to support the IP Dome Camera.

Items Needed:

- Vandal Proof/Lightweight Fixed Dome IP Camera
- Ethernet Cable
- DC Jack Cable (supplied; only necessary if not using PoE)
- Self-tapping Screws (supplied)
- Plastic Screw Anchors (supplied)

Tools Needed:

- Tool for drilling
- (+,-) Screw Drive

Follow the steps below to install the IP Dome Camera:

Step 1:

Unpack the Vandal Proof/ Lightweight Fixed Dome IP Camera package and take out the IP Dome Camera.

Step 2:

Release the 2 captive Security Screws with the supplied Security Torx and open the Dome Cover.

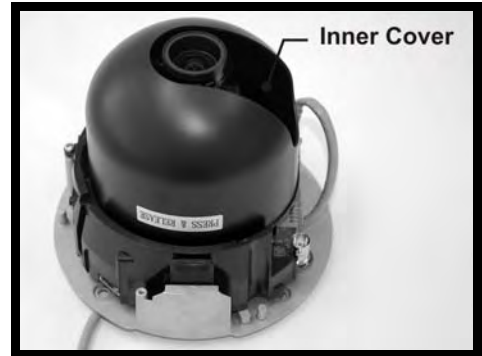


Figure-1:
Captive Security Screw



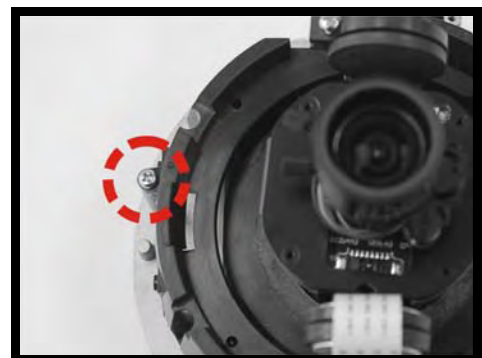
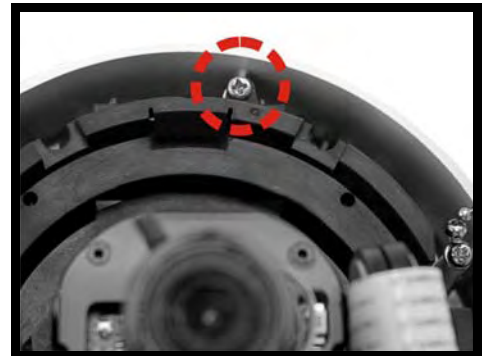
Step 3:

Press both sides of the Inner Cover and remove it from the Camera Module.



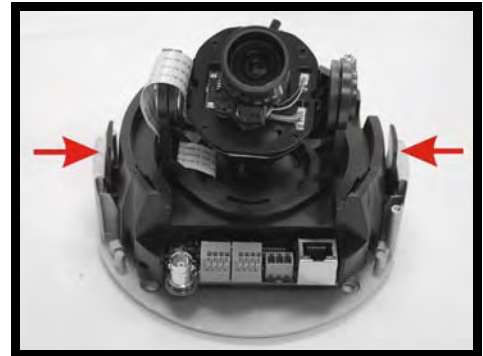
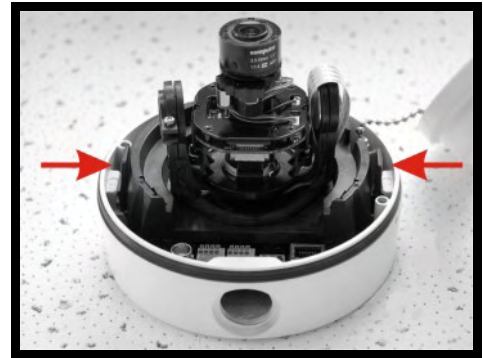
Step 4:

Unscrew the Module-fastened Screw, as indicated in the figure, with the screw driver.



Step 5:

Press the sides of the Snap-on Camera Module, as indicated in the figure, and detach it from the Dome Camera's Housing/ Plate.



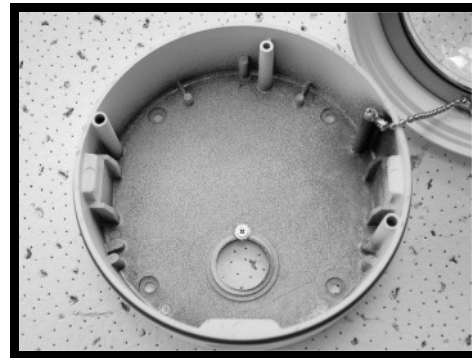
Step 6:

Mark the positions of the four screw holes on the base of the Dome Camera at the chosen installation location.

Vandal Proof IP Dome Camera

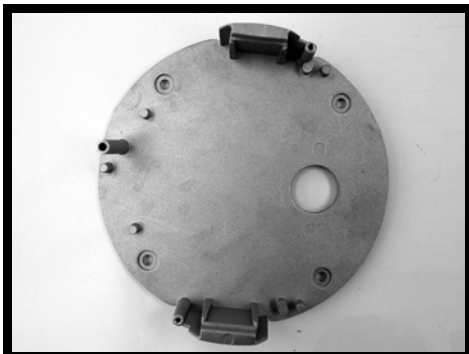


Type 1



Type 2

Lightweight Fixed Dome IP Camera



Step 7:

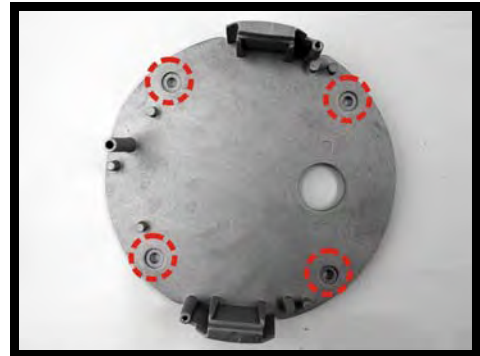
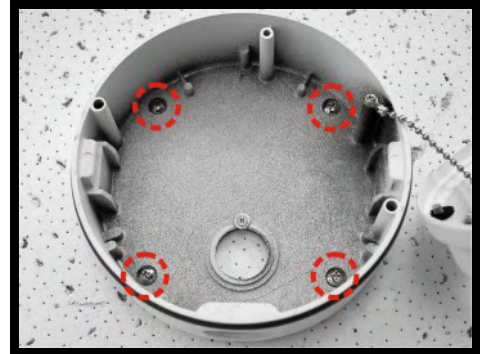
In the marked locations, drill each hole slightly smaller than the supplied Screw Anchors.

Step 8:

Put supplied Anchors into these drilled holes.

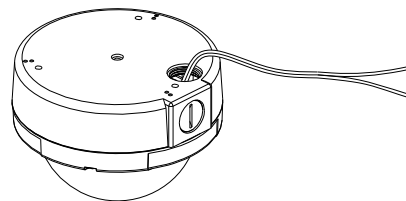
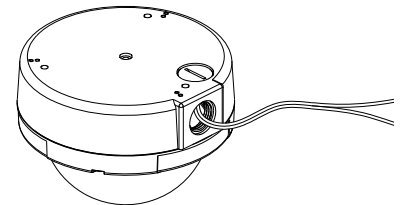
Step 9:

Fasten the Dome Camera's Housing/ Plate with the four supplied Self- tapping Screws.



Step 10:

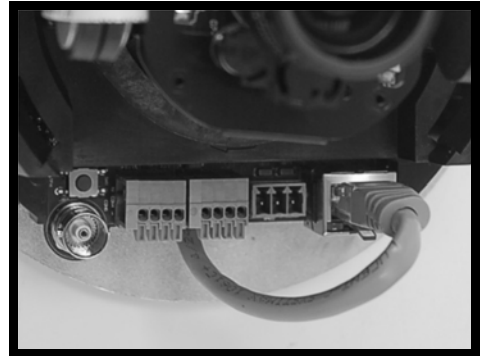
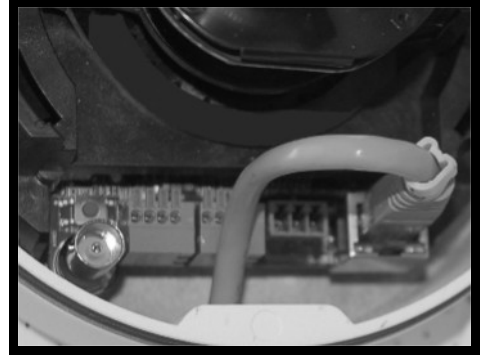
Thread the cables (Power/ Ethernet/ Audio/ Alarm) through either the side conduit entry or back conduit entry, as illustrated. Users may use a coin to screw off the conduit entry block for Vandal Proof IP Dome Camera.



NOTE: The Power Cable is omitted if using PoE.

Connect the Cable(s) to the Unit

Connect the ports (on the Camera Module) with their cables/wires respectively, as shown in the figures.



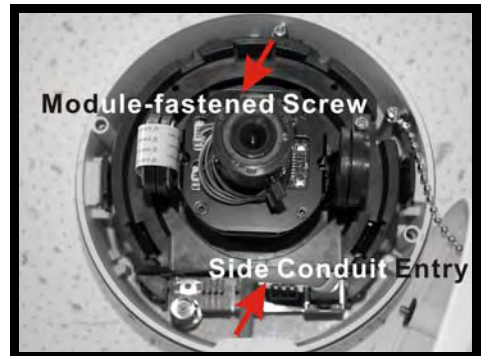
Step 11:

Attach the Snap-on Camera Module into/ on the Dome Camera Housing/ Plate, and screw the Module-fastened Screw tightly with the screw driver to secure the Camera Module.

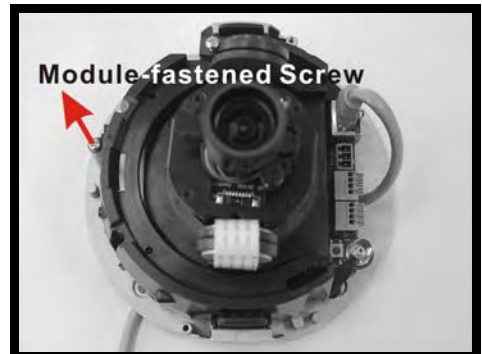


NOTE: The terminal blocks should face the side conduit entry for Vandal Proof IP Dome Camera, as shown in the figure.

Vandal Proof



Lightweight



Step 12:

Connect the power and network outputs.



NOTE: The Power Cable is omitted if using PoE.

STEP 13:

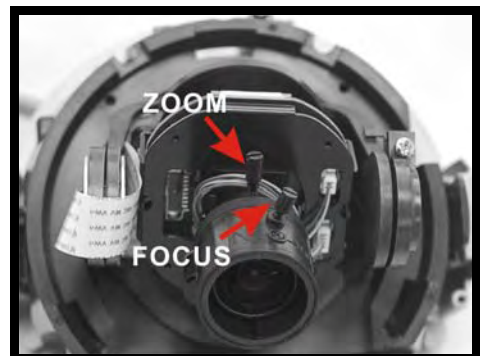
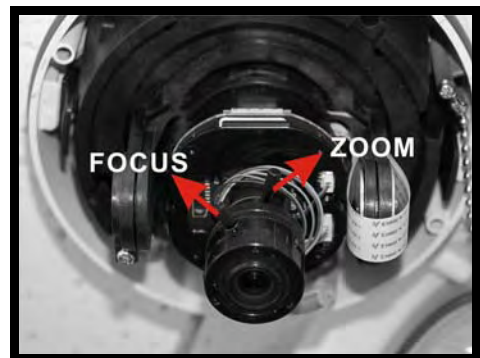
Access the Camera Browser-viewer for viewing images. Please refer to User's Manual for further details. Users can also use the Camera's BNC Connector for video output while choosing BNC as one streaming in advance.

Step 14:

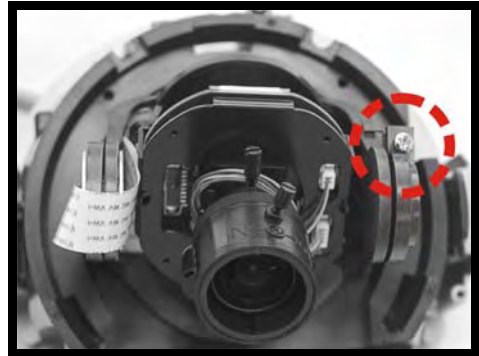
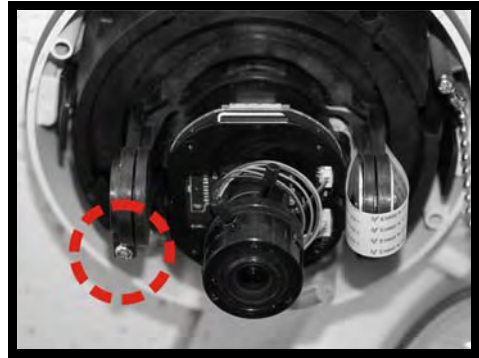
Adjust the Camera's zoom level and focal length via Zoom and Focus Ring Screws.



NOTE: The zoom level and focal length might be different with the Dome Cover on, in this case, adjusting zoom level and focal length through the Dome Cover is recommended.

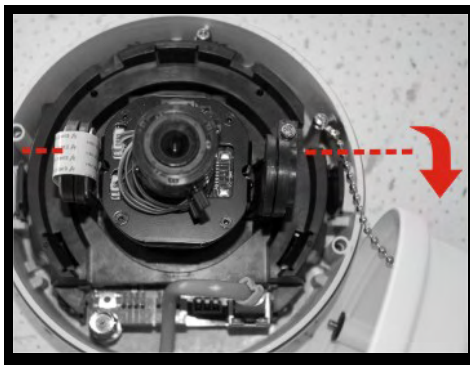


Adjust the Zoom Ring Screw to set the desired zoom; subsequently, modifying the Focus Ring Screw to set the desired focal length.

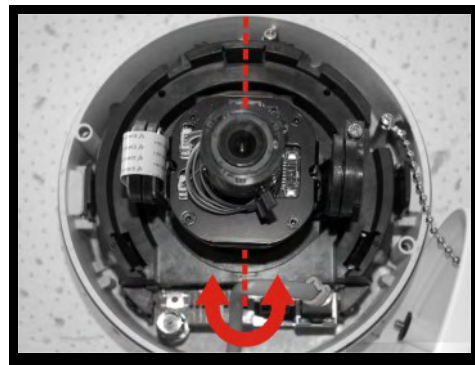


Step 15:

Adjust the Camera's Pan/Tilt holder to a desired angle, as shown below. Pan adjustment range is nearly 360°; rotation angle range approaches to 270°. Tilt is adjustable between - 10° ~ 90°.



Pan Adjustment



Tilt Adjustment



NOTE: Adjust the Lens carefully within the limits mentioned above, or the cables underneath would be harmed.

STEP 16:

Put the Inner Cover back to the Camera Module.

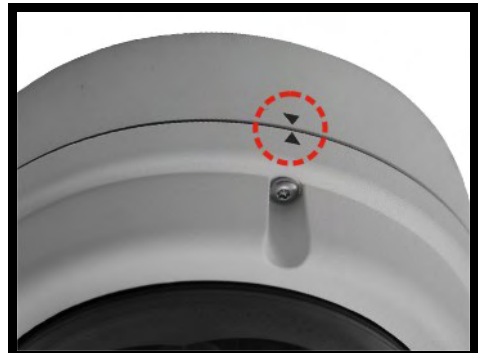


STEP 17:

Replace the Dome Cover back.

For Vandal Proof IP Dome Camera, please align the arrow mark on the Dome Cover with the one on the Housing as shown in the top figure.

Vandal Proof



For Lightweight Fixed Dome IP Camera, please align the arc area on the Dome Cover with the back conduit entry as shown in the bottom figure.

Lightweight



STEP 18:

Screw on the two Torx Screws on the side of the Dome Cover tightly to fasten the Dome Cover. Camera installation is complete.



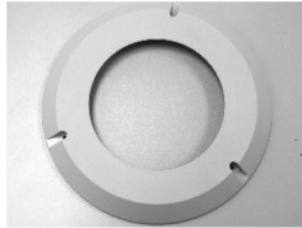
1.2 In-Ceiling (T-Bar) Mounting

The indoor Dome Camera can be mounted with the optional accessory: In-Ceiling (T-Bar) Mount. The items and tools needed for in-ceiling installation are listed as follows.

In-Ceiling Mount Package Contents:



In-Ceiling Mount

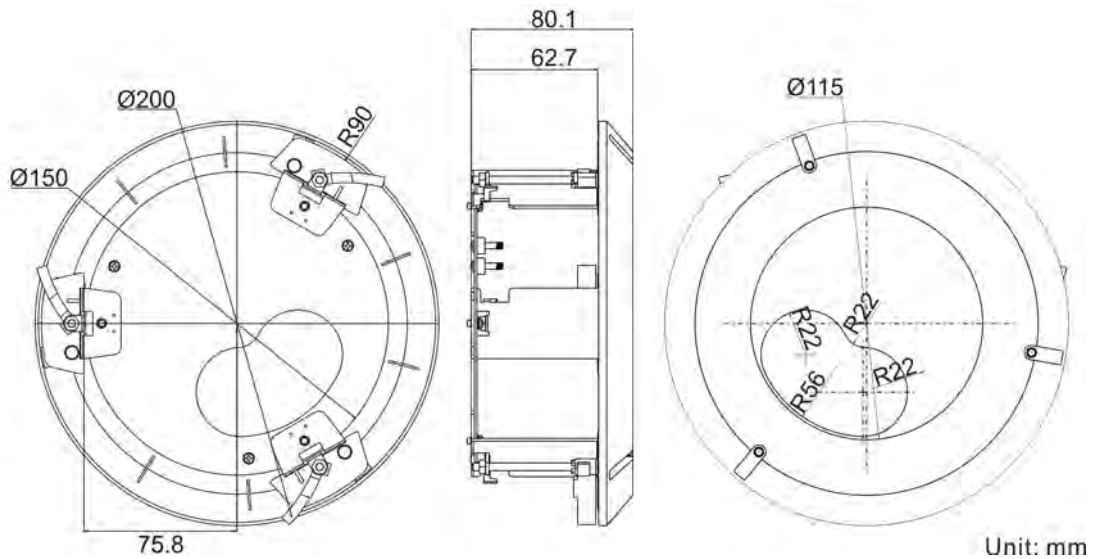


Trim Ring



Ceiling Sticker

In-Ceiling Mount Dimension:



Tools Needed:

- Tool for drilling
- Phillips Screw Driver
- Security Torx provided



Follow the steps below to install the In-Ceiling (T-Bar) Mounting:

Step 1:

Release the 2 captive Security Screws with the supplied Security Torx and open the Dome Cover.

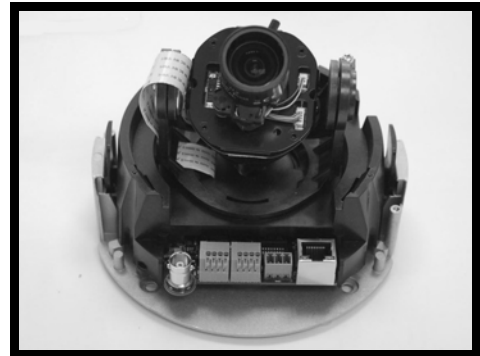


Figure-1:
Captive Security Screw

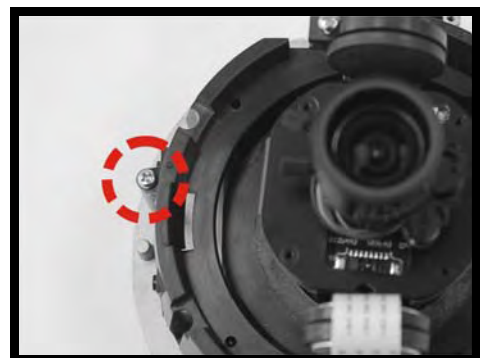
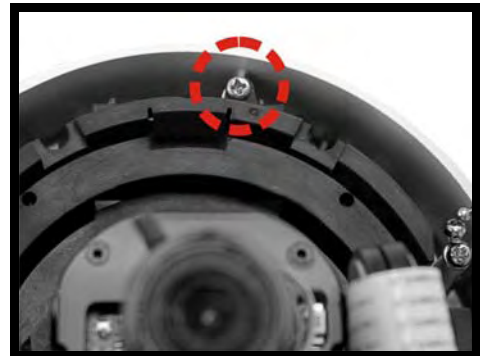


Step 2:

Press both sides of the Plastic Inner Cover and remove it from the Camera Module.

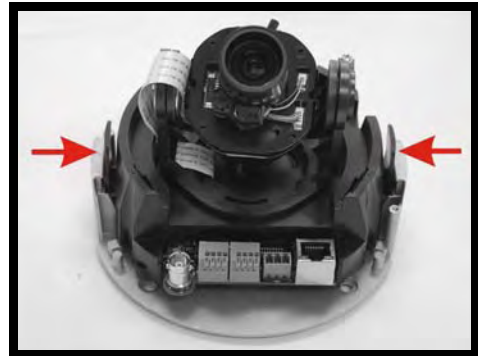
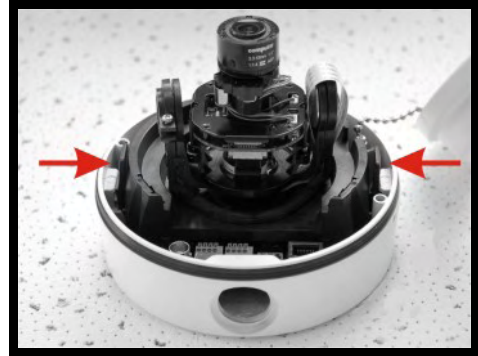


Unscrew the Module-fastened Screw, as indicated in the figure, with the screw driver.



Step 3:

Press the sides of the Snap-on Camera Module and detach it from the Dome Camera's Housing/ Plate.

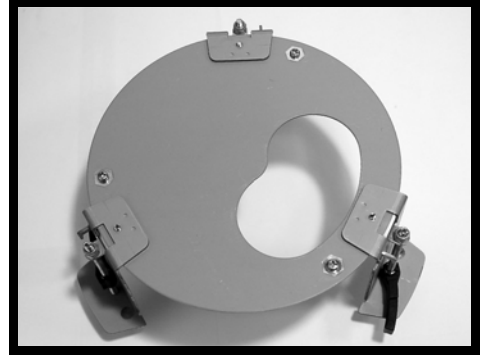


Note: Users may use a coin to screw off the conduit entry block for Vandal Proof IP Dome Camera.

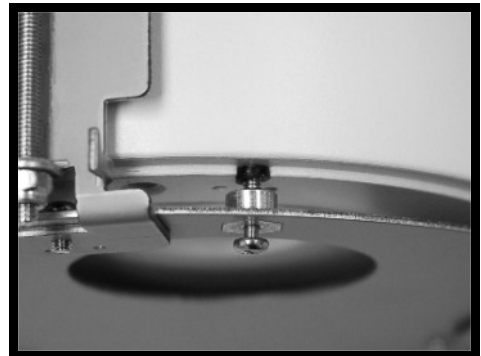
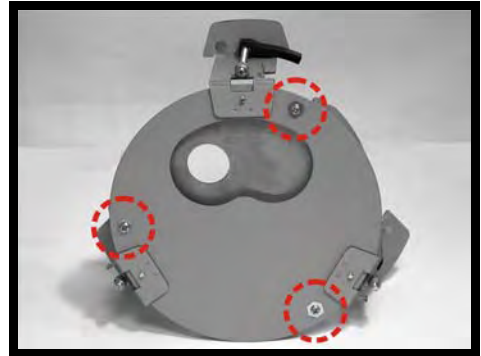


Step 4:

Attach the Camera Housing/ Plate's base to the In-Ceiling Mount's top plate, aligning the camera's rear cable entry with the entry hole on the In-Ceiling Mount's top plate.

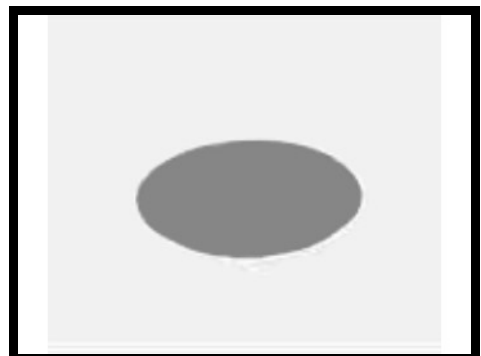


Align the three Captive Screws with the mating screw holes on the Camera Housing/ Plate's base. Then tighten the three Captive Screws as shown in the figure.



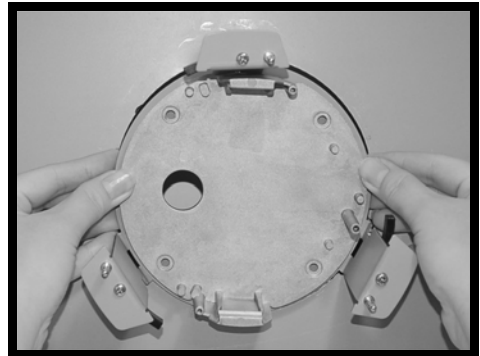
Step 5:

Position the supplied adhesive-backed Ceiling Sticker (Diameter: 176 mm) onto the ceiling where the Camera will be mounted, and cut the ceiling hole using the template as a guide.



Step 6:

Insert the Dome Camera with the attached In-Ceiling Mount into the opening and run the Ethernet cable through the desired cable entry.

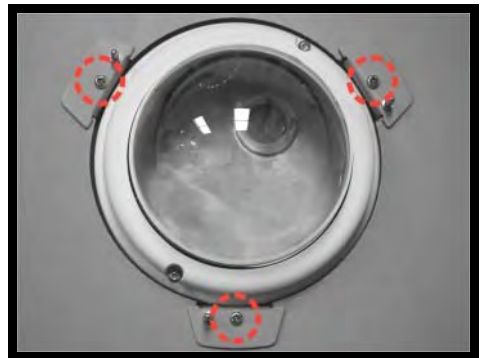


Step 7:

Secure the Unit to the ceiling:



Note: Do Not over-tighten the three fixing screws. If using a power tool the slip clutch should be set to the lightest setting or the clamps could be damaged.



The In-Ceiling Mount's Wing Clamps will draw the Dome Camera Housing/Plate to the ceiling board until it is completely flush with the board.

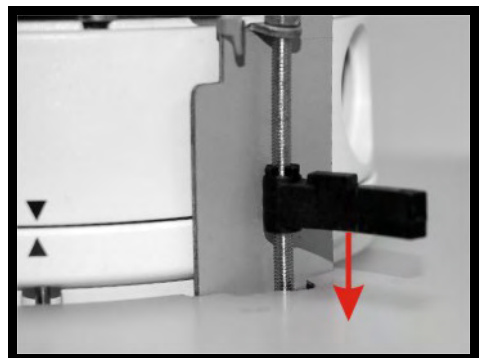
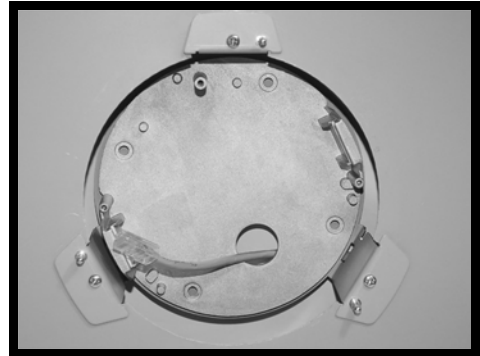


Figure-1:

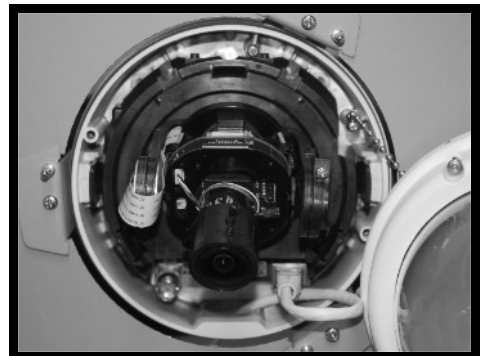
Bottom View of installed In-Ceiling Mount.



Step 8:

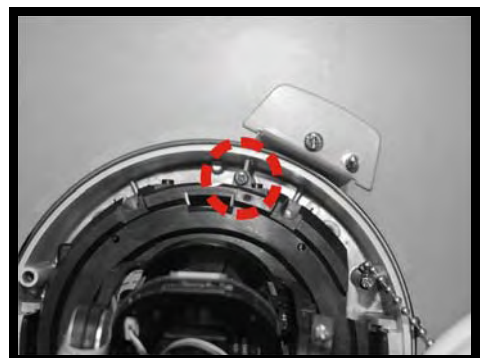
Attach the Snap-on Camera Module to the Dome Camera Housing/ Plate.

For Vandal Proof IP Dome Camera, please install the Camera Module with the terminal blocks facing the side cable entry.



Step 9:

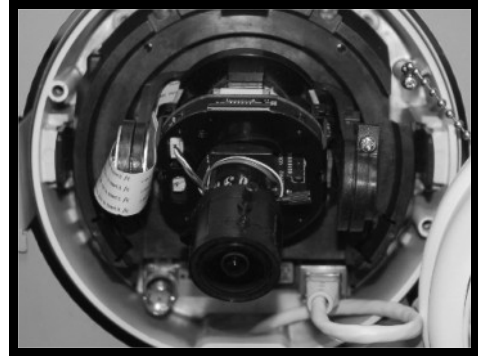
Tighten the Module-fastening Screw.



Step 10:

Connect the Ethernet cable to the camera's network connector.

Refer to the Camera Quick Guide for details regarding the Camera Connector Definition.

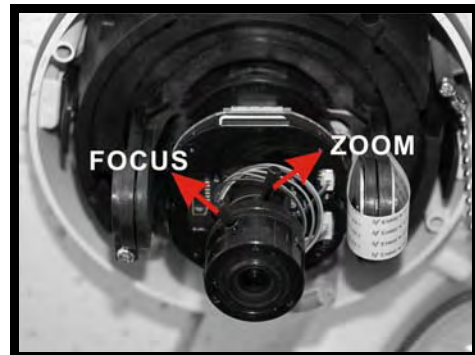


Step 11:

Access the Camera Browser-viewer for viewing images. Please refer to Chapter [Accessing Camera](#) in IP Camera User's Manual for further details. Users can also use the Camera's BNC Connector for video output.

Step 12:

Adjust the Zoom Ring Screw to set the desired zoom; subsequently, modifying the Focus Ring Screw to set the desired focal length.



Step 13:

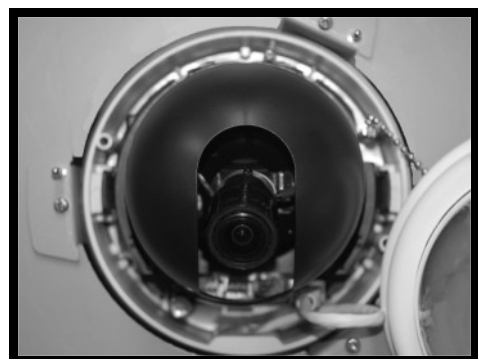
Adjust the Camera to a desired angle by adjusting Pan/Tilt/Rotation. Pan adjustment range is nearly 360°; rotation angle range approaches to 270°. Tilt is adjustable between - 10° ~ 90°.



NOTE: Adjust the Lens carefully within the limits mentioned above, or the cables underneath would be harmed.

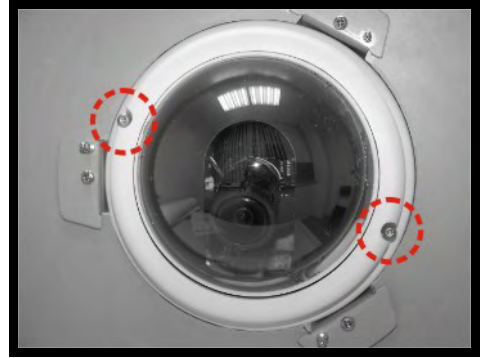
Step 14:

Reinstall the Plastic Inner Cover.



Step 15:

Close the Dome Cover and tighten the two Security Screws.



Step 16:

Align the 3 holes in the Trim Ring with the retaining Nut on the In-Ceiling Mount and snap the Trim Ring in place to complete the installation.



1.3 4S Mount Electrical Box

Before installing the IP Dome Camera in the 4S Electrical Box, please unscrew and open the Dome Cover with the Security Torx.

Follow the steps below to install the 4S Mount Electrical Box:

Figure: 4S Mount Electrical Box



STEP 1:

Run the wires (Ethernet and power) through the wall.



NOTE: The Power Cable is omitted if using PoE.

STEP 2:

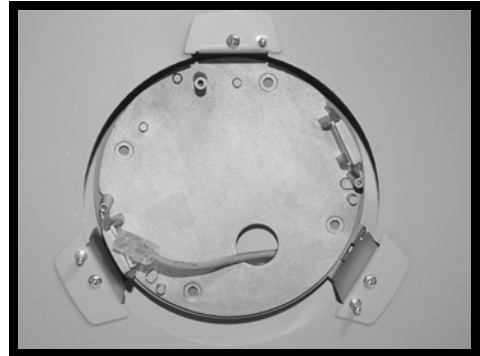
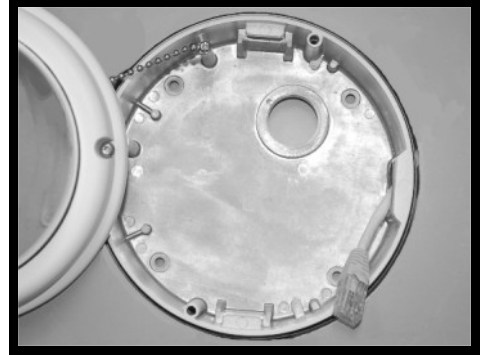
Disassemble the Dome Camera's Inner Cover (see the illustration in [1.1 Hard Ceiling: Step 3](#)) from the Camera Module.

STEP 3:

Detach the Snap-on Camera Module from the Dome Camera's Housing/ Pleat by unscrewing the Module-fastened Torx Screw first. Then press the sides of Camera Module and pull it slightly out of the Housing/ Plate.

STEP 4:

Thread the power and Ethernet cables through either the side conduit entry or back conduit entry. Then fasten the Dome Camera's Housing/ Plate on the Electrical Box with the two screws.



STEP 5:

Connect the power and Ethernet cables to their connectors on the Camera Module.

STEP 6:

Attach the Snap-on Camera Module into/ on the Dome Camera's Housing/ Plate. Screw on the Torx Screw to secure the Camera Module.

STEP 7:

Access the camera browser-viewer for viewing images. Please refer to the Dome Camera User's Manual for further details. Users can also use the Camera's BNC Connector for video output.

Step 8:

Adjust the camera's zoom level and focal length via Zoom and Focus Ring Screws.

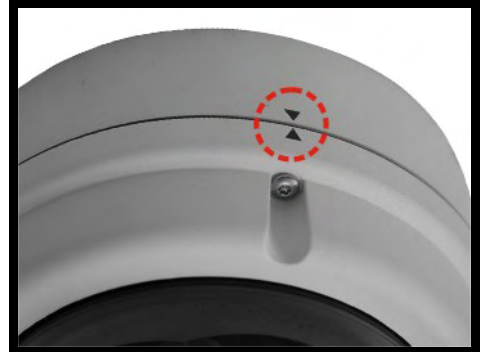
STEP 9:

Position the Camera at a desired angle through PTZ adjustment. Please refer to the last section for illustration.

STEP 10:

Replace the Dome Cover back.

For Vandal Proof IP Dome Camera, please align the arrow mark on the Dome Cover with the one on the Housing as shown in the top figure.



For Lightweight Fixed Dome IP Camera, please align the arc area on the Dome Cover with the back conduit entry as shown in the bottom figure.



STEP 11:

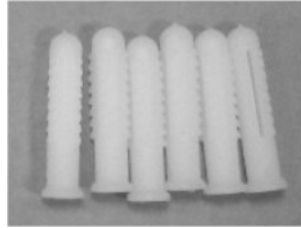
Screw on the two Torx Screws on the side of the Dome Cover tightly to fasten the Dome Cover. Camera installation is complete.

1.4 Corner Mounting

Corner Mount Kit Package Contents:



Corner Mount



M4 Plastic Anchors (x 6)

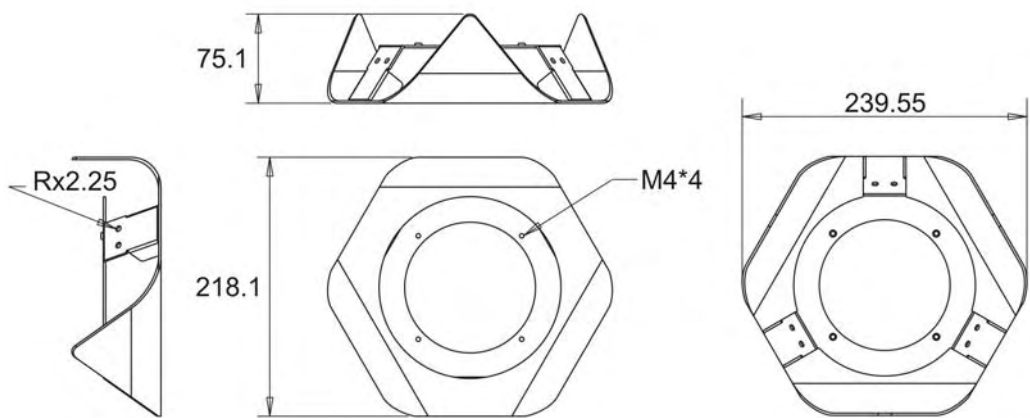


M4 Self-tapping Screws (x 6)



M4 Mechanical Screws (x 4)

Corner Mount Dimension:



Unit: mm

Tools Needed:

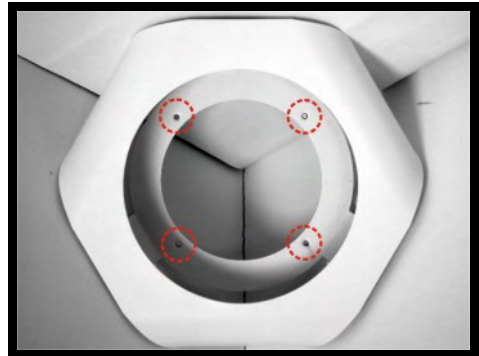
- Tool for drilling
- Phillips Screw Driver
- Security Torx (Supplied)



Follow the steps below to install the Corner Mount:

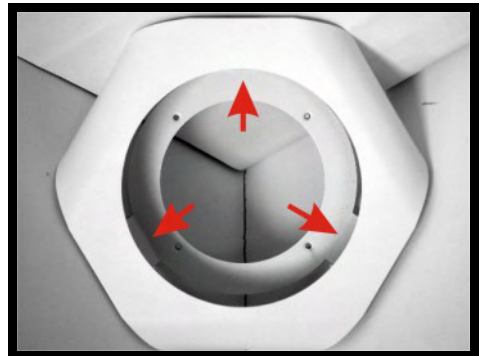
Step 1:

Match the Corner Mount at the ceiling corner. Please note that the Dome Camera's Housing/ Plate installing holes are in position as the right figure.

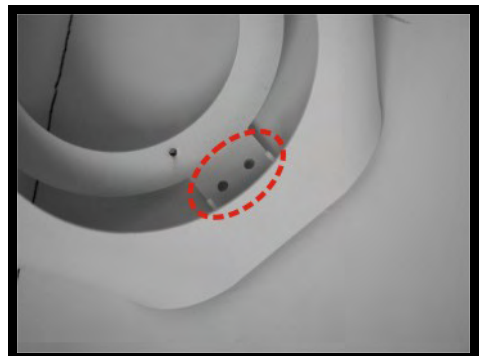


Step 2:

Drill six holes on the wall and the ceiling to install six M4 plastic anchors.



Fix the Corner Mount on the Ceiling by fastening six M4 Self-tapping Screws in the Plastic Anchors.

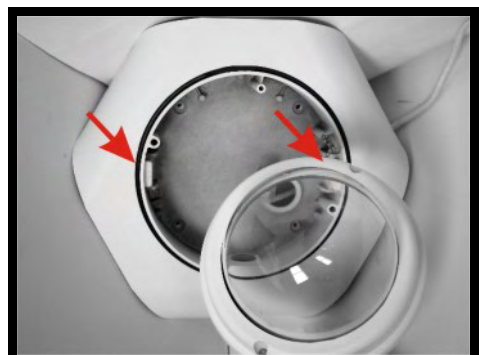


Step 3:

Place the Dome Camera's Housing/ Plate in the Corner Mount.

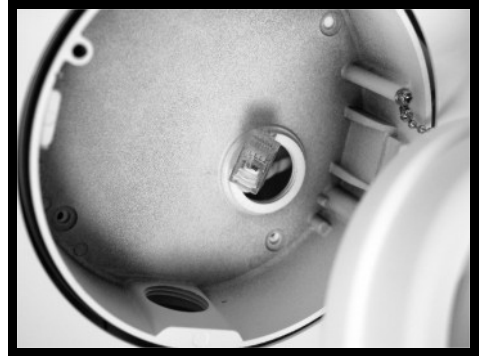


NOTE: Please note that the Snap-on Camera Module is in position as the figure.



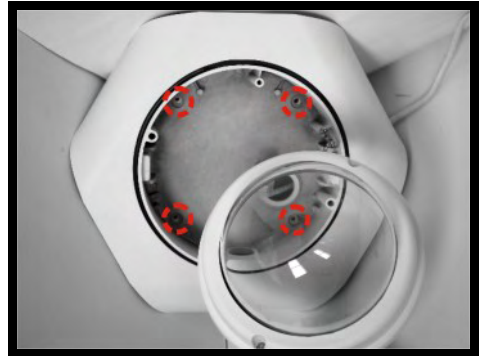
Step 4:

Thread the RJ-45 cable through the Dome Camera's Housing/ Plate.



Step 5:

Tighten the four M4 Mechanical Screws to install the Dome Camera's Housing/ Plate in the Corner Mount.



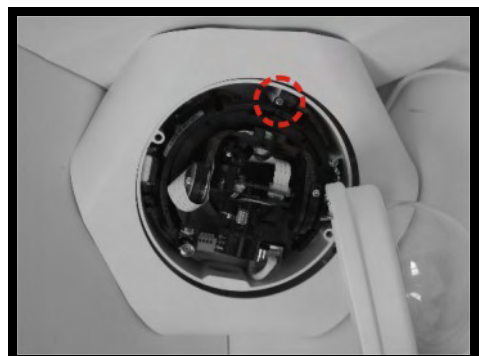
Step 6:

Place the Camera Module into the Dome Camera's Housing/ Plate until there is a "click" sound.



Step 7:

Tighten the screw on the Camera Module to fix the Camera Module on the Dome Camera's Housing/ Plate.

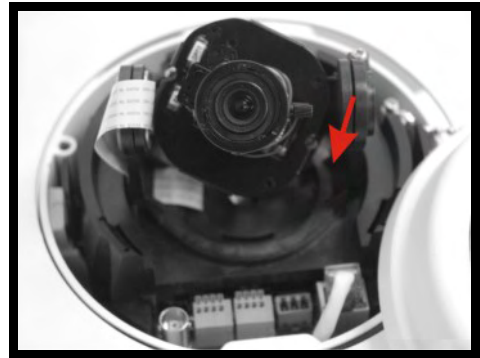


Step 8:

Connect the RJ-45 cable to the Camera Module, and then adjust the Dome Camera lens to a desired angle.



NOTE: The zoom level and focal length might be different with the Dome Cover on, in this case, adjusting zoom level and focal length through the Dome Cover is recommended.



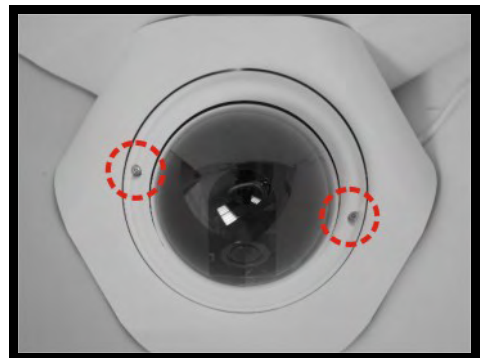
Step 9:

Install the Inner Cover on the Camera Module.



Step 10:

Place the Dome Cover back in position, tighten the two Torx Screws with the supplied Security Torx.



2. Outdoor Camera Installation

The Outdoor Vandal Proof Fixed Dome IP Camera could be mounted on the wall with the Standard/ Compact Pendant Mount for monitoring convenience.

2.1 Standard/Compact Pendant Mounting

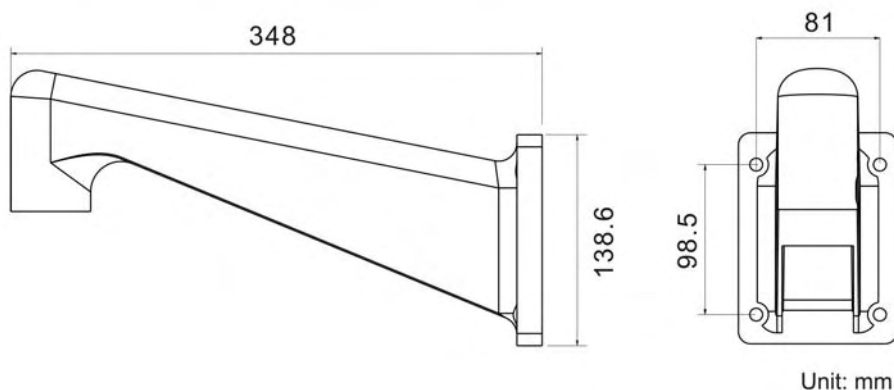
Standard Pendant Mount Package Contents:

- M8x16 Hex Head Stainless Steel Screw (Qty:x1)
- Rubber Washer-8 (Qty:x1)
- Pendant Tube Washer (Qty:x1)
- Spring Washer-8 (Qty:x5)
- Plain Washer-8 (Qty:x4)
- M8x30 Hex Head Machine Screw (Qty:x4)
- Sponge (Qty:x2)

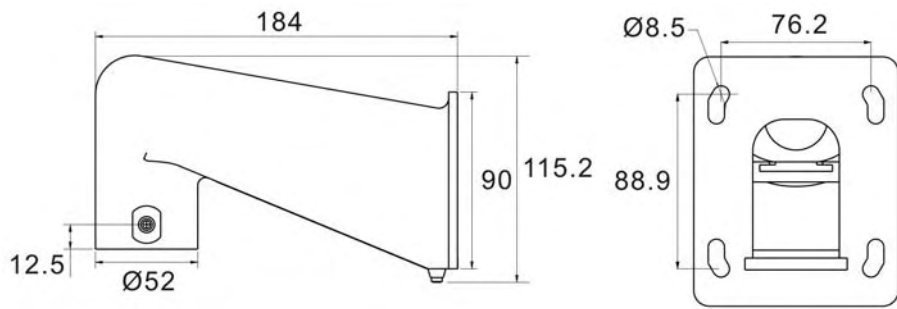
Compact Pendant Mount Package Contents:

- M8x16 Hex Head Stainless Steel Screw (Qty:x1)
- Rubber Washer-8 (Qty:x1)
- Pendant Tube Washer (Qty:x1)
- Spring Washer-8 (Qty:x1)
- Sponge (Qty:x1)

Standard Pendant Mount Dimension:



Compact Pendant Mount Dimension:



Unit: mm

Tools Needed:

- Tool for drilling
- Tool for screwing
- Security Torx (supplied)

Follow the steps below to install the Standard/ Compact Pendant Mount:

Step 1:

Unscrew the Security Torx Screws with the supplied Security Torx Driver and open the Dome Cover.



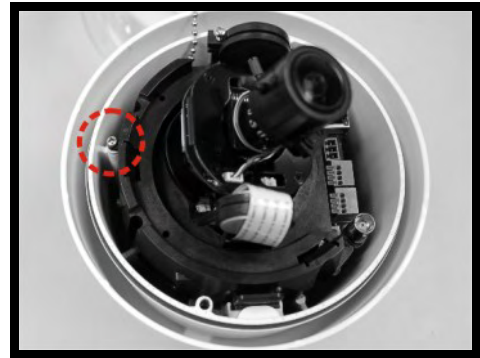
Step 2:

Press both sides of the Inner Cover and remove it from the Camera Module.



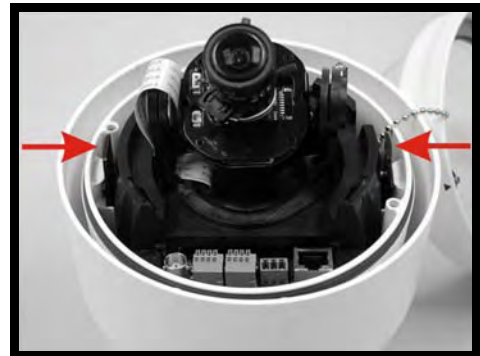
Step 3:

Unscrew the Module-fastened Torx Screw, as indicated in the figure.



Step 4:

Press the sides of the Snap-on Camera Module, as indicated in the figure, and detach it from the Dome Camera's Housing.



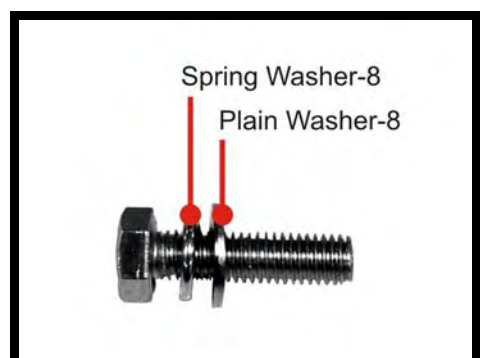
Step 5:

Fasten the Standard/ Compact Pendant Mount onto the wall securely Run the Ethernet cable through the Standard/ Compact Pendant Mount as shown in the figure.



M8x30 Hex Head Machine Screw (for Standard Pendant Mount only):

The Standard Pendant Mount is supplied with four M8x30 Hex Head Machine Screws for the convenience of installation by fastening the Pendant Mount with other metal part together.



Step 6:

Thread the Ethernet cable through the entry of the Dome Camera's Housing.



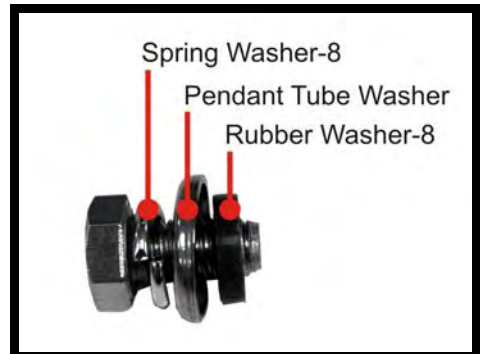
Step 7:

Rotate the joint of Dome Camera Housing into the entry of the Pendant Mount, aligning the screw hole of the joint with the one of the Pendant Mount.



Step 8:

Fix the camera housing with the supplied M8x16 Hex Head Stainless Steel Screw and Washers.



Step 9:

Attach the Snap-on Camera Module to the Dome Camera Housing and tighten the Module-fastened Torx Screw.

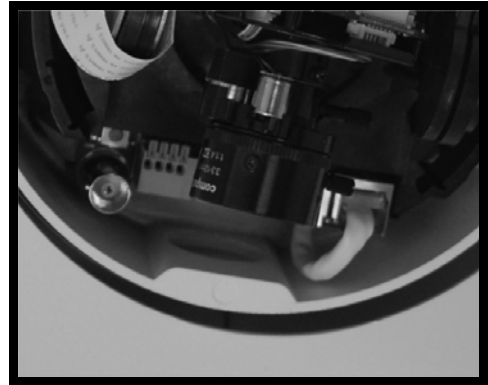


Step 10:

Connect the RJ-45 cable to the Camera Module to access the camera for viewing video, and then adjust the Dome Camera lens to a desired angle.



NOTE: The zoom level and focal length might be different with the Dome Cover on, in this case, adjusting zoom level and focal length through the Dome Cover is recommended.



Step 11:

Put the Inner Cover back to the Camera Module.



Step 12:

Close the Dome Cover and tighten the Security Torx Screws.



Installation Complete.

