



Outdoor Zoom Dome Hardware Manual

A811, A818

Ver. 2021/01/26



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Precautions

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.

Servicing

Do not attempt to service this video device yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

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.

Federal Communications Commission Statement

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.

Caution: The user is cautioned that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

EU Conformity Statement



This product and - if applicable - the supplied accessories too are marked with "CE" and comply therefore with the applicable harmonized European standards listed under the the EMC Directive 2014/30/EU, the RoHS Directive 2011/65/EU.



2012/19/EU (WEEE directive): Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon the purchase of equivalent new equipment, or dispose of it at designated collection points. For more information see: www.recyclethis.info.



2006/66/EC and its amendment 2013/56/EU (battery directive): This product contains a battery that cannot be disposed of as unsorted municipal waste in the European Union. See the product documentation for specific battery information. The battery is marked with this symbol, which may include lettering to indicate cadmium (Cd), lead (Pb), or mercury (Hg). For proper recycling, return the battery to your supplier or to a designated collection point. For more information see: www.recyclethis.info.

Industry Canada ICES-003 Compliance

This device meets the CAN ICES-3 (B)/NMB-3(B) standards requirements.

Safety Instructions

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.

Water and Moisture

Install other devices (such as PoE injector, alarm, etc.) that will be used with the camera in a dry place protected from water.

Servicing

Do not attempt to service this video product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. 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 video product has 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.



- Never look at the transmit laser while the power is on. Never look directly at the fiber ports and the fiber cable ends when they are powered on.
- Use of controls or adjustments to the performance or procedures other than those specified herein may result in hazardous laser emissions.

Introduction

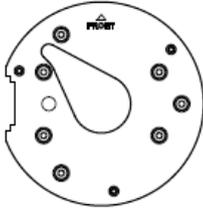
List of Models

This hardware manual contains the following models:

A811		4MP Outdoor Zoom Dome with D/N, Adaptive IR, Extreme WDR, SLLS, 5x Zoom lens
A818		6MP Outdoor Zoom Dome with D/N, Adaptive IR, Superior WDR, SLLS, 5x Zoom lens

Package Contents

Check if the camera package comes with the following items:

Camera	Cable Gland with Rubber and Washer	Wrench
		
Mounting Screw Kit	Surface Mount Plate	Surface Mount Plate Screws
		
BNC Cable Connector	Cleaning Cloth	Quick Guide & Warranty Card
		

IMPORTANT: When the camera is taken out from the box, the lens cover is covered by a thin film. DO NOT remove this film. It is used to protect the lens cover from scratches or fingerprint marks which may happen during installation. Remove this film only after the camera is securely installed and all connections are complete.

Physical Description



Item	Description
1 Analog Video Output Connector	Connects to a video output device, such as a camera installation kit or monitor for testing. Use the bundled video output connector to connect to an external monitor. This connection is used for installation only.
2 DC 12V Power Input	In case the camera is connected to a non-PoE (Power over Ethernet) switch, use this connector to connect the camera to an external power adapter (not included).
3 Audio Input / Output Connector	Connects to audio input / output devices, such as a microphone with built-in amplifier or speaker, etc. See How to Connect Audio Input /Output Device (Optional) on page 32.
4 Digital Input / Output Connector	This connector connects to digital input or output devices, such as an alarm trigger, panic button, etc. Digital Input (DI) and Digital Output (DO) devices are used in applications like motion detection, event triggering, alarm notifications, etc. See How to Connect DI/DO Device (Optional) on page 30.
5 Ethernet Port	Connects to a network using an Ethernet cable with RJ-45 connector.
6 Memory Card Slot	Insert a memory card into this slot for local recording purposes.
7 Reset Button	Restores the camera to its factory default settings. To reset the camera, press and hold the Reset Button for about 15 seconds.

Mounting Options

Select the most suitable solution for your installation environment. The camera can be mounted by either of the following methods:

Mount Types	Accessories
Surface Mount	Suitable when mounting the camera directly on walls or ceilings with the bundled surface mount plate . See <i>Installation Procedures</i> on page 10 for more information.
Wall Mount	Suitable when mounting the camera on the wall with the camera facing down as if installed on the ceiling. The Wall Mount (optional mounting accessory) is required for this type of installation.
Pendant Mount	Suitable when installing the camera on high ceilings where a straight tube is used to lower the camera. The Pendant Mount with Mount Kit (optional accessory set) is required for this type of installation.
Pole mount	Suitable when installing the camera on a vertical pole. The Pole mount (optional accessory set) is required for this type of installation.

NOTE:

- For more information about the mounting solutions and accessories, please check the *Mounting Accessory Selector* in our website (<http://www.acti.com/mountingselector>).
- The above mounting accessories are not included in the package. Contact your sales agents to purchase.

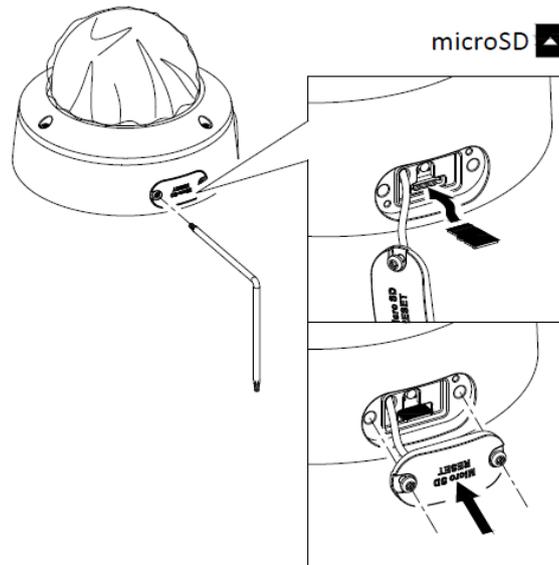
Installation Procedures

This section describes procedures in mounting the camera on a flat surface.

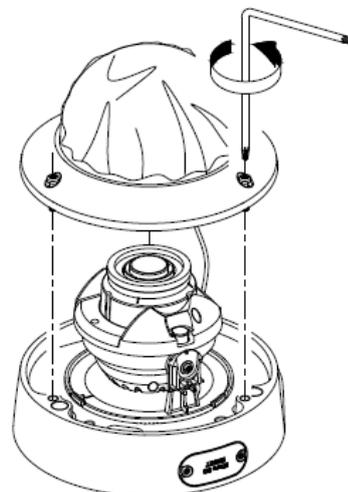
NOTE: The camera images on this documentation are for reference only and may be different from the actual camera.

Step 1: Prepare for Installation

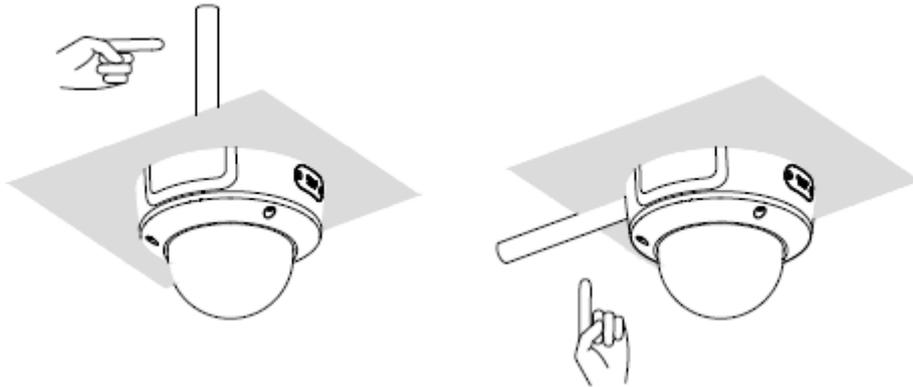
1. Before installing the camera, prepare the additional accessories required for installation, such as cables, memory card, etc.
2. If a memory card will be used for local storage, insert the card with the metal contacts facing the lens.



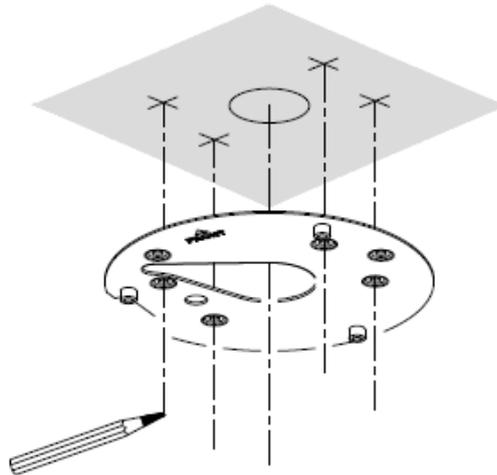
3. Open the dome cover.



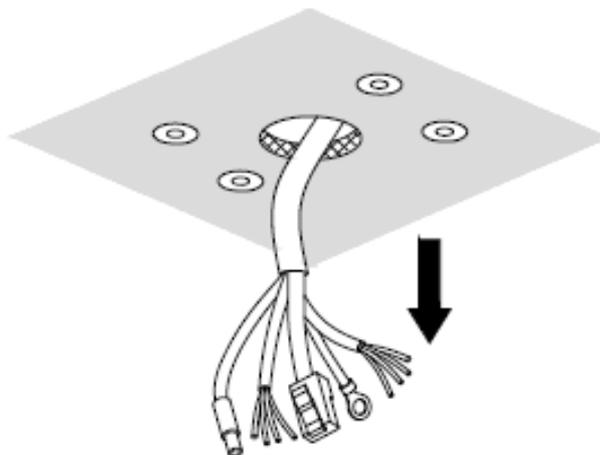
4. Determine whether the cable will go through a hole on the surface or be routed along the surface. Note also the direction to which the cable will be routed.



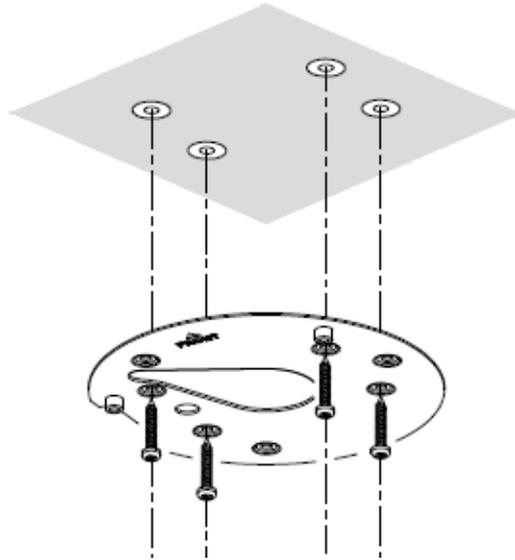
5. Mark the screw holes and cable hole (if the cable will pass through the surface) using the bundled surface mount plate as template. Then drill the necessary holes.



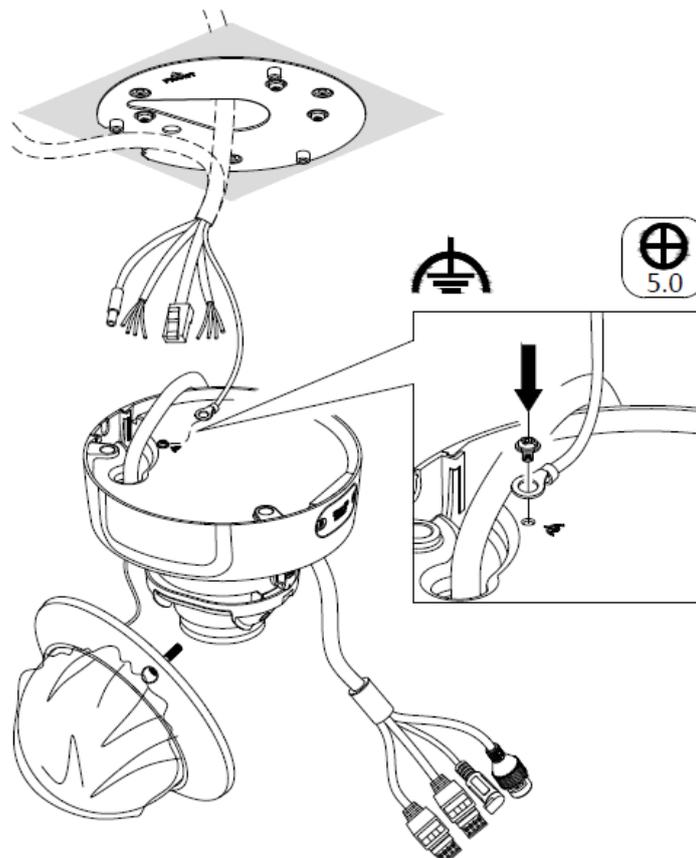
6. Route the cables from the network side to pass through the surface and prepare for cable connection.



7. Attach the bundled surface mount plate to the surface using the bundled screw pack.

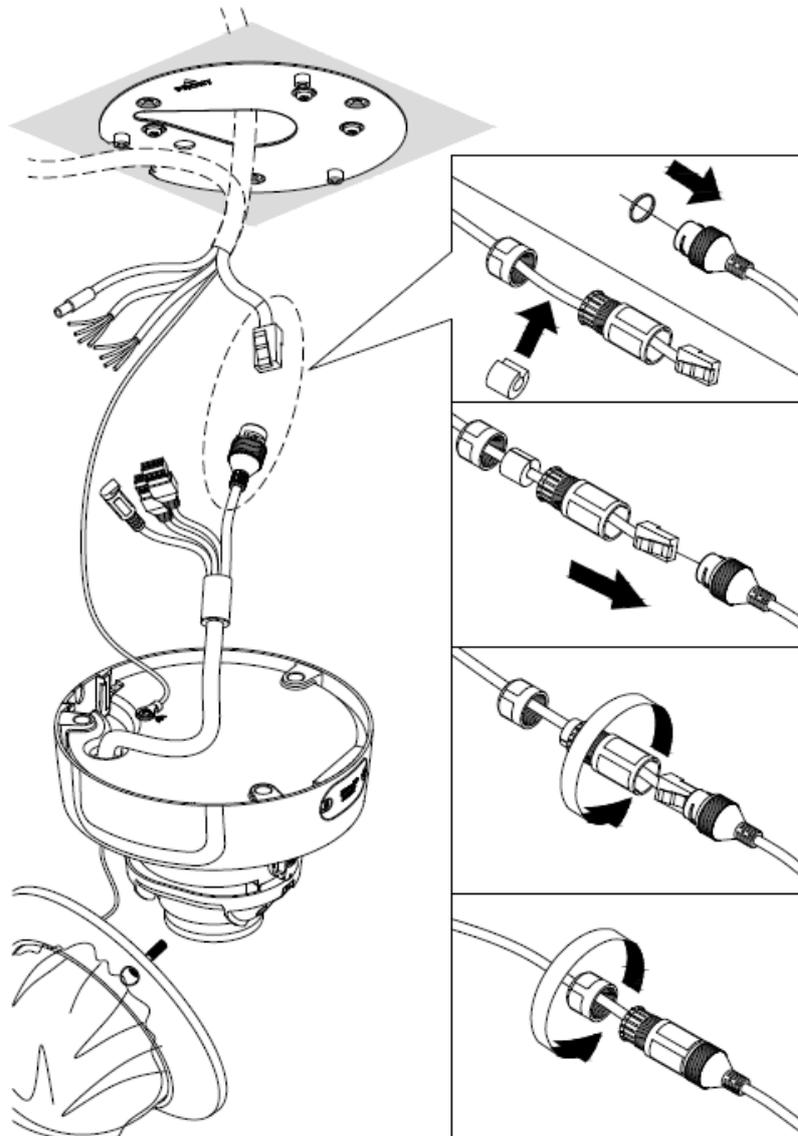


8. Attach an optional ground screw (not included in the package)



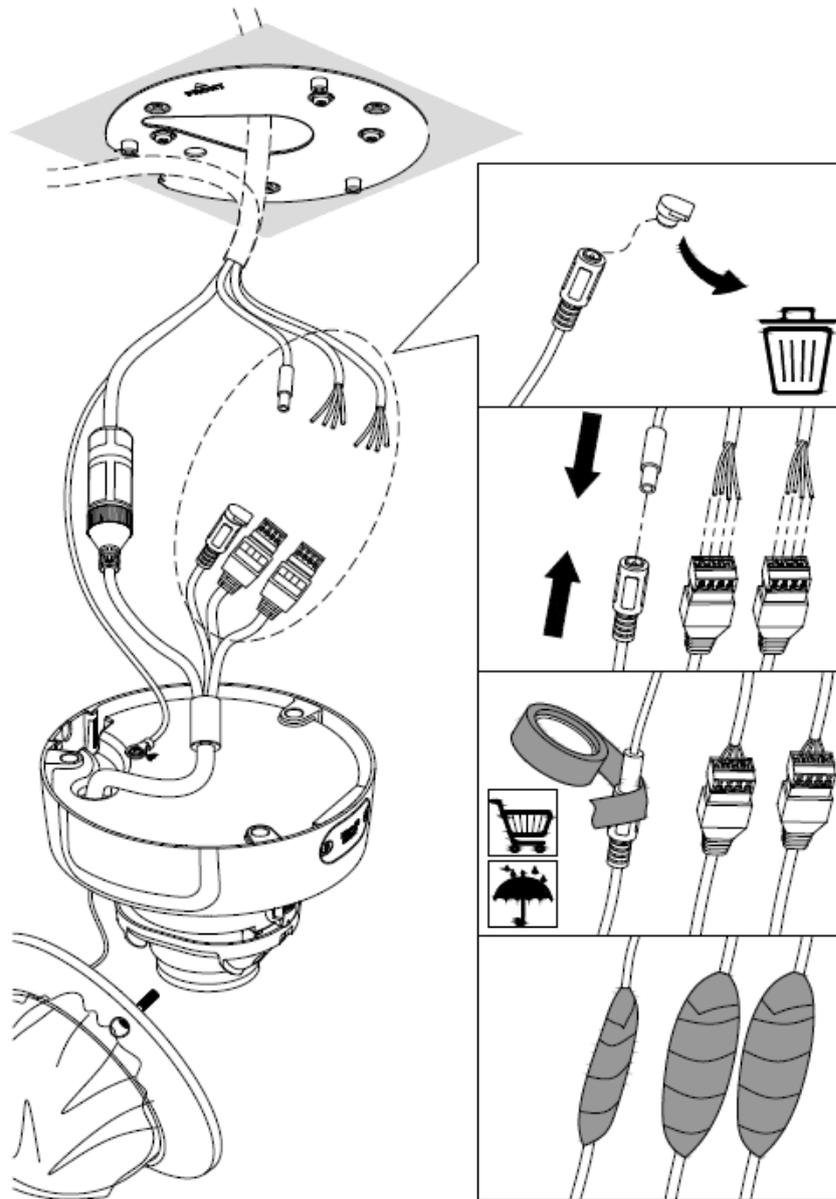
Step 2: Route the Cables

1. Route the cable from the network side and connect it to the Ethernet port of the camera. See [Cable Connections](#) on page 26 for cable connection instructions.

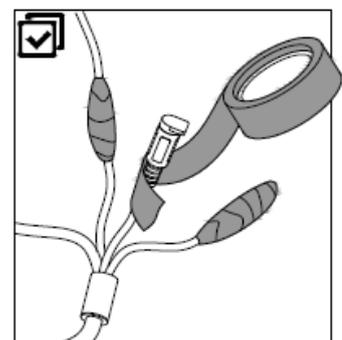


NOTE: If the camera will be installed outdoors or in places wherein environmental factors change drastically, make sure to waterproof the cable connections. See [How to Use the Cable Gland](#) on page 27.

- 2. Connect the other cable connections and make sure to wrap them with waterproof tape. See [Cable Connections](#) on page 26 for cable connection instructions.

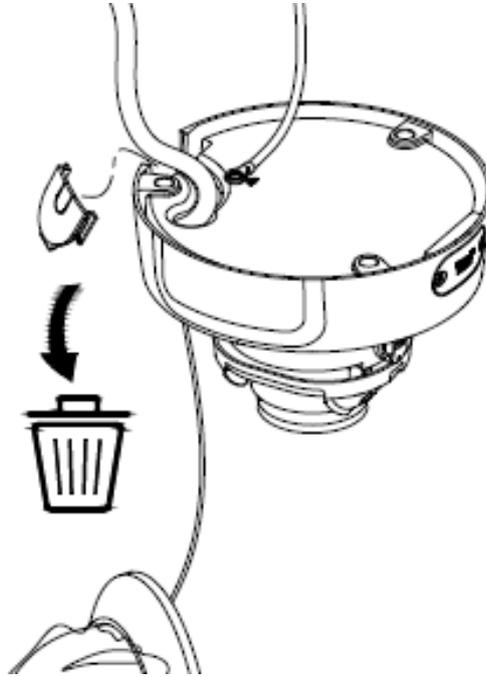


Unused cable connections must also be wrapped with waterproof tape.



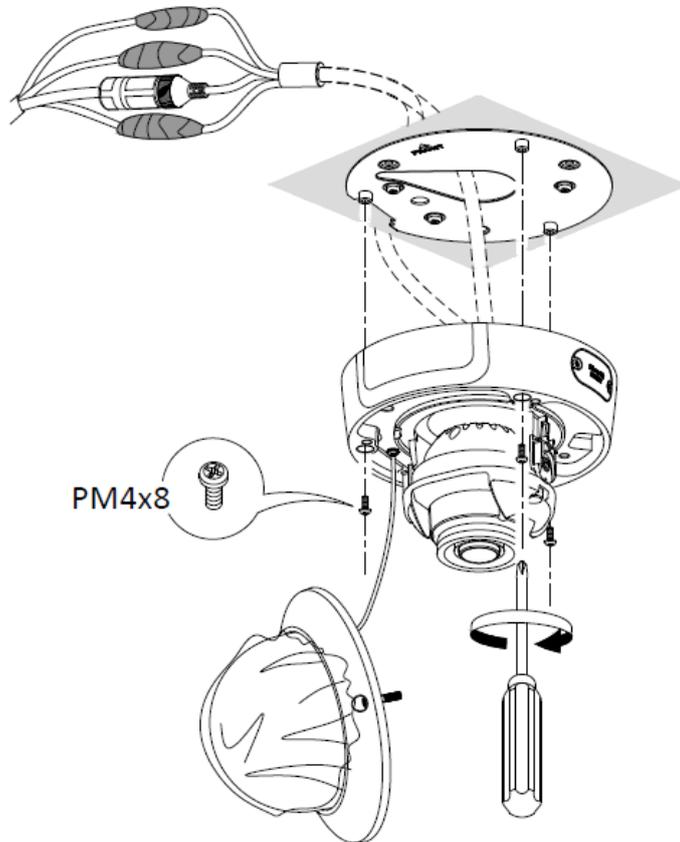
3. Skip to **Step 3: Mount the Camera** on page 16.

If the cable will be routed along the surface, remove the rubber cover on the side hole of the camera and route the cable through the gap.



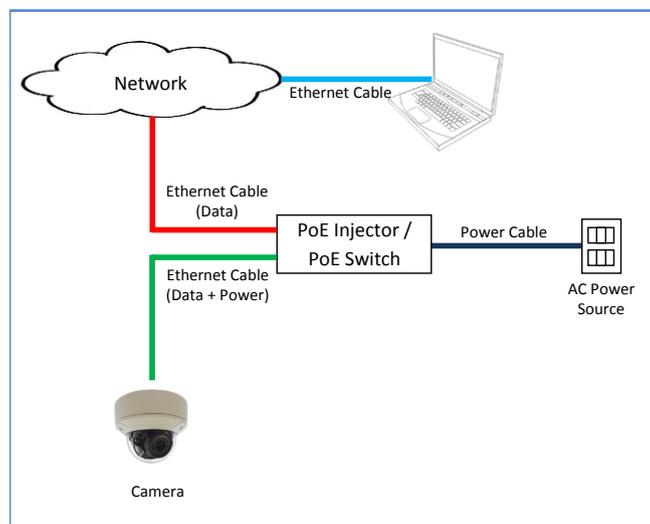
Step 3: Mount the Camera

1. Mount the camera to the surface mount plate using the three (3) bundled screws.



Step 4: Connect to Network

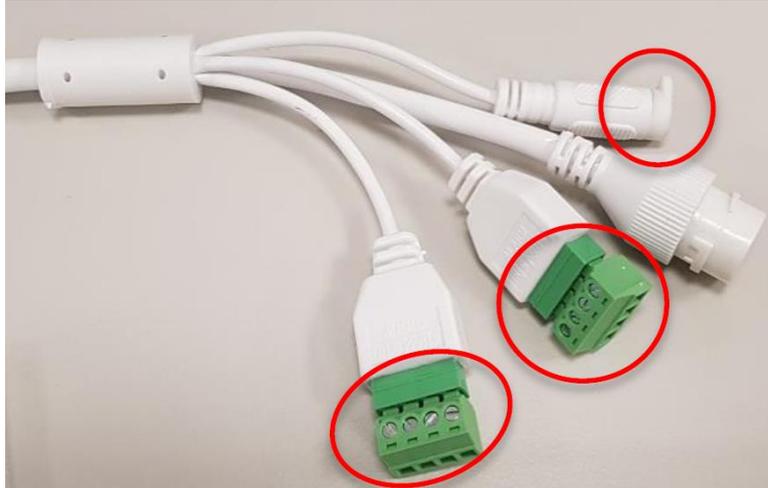
Connect the other end of the network cable to a switch or injector. Then, connect the switch or injector to a network or PC and a power source. See Power-over-Ethernet (PoE) example connection diagram below.



Step 5: Access the Camera Live View

See [Cable Connections](#)

This section describes the procedures in attaching the Ethernet cable connector, preparing and connecting an external power adapter, digital input and output (DI/DO) device, such as alarms, sensors, etc., and audio input and output devices. The use of these devices, however, is optional.



NOTE: If these connectors will not be used, make sure to wrap them with waterproof tape to avoid water or dust from entering the connectors.

The camera and the pre-installed network cable, “pigtail”, are resistant to salt, water, weak acid, alcohol, oil, grease and other common solvents. If the camera will be installed indoors, simply connect the network side cable to the camera Ethernet port.

However, if the camera will be installed outdoors, ensure that the cable connections are protected from different environmental factors. Use the bundled cable gland to protect the Ethernet connection and use a waterproof tape to protect other cable connections. Wrap the other cable connections, such as a power adapter and input or output device.

DISCLAIMER: ACTi will not be responsible for camera damage caused by water entering the cable connections.

How to Use the Cable Gland

This section describes how to waterproof the cable-out or “pigtail” of the camera using the bundled cable gland. Before connection, prepare an exterior-grade Ethernet cable with RJ-45 connector.

Perform the following to waterproof the “pigtail” using the cable gland:

1. Attach the washer to the Ethernet connector of the camera.



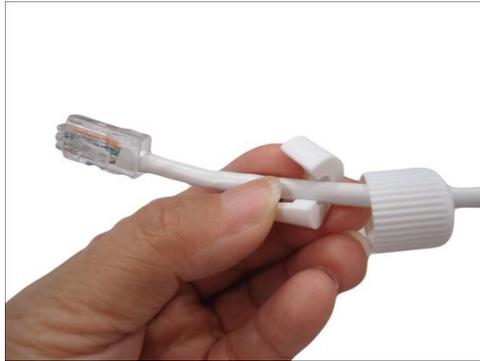
2. Detach the clamping nut and sealing insert from the gland body:



3. Insert the clamping nut into the Ethernet cable.



4. Insert the sealing insert through the Ethernet cable.



5. Insert the cable through the gland body.



6. Push the sealing insert into the gland body.



7. Connect the RJ-45 connector to the camera connector.



8. Attach the gland body to the camera connector.



9. Attach the clamping nut to the gland body to complete the cable solution.



NOTE: Make sure the clamping nut is tightly attached to the cable gland body and the sealing insert is squeezed tightly.

How to Connect a Power Adapter (Optional)

The camera can be powered by a Power over Ethernet (PoE) switch that is IEEE802.3af compliant. In case of using a non-PoE switch or your PoE switch has limited power supply, you can purchase a power adapter and directly connect the camera to a power outlet. After connecting the power adapter, make sure to protect the cable connection.

NOTE: The power adapter is not bundled in the package.

How to Connect DI/DO Device (Optional)

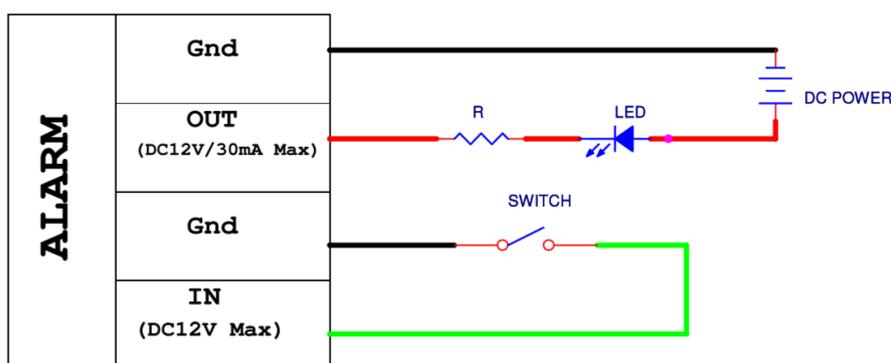
Depending on your surveillance needs, you may connect one digital input and one digital output device to your camera.

Digital Input (DI) devices can be used to notify the camera about an activity in the camera site. DI can be triggers of events. For example, you can connect a “panic button” to the camera; as such when the panic button is pressed, the alarm signal will be sent through the camera. Other common DI device applications are emergency button, smoke detector, passive infrared sensor, etc.

Digital Output (DO) devices are external devices that are activated by the camera upon an event inside the camera. For example, you can connect an “alarm horn” to the camera; as such when an event occurs inside the camera (e.g. detected intruder), the alarm horn will sound. Other common DO device applications are motion-triggered lights, electric fence, magnetic door locks, etc.

Using the cable ALARM connector, loosen the screw and insert the wire through the pin slot, then tighten the screw to secure the wire.

To connect the digital input / output devices, map the pins to the corresponding pin combinations:



The table below shows the DI/DO connection specifications:

Device			
DI (Alarm IN)	Connection design		TTL - compatible logic levels
	Voltage	To trigger (low)	Logic level 0: 0V ~ 0.4V
		To trigger (high)	Logic level 1: 3.1V ~ 12V
DO (Alarm OUT)	Connection design		Transistor (Open Collector)
	Voltage & Current		< 12V DC, < 30mA

The camera does not provide power for DO devices, make sure to use external power source to power them up. Note the maximum voltage and current allowed on the table above.

After mapping the wires to the terminal block, connect the terminal block to the DIO connector of the camera and make sure to protect the cable connection against water or other environmental factors, such as by using a waterproof tape.

NOTE: For more information on DI/DO connections, please refer to the Knowledge Base article All About Digital Input and Digital Output downloadable from the link below (<http://Download.acti.com?id=516>).

How to Connect Audio Input /Output Device (Optional)

Audio input / output devices, such as an active microphone or speaker can be connected to the camera using the supplied terminal block which is already connected to the AUDIO cable connector.

Loosen the screw and insert the wire through the pin slot, then tighten the screw to secure the wire.

To connect audio devices, map the pins to one of the pin combinations below:

Device	Pin	Mapping Instructions
Audio Output (OUT)	OUT	Connect the wires of the audio output device to OUT and G (Ground).
	G	
Audio Input (IN)	IN	Connect the wires of the audio input device to IN and G (Ground).
	G	

The camera does not provide power for external devices. Use an external power source to supply power when using LINE-IN microphones with the camera.

NOTE: For more information about AUDIO in connections, please refer to the Knowledge Base article How to Use Audio-In of ACTi Cameras, downloadable from the link below (<https://Download.acti.com?id=534>).

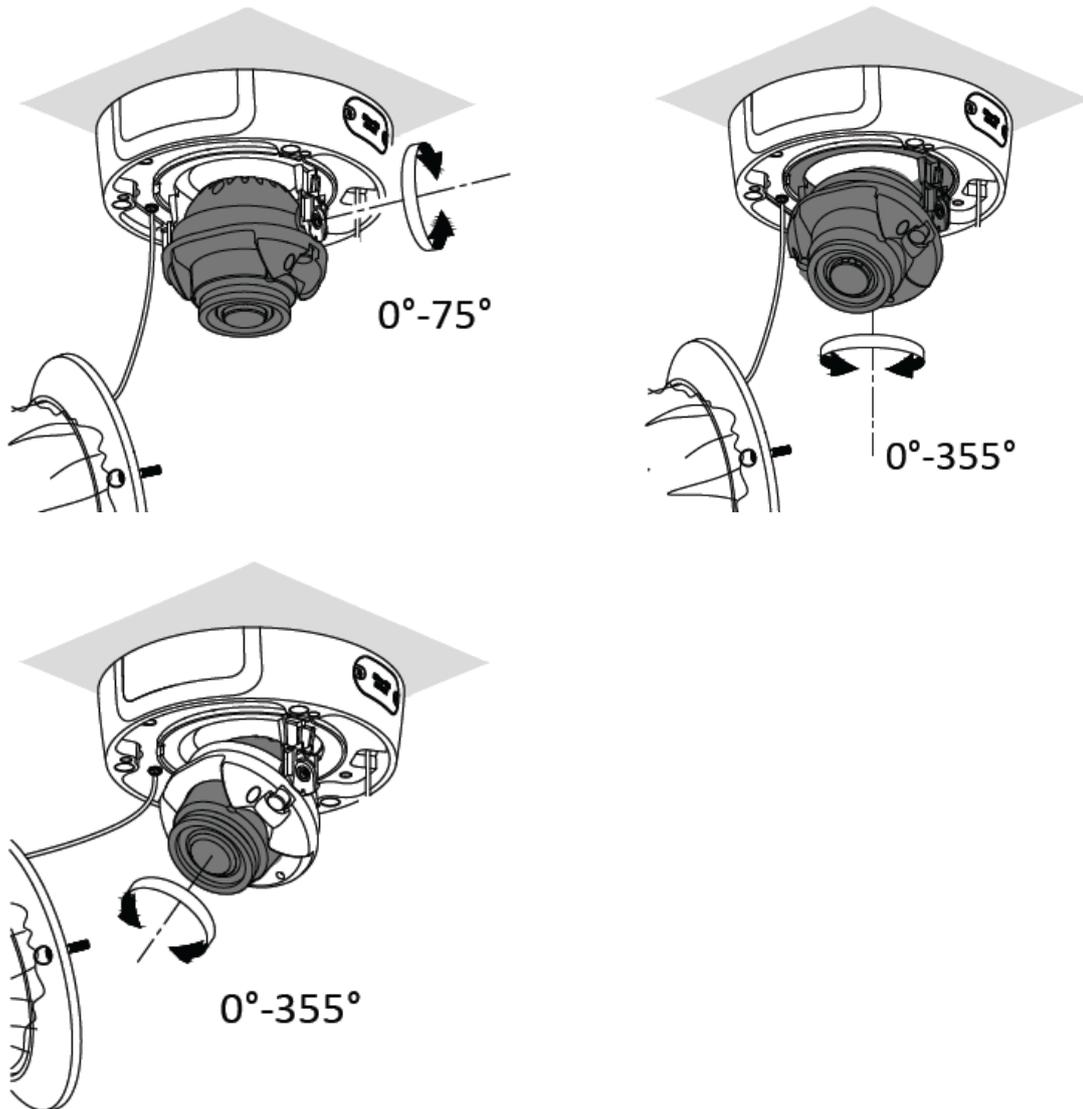
After mapping the wires to the terminal block, connect the terminal block to the Audio connector of the camera and make sure to protect the cable connection against water or other environmental factors, such as by using a waterproof tape.

DISCLAIMER: ACTi will not be responsible for camera damage due to water leakage caused by improper waterproofing of cables.

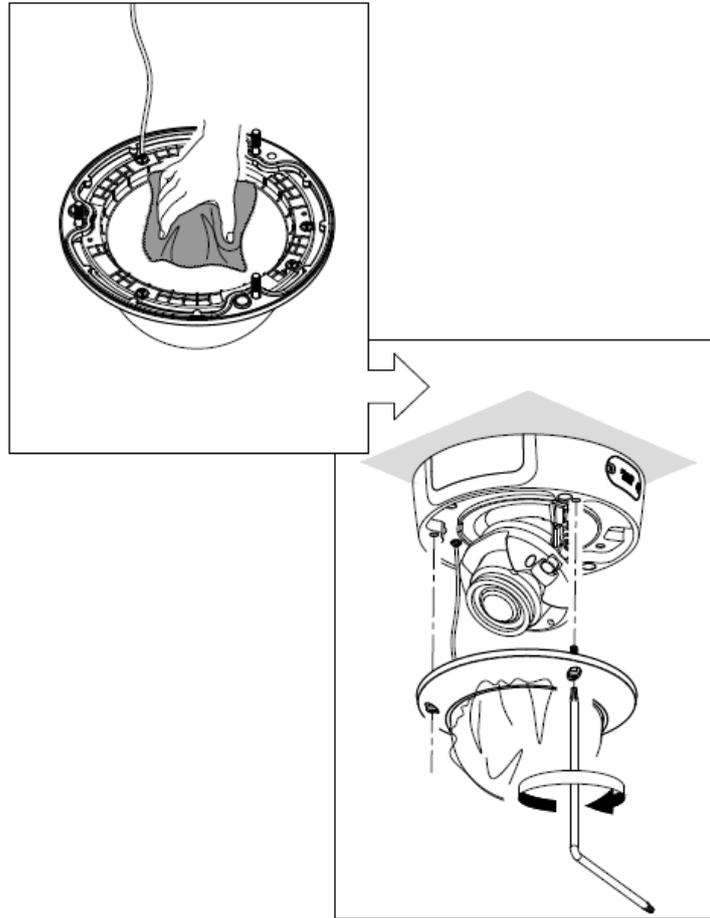
Accessing the Camera on page 26 for more information on how to access the Live View of the camera.

Step 6: Adjust the Viewing Angle and Orientation

Pan and adjust the camera tilt angle, as needed.

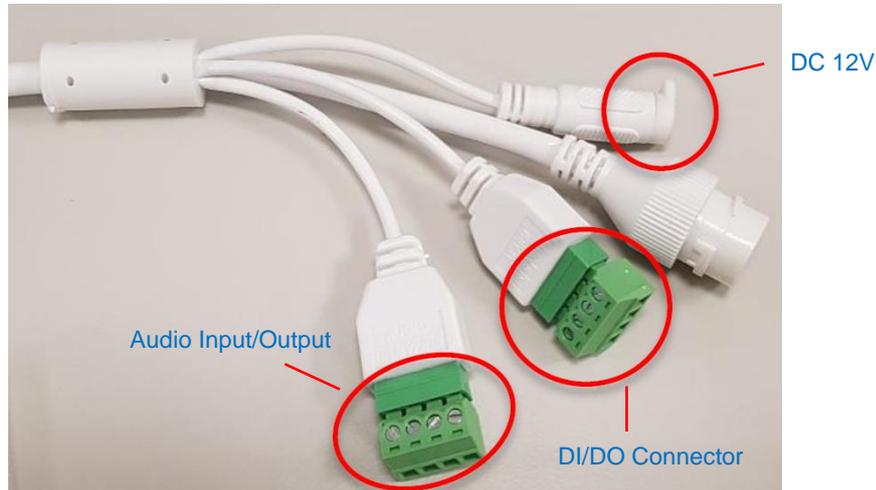


Step 7: Clean & Close the Dome Cover



Cable Connections

This section describes the procedures in attaching the Ethernet cable connector, preparing and connecting an external power adapter, digital input and output (DI/DO) device, such as alarms, sensors, etc., and audio input and output devices. The use of these devices, however, is optional.



NOTE: If these connectors will not be used, make sure to wrap them with waterproof tape to avoid water or dust from entering the connectors.

The camera and the pre-installed network cable, “pigtail”, are resistant to salt, water, weak acid, alcohol, oil, grease and other common solvents. If the camera will be installed indoors, simply connect the network side cable to the camera Ethernet port.

However, if the camera will be installed outdoors, ensure that the cable connections are protected from different environmental factors. Use the bundled cable gland to protect the Ethernet connection and use a waterproof tape to protect other cable connections. Wrap the other cable connections, such as a power adapter and input or output device.

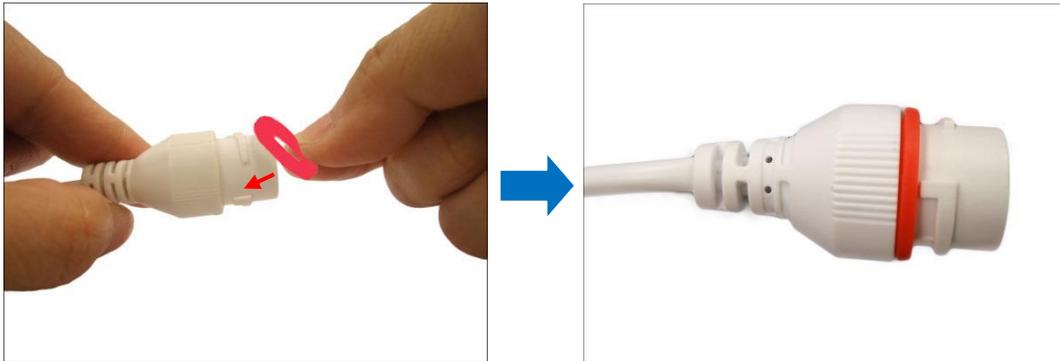
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How to Use the Cable Gland

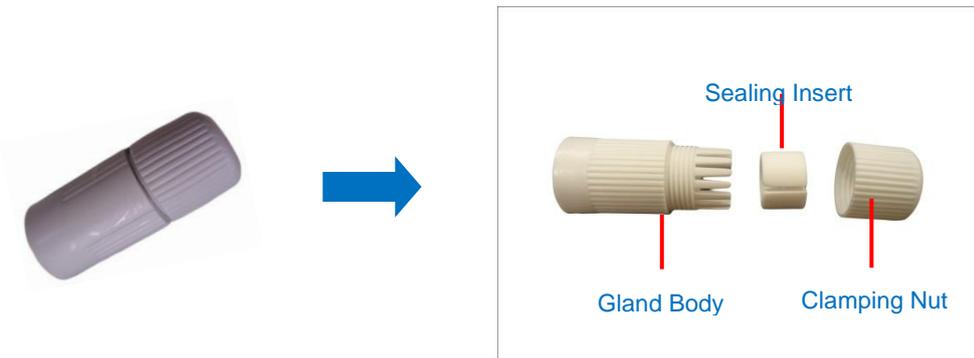
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Perform the following to waterproof the “pigtail” using the cable gland:

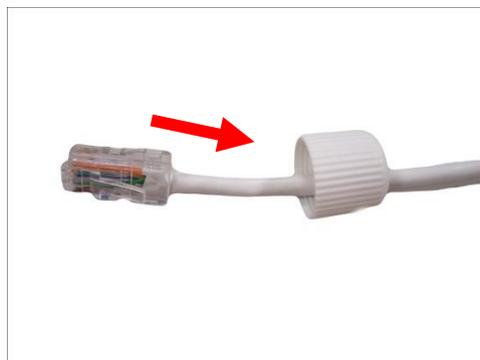
10. Attach the washer to the Ethernet connector of the camera.



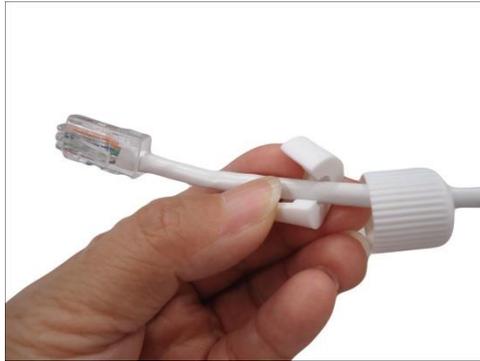
11. Detach the clamping nut and sealing insert from the gland body:



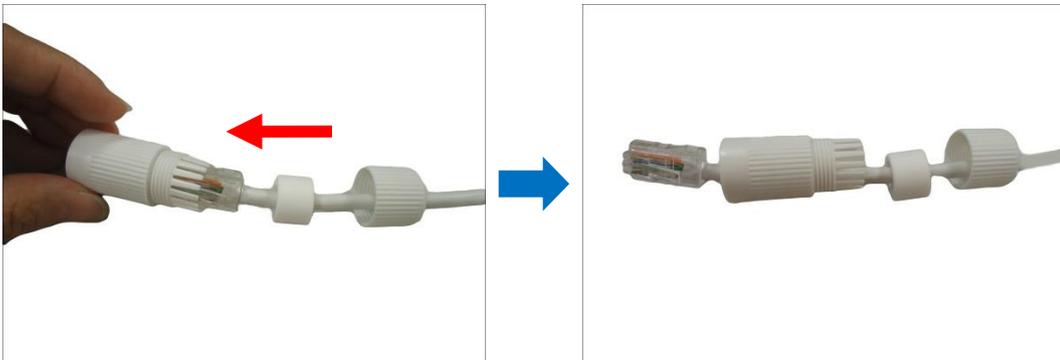
12. Insert the clamping nut into the Ethernet cable.



13. Insert the sealing insert through the Ethernet cable.



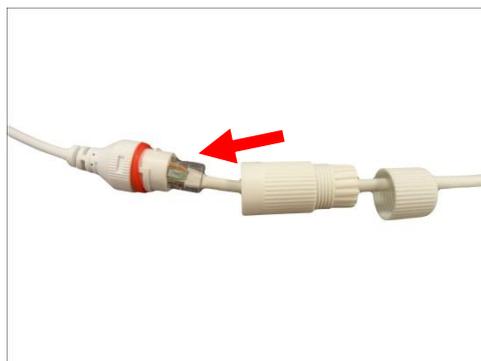
14. Insert the cable through the gland body.



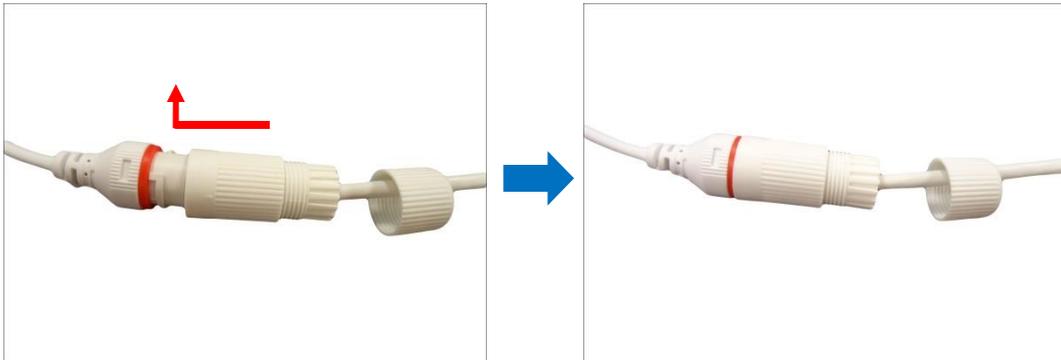
15. Push the sealing insert into the gland body.



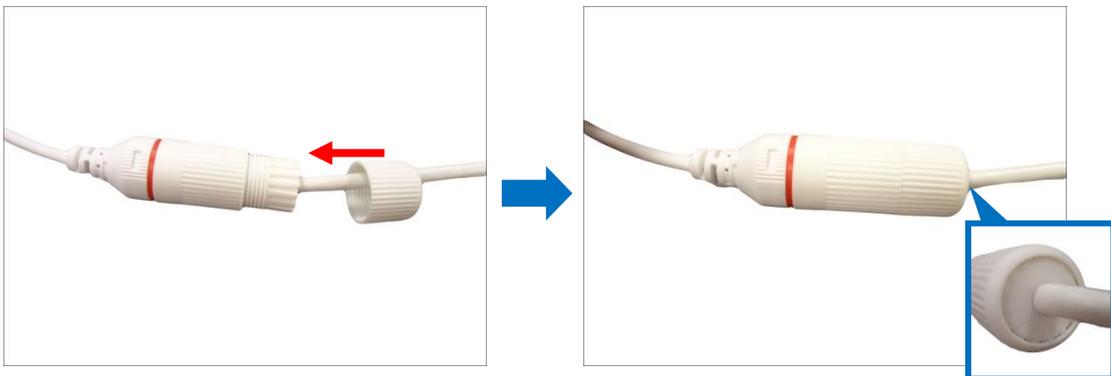
16. Connect the RJ-45 connector to the camera connector.



17. Attach the gland body to the camera connector.



18. Attach the clamping nut to the gland body to complete the cable solution.



NOTE: Make sure the clamping nut is tightly attached to the cable gland body and the sealing insert is squeezed tightly.

How to Connect a Power Adapter (Optional)

The camera can be powered by a Power over Ethernet (PoE) switch that is IEEE802.3af compliant. In case of using a non-PoE switch or your PoE switch has limited power supply, you can purchase a power adapter and directly connect the camera to a power outlet. After connecting the power adapter, make sure to protect the cable connection.

NOTE: The power adapter is not bundled in the package.

How to Connect DI/DO Device (Optional)

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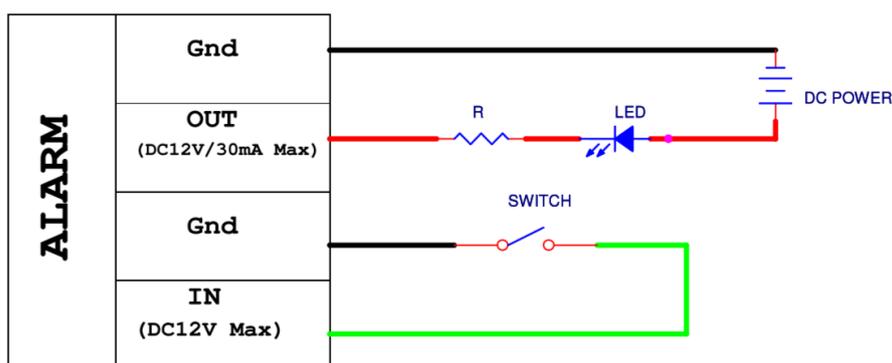
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Using the cable ALARM connector, loosen the screw and insert the wire through the pin slot, then tighten the screw to secure the wire.



To connect the digital input / output devices, map the pins to the corresponding pin combinations:



The table below shows the DI/DO connection specifications:

Device			
DI (Alarm IN)	Connection design		TTL - compatible logic levels
	Voltage	To trigger (low)	Logic level 0: 0V ~ 0.4V
		To trigger (high)	Logic level 1: 3.1V ~ 12V
DO (Alarm OUT)	Connection design		Transistor (Open Collector)
	Voltage & Current		< 12V DC, < 30mA

The camera does not provide power for DO devices, make sure to use external power source to power them up. Note the maximum voltage and current allowed on the table above.

After mapping the wires to the terminal block, connect the terminal block to the DIO connector of the camera and make sure to protect the cable connection against water or other environmental factors, such as by using a waterproof tape.

NOTE: For more information on DI/DO connections, please refer to the Knowledge Base article [All About Digital Input and Digital Output](#) downloadable from the link below (<http://Download.acti.com?id=516>).

How to Connect Audio Input /Output Device (Optional)

Audio input / output devices, such as an active microphone or speaker can be connected to the camera using the supplied terminal block which is already connected to the AUDIO cable connector.

Loosen the screw and insert the wire through the pin slot, then tighten the screw to secure the wire.



To connect audio devices, map the pins to one of the pin combinations below:

Device	Pin	Mapping Instructions
Audio Output (OUT)	OUT	Connect the wires of the audio output device to OUT and G (Ground).
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After mapping the wires to the terminal block, connect the terminal block to the Audio connector of the camera and make sure to protect the cable connection against water or other environmental factors, such as by using a waterproof tape.

DISCLAIMER: ACTi will not be responsible for camera damage due to water leakage caused by improper waterproofing of cables.

Accessing the Camera

Configure the IP Addresses

In order to be able to communicate with the camera from your PC, both the camera and the PC have to be within the same network segment. In most cases, it means that they both should have very similar IP addresses, where only the last number of the IP address is different from each other. There are 2 different approaches to IP Address management in Local Area Networks – by DHCP Server or Manually.

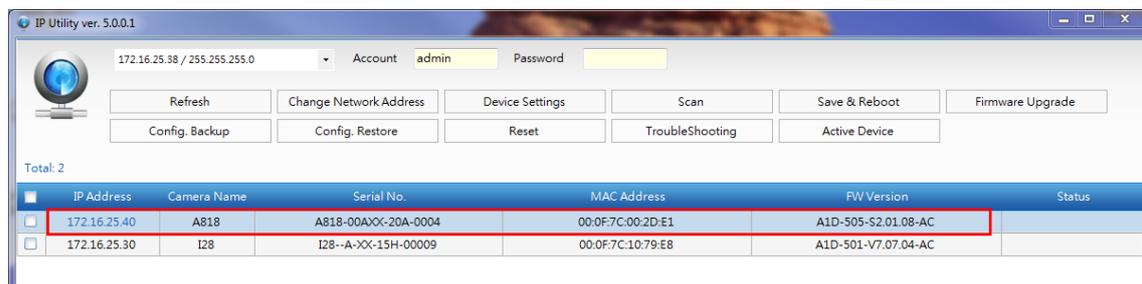
Using DHCP Server to Assign IP Addresses

If you have connected the computer and the camera into the network that has a DHCP server running, then you do not need to configure the IP addresses at all – both the camera and the PC would request a unique IP address from DHCP server automatically. In such case, the camera will immediately be ready for the access from the PC. The user, however, might not know the IP address of the camera yet. It is necessary to know the IP address of the camera in order to be able to access it by using a Web browser.

If you work with our cameras regularly, **there is a better way to discover the cameras in the network** – by using **IP Utility**. The IP Utility is a light software tool that can not only discover the cameras, but also list lots of valuable information, such as IP and MAC addresses, serial numbers, firmware versions, etc, and allows quick configuration of multiple devices at the same time.

The IP Utility can be downloaded for free from http://www.acti.com/IP_Utility

With just one click, you can launch the IP Utility and there will be an instant report as follows:



You can quickly see the camera model in the list. Double-click on the IP address to automatically launch the default browser of the PC with the IP address of the target camera filled in the address bar of the browser already.

Using the Default Camera IP Address

If there is no DHCP server in the given network, the user may have to assign the IP addresses to both PC and camera manually to make sure they are in the same network segment.

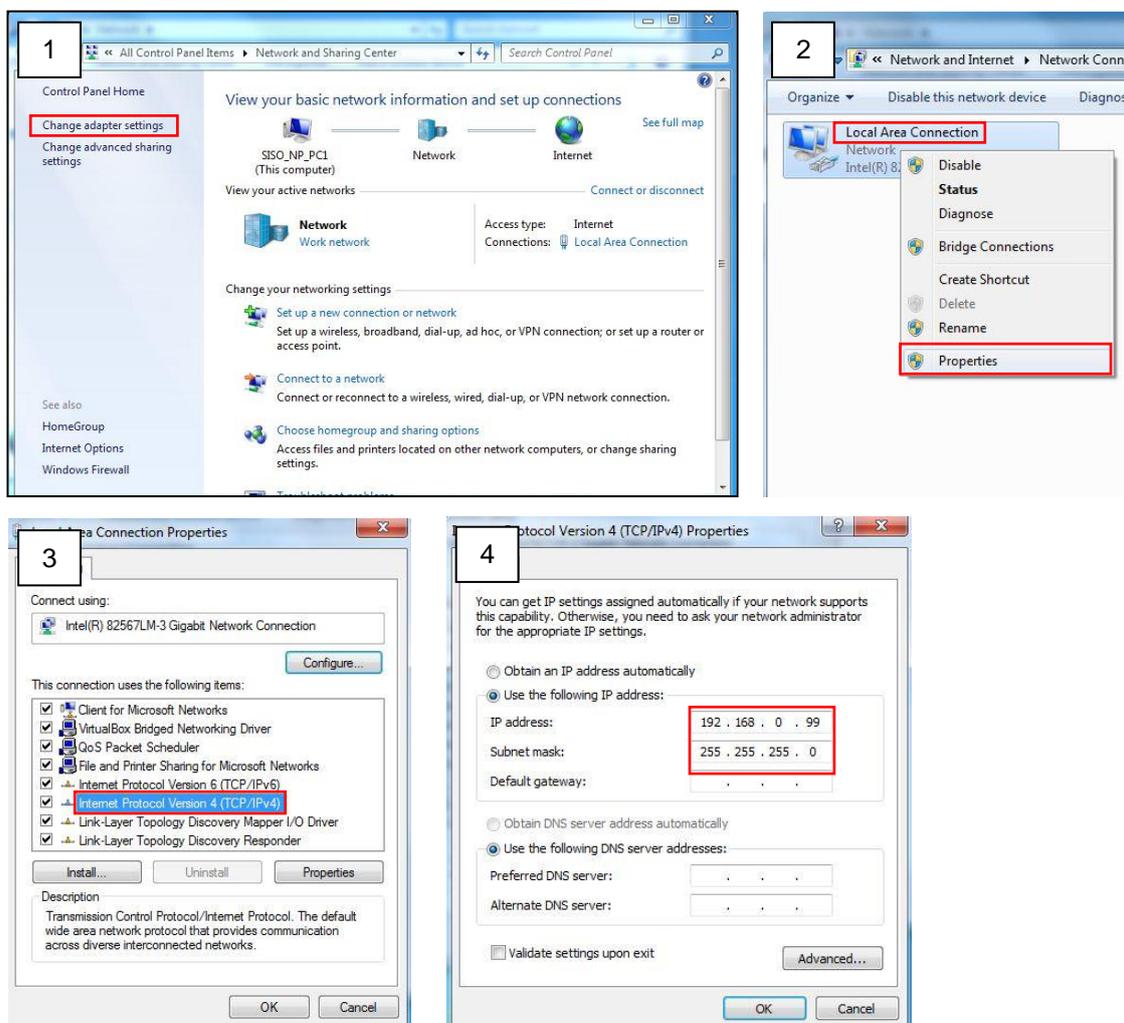
When the camera is plugged into network and it does not detect any DHCP services, it will automatically assign itself a default IP:

192.168.0.100

Whereas the default port number would be **80**. In order to access that camera, the IP address of the PC has to be configured to match the network segment of the camera.

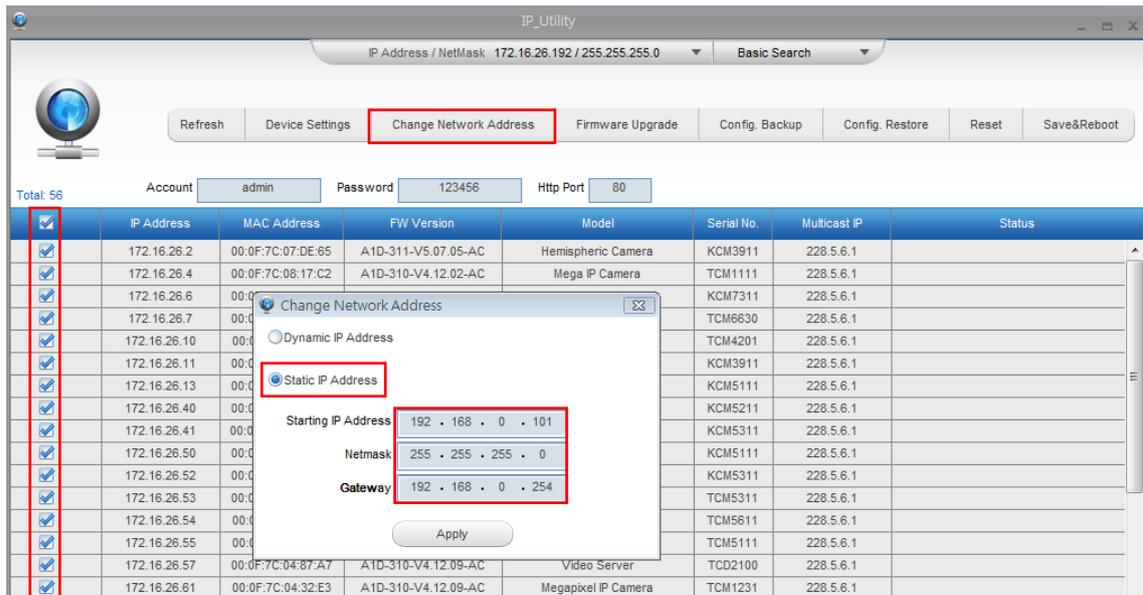
Manually adjust the IP address of the PC:

In the following example, based on Windows 7, we will configure the IP address to **192.168.0.99** and set Subnet Mask to **255.255.255.0** by using the steps below:



Manually adjust the IP addresses of multiple cameras:

If there are more than 1 camera to be used in the same local area network and there is no DHCP server to assign unique IP addresses to each of them, all of the cameras would then have the initial IP address of **192.168.0.100**, which is not a proper situation for network devices – all the IP addresses have to be different from each other. The easiest way to assign cameras the IP addresses is by using **IP Utility**:



With the procedure shown above, all the cameras will have unique IP addresses, starting from 192.168.0.101. In case there are 20 cameras selected, the last one of the cameras would have the IP 192.168.0.120.

Later, by pressing the “Refresh” button of the IP Utility, you will be able to see the list of cameras with their new IP addresses.



Please note that it is also possible to change the IP addresses manually by using the Web browser. In such case, please plug in only one camera at a time, and change its IP address by using the Web browser before plugging in the next one. This way, the Web browser will not be confused about two devices having the same IP address at the same time.

Access the Camera

Now that the camera and the PC are both having their unique IP addresses and are under the same network segment, it is possible to use the Web browser of the PC to access the camera.

You can use **Microsoft Internet Explorer** to access the camera

When using Internet Explorer browser, the ActiveX control for video stream management will be downloaded from the camera directly – the user just has to accept the use of such control when prompted so. No other third party utilities are required to be installed in such case.

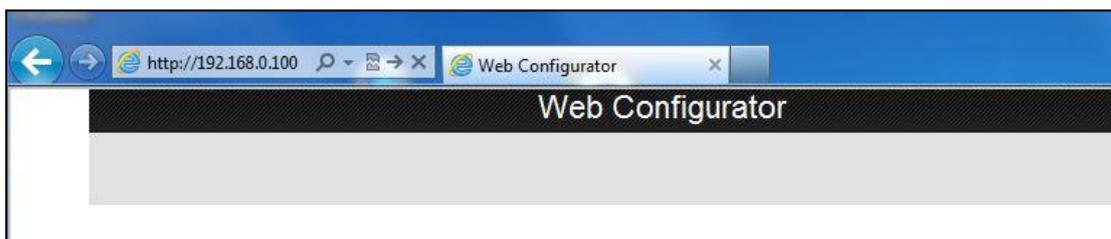
NOTE: If Windows does not prompt you to install ActiveX, follow these steps to turn off **UAC**: Click the **Start** button, and then go to **Control Panel**. In the search box, type **UAC**, then click **Change User Account Control Settings**. Move the slider to **Never Notify** position, and then click **OK**. After UAC is turned off, log in again.

The following examples in this manual are based on Internet Explorer browser in order to cover all functions of the camera.

Assuming that the camera's IP address is **192.168.0.100**, you can access it by opening the Web browser and typing the following address into Web browser's address bar:

http://192.168.0.100

Upon successful connection to the camera, the user interface called **Web Configurator** would appear together with the login page. The HTTP port number was not added behind the IP address since the default HTTP port of the camera is 80, which can be omitted from the address for convenience.



Before logging in, you need to setup the root Account and Password of the camera.

Set Root Account Name and Password

Name	<input type="text"/>
Password	<input type="password"/>
Confirm Password	<input type="password"/>
Language	<input type="text" value="English"/> ▼

Then use this newly setup **Account** and **Password** to login to the Web Configurator.



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