



# **Bullet Camera**

## **Hardware Manual**

**E44A, E45A, E46A**

**Ver. 2014/10/20**



**ACTi**  
Connecting Vision

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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 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.

**Warning:** Changes or modifications to the equipment that are not expressly approved by the responsible party for compliance could void the user's authority to operate the equipment.

### European Community Compliance Statement



This product has been tested and found to comply with the limits for Class B Information Technology Equipment according to European Standard EN 55022 and EN 55024. In a domestic environment, this product may cause radio interference in which cause the user may be required to take adequate measures.

## 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

Do not use this video product near water, for example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool and the like.

### Don't 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 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.

# Introduction

## List of Models

---

This hardware manual contains the following models:

|      |   |  |
|------|---|--|
| E44A |  | 2MP Bullet with D/N, Adaptive IR, Basic WDR, SLLS, Vari-focal lens |
| E45A |  | 1MP Bullet with D/N, Adaptive IR, Superior WDR, Vari-focal lens    |
| E46A |  | 3MP Bullet with D/N, Adaptive IR, Superior WDR, Vari-focal lens    |

## Package Contents

| Camera  | Bracket Plate   | Sunshield   |
|---|---|---|
|    |    |    |
| Drill Template  | Mounting Screw Kit  | Sunshield Screw Kit   |
|   |   |   |
| Conduit Gland   | Cable Gland   | Washer  |
|  |  |  |
| Warranty Card   | Quick Installation Guide  |   |
|  |  |   |

## Physical Description



| Item |                        | Description  |
|------|------------------------|--|
| 1    | Ethernet Port          | Connects to a network using a standard Ethernet cable.   |
| 2    | Audio Input            | <p>Connects to audio input devices, such as a microphone with built-in amplifier, etc.</p> <p><b>NOTE 1:</b> The microphone must have a built-in amplifier. Connecting an ordinary microphone will dwarf sounds and will result in inaudible recording.</p> <p><b>NOTE 2:</b> If the audio connectors will not be used, leave the rubber caps on to ensure cables remain waterproof and eliminate short-circuit hazards.</p> |
| 3    | Audio Output           | <p>Connects to audio output devices, such as a speaker, etc.</p> <p><b>NOTE:</b> If the audio connectors will not be used, leave the rubber caps on to ensure cables remain waterproof and eliminate short-circuit hazards.</p>  |
| 4    | Digital Input / Output | <p>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 <a href="#">How to Connect DI/DO Devices (Optional)</a> on page 23 for information on how to connect DI/DO devices to your camera.</p>                                       |

# Installation Procedures

## Step 1: Insert the Memory Card (Optional)

If there is a need to install a memory card for local storage recording, insert the memory card to the camera first before mounting the camera. Follow the procedures below:

1. Remove the three (3) screws securing the integrated bracket.



2. Detach the integrated body from the camera back cover.

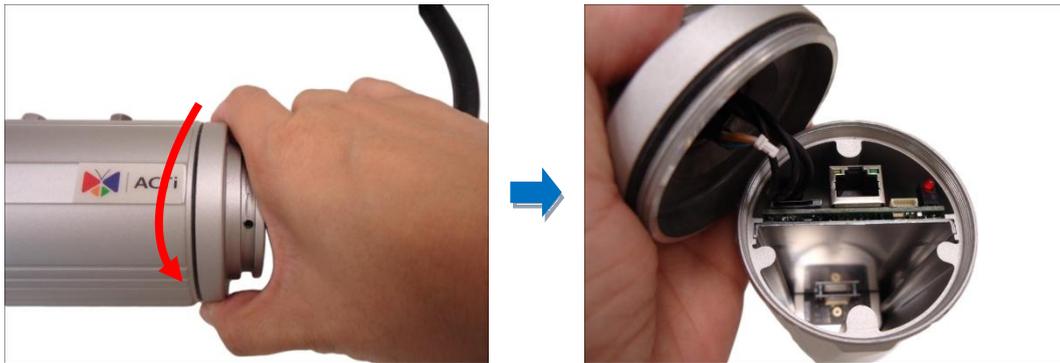


3. Remove the clamping nut and rubber insert to loosen the cable within the gland.



**NOTE:** Connectors are connected inside the camera, be careful when pulling the rubber insert from the gland.

4. Twist to open the back cover and slowly lift the cover.

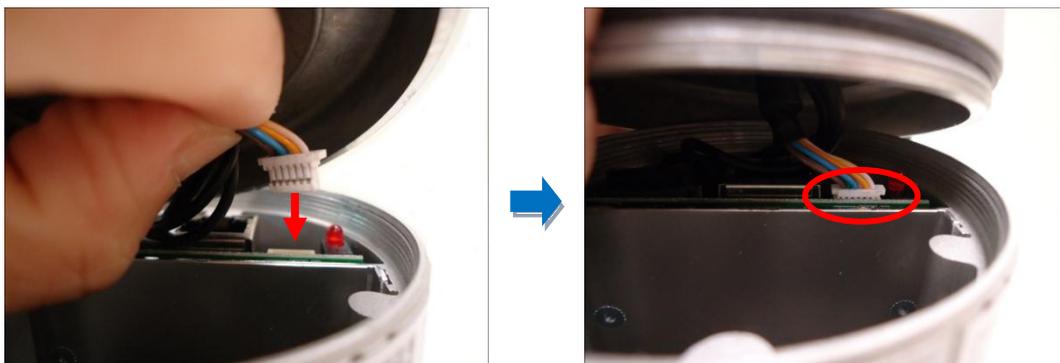


**NOTE:** Connectors are connected inside the camera, do not abruptly lift the cover.

5. Insert the memory card, with the metallic contacts facing down, into the slot until it clicks into place.



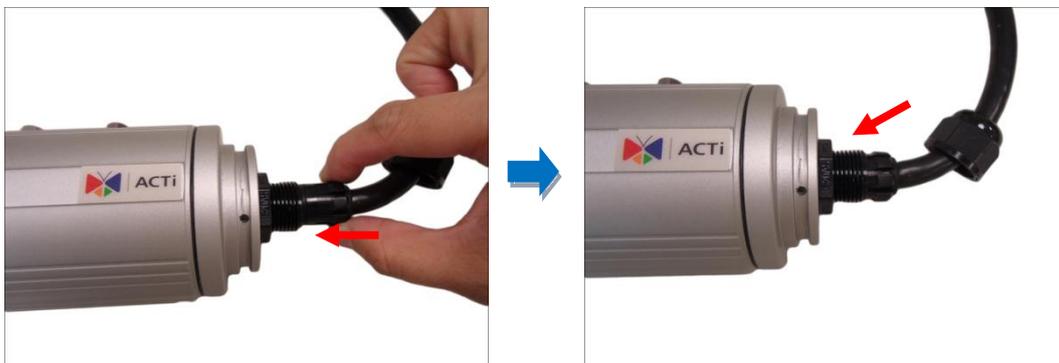
6. Before closing the back cover, make sure the Ethernet cable connector is connected to the main board. If the cable is disconnected, connect as shown below.



7. Attach the back cover.



8. Push the rubber insert into the gland and attach the clamping nut.



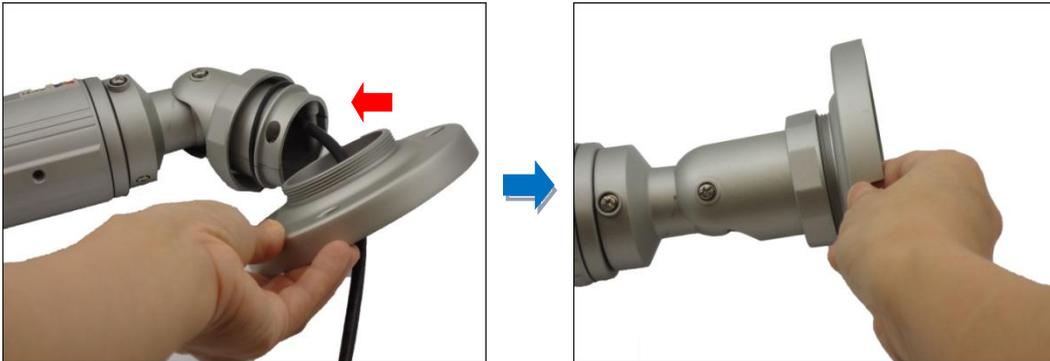
**NOTE:** Make sure the clamping nut is tightly attached to ensure that the connection is waterproof.

9. Attach the integrated bracket and secure the three (3) screws.



## Step 2: Mount the Camera

1. Attach the bracket to the camera.



2. Mark the location of the screw holes based on the drill template included in the package.  
**NOTE:** Depending on the surface where you will install the camera, it may be necessary to drill three (3) holes and use the supplied screw tox.
3. Attach the camera to the surface using the three (3) supplied screws.
4. Adjust the camera installation angle and orientation, and then tighten the two (2) screws to fix its position.



## Step 3: Waterproof and Connect the Cable(s)

The camera and the pre-installed network cable, “pigtail”, are resistant to salt, water, weak acid, alcohol, oil, grease and other common solvents. However, users must ensure that the cable connection and the network side cable itself are also protected from different environmental factors.

For Ethernet connection, there are two waterproofing methods.

| Bundled Accessory  | Description  |
|--|--|
| <p data-bbox="236 658 389 685">Cable Gland</p>       | <p data-bbox="647 658 1313 831">Use this solution when connecting an Exterior-grade Ethernet cable between the camera and a Power-over-Ethernet (PoE) switch or injector. See <a href="#">How to Use the Cable Gland</a> on page 15.</p>   |
| <p data-bbox="236 1046 411 1072">Conduit Gland</p>  | <p data-bbox="647 1046 1334 1267">Use this solution when connecting a standard indoor Ethernet cable between the camera and a Power-over-Ethernet (PoE) switch / injector. A flexible conduit (trade size 1/2”) is required to house the Ethernet cable. See <a href="#">How to Use the Conduit Gland</a> on page 18.</p> <p data-bbox="647 1301 1294 1379"><b>NOTE:</b> The flex conduit is not included in the package and must be purchased separately.</p> |

Audio and digital input/output devices can be connected to the camera, for more information, see [Other Connections](#) on page 23.

### How to Use the Cable Gland

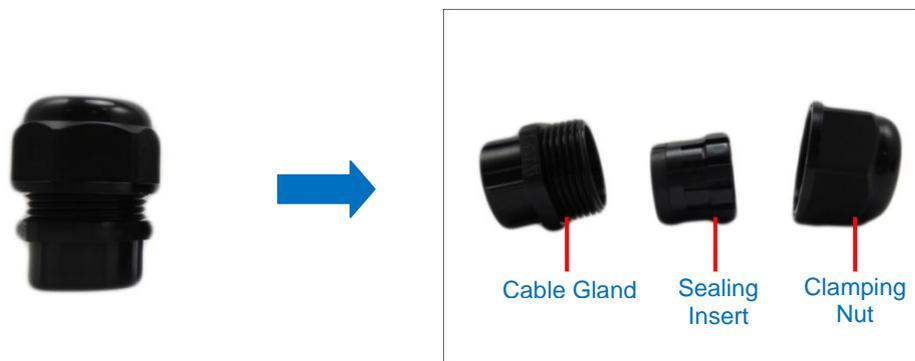
This section describes how to waterproof the cable-out or “pigtail” of the camera using the bundled cable gland. An exterior-grade Ethernet cable is required. The camera may or may not have to be installed first before doing the cable connections (see related installation procedures for details).

Before connection, prepare the following materials:

| Cable Gland<br>(included in the camera package)                                     | Exterior-Grade Ethernet Cable<br>(not included in the package)   |
|---|--|
|    |  <p><b>NOTE:</b> Exterior-grade cables are already waterproof. <i>Not included in the package.</i></p> |
| Washer<br>(included in the camera package)  |  |
|  |  |

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

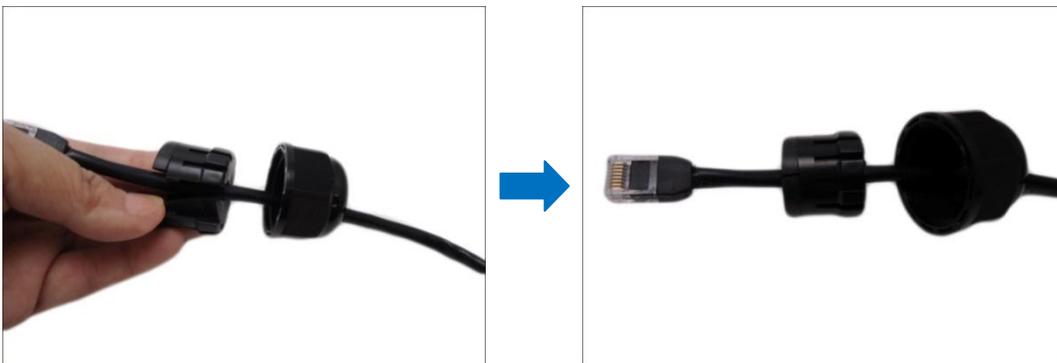
1. Disassemble the cable gland as shown below:



2. Insert the clamping nut into the Ethernet cable.



3. Insert the sealing insert with claw.



4. Insert the gland body into the Ethernet cable.



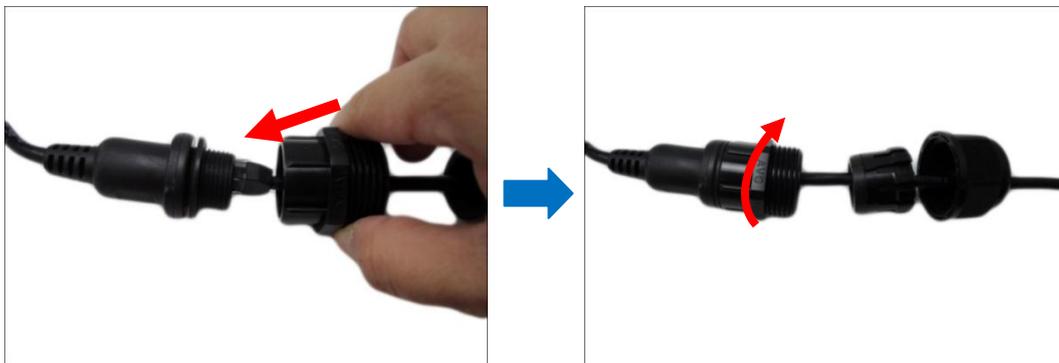
5. On the "pigtail" side, insert the washer into the "pigtail".



6. Connect the Ethernet cable connector to the “pigtail” connector.

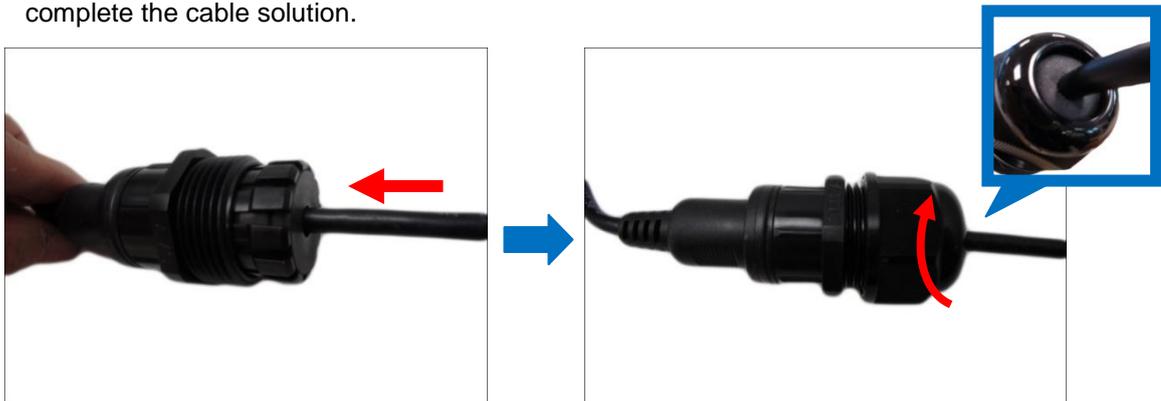


7. Attach the gland body to the “pigtail”.



**NOTE:** Make sure the gland body is tightly attached to the “pigtail” and the washer is secured between them.

8. Insert the sealing insert into the cable gland body and then attach the clamping nut 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 Use the Conduit Gland

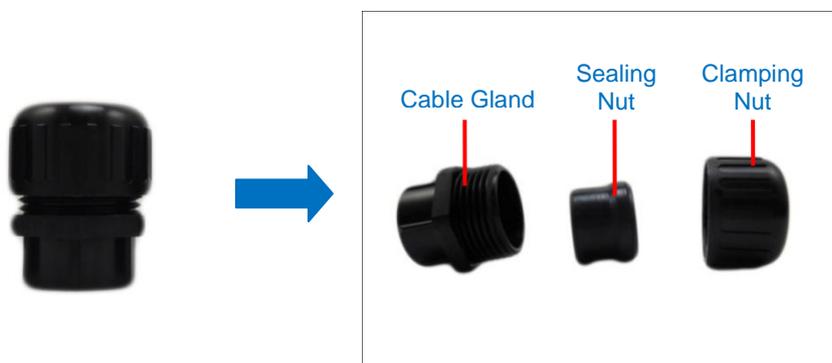
This section describes how to waterproof the cable-out or “pigtail” of the camera using the bundled conduit gland and flexible conduit. This is the recommended solution if an exterior-grade Ethernet cable is not available.

Before connection, prepare the following materials:

| <b>Conduit Gland</b><br>(included in the camera package)                            | <b>Flexible Conduit</b><br>1/2" Trade size<br>(not included in the package)   |
|---|---|
|    |  <p><b>NOTE:</b> Not included in the package.</p> |
| <b>Washer</b><br>(included in the camera package)                                   | <b>Ethernet Cable</b><br>CAT 5 or CAT 6<br>(not included in the package)  |
|  |   |

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

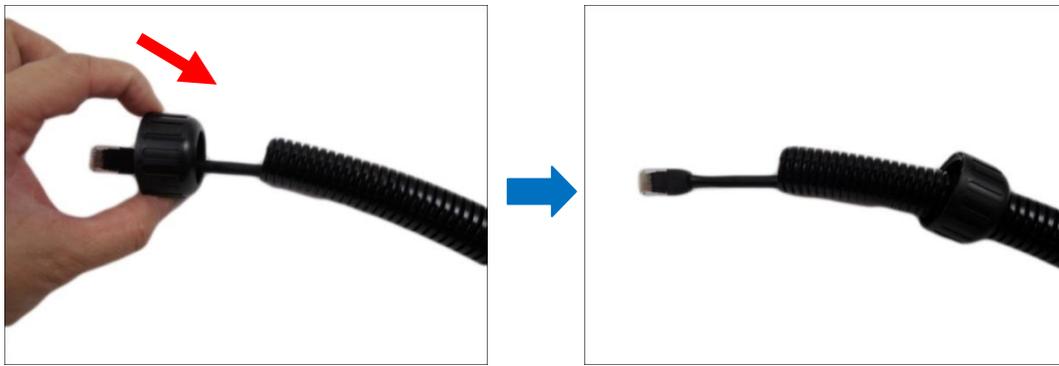
1. Disassemble the conduit gland as shown below:



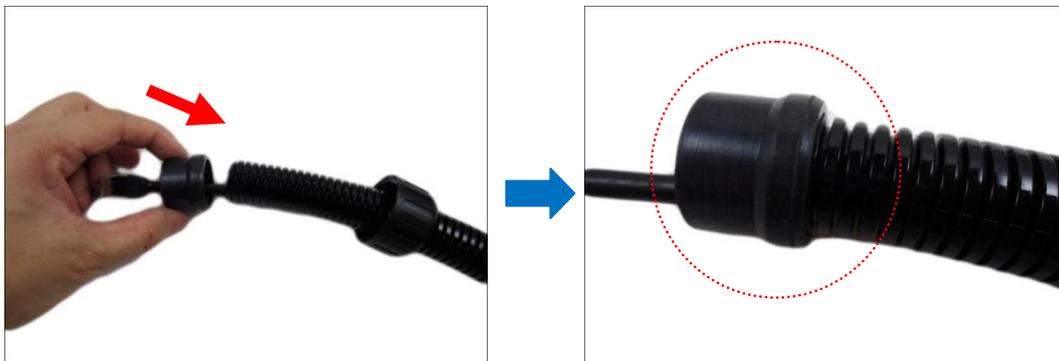
2. Pull the Ethernet cable through the flex conduit. Leave enough length of the cable outside the flex conduit.



3. Insert the clamping nut through the flex conduit.



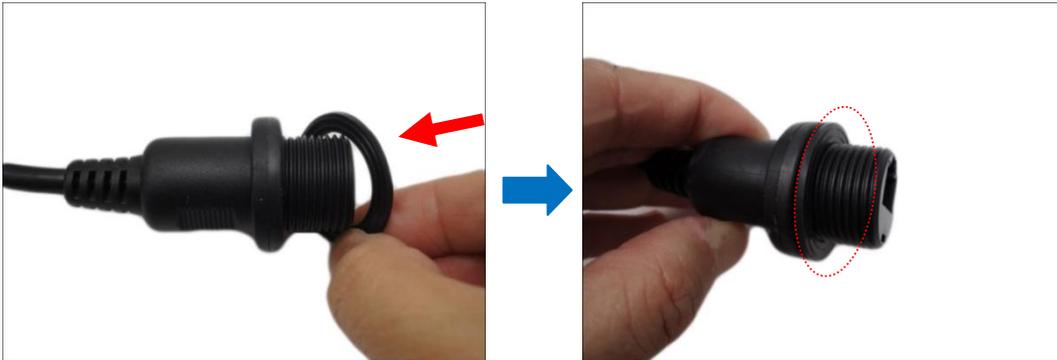
4. Insert the sealing nut and fix it at the end of the flex conduit.



5. Insert the gland body into the Ethernet cable.



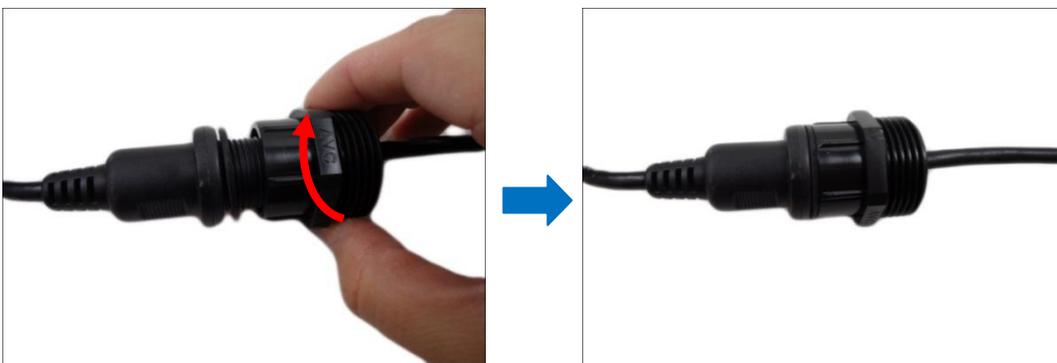
6. On the “pigtail” side, insert the washer into the “pigtail”.



7. Connect the Ethernet cable connector to the “pigtail” connector.

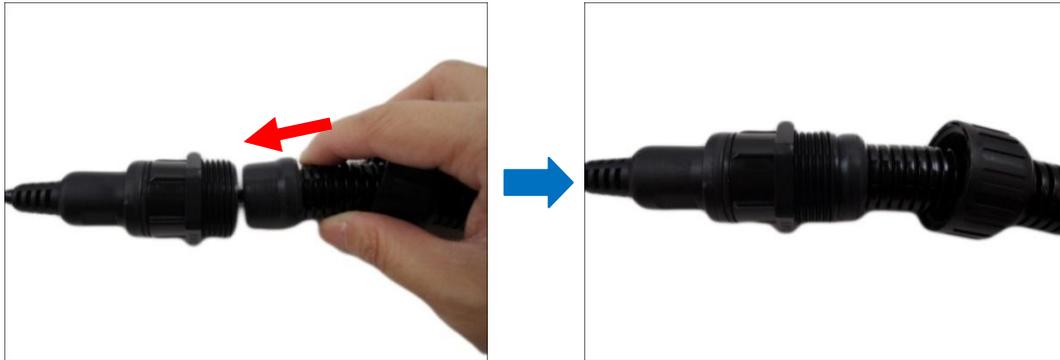


8. Attach the gland body to the “pigtail”.



**NOTE:** Make sure the gland body is tightly attached to the “pigtail” and the washer is secured between them.

9. Push the flex conduit and insert the sealing nut into the gland body.



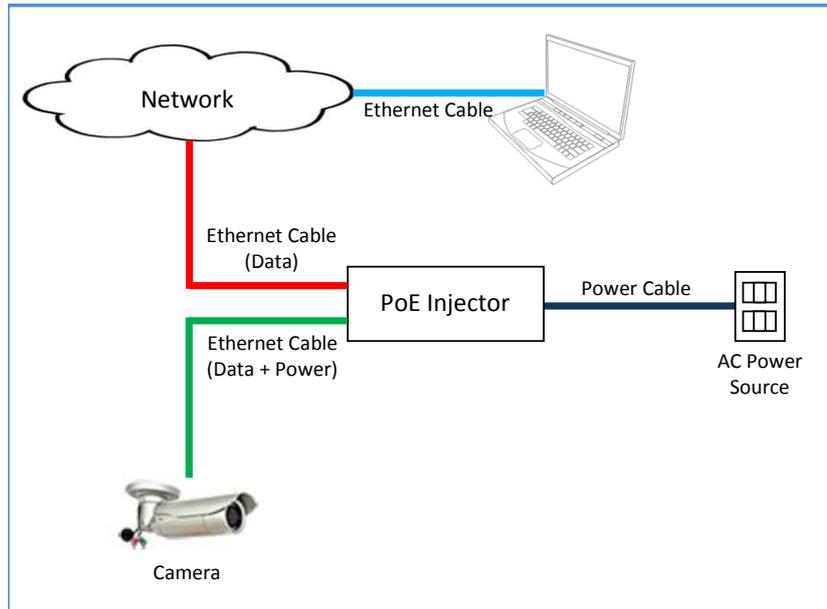
**NOTE:** Make sure the clamping nut is tightly attached to the cable gland body and the sealing insert is squeezed tightly.

10. Attach the clamping nut to complete the cable solution.



## 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, PC, and a power source. See Power-over-Ethernet (PoE) connection example below.

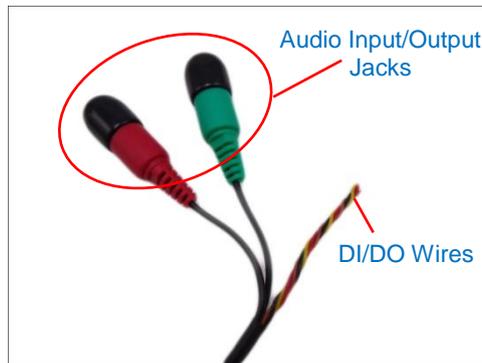


## Step 5: Access the Camera Live View

See [Accessing the Camera](#) on page 33 for more information on how to access the Live View of the camera.

## Other Connections

This section describes the procedures in connecting Digital Input and Output (DI/DO) and Audio Input and Output devices. The use of these devices, however, is optional.



**NOTE:** If these connectors will not be used, leave the rubber caps on and the wires twisted together to ensure cables remain waterproof and eliminate short-circuit hazards.

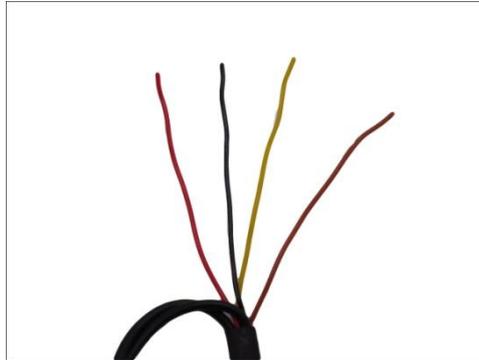
### How to Connect DI/DO Devices (Optional)

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.

### Understanding the DI/DO Cables

You can connect up to one (1) DI and one (1) DO device to your camera.



| Digital Input Cables        | Cable Color | Wiring Connection  |
|-----------------------------|-------------|--|
| Ground Pin ( <b>GND</b> )   | Black       | To connect a digital input device, map the digital input device wires to <b>DI</b> (red) and <b>GND</b> (black) wires. |
| Digital Input ( <b>DI</b> ) | Red         |  |

| Digital Output Cables        | Cable Color | Wiring Connection  |
|------------------------------|-------------|--|
| 12V ( <b>12V</b> )           | Yellow      | To connect digital output devices, map the digital output device wires to <b>12V</b> (yellow) and <b>DO</b> (brown) wires. |
| Digital Output ( <b>DO</b> ) | Brown       |  |

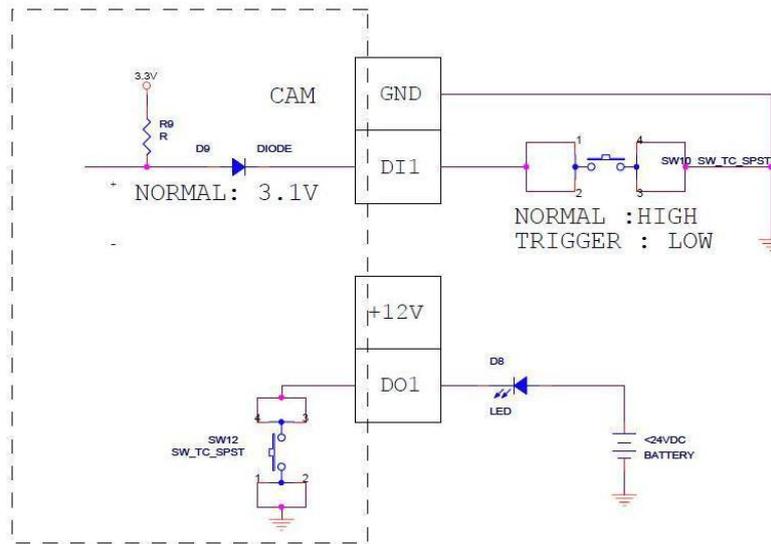
The table below shows the DI/DO connection specifications:

| Device |                   |                  |                               |
|--------|-------------------|------------------|-------------------------------|
| DI     | Connection design |                  | TTL - compatible logic levels |
|        | Voltage           | To trigger (low) | Logic level 0: 0V ~ 0.4V      |
|        |                   | Normal (high)    | Logic level 1: 3.1V ~ 30V     |
|        | Current           |                  | 10mA ~ 100mA                  |
| DO     | Connection design |                  | Transistor (Open Collector)   |
|        | Voltage & Current |                  | < 24V DC, < 50mA              |

### Typical Connection

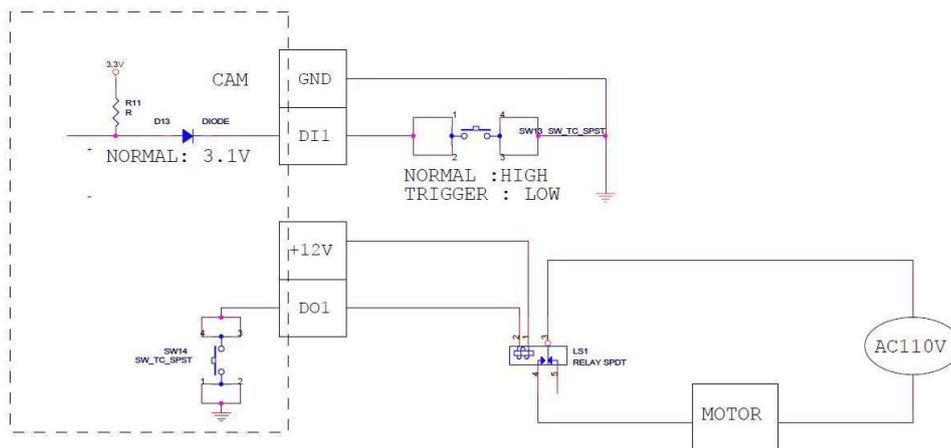
Based on these specifications, if the DI device has a voltage of 0V ~ 30V or the DO device has a voltage of < 24V (< 50mA), then the camera can supply internal power to these devices and there is no need to connect the DI/DO device to an external power source.

In this case, wire connection to Pins 1 to 4. Use the **DIO GND** and **DI** pins to connect a DI device and use the **DIO PW** and **DO** pins to connect a DO device. See wiring scheme below:



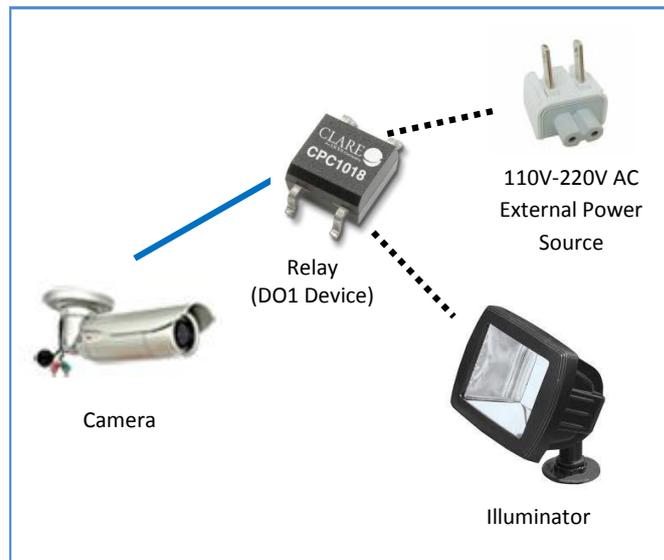
### High Voltage DO Device Connection

Even though the camera provides 12V power, this may not be enough for some high voltage DO devices, such as a ceiling light or a motor that opens or closes a gate. In this case, there is a need to connect an external relay. See wiring scheme below:



Note that when choosing an appropriate relay, please refer to its specifications and make sure they match the above design. The triggering circuit voltage has to be around 12V DC and the switch-controlled circuit voltage has to match the external power supply (e.g. 110V AC or 220V AC).

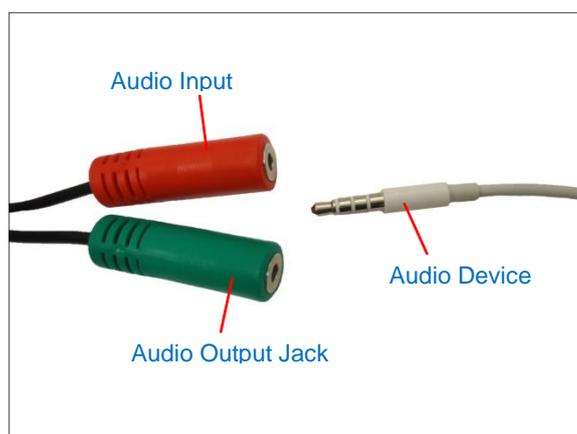
The illustration below is a graphic example of connecting a relay to a high voltage DO device.



**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://www.acti.com/kb/detail.asp?KB\\_ID=KB20091230001](http://www.acti.com/kb/detail.asp?KB_ID=KB20091230001)).

## How to Connect Audio Input / Output Devices (Optional)

If using an audio input device, such as a microphone with a built-in amplifier, connect the device to the **Audio Input** jack (RED) of the camera. If using an audio output device, such as a speaker, connect the device to the **Audio Output** jack (GREEN) jack of the camera.



**NOTE 1:** Make sure that the connected audio input device has a built-in amplifier. Connecting an ordinary microphone will dwarf sounds and will result in inaudible recording.

**NOTE 2:** If the audio connectors will not be used, leave the rubber caps on to ensure cables remain waterproof and eliminate short-circuit hazards.

# Other Adjustments and Accessories

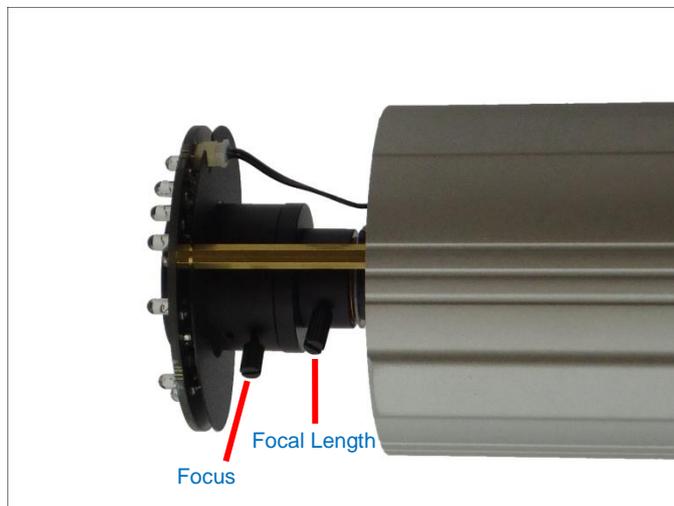
## Adjust the Viewing Angle

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1. Open the front cover.



2. Based on the live view from the camera, adjust the focal length and focus of the target area.



3. When done, close the front cover.

**CAUTION:** The front cover must be tightly closed to ensure water or dust does not go through any opening.

## Attach the Sunshield

The use of sunshield is optional if the camera will be installed indoors. However, if the camera will be installed outdoors, attach the sunshield to protect the lens from all types of weather and lighting conditions.

1. Loosely secure the supplied screws and washers to attach the sunshield.



2. Slide to adjust the sunshield to cover the lens as far as possible but out of the camera's live view.



3. Tighten the screws to fix the position of the sunshield. See final installation below.



## Reset the Camera

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The camera has a **Reset** button that can be used to restore the camera to its factory default settings when the need arises.

The **Reset** button is used for the following purposes:

- The administrator's password is forgotten and therefore the camera cannot be accessed
- In case of IP address, mask, or allow/deny filter related issues, resulting with the inability to modify these settings
- In case of connectivity issues or abnormal video quality

### How to Reset the Camera?

Do the following procedures to access the Reset button and restore the camera its default factory settings.

1. Remove the three (3) screws securing the integrated bracket.



2. Detach the integrated body from the camera back cover.

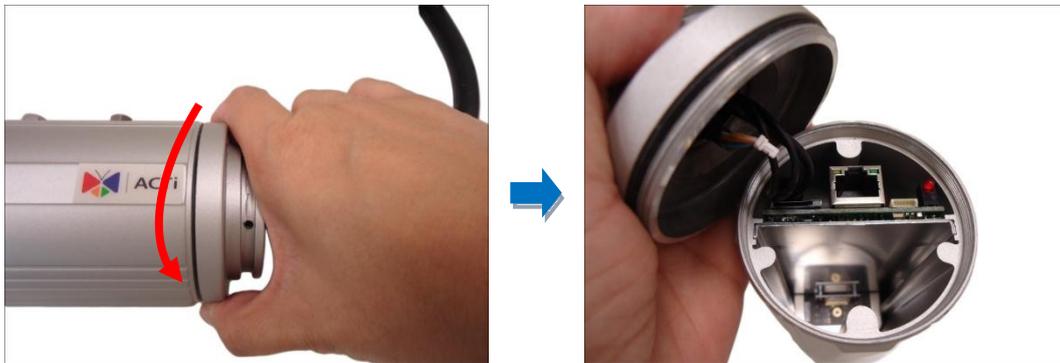


3. Remove the clamping nut and rubber insert to loosen the cable within the gland.

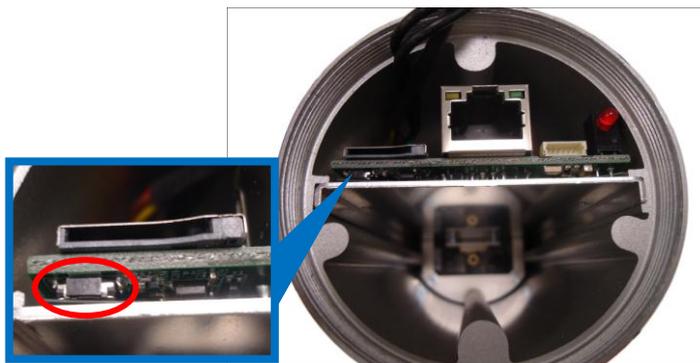


**NOTE:** Connectors are connected inside the camera, be careful when pulling the rubber insert from the gland.

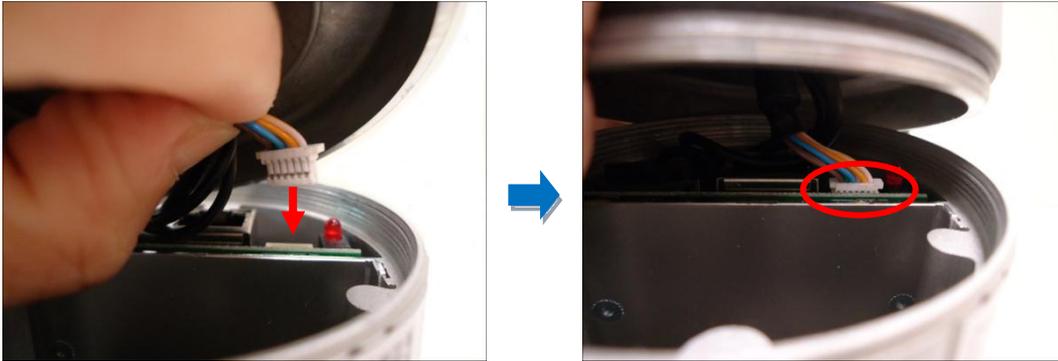
4. Twist to open the back cover and slowly lift the cover.



5. To reset the camera, press and hold the Reset button for at least 5 seconds or until the LED lights up.



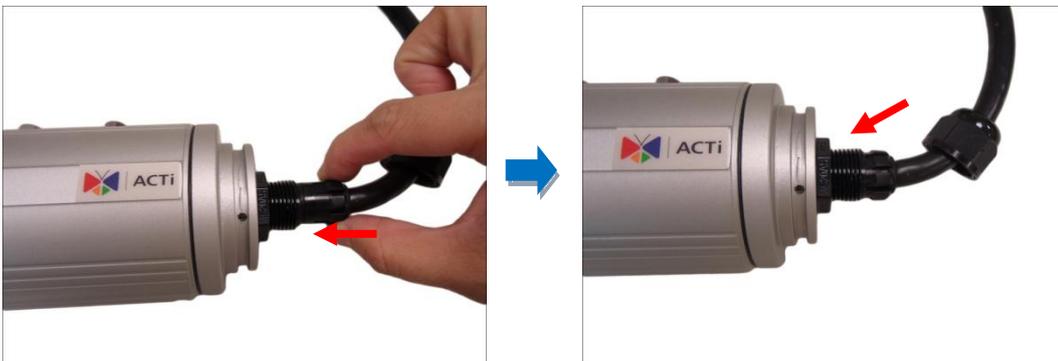
- Before closing the back cover, make sure the Ethernet cable connector is connected to the main board. If the cable is disconnected, connect as shown below.



- Attach the back cover.

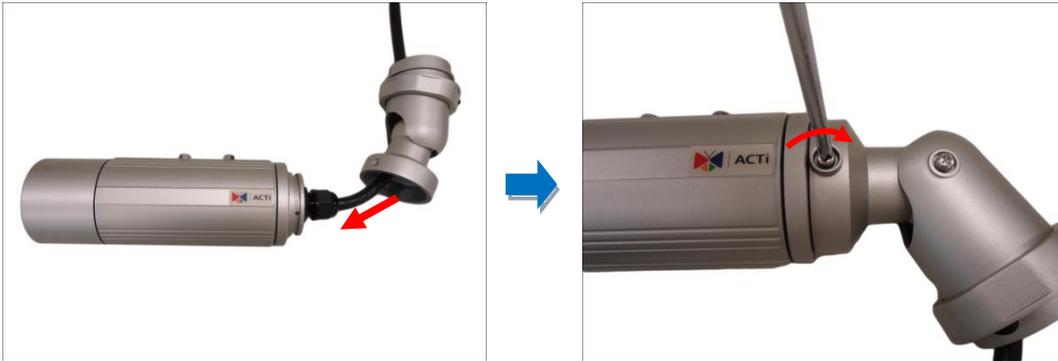


- Push the rubber insert into the gland and attach the clamping nut.



**NOTE:** Make sure the clamping nut is tightly attached to ensure that the connection is waterproof.

9. Attach the integrated bracket and secure the three (3) screws.



# Accessing the Camera

## Configure the IP Addresses

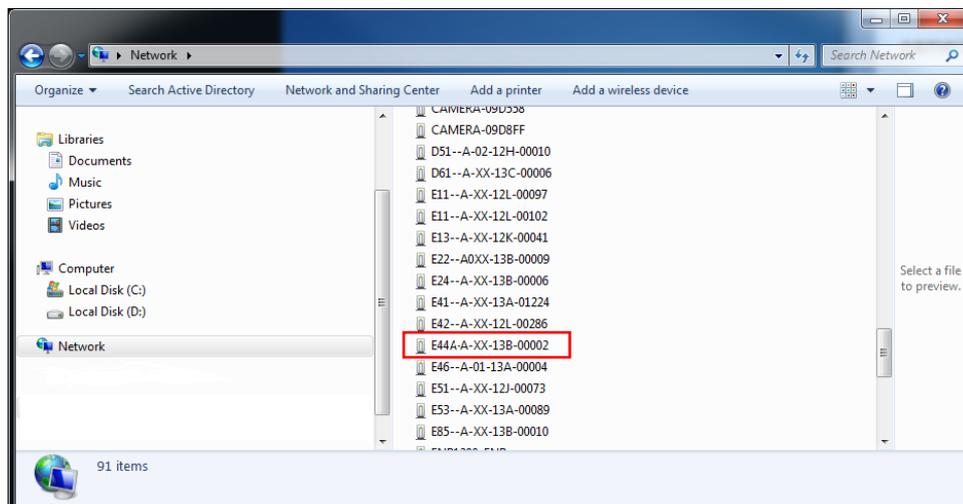
In order to be able to communicate with the camera from your PC, both the camera and the PC have to be within the same network segment. In most cases, it means that they both should have very similar IP addresses, where only the last number of the IP address is different from each other. There are 2 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.

**The quickest way to discover the cameras in the network** is to use the simplest network search, built in the Windows system – just by pressing the “Network” icon, all the cameras of the local area network will be discovered by Windows thanks to the UPnP function support of our cameras.

In the example below, we successfully found the camera model that we had just connected to the network.

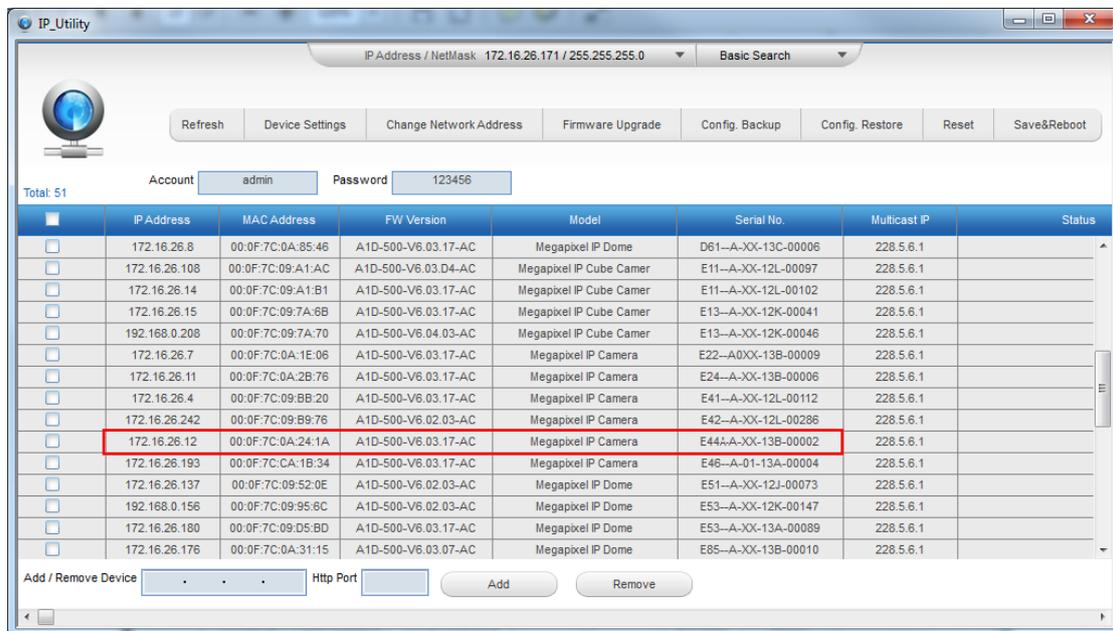


By double-clicking with the left mouse on the camera model, it is possible to automatically launch the default browser of the PC with the IP address of the target camera filled in the address bar of the browser already.

If you work with our cameras regularly, then **there is even 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](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. 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.

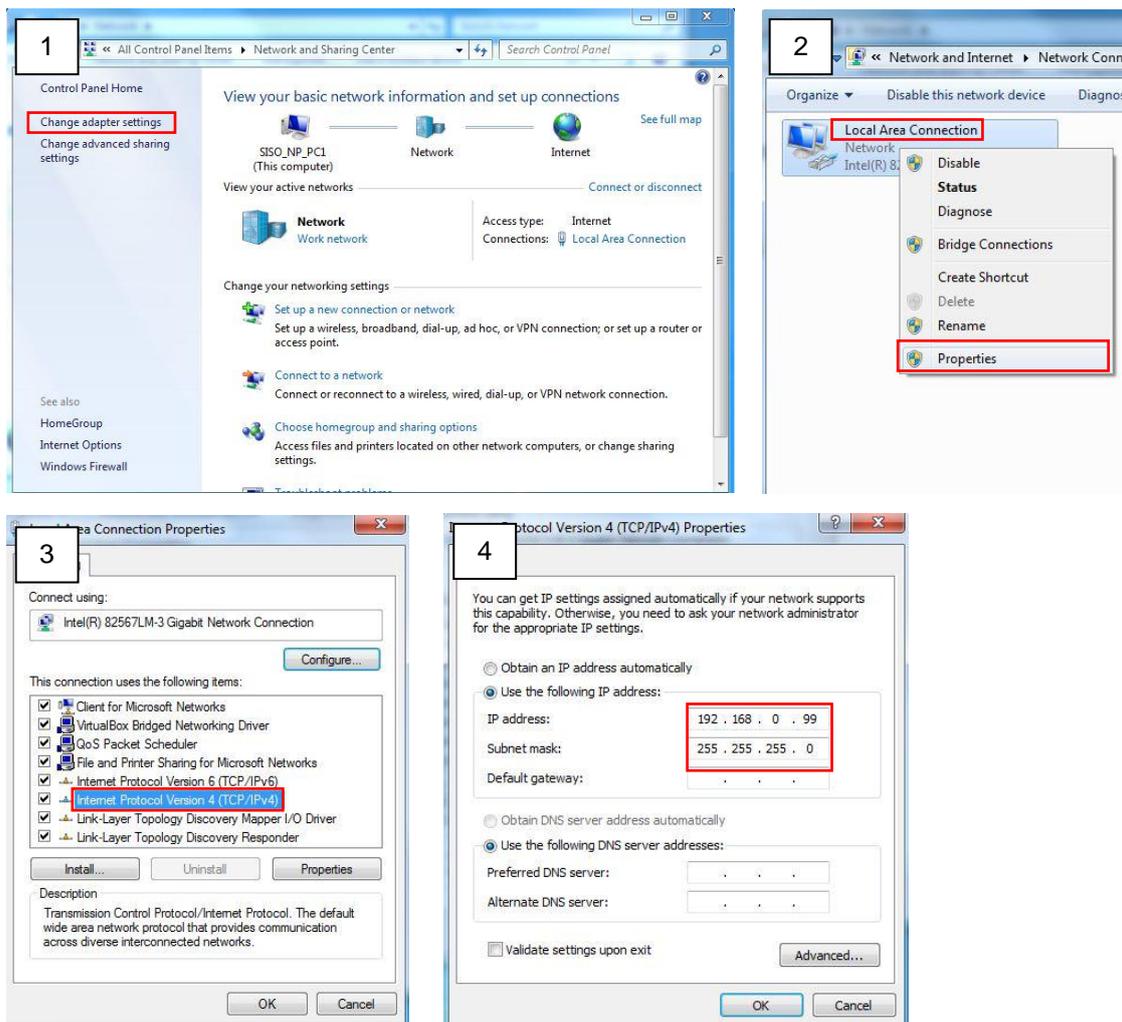
When the camera is plugged into network and it does not detect any DHCP services, it will automatically assign itself a default IP:

**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.

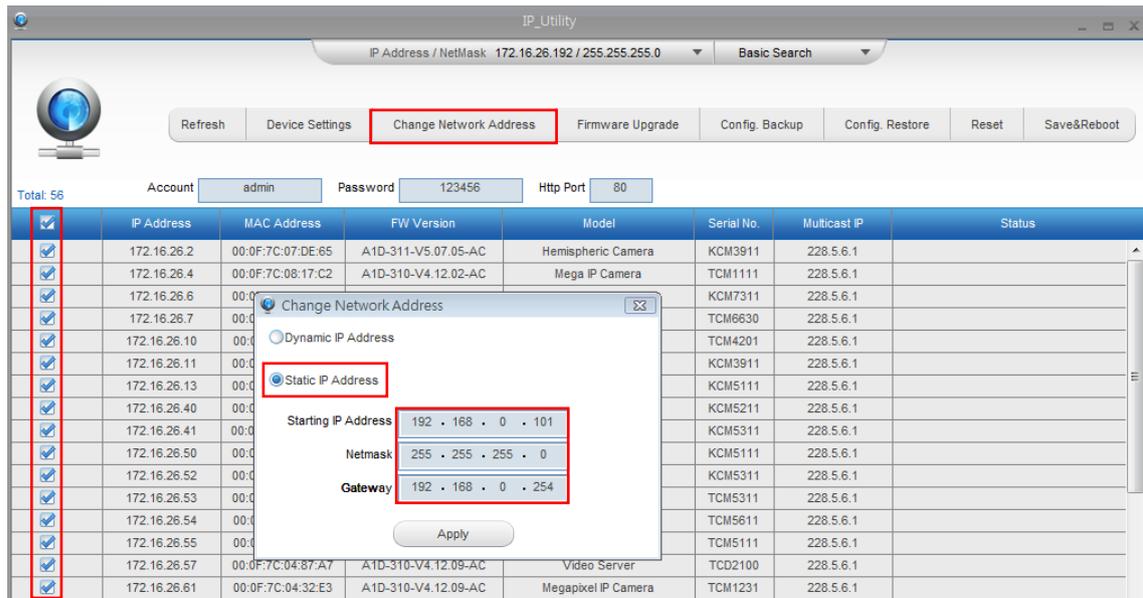
### Manually adjust the IP address of the PC:

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 **any of the browsers** to access the camera, however, the full functionality is provided only for **Microsoft Internet Explorer**.

The browser functionality comparison:

| Functionality  | Internet Explorer | Other browsers |
|--|-------------------|----------------|
| Live Video   | Yes               | Yes*           |
| Live Video Area Resizable  | Yes               | No             |
| PTZ Control  | Yes               | Yes            |
| Capture the snapshot   | Yes               | Yes            |
| Video overlay based configuration (Motion Detection regions, Privacy Mask regions) | Yes               | No             |
| All the other configurations   | Yes               | Yes            |

\* When using non-Internet Explorer browsers, free third-party software plug-ins must be installed to the PC first to be able to get the live video feed from the camera:

| Browser                              | Required Plug-In  |
|--------------------------------------|---|
| Safari                               | QuickTime ( <a href="http://www.apple.com/quicktime/download/">http://www.apple.com/quicktime/download/</a> ) |
| Other non-Internet Explorer browsers | Basic VLC Media Player ( <a href="http://www.videolan.org">http://www.videolan.org</a> )                      |

***Disclaimer Notice:** The camera manufacturer does not guarantee the compatibility of its cameras with QuickTime or VLC Player – since these are third party softwares. The third parties have the right to modify their utility any time which might affect the compatibility. In such cases, please use Internet Explorer browser instead.*

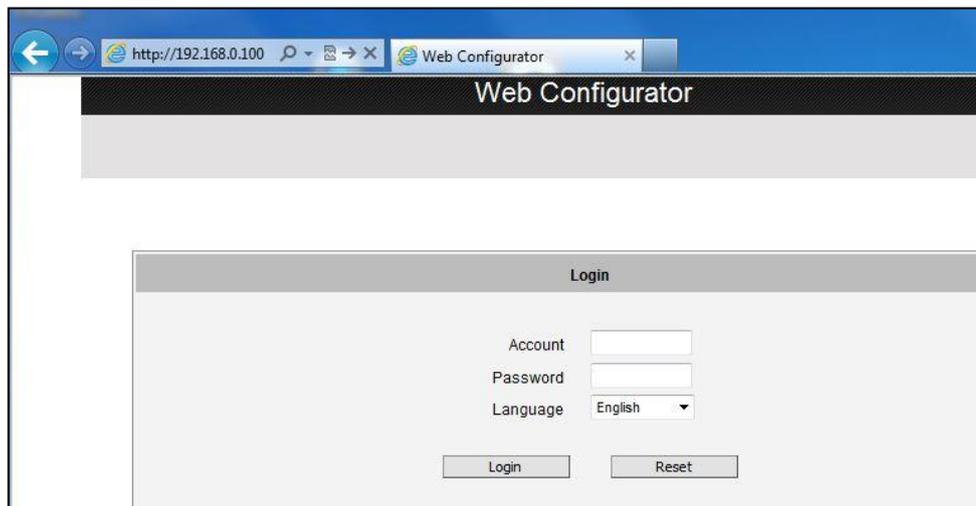
When using Internet Explorer browser, the ActiveX control for video stream management will be downloaded from the camera directly – the user just has to accept the use of such control when prompted so. No other third party utilities are required to be installed in such case.

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 know the factory default Account and Password of the camera.

Account: **Admin**

Password: **123456**



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