







## 1. Package Contents

Thank you for purchasing POEOD1GAT Industrial IP67 1-port 10/100/1000T 802.3at PoE+ Injector. In the following sections, the term "Outdoor PoE Injector" means the POEOD1GAT.

Open the box of the Industrial PoE Injector and carefully unpack it. The box should contain the following items:

POEOD1GAT x 1	M22 Waterproof Cable Gland x 3	User's Manual x 1
		
Wall-mounted Kit x 1	Power Cable with 2-pin Terminal Block x 1	Ground Wire x 1
		

If any of these are missing or damaged, please contact your dealer immediately; if possible, retain the carton including the original packing material, and use them again to repack the product in case there is a need to return it to us for repair.

**Remarks:** The color of the ground wire is different according to the batch, but its wire specifications meet the standard.

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## 2. Hardware Introduction

This section describes the functionalities of the outdoor PoE Injector's components.

### 2.1 Product Outlook

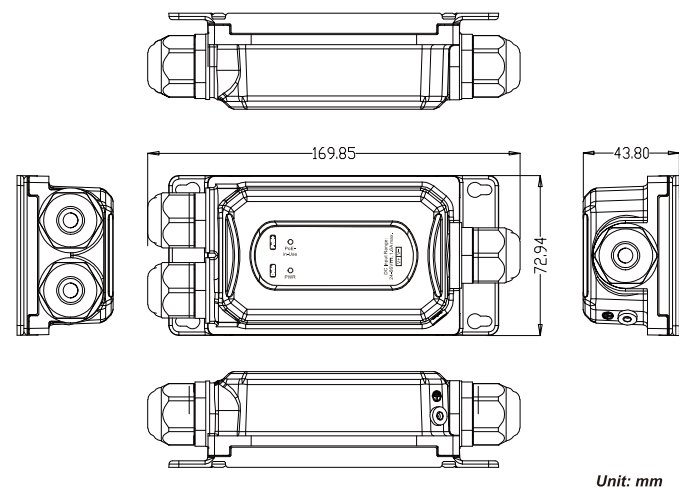


Figure 2-1: POEOD1GAT product outlook

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### 2.2 Power Input Port

Figure 2-2 shows the power input port side of the POEOD1GAT

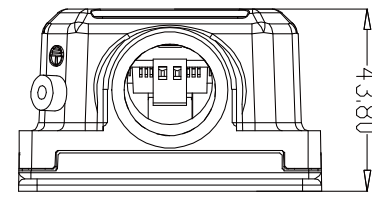


Figure 2-2: POEOD1GAT Power Input Port Side

### 2.3 Data Input Port and 802.3at PoE+ Output Port

Figure 2-3 shows the data input port and PoE+ output port side of the POEOD1GAT.

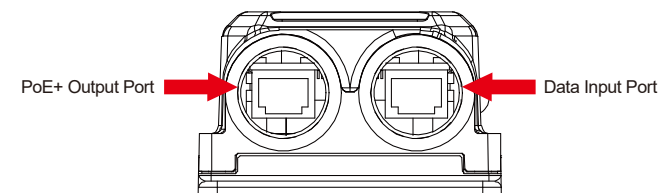


Figure 2-3: POEOD1GAT Two RJ45 Ports Side

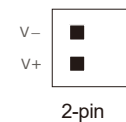
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### 2.4 LED Indicators

LED	Color	Function
PWR	Green	Indicates it has power.
PoE-in-Use	Green	Indicates the port is providing 54V DC in-line power.

To install the 2-pin Terminal Block Connector on the Outdoor PoE Injector, simply follow the following steps:

**Step 1:** Insert positive DC power wire into V+, negative DC power wire into V-, and grounding wire into Ground.



**Step 2:** Tighten the wire-clamp screws for preventing the wires from loosening and plug them into the Wall-mount Gigabit Ethernet Router.

**Note**

- The wire gauge should be in the range from 20 to 22 AWG.
- The device must be grounded.**

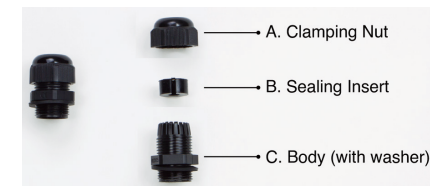
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## 3. Installation

This section describes how to install the Outdoor PoE Injector and make connections to it. Please read the following topics and perform the procedure in the order being presented.

### 3.1 Installing Cable Gland with Power Cable and RJ45 UTP Cable

The cable gland consists of the following:



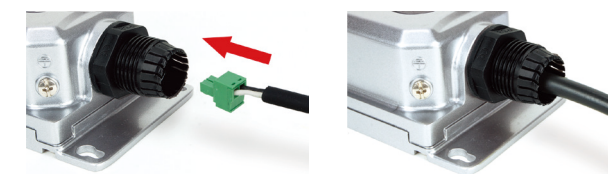
### 3.2 Connecting Waterproof Cable Kit to the Outdoor PoE Injector

**Step 1:** Turn clockwise to tighten the gland body connected to the Outdoor PoE Injector.

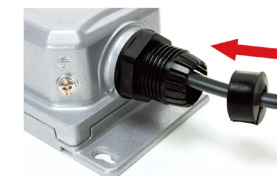


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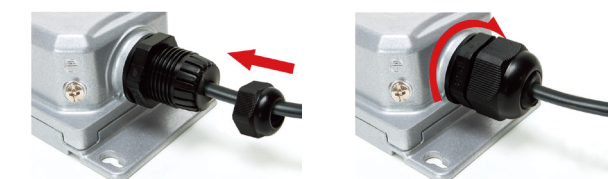
**Step 2:** Plug the power cable connector into the power input port.



**Step 3:** Insert the sealing insert into the cable gland body.



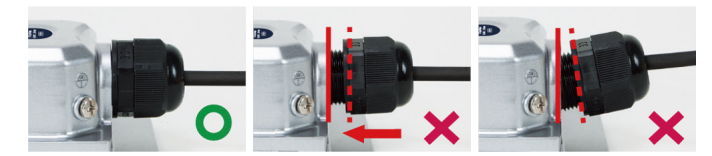
**Step 4:** Attach the clamping nut to the cable gland to complete the cable assembly.



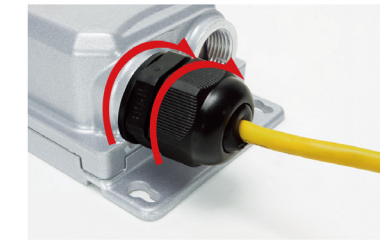
**Caution**

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

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**Step 5:** Repeat Steps 1 to 4 for "Data" Input Port and "PoE (Data + Power)" Output Port.

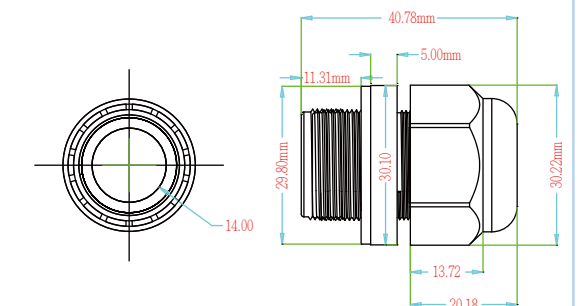


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- Use only the waterproof cable gland provided in the package of the POEOD1GAT.
- If the above installation procedure is not properly followed, the warranty will be invalidated.
- If the waterproof cable gland is found missing or damage, please contact your local reseller where you purchased from.



Note



- Never use any waterproof cable gland that is not purchased from L-com or doesn't have the same dimensions of the POEOD1GAT; it will damage the device permanently.

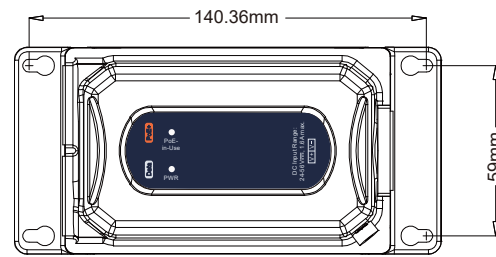
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### 3.3 Wall-mount Installation

To install the Outdoor PoE Injector on the wall, please follow the instructions described below.

**Step 1:** Find the wall that you want to mount the Outdoor PoE Injector on.

**Step 2:** Refer to the picture below to screw the four screws on the wall



**Step 3:** Use a screwdriver to screw them into the wall.



**Step 2:** The **PoE+ Out** port is the power injector which transmits DC voltage to the Cat5e/6 cable and transfer data from the Data source.

**Step 3:** Once the POEOD1GAT detects the existence of an IEEE 802.3at/af device or Ethernet device, the **LAN** LED indicator will be lit steadily, showing it is providing power.



According to IEEE 802.3at/af standard, the POEOD1GAT will not inject power to the cable if not connected to a standard IEEE 802.3at/af device.

### Customer Support

Thank you for purchasing L-com products. You can browse our online resources and User's Manuals on [www.L-com.com](http://www.L-com.com). If you require sales or support information, please contact the L-com support team using the information found below.



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### Industrial IP67 1-port 10/100/1000T 802.3at PoE+ Injector

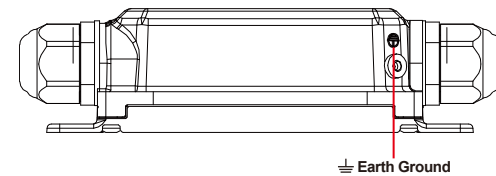


Model: POEOD1GAT

User's Manual

### 3.4 Grounding the Device

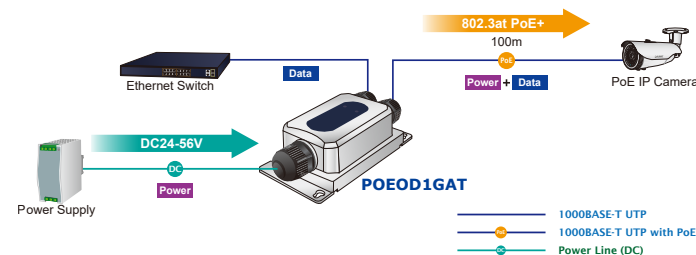
Users **MUST** complete grounding wired with the device; otherwise, a sudden lightning could cause fatal damage to the device.



EMD (Lightning) DAMAGE IS NOT COVERED UNDER WARRANTY.

### 3.5 Connecting POEOD1GAT to PD

**Step 1:** Connect the additional Cat5e/6 cable from the **PoE+ Out** of the POEOD1GAT to a remote **PD**.



### 4. Product Specifications

Product		POEOD1GAT												
Hardware Specifications														
Interface	Input Port	1 x 10/100/1000BASE-T "Data" in RJ45 port												
	Output Port	1 x 10/100/1000BASE-T Ethernet with IEEE 802.3at PoE+ "Data + DC" out RJ45 port												
	Input Power Terminal Block	1 x 2-pin terminal block - Pin 1/2 for Power (Pin 1: V+/Pin 2: V-)												
Network Cable		10BASE-T: UTP category 3, 5 cable (≤100m) 100BASE-TX: UTP category 5, 5e cable (≤100m) 1000BASE-T: UTP category 5e, 6 cable (≤100m)												
Data Rate		10/100/1000Mbps												
LED Indicator		PWR (Green) PoE-in-use x 1 (Green)												
Input Voltage		24~56V DC												
Power Consumption		<table border="1"> <thead> <tr> <th>Voltage</th> <th>System on</th> <th>Full Load (Max.)</th> </tr> </thead> <tbody> <tr> <td>DC 24V</td> <td>0.72W</td> <td>43.4W</td> </tr> <tr> <td>DC 36V</td> <td>0.72W</td> <td>41.04W</td> </tr> <tr> <td>DC 54V</td> <td>1.08W</td> <td>40.5W</td> </tr> </tbody> </table>	Voltage	System on	Full Load (Max.)	DC 24V	0.72W	43.4W	DC 36V	0.72W	41.04W	DC 54V	1.08W	40.5W
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DC 36V	0.72W	41.04W												
DC 54V	1.08W	40.5W												

ESD Protection	Air 8KV DC Contact 6KV DC
Surge Protection	6KV
Enclosure	IP67-rated and IK10 aluminum metal case
Installation	Wall-mount ear
Dimensions (W x D x H)	150 x 43.8 x 72.94 mm 169.85 x 43.8 x 72.94 mm, with cable gland
Weight	339g 373g (with three waterproof cable glands)
MTBF	>100000 hours
Power over Ethernet	
PoE Standard	IEEE 802.3at Power over Ethernet Plus / End-span PSE Backward compatible with IEEE 802.3af Power over Ethernet
PoE Power Output	54V DC, max. 30 watts
PoE Power Supply Type	End-span
Power Pin Assignment	1/2 (+), 3/6 (-)
Standards Conformance	
Regulatory Compliance	FCC Part 15 Class A CE
Stability Testing	IEC 60068-2-32 (Free fall) IEC 60068-2-27 (Shock) IEC 60068-2-6 (Vibration)

Standards Conformances	IEEE 802.3 10BASE-T Ethernet IEEE 802.3u 100BASE-TX Fast Ethernet IEEE 802.3ab 1000BASE-T Gigabit Ethernet IEEE 802.3af Power over Ethernet IEEE 802.3at Power over Ethernet Plus
Environment	
Operating Temperature	-40 ~ 75 degrees C
Storage Temperature	-40 ~ 85 degrees C
Humidity	5 ~ 95% (non-condensing)



The PoE power output ability will depend on the distance.