# TP-LINK®
The Reliable Choice

# Installation Guide

- PoE Injector (TL-POE150S)
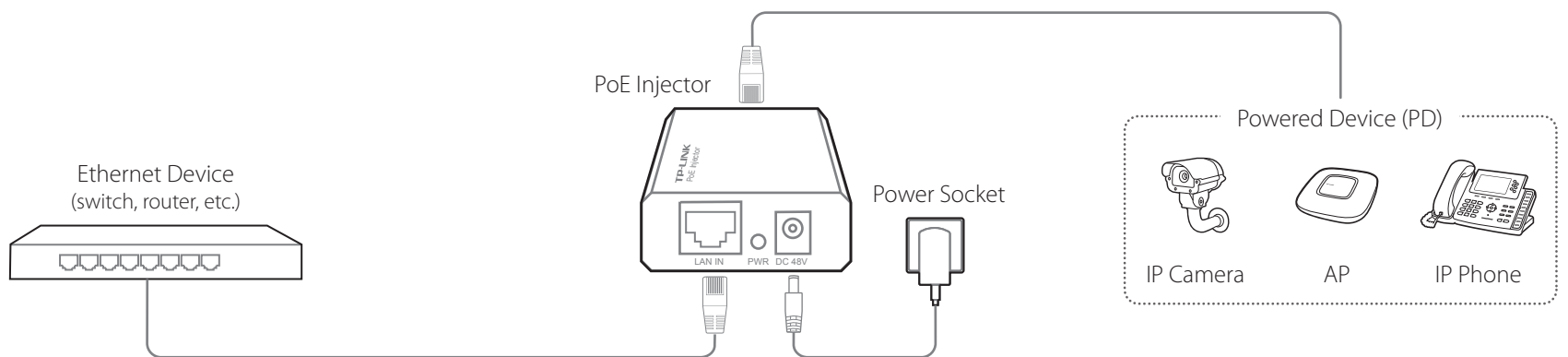- PoE Splitter (TL-POE10R)

Some models featured in this guide may be unavailable in your country or region. For local sales information, visit http://www.tp-link.com.
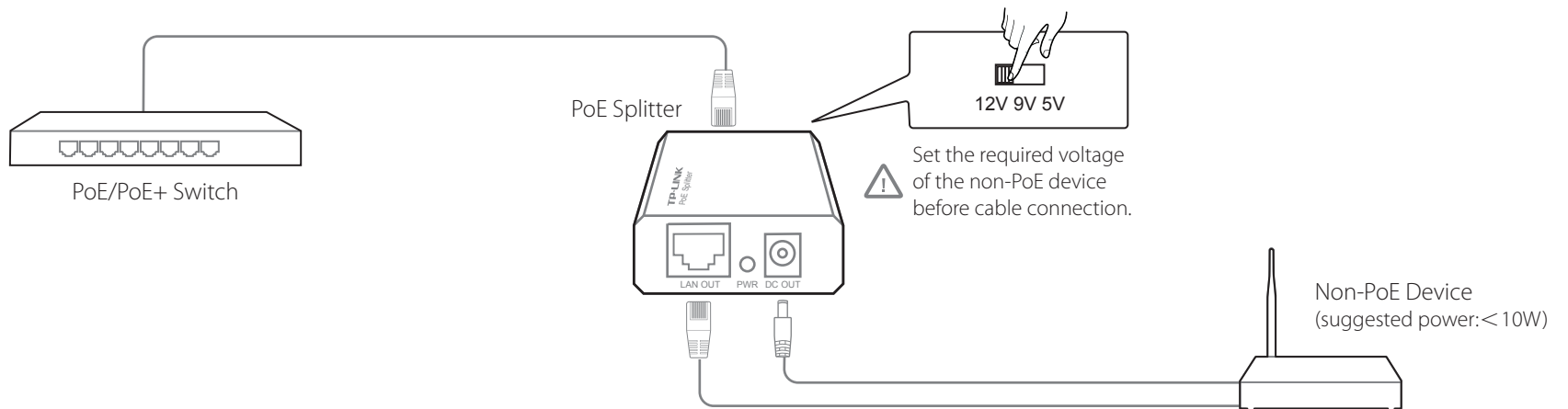
## PoE Injector Only

The PoE Injector supplies steady power and data connectivity to a powered device such as PoE IP Camera, PoE AP and PoE IP Phone through an Ethernet cable.
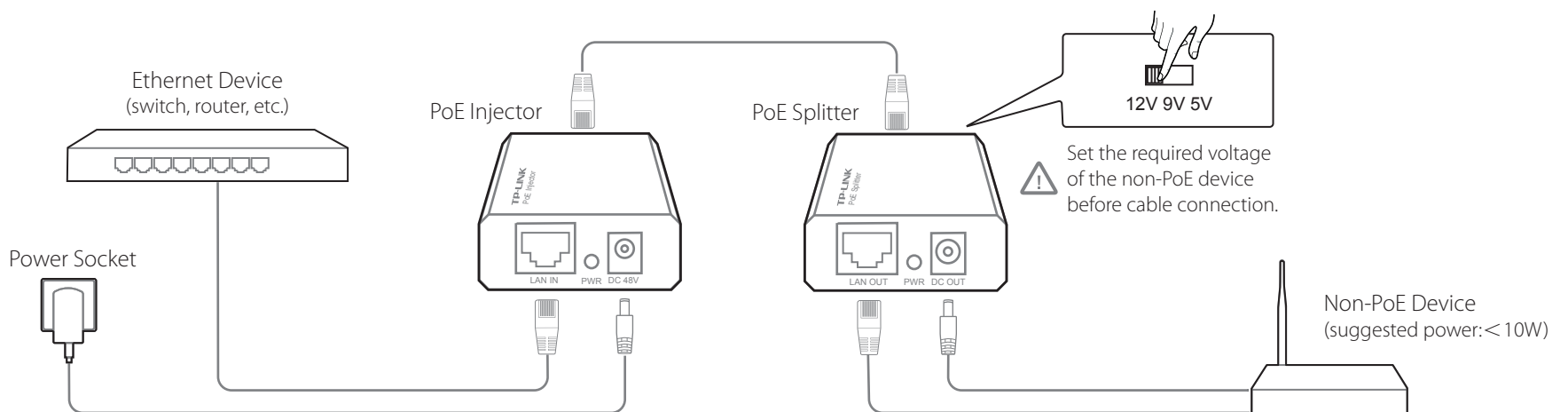


PoE Injector

Ethernet Device (switch, router, etc.)

Power Socket

Powered Device (PD)

IP Camera    AP    IP Phone

LAN IN    PWR    DC 48V

## PoE Splitter Only

The PoE Splitter can be used with a PoE/PoE+ switch to deliver direct current (DC) power and data to a Non-PoE device.



PoE Splitter

PoE/PoE+ Switch

12V 9V 5V

Set the required voltage of the non-PoE device before cable connection.

Non-PoE Device (suggested power:＜10W)

LAN OUT    PWR    DC OUT

## PoE Injector & Splitter

The PoE injector and PoE splitter can be used as a kit to supply power and transmit data to a Non-PoE device.



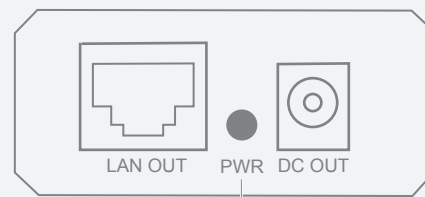Ethernet Device (switch, router, etc.)

PoE Injector

PoE Splitter

12V 9V 5V

Set the required voltage of the non-PoE device before cable connection.

Power Socket

Non-PoE Device (suggested power:＜10W)

LAN IN    PWR    DC 48V

LAN OUT    PWR    DC OUT

# Power LED Explanation

## PoE Injector:

LAN IN   PWR   DC 48V

**Steady blend of red & yellow:** No power supply
**Steady green:** Supplying power normally
**Flashing:** Supplying power abnormally

## PoE Splitter:

LAN OUT   PWR   DC OUT

**Flashing:** The DC OUT port has no link
**Steady green:** Supplying power normally
**OFF:** No PSE is connected/Power-overload

# FAQ

**Q1. Can the PoE Injector supply power to a PoE device which doesn't have a gigabit PoE port?**

A: Yes, both LAN and PoE ports comply with IEEE 802.3, IEEE 802.3u and IEEE 802.3ab standards and support 10/100/1000Mbps Auto-Negotiation.

**Q2. What can I do if my PoE Injector does not supply power to the powered device or the supplied power is unstable?**

A1: Ensure the PD is PoE-compliant and its connecting port supports the PoE function.

A2: Ensure the power consumption of the PD doesn't exceed 15.4W, otherwise the overload protection of the PoE Injector will be activated. The PoE Injector complies with IEEE 802.3af standard and supports 15.4W to a PD, while the quality and length of the Ethernet cable may influence the reception of the power supply.

**Q3. Must I use the PoE Injector together with the PoE Splitter?**

A: No. The PoE Injector can supply power to all PDs compliant with IEEE 802.3af standard. The PoE Splitter is used with a PoE switch or the PoE Injector to supply power to a non-PoE device.

## General Specifications

| | |
|---|---|
| Standards | IEEE 802.3, IEEE802.3u, IEEE 802.3ab, IEEE 802.3af |
| LED | PWR |
| Cable Type | UTP/STP of Cat. 5 or above (based on the standards that the connected devices comply with) |
| Ports | PoE Injector:<br>• 10/100/1000Mbps Auto-Negotiation RJ45 **LAN IN** port<br>• 10/100/1000Mbps Auto-Negotiation RJ45 **POWER+DATA OUT** port<br>• **DC 48V** Power Input port<br><br>PoE Splitter:<br>• 10/100/1000Mbps Auto-Negotiation RJ45 **POWER+DATA IN** port<br>• 10/100/1000Mbps Auto-Negotiation RJ45 **LAN OUT** port<br>• 5V/9V/12V **DC OUT** Power Output port |

## Environmental and Physical Specifications

| | |
|---|---|
| Operationg Temperature | 0°C to 40°C (32°F to 104°F) |
| Storage Temperature | -40°C to 70°C (-40°F to 158°F) |
| Operationg Humidity | 10% to 90% non-condensing |
| Storage Humidity | 5% to 90% non-condensing |