

# Powerline Communication

## PL-502P

### 200M PLC + 802.3af PoE Power Adapter



## 1. Package Contents

Thank you for choosing PLANET 200Mbps Powerline + 802.3af PoE power adapter, PL-502P. "PLC+PoE Adapter" mentioned in this guide refers to the PL-502P and "PLC Adapter" refers to the regular non-PoE powerline adapter.

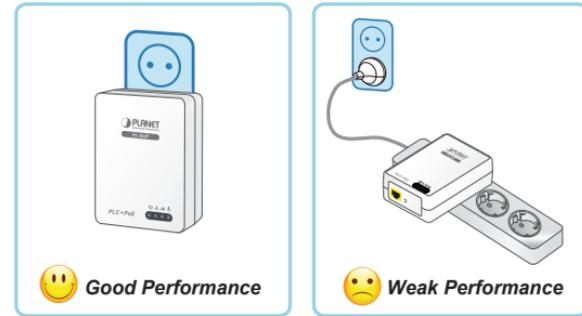
Open the box of the PL-502P and carefully unpack it. The box should contain the following items:



**Note** If there is any item missing or damaged, please contact the seller immediately.

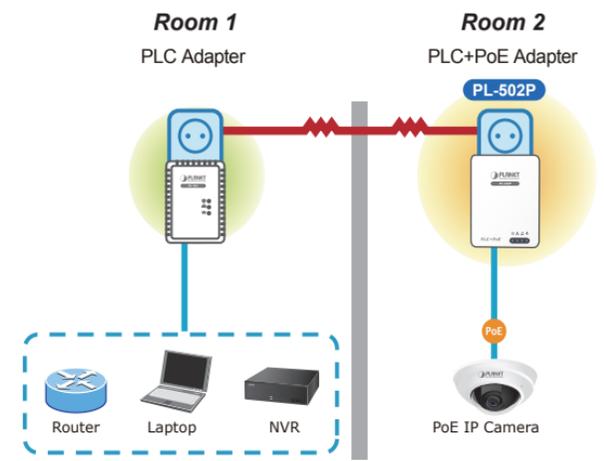
## 2. Installation Precautions

- Do not plug this powerline adapter into a powerstrip that has surge protection. Doing so will degrade powerline performance. For best performance, plug all powerline adapters directly into a wall outlet.



- A maximum of **16** powerline adapters and powerline+PoE adapters can be networked.

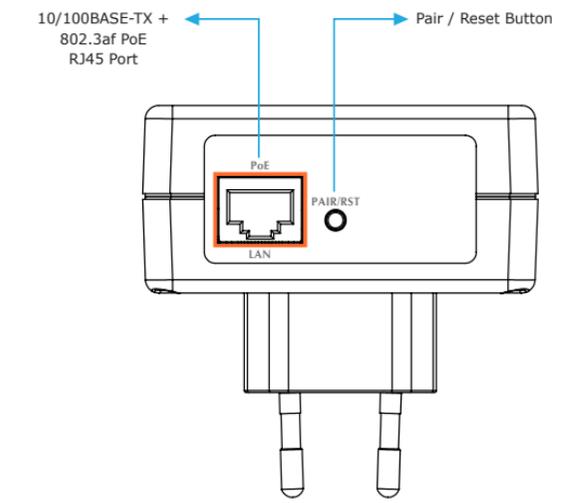
## 3. Application Diagram



**Note** Powerline adapter needs to pair with at least one other Powerline compatible device such as this one in order to create a working system.

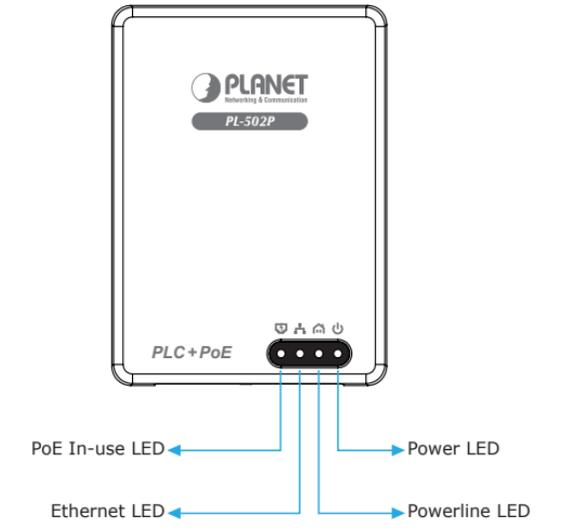
## 4. Physical Introduction

### Port & Button Descriptions



| Button      | Description   |
|-------------|---|
| RST (Reset) | Hold the PAIR/RST button down for more than 15 seconds to reset to default setting. The status light will flash once. |
| PAIR        | Press the PAIR/RST button for 1~3 seconds to join another Powerline network.  |

### LED Descriptions



### LED Definition

| LED   | Status   | Description  |
|-------|----------|--|
| Power | On       | Steady on to indicate the PL-502P is connected to the power outlet                 |
|       | Off      | Power off  |
|       | Flashing | The LED that flashes in every 15 seconds indicates the PL-502P is in standby mode. |

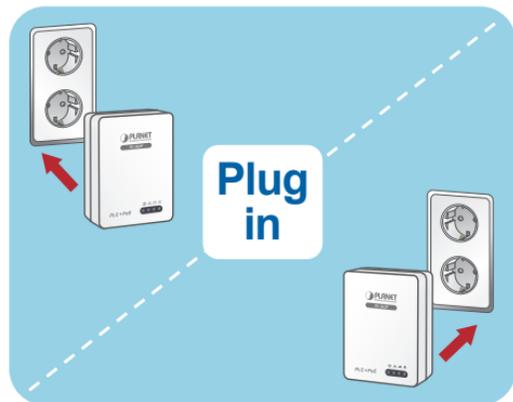
| Icon       | LED Color/Status | Description  |
|------------|------------------|--|
| Powerline  | Off              | This Powerline adapter is not connected.   |
|            | Red              | Minimum connection to indicate weak signal and slower network speed: less than 50Mbps  |
|            | Orange           | Normal signal with standard network speed: 50-99Mbps   |
|            | Green            | Excellent signal with optimal network speed: 100Mbps+  |
|            | Flashing Green   | 1 second ON, 4 seconds OFF: Powerline in standby mode  |
| Ethernet   | Green            | Steady on to indicate the RJ45 port has correctly connected to the Ethernet port of your IP camera or wireless access point. |
|            | Blinking         | The PL-502P is actively sending or receiving data over the Ethernet port.  |
|            | Off              | Ethernet Link not active   |
| PoE In-use | Green            | Connected PoE device detected as power is needed. Port is supplying PoE.   |
|            | Off              | Connected PoE device detected as power is not needed. Port is not supplying PoE.   |

## 5. Hardware Installation

To create a powerline + PoE network, simply connect the **PLC Adapter** and **PLC+PoE Adapter**, the **PL-502P**, to AC wall power outlets that are on the same electrical system. No additional configuration in the powerline network is necessary.

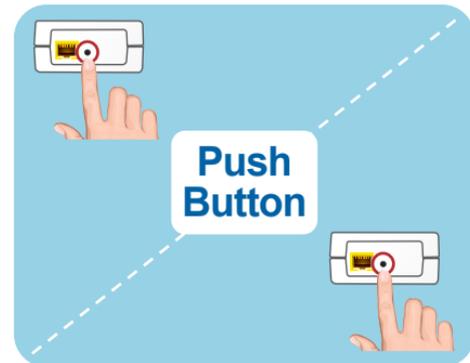
Follow the steps below to install the PL-502P in the house

- Step 1:**
1. Plug the **PLC Adapter** into AC wall power outlets near the device you want to connect.
  2. Plug the **PL-502P** into AC wall power outlet in your room or office where you want to install the **PoE PD**, such as IP camera or PoE wireless access point.
  3. Ensure the Power LEDs are on.



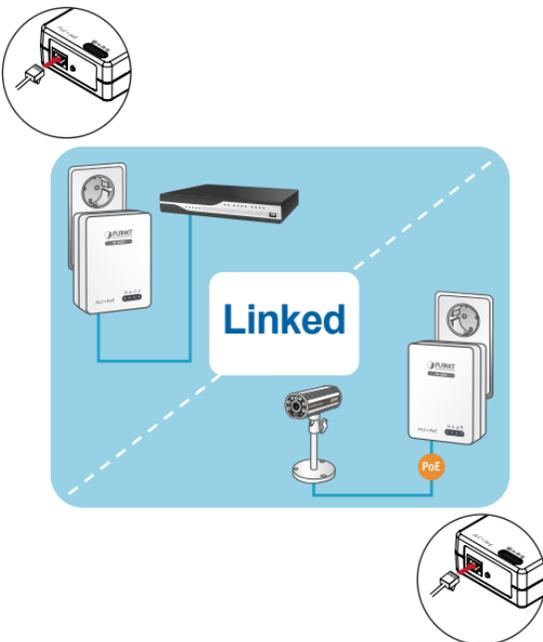
**Step 2:** To secure your powerline network:

1. Hold down the PAIR/RST (or Security) button for 1~3 seconds on the first **PLC Adapter**.
2. Within 2 minutes, hold down the **PAIR/RST** button for **1~3 seconds** on the **PL-502P**.
3. The Power LED starts to blink.
4. After successful setup, the **Power LED** will remain solid and the **Powerline LED** will start blinking.



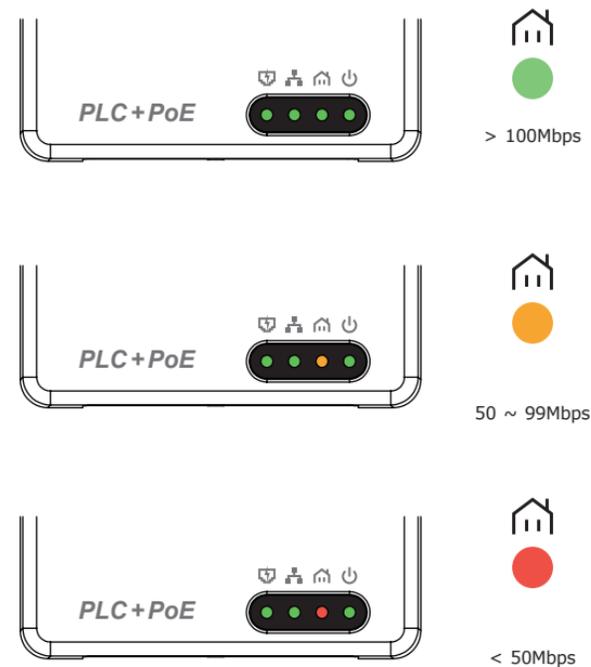
Within 2 minutes

- Step 3:**
1. Connect the Ethernet port of **PLC Adapter** to your home router, NVR (Network Video Recorder) or PC's Ethernet port via the UTP cable.
  2. Connect the PoE Ethernet port of the **PL-502P** to the PoE PD via the UTP cable.



The **PoE LED** of the PL-502P should light up first and then the **Ethernet LED** should start flashing in **green**.

- Step 4:** Verify the LEDs' status of the **PL-502P**. If your PoE PD is successfully powered up and can establish the Ethernet data link with remote PC or NVR, then that means the remote **PLC Adapter** and the PL-502P work fine.



Your PLC+PoE Adapters are now connected forming a powerline (HomePlug AV) network.

## 6. Utility Installation for Windows

PLANET **Power Packet Utility** is a software utility used to search and make connecting on a powerline network quick and simple.

The installation procedure for the **Power Packet Utility** will vary depending on which operating system you are using on your computer. The following procedure is for installation under Windows 7. Installation of other operating systems is similar.

- Step 1:** Download the Power Packet Utility from PLANET download URL  
<http://www.planet.com.tw/en/support/download.php?type1=320&model=48619&type=8184#list>

- Step 2:** The file you have downloaded is a zip file. Unzip it and double-click on the "Setup.exe" executable file to begin installation.

- Step 3:** The utility will be installed on your computer and a new icon "Power Packet Utility" will appear on your desktop.



- Note** This utility is only for Windows 2000, 2003, XP, Vista, Windows 7 and Windows 8.

## Further Information:

The above steps introduce the simple installations of the PL-502P. For further details on the installation of the PLC+PoE Adapters, please refer to the user manual which you can download from the PLANET website.

<http://www.planet.com.tw/en/support/download.php?type1=320&model=48619&type=3>



If you have further questions, please contact the local dealer or distributor where you purchased this product or you can contact PLANET directly at the following email address: [support@planet.com.tw](mailto:support@planet.com.tw)