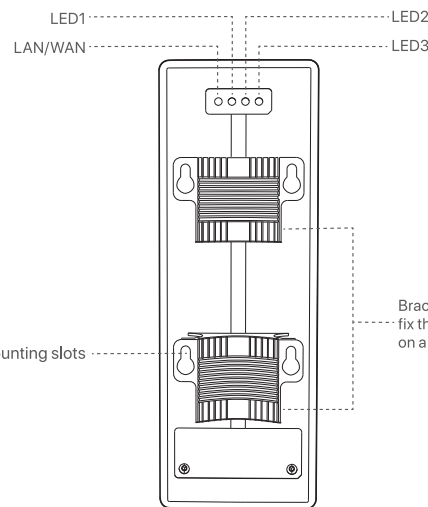


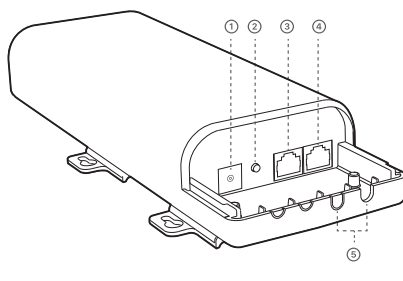
Tenda

Get to Know the Device

► LED Indicators/Slots



► Ports & Button



Quick Installation Guide

5 km Outdoor Point to Point CPE
Model: O3

Package Contents

- O3 * 1
- Power Adapter * 1
- Ethernet Cable * 1
- Quick Installation Guide * 1
- Grounding Screw * 1
- Pole Mounting Strap * 2
- Screw * 2 (Used to fix the PoE injector)
- Expansion Anchor * 2 (Used to fix the PoE injector)

Please read this quick installation guide before you start. You can visit our website at <http://www.tenda.com> for more information about the device.



Application Scenario 1: CCTV Surveillance or Point to Point Data Transmission

1 Set up the Devices (AP + Client Mode)

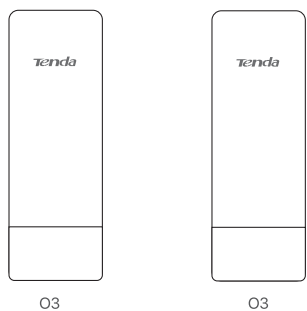
Tip: At least two devices are required for bridging.

Method 1: Automatic Bridging (Recommended)

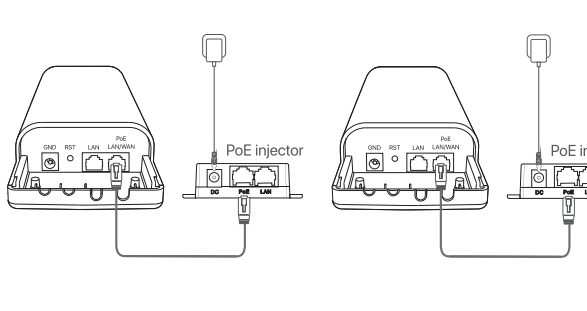
Peer-to-peer bridging

- Note:**
 - Automatic bridging is only applicable when the devices are in factory settings, and the bridging process lasts less than 1 minute after the devices are powered on.
 - Automatic peer-to-peer bridging could fail if three or more powered devices in factory settings are placed nearby.

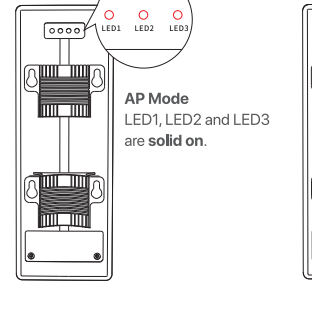
- Place the two devices next to each other, see the following figure.



- Uncover the housing of each device, and use the included PoE injectors to power up the two devices. Wait until the LAN/WAN LED indicators of the devices light up.



- Wait for the two devices to negotiate and connect to each other automatically. When the LED1, LED2 and LED3 indicators of one CPE light solid on, and those of the other CPE are blinking, the automatic bridging succeeds.



If the bridging succeeds, the DHCP servers of the two devices are disabled. The IP address of the device working in AP mode remains 192.168.2.1, and the IP address of the device working in Client mode changes to 192.168.2.2.

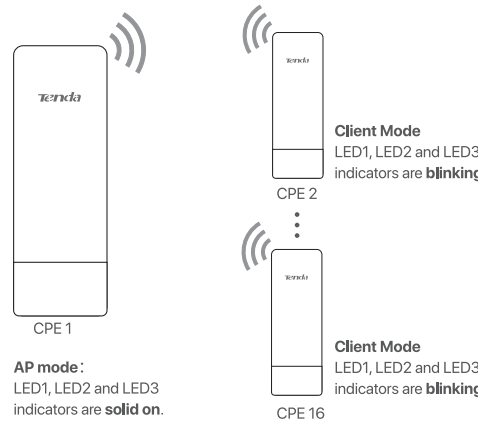
Peer-to-multiple peers bridging

- Tip:**
 - The automatic peer-to-multiple peers bridging lasts for 30 minutes. During this period, the device working in AP mode must be kept powered on. Otherwise other devices will fail to perform automatic bridging.
 - One CPE can bridge to 15 CPEs at most.

- Perform **Peer-to-peer bridging** to bridge any two devices.
- Within 30 minutes after peer-to-peer bridging succeeds, place other CPEs in factory settings near the CPE working in AP mode (LED1, LED2 and LED3 are solid on) and power them on.

When the LED1, LED2 and LED3 indicators of them are blinking, the bridging of all other CPEs succeeds.

After successful peer-to-multiple peers bridging, the DHCP servers of the CPEs are disabled automatically. The IP address of the CPEs in Client mode will be changed into 192.168.2.2. If required, please visit www.tenda.com to download the CPE management software and install it on your computer to change the IP addresses in batch.

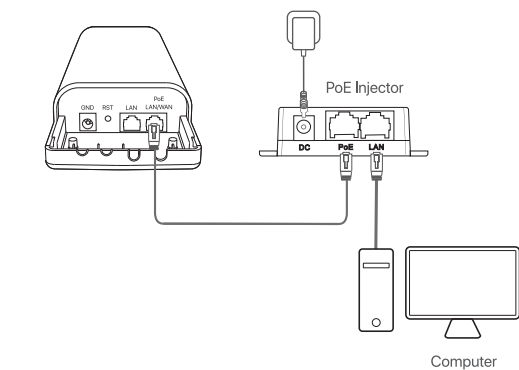


Application Scenario 2: Wireless ISP Hotspot Access

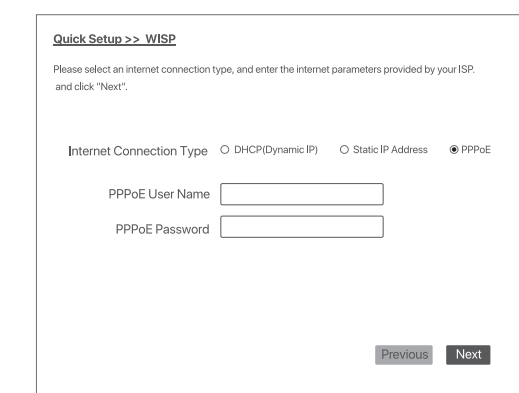
1 Set up the Device

Step 1: Connect the computer to the device.

- Uncover the housing of the device.
- Use an Ethernet cable to connect the **PoE LAN/WAN** port of the device to the **PoE** port of the PoE injector.
- Use the included power adapter to connect the PoE injector to a power socket. The LAN/WAN LED indicator of the device lights up.
- Use an Ethernet cable to connect your computer to the LAN port of the PoE injector.

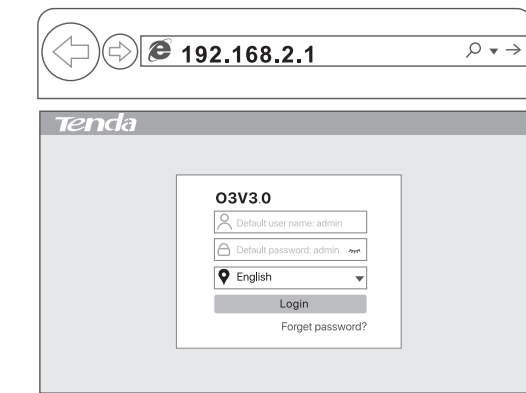


- Select the Internet Connection Type of your ISP hotspot. We take PPPoE as an example here. Enter the PPPoE user name and password provided by your ISP, and click **Next**.



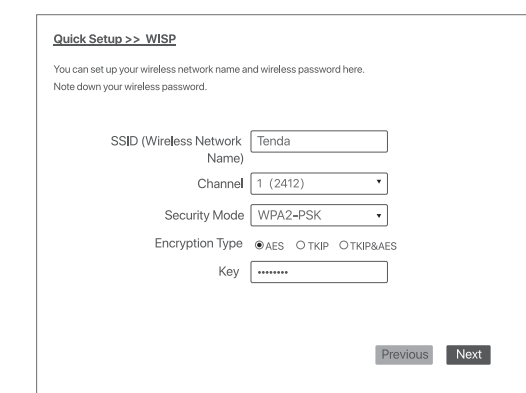
Step 2: Set the device to WISP Mode.

- Start a web browser on your computer, and visit **192.168.2.1**. Enter your user name and password (default: admin), and click Login.

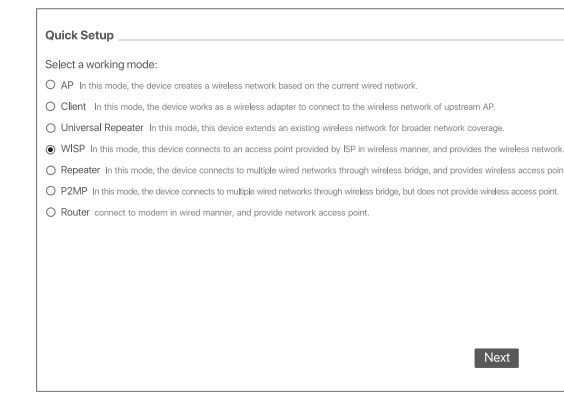


Tip: If this page does not appear, please refer to **QA1** in **FAQ**.

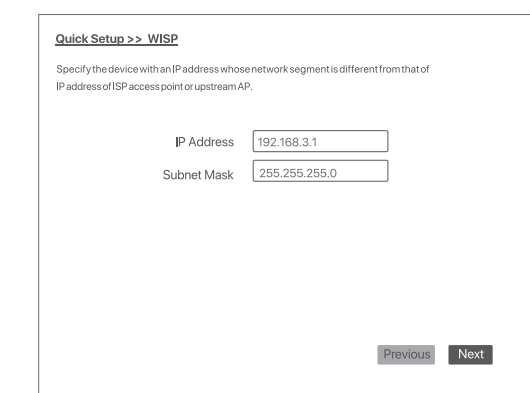
- Customize the SSID and key, and click **Next**.



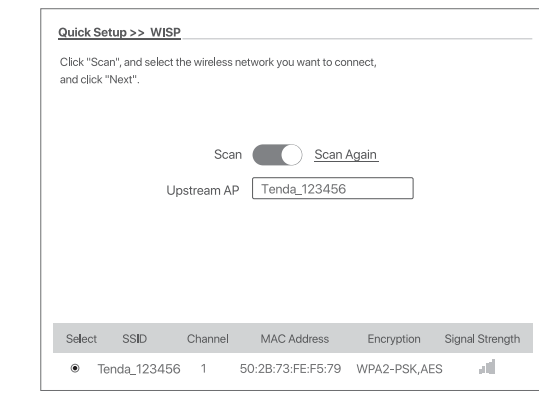
- Select **WISP**, and click **Next**.



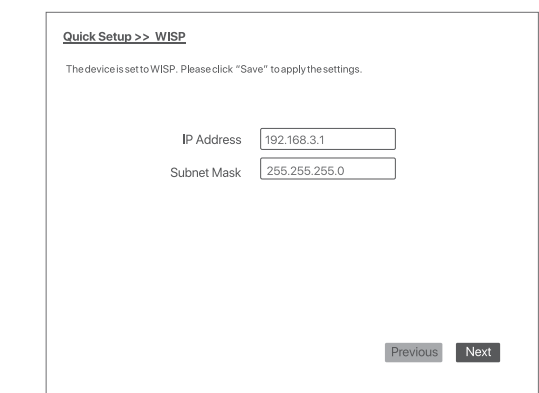
- Set an IP address belonging to different network segment as that of your ISP hotspot. For example, if the IP address of your ISP hotspot is 192.168.2.1, you can set this device's IP address to 192.168.X.1 (X ranges from 2 to 254 excluding 2). Then click **Next**.



- Select the SSID of your ISP (Internet Service Provider) hotspot, which is **Tenda_123456** in this example, and click **Next**.

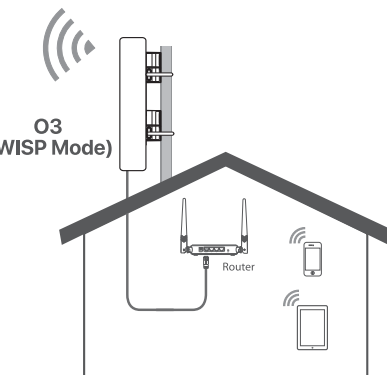
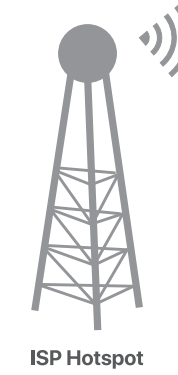


- Click **Save**, and wait until the device reboots to activate the settings. When LED1, LED2, and LED3 of the device are blinking, the device is connected to your ISP hotspot successfully.



2 Install the Devices

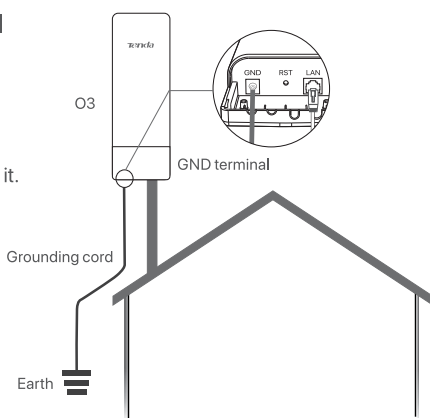
- Place the device at open air.
- Uncover the housings of the device, and connect the **PoE LAN/WAN** port of the device to the **PoE** port of the PoE injector.
- Use the included power adapter to connect the PoE injector to a power socket. The LAN/WAN LED indicator lights up.
- Connect the LAN port of the PoE injector to the **WAN** port of your wireless router.
- Adjust the device's direction or location on the selected pole until the LED1, LED2 and LED3 of the device light up.
- Use the pole mounting straps to attach the device to the pole.



Grounding

Connect the GND terminal of the CPE to a grounding terminal connected to the earth or building, to protect the CPE from overvoltage and overcurrent caused by lightning.

- Connect one side of the grounding cord to the included grounding screw.
- Connect the grounding screw to the GND terminal of the CPE, and tighten it.
- Connect the other side of the grounding cord to the grounding terminal connected to the earth or building.



FAQ

- Q1: I cannot log in to the web UI of the device by entering 192.168.2.1. What should I do?**
Try the following methods and try again:
 - Ensure that the device has been connected to the power supply and the computer properly.
 - Ensure that the IP address of the login computer is 192.168.2.X (X ranges from 2 to 254).
 - Reset the device to factory settings.

Q2: How to reset the device to factory settings?

Note: Resetting the device will clear all settings, and you need to configure it again.

Method One: 1 minute after the device is powered on, uncover the housing of the device, and hold down the RST button for about 8 seconds. When all LED indicators light up, the device is restored to factory settings.

Method Two: Log in to the web UI of the device, choose **Tools > Maintenance**, and click the Reset button.

Q3: How to determine whether the bridging signal is optimal when the devices are used for CCTV surveillance?

Method One: Observe the LED indicators of the two devices. The bridging signal is optimum when all of the LED1, LED2 and LED3 indicators are solid on or blinking.

Method Two: Log in to the web UI of one device (default login address: 192.168.2.1), choose **Status**, and check the wireless status on the following page:

Wireless Status			
Working Mode	Client	AP's MAC Address	
SSID	N/A	Signal Strength	-32dBm
Security Mode	N/A	Background Noise	<95dBm
Channel/Radio Band	1/2412	TX/RX Link	1X1
No. of Wireless Clients	N/A	Transmit/Receive Speed	72Mbps/20Mbps

Stronger signal strength (-90 is better than -100) and less background noise (-100 is better than -90) lead to better bridging signal.



CE Mark Warning

This is a Class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

This equipment should be installed and operated with a minimum distance of 20 cm between the device and your body.

The mains plug is used as disconnect device, the disconnect device shall remain readily operable.

NOTE: (1) The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. (2) To avoid unnecessary radiation interference, it is recommended to use a shielded RJ45 cable.

Declaration of Conformity

Herbey, SHENZHEN TENDA TECHNOLOGY CO., LTD. declares that the radio equipment type O3 is in compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address: <https://www.tenda.com/download/list-9.html>

Operating Frequency: EU/2412-2835MHz (CH1-CH13)

ERP Power (Max.): 19.98 dBm

Software Version: V1.0.0.10



Caution:

Adapter Model: BN073-A12012E, BN073-A12012B, BN073-A12012U

Manufacturer: SHENZHEN HEWES/HUN NETWORK TECHNOLOGY CO., LTD.

Input: 100 ~ 240 V AC, 50/60 Hz 0.4 A

Output: 12 V DC, 1 A

DC Voltage

The device is used outdoors. The power adapter is used indoors.



FCC 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.

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.

This device complies with Part 15 of the FCC RF Rules.

and it also complies with Part 15 of the FCC RF Rules.

This equipment should be installed and operated with a minimum distance of 20 cm between the device and your body.

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

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Operating frequency: 2412-2462MHz

NOTE: (1) The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. (2) To avoid unnecessary radiation interference, it is recommended to use a shielded RJ45 cable.



RECYCLING

This product bears the selective sorting symbol for Waste electrical and electronic equipment (WEEE). This means that this product must be handled pursuant to European directive 2012/19/EU in order to be recycled or dismantled to minimize its impact on the environment.

User has the choice to give his product to a competent recycling organization or to the retailer when he buys a new electrical or electronic equipment.

Operating Temperature: -30 °C ~ 60 °C

Operating Humidity: (10 ~ 90) % RH, non-condensing

Technical Support

Shenzhen Tenda Technology Co., Ltd.

Floor 6-8, Tower E3, No.1001, Zhonghanyuan Road, Nanshan District, Shenzhen, China. 518052

USA hotline: 1-800-570-5692

Toll Free: Daily-9am to 6pm PST

Canada hotline: 1-888-998-8966

Toll Free: Mon - Fri 9 am - 6 pm PST

Hong Kong hotline: 00852-81931998

Global hotline: +86 755-2765 7180 (China Time Zone)

Website: www.tenda.com

E-mail: support@tenda.com.cn

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2 Install the Devices

The equipment is suitable for mounting at heights >2 m.

- The device (transmitter in AP mode) with LED1, LED2 and LED3 solid on should be connected to the switch connecting to a network video recorder (NVR). See **Figure 1**.
- The device (receiver in Client mode) with LED1, LED2 and LED3 blinking should be connected to the switch connecting to a monitoring IP camera. See **Figure 2**.

Detailed procedures are as follows:

- Place the transmitter in the open air at the point where the NVR is located. Place the receiver in the open air at the point where the IP camera is located.
- Uncover the housings of the two devices, and connect the **PoE LAN/WAN** ports of the devices to the **PoE** ports of PoE injectors respectively.
- Use the included power adapters to connect the PoE injectors to power sockets. The LAN/WAN LED indicators light up.
- Adjust the two devices' direction or location until the LED1, LED2 and LED3 of the two devices light up.
- Use the pole mounting straps to attach the two devices to the poles respectively.

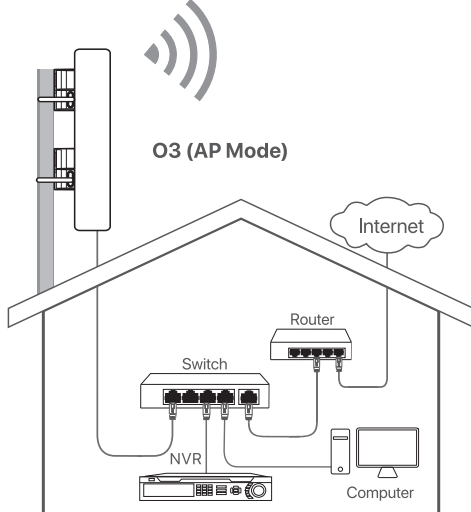


Figure 1

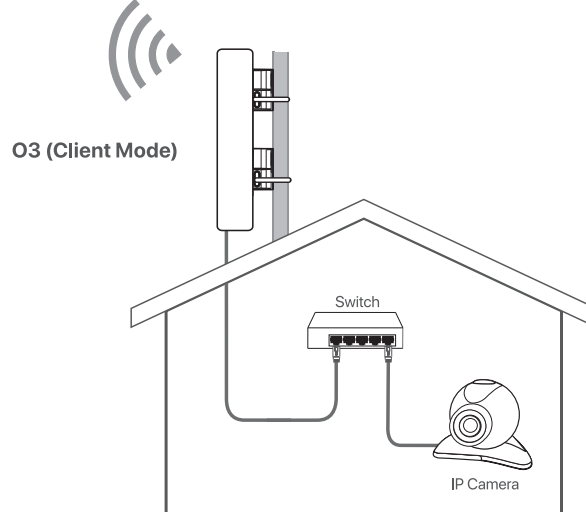


Figure 2