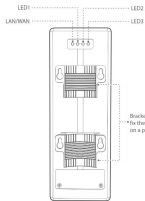


Quick Installation Guide
3 in 1 Outdoor Point to Point CPE
Model: O3

- Package Contents
- O3 1
 - PoE Injector *1
 - Power Adapter *1
 - Grounding Screw *1
 - Screws *2 (Used for the PoE injector)
 - Screws *2 (Used for the PoE injector)
 - Screws *2 (Used for the PoE injector)
 - Quick Installation Guide *1
- Please read this quick installation guide before you start. You can visit our website at www.tenda.com for more information about the device.

Get to Know the Devices

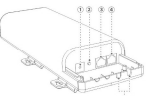
LED Indicators



LED Indicator	Status	Description
LAN/WAN	Blinking	The power is transmitting or receiving data.
	Off	No power is supplied to the device.
Solid on	LED1	The device is using factory default settings, 2.4GHz or 5GHz mode, and connected to wireless clients. If the device is normally connected to the other one, it will turn AP mode.
	LED2	LED1 and LED2 are solid on, Perfect Signal.
Blinking	LED1	The device is working in Client, Unknow Router or WISP mode, and connected to remote AP. If the device is normally connected to the other one, it will turn Client mode.
	LED3	The device is not connected to a wireless client or a remote AP.

Ports & Button

ID	Port/Button	Description
①	GND	Grounding pin. Use the included grounding screw and cable to connect the device's grounding pin to a grounding terminal or fastener to avoid ESD and lightning damage to the device.
②	Reset Button	Reset button. After the device is powered on for 1 minute, hold down this button for about 8 seconds. When all the LED indicators on the device blink, the device returns to the factory settings.
③	LAN	10/100Mbps automatic negotiation RJ45 port. Used to connect to a switch, computer, or other wired devices.
④	PoE LAN/WAN	PoE power input and data transmission port. (This device works in Router mode, i.e. a WAN port, or in AP mode, i.e. a LAN port.) Use the included PoE injector to supply power to the device.
⑤	Internet cable slot	Internet cable slot.



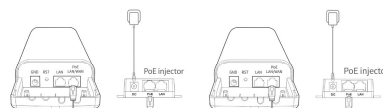
Application Scenario 1: CCTV Surveillance or Point to Point Data Transmission

1. Set up the Devices (AP + Station Mode)

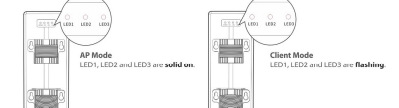
⚠️ Note: At least two devices are required for bridging.

Method 1: Automatic Bridging (Recommended)

- 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. The following LED indicator status indicates successful connection of the two devices.



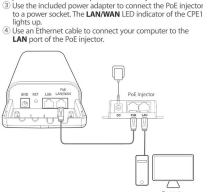
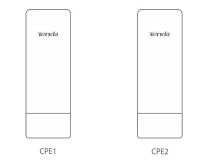
Note: Automatic Bridging is only applicable when the devices are in factory settings, and the bridging process takes less than 1 minute after the devices are powered on. Automatic Bridging is only applicable to peer-to-peer bridging. If there are three or more powered devices nearby, automatic bridge fails. So, if you want to perform peer-to-peer bridging, please refer to **Method 2: Set up the Devices Using Web UI**. If the bridging succeeds, the DHCP server of the two devices are disabled, and the IP address of the device working in Client mode changes to 192.168.2.X.

Method 2: Set up the Devices Using Web UI

Step 1: Place the two devices next to each other.

Step 2: Connect the computer to CPE 1.

Step 3: Set CPE 1 to AP Mode.



Step 4: Set CPE 2 to Client Mode.

Step 5: Set CPE 2 to Client Mode.

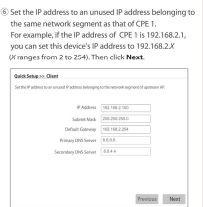


Step 4: Set CPE 2 to Client Mode.

Step 5: Set CPE 2 to Client Mode.



Step 6: Set CPE 2 to Client Mode.



2. Install the Devices

- 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 PoE injectors respectively. 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.

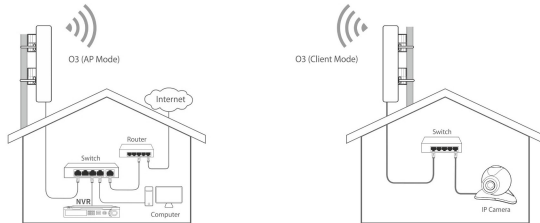


Figure 1

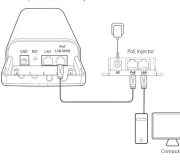
Figure 2

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.



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**.



Step 3: Select the SSID of your ISP (Internet Service Provider) hotspot, which is **Tenda_123456** in this example, and click **Next**.

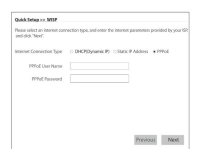


Step 4: Enter the WiFi password of your ISP (Internet Service Provider) hotspot in the **Key** text box, and click **Next**.



Step 5: Select the Internet Connection Type of your ISP hotspot.

- 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 6: Customize the SSID and Key, and click **Next**.



Step 7: Set an IP address belonging to different network segment as that of your ISP hotspot.

- 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.X, you can set this device's IP address to 192.168.1.X (X ranges from 0 to 254 except 2). Then click **Next**.

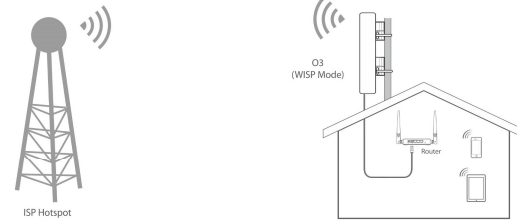


Step 8: Click **Save**, and wait until the device reboots to activate the settings.



2. Install the Devices

- Place the device at an open air.
- Uncover the housings of the device, and connect the PoE/LAN/WAN port of the device to the WAN part of your wireless router. The LAN/WAN LED indicator lights up.
- 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.



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 local 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 **Reset** button for about 8 seconds. When all LED indicators light up, the device is restored to factory settings.
 - Method Two:** Log in the web UI of the device, choose **Tools > Maintenance**, and click **Reset** button.

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

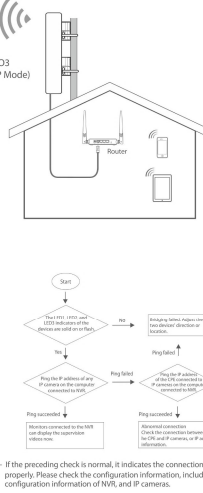
- Method One:** Observe the LED indicators of the two devices. The bridging signal is optimum when all of the LED1, LED2 and LED3 indicators are solid on or flashing.
- Method Two:** Log in the web UI of one device (default login address: 192.168.2.1), choose Status, and check the wireless status on the following page:

Wireless Status	
Working Mode	Client
SSID	N/A
Signal Strength	90.28/73.9/5.9
Background Noise	85dBm
Channel Width	20MHz
Client/Visitor Band	120MHz
No. of Wireless Clients	N/A
Transmit Receive State	728Mbps/20Mbps

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

Q4: After the installation succeeds, the monitors connected to the NVR cannot display the surveillance videos. What should I do?

- Try the following solutions:
 - Ensure that all devices are working normally, and connected properly.
 - Refer to the following figure to find the problem. Ensure that the IP addresses of computer, NVR, and IP cameras are in the same network segment.



If the preceding check is normal, it indicates the connections are proper. Please check the configuration information, including the configuration information of NVR, and IP cameras.



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.

Warnings: The main 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
Huawei, SHENZHEN TENDA TECHNOLOGY CO., LTD. declares that the radio equipment type O3 is in compliance with the Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address: <http://www.tenda.com/tem/ce/download/cats-101.html>

Operate Frequency: EU/2400-2483.5MHz (CH1-CH13)
ERP Power (Max.): 19.8 dBm
Software Version: V1.02.0.7

Caution:
Adapter Model: B0306-A1-01.02, B0306-A1-01.20, B0306-A1-01.21
Manufacturer: SHENZHEN HEWEISHUN NETWORK TECHNOLOGY CO., LTD.
Input: 100 ~ 240 V AC, 50/60 Hz 0.4 A
Output: 12 V DC, 1 A

— DC Voltage



FCC 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.

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.

Radiation Exposure Statement
This device complies with FCC radiation exposure limits set forth for an uncontrolled environment and it also complies with Part 15 of the FCC RF Rules.

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.

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.

Use 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
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Shenzhen, China 518052
USA: Houston 1 888 375 5992
HongKong: HkTel: 00852 8199 9968
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