

Quick Installation Guide

Outdoor CPE Kit O1-5G/OS3

O1-5G is used for illustration here unless otherwise specified. The actual product prevails.



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

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

Technical Support Shenzhen Tenda Technology Co. Ltd.

Floor 6–8, Tower E3, No.1001, Zhongshanyuan Road, Nanshan District, Shenzhen, China. 518052

E-mail: support@tenda.com.cn support.uk@tenda.cn (United Kingdom

support.us@tenda.cn (North America Support)

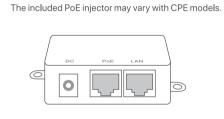
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V1.0 Keep for future reference.

Package contents

- CPE × 2 - Expansion bolt × 4 (height: 6.6 mm, inner diameter: 2.4 mm, length: 26.4 mm) - Power adapter × 2 - Screw for fixing the PoE injector × 4 - PoE injector × 2 (thread diameter: 3 mm, length: 14 mm, head diameter: 5.2 mm) - Quick installation guide - Plastic strap (O1-5G: × 2; OS3: × 4)

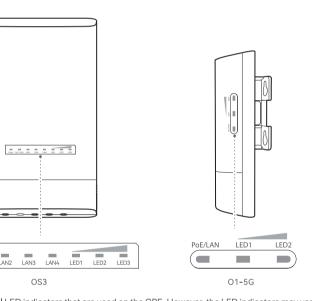
Get to know the PoE injector



Port	Description	
DC	Powerjack	
PoE	PoE power output port. Use an Ethernet cable to connect this port to the passive PoE port of the CPE.	
LAN	LAN port Used to connect network devices such as a computer, switch, or camera.	

Get to know your device The CPE appearance varies with models. Please refer to the CPE you purchased.

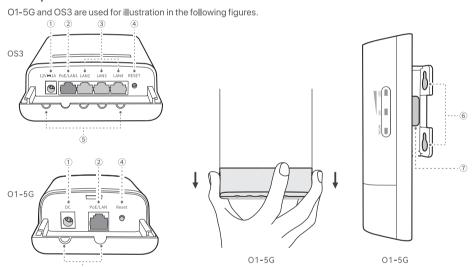
LED indicators



The following table lists all LED indicators that are used on the CPE. However, the LED indicators may vary with CPE

LED indicator	Status	Description		
Power	Solid on	CPE powered on		
T GWEI	Off	CPE powered off		
	Solid on	The CPE is powered on. No data is transmitted.		
PoE/LAN	Blinking	The CPE is powered on. Data is being transmitted.		
	Off	The CPE is powered off.		
	Solid on	The port is connected. No data is transmitted. The port is connected. Data is being transmitted.		
PoE/LAN1, LAN2, LAN3, LAN4	Blinking			
	Off	The port is disconnected.		
LED1, LED2, LED3 (Received signal strength indicator)	Solid on/ Blinking	CPE bridged or connected to other devices - Solid on: CPE working in AP or Router mode - Blinking: CPE working in Client, Universal Repeater or WISP mode The more indicators are on, the better the connection quality is. - Tips - You can change the signal strength values for each indicator in the web UI of the CPE. - The quantity of LED indicators and available working modes vary with CPE models.		
	Off	No device is connected to the CPE wirelessly, or the signal strength is weak. Adjust your CPE's direction or location.		

■ Ports, buttons and slots



The following table lists all ports, buttons and slots that are used on the CPE. However, the ports, buttons and slots may vary with CPE models

Port/Button/Slot		Description		
1)	12V 1A, DC	DC power jack. Connect the power adapter (if any) to this port for power supply.		
2	PoE/LAN, PoE/LAN1	Multiplexing port for power input and data transmission. If passive PoE is used for power supply, connect this port to the PoE port of the PoE injector. If you power on the CPE using a power adapter, this port can be connected to a computer, switch or IP camera. Tips If the CPE works in the Router mode (if supported), this port functions as a WAN port to connect an upstream network device.		
3	LAN2, LAN3, LAN4	Ethernet port for connecting to a computer, switch or IP camera.		
4	RESET, Reset	Reset button. Used to restore the CPE to factory settings. For details, see Q2 in FAQ .		
(5)	Cable grommet	Used to fix the power cord or Ethernet cable.		
6	Wall mounting slots	Used to fix the CPE to a wall. Recommended specifications for expansion bolts and screws: - Expansion bolt: height: 6.6 mm, inner diameter: 2.4 mm, length: 26.4 mm - Screw: thread diameter: 3 mm, length: 14 mm, head diameter: 5.2 mm		
7	Pole mounting slots	Used to fix the CPE to a pole using the included plastic straps.		

Power on the CPE

■ Option 1: Use the PoE injector Connect the PoE injector to the CPE as guided in **Connect the CPE**. See **Q4** in **FAQ** for the maximum PoE power supply distance.

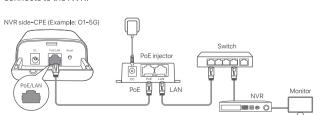
CAT5 Ethernet cables or above are recommended for higher speed.

Option 2: Use the power adapter If the CPE has a DC power jack, use the included power adapter to power on the CPE.

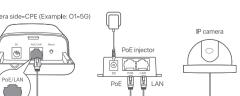
Connect the CPE

You can see the working mode of the CPE on its label. In the following figures, the CPE is powered on by the PoE injector.

■ Connect the NVR side-CPE to the NVR Connect the CPE labelled with NVR Side to the switch that connects to the NVR.



■ Connect the Camera side-CPE to the IP camera Connect the CPE labelled with Camera Side to the switch that connects to the IP camera.

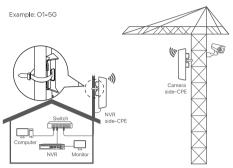


Application scenarios

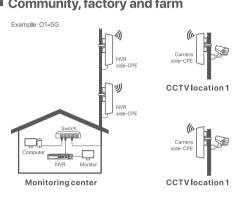
Install the CPE labelled with **NVR Side** at the NVR side and the CPE labelled with **Camera Side** at the camera side. The following demonstrates how pole mounting enables monitoring in different scenarios. When using this method, route the plastic straps through slots at the back of the CPEs, and properly position the CPEs on the poles

 $After \, successful \, in stall ation, the \, bridging \, quality \, reaches \, the \, best \, when \, the \, CPEs' \, received \, signal \, strength$ indicators (such as LED1, LED2 and LED3) are all solid on or blinking.

■ Construction tower crane

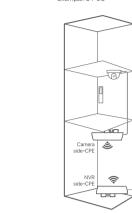


■ Community, factory and farm



■ Elevator

Scenario 1: The machine room located close to the top of the elevator shaft



Scenario 2: The machine room located close to

the bottom of the elevator shaft

Log into the CPE

- The following procedure describes how to log into the web UI of the CPE on a computer
- ① Connect the computer to the LAN port of the CPE or the LAN port of the switch connected to the CPE. ② Set the computer's IP address to the same network segment as the CPE's IP address. For example, if the CPE's IP address
- is 192.168.2.1, then the computer's IP address can be set to 192.168.2.X (X ranges from 2 to 254 and is unused), and the
- 3 Start a web browser on the computer connected to the CPE and enter the default CPE's IP address (192.168.2.1 in AP mode or 192.168.2.2 in Station mode) in the address bar. Enter the username and password and click **Login**.
- you can also log into the web UI of the CPE using its WiFi. By default, the CPE WiFi name is Tenda_XXXXXX or Tenda_XXXXXX_MG (XXXXXX india) six characters of the CPE MAC address). If you cannot find the WiFi network, try restarting the CPE.

 —If the login failed, refer to Q1 in FAQ.

- To ensure network security, change your username and password after first login

FAQ

Q1: I cannot log in to the web UI of the CPE. What should I do?

- A1: Try the following solutions:
- Ensure that the device is connected to the CPE.
- Ensure that the device like computer and CPE are in the same network segment. For example, the CPE's IP address is 192.168.2.1, then the computer's IP address can be set to 192.168.2.X (X ranges from 2 - 254 and is unused). • Restore the CPE to factory settings by referring to Q2, and try again.

Q2: How to reset the CPE?

A2: Note: Resetting the CPE clears all settings, and you need to configure it again.

- Method 1: After the CPE completes startup, hold down the reset button (RESET or Reset) for about 8 seconds and release it when all LED indicators light up. The CPE is restored to factory settings.
- Method 2: Log in to the web UI of the CPE, navigate to Tools > Maintenance, and click Reset.

Q3: How to check that the CPE is under the best connection status?

- A3: Method 1: Observe the LED indicators of the CPE. The connection quality reaches the best when all LED indicators of the CPE light solid on or blink.
- Method 2: Log in to the web UI of the CPE, and check the bridging status in Status > Wireless Status. Stronger signal strength (-60 dBm better than -70 dBm), less background noise (-100 dBm better than -90 dBm), and faster transmit/receive speed lead to better bridging signal.

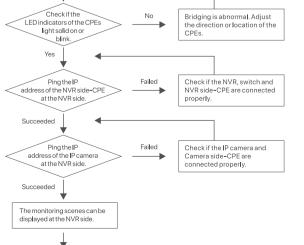
Q4: What is the maximum distance for PoE power supply when a PoE injector is used for power supply?

injector.

Power supply mode	Input voltage	Maximum PoE power supply distance
9V 0.6A DC power supply/PoE power supply	9-13V	30m
12V 1A DC power supply/PoE power supply	9-13V	50m or 60m
24V 0.5A PoE power supply	18-25V	60m

Q5: After the installation is finished, there is no display of the scenes monitored by IP cameras at the NVR side. What should I do?

- A5: Try the following solutions:
- Ensure that all devices are working normally and connected properly.
- Ensure that the computer, NVR and IP camera are in the same network segment, and the NVR configuration and IP camera configuration are correct.
- If the IP camera can be scanned but cannot be added at the NVR side, ensure that the Transparent Bridge function is enabled and the IP camera is already in initialization (active) state.
- If the IP camera cannot be scanned at the NVR side, refer to the following procedure to solve the issue.



Get support and services



https://www.tendacn.com/service/default.html

For technical specifications, user guides and more information, please visit the product page or service page on **www.tendacn.com**. Multiple languages are

You can see the product name and model on the product label

Safety Precautions

Before operating, read the operation instructions and precautions to be taken, and follow them to prevent accidents. The warning and danger items in other documents do not cover all the safety precautions that must be followed. They are only supplementary information, and the installation and maintenance personnel need to understand the basic safety

- precautions to be taken. - Do not use the device in a place where wireless devices are not allowed.
- CPE operating and storage environment: Operating temperature: -30°C 55°C; Operating humidity: (10% 90%) RH,
- non-condensing; Storage temperature: -30°C 70°C; Storage humidity: (10% 90%) RH, non-condensing. - Power adapter operating and storage temperature: Operating temperature: 0°C - 40°C; Operating humidity: (5% - 95%) RH, non-condensing; Storage temperature: -20°C - 70°C; Storage humidity: (5% - 95%) RH, non-condensing. - Please use the included power adapter.
- If you power on the CPE using a power adapter: the mains plug is used as the disconnect device and shall remain readily operable; the power socket shall be installed near the CPE and easily accessible.
- The CPE is used outdoors. The PoE injector and power adapter are used indoors. - Keep the device away from fire, high electric field, high magnetic field, and inflammable and explosive items. - While the device is designed to be waterproof, it is recommended to avoid long-duration water immersion to ensure its
- safety and longevity.
- Do not use the power adapter/PoE if its plug or cord is damaged. - If such phenomena as smoke, abnormal sound or smell appear when you use the device, immediately stop using it and
- disconnect its power supply, unplug all connected cables, and contact the after-sales service personnel. - Disassembling or modifying the device or its accessories without authorization voids the warranty, and might cause
- For the latest safety precautions, see **Safety and Regulatory Information** on **www.tendacn.com**.

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CE Mark Warning This is a Class A product

Warning: Operation of this e dential environment could 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 20 cm between the device and your body.

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.

Hereby, SHENZHEN TENDA TECHNOLOGY CO., LTD. declares that the device 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.tendacn.com/download/list-9.html Attention: In EU member states, EFTA countries, Northern Ireland and Great Britain, the operation in the frequency range 5150MHz = 5250MHz is only permitted

AT BE BG CH CY CZ DE DK EE EL ES FI FR HR HU IE
IS IT LI LT LU LV MT NL NO PL PT RO SE SI SK UK(NI) 2412MHz=2472MHz/20dBm (OS3V2 0)

indoors. The operation in the frequency range 5470MHz = 5725MHz is permitted both indoors and outdoo





reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this 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

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.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

O1-5G/OS3: 5150-5250 MHz, 5725-5850 MHz

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