

Quick Installation Guide

Outdoor CPE Kit CPE6S/CPE12

CPE6S is used for illustration here unless otherwise specified. The actual product prevails.

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 × 4

Recycling





must be handled pursuant to European directive 2012/19/EU in order to be recycled or dismantled to minimize its impact on the

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.

Technical Support

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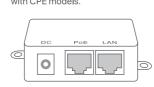
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V1.0 Keep for future reference.

Get to Know the PoE Injector

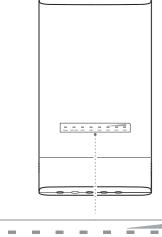
The included PoE injector may vary with CPE models.

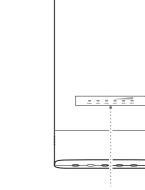


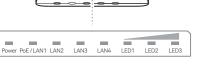
Port	Description
DC	Power jack.
PoE	PoE power output port. Use an Ethernet cable to connect this port to the passive PoE port of the CPE.
LAN	LAN port. Used to connect network devices such as a computer, switch, or camera.

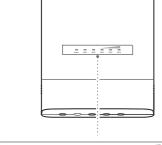
Get to Know Your Device The CPE appearance varies with models. Please refer to the CPE you purchased.

LED indicators







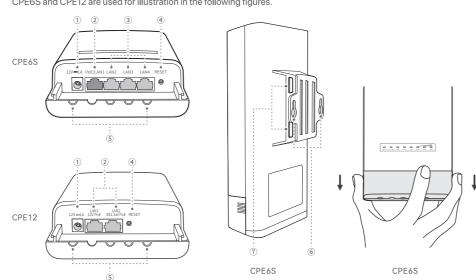


The following table lists all LED indicators that are used on the CPE. However, the LED indicators may vary with CPE models.

LED indicator	Status	Description
	Solid on	CPE powered on.
Power	Off	CPE powered off.
	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.
PoE/LAN1, LAN1, LAN2, LAN3, LAN4	Blinking	The port is connected. Data is being transmitted.
	Off	The port is disconnected.
LED1, LED2, LED3 (Received signal strength indicator)	D3 Blinking The more indicators are on, the better the connection quality is all tori	- 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.
	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

CPE6S and CPE12 are used for illustration in the following figures.



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	t/Button/Slot	Description		
1	12V 1A, DC	DC power jack. Connect the power adapter (if any) to this port for power supply.		
2	PoE/LAN1, LAN112V PoE, LAN2 802.3af PoE	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 standard PoE is used for power supply, connect this port to the PoE port of the IEEE 802.3af/at PoE power supply device. - If you power on the CPE using a power adapter, this port can be connected to a computer, switch or IP camera.		
	LAINZ OUZ.SAI PUE	. Tips - If the CPE works in the Router mode (if supported), this port functions as a WAN port to connect an upstream network device. - LAN112V POE supports passive POE. LAN2 802.3af PoE supports standard POE.		
3	LAN2, LAN3, LAN4	Ethernet port for connecting to a computer, switch or IP camera.		
4	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 ${\bf Q4}$ in ${\bf FAQ}$ for the maximum PoE power supply distance.

■ Option 2: Use the power adapter

If the CPE has a DC power jack, use the included power adapter to power on the CPE.

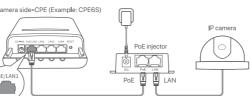
Connect the CPE

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 before tightening the straps.

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

■ Construction tower crane

Log into the CPE

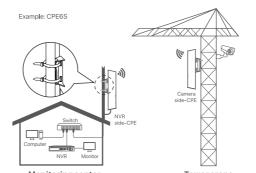
and the subnet mask is 255.255.255.0.

FAQ

A1: Try the following solutions:

Q2: How to reset the CPE?

injector.



The following procedure describes how to log into the web UI of the CPE on a computer.

last 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.

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

• Restore the CPE to factory settings by referring to Q2, and try again.

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

transmit/receive speed lead to better bridging signal.

9V 0.6A DC power supply/PoE power supply 9-13V

12V1ADC power supply/PoE power supply

Ensure that all devices are working normall

and the NVR configuration and IP camera

• If the IP camera can be scanned but cannot

be added at the NVR side, ensure that the

Transparent Bridge function is enabled

NVR side, refer to the following procedure to

and the IP camera is already initialized.

• Ensure that the computer, NVR and IP camera are in the same network segment,

24V 0.5A PoE power supply

A5: Try the following solutions:

and connected properly.

configuration are correct.

solve the issue.

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

indicators light up. The CPE is restored to factory settings.

Method 2: Log into the web UI of the CPE, navigate to Tools > Maintenance, and click Reset.

Ensure that the device is connected to the CPE.

CPE light solid on or blink.

① Connect the computer to the LAN port of the CPE or the LAN port of the switch connected to the CPE.

② Set an IP address for the computer that belongs to the same network segment as the CPE. 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),

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

- You can also log into the web UI of the CPE using its WiFi. By default, the CPE WiFi name is IP-COM_XXXXXX or IP-COM_XXXXXXX_MG (XXXXXXX indicates the

• Ensure that the device like computer and CPE are in the same network segment. For example, the CPE's IP address is

Method 1: After the CPE completes startup, hold down the reset button for about 8 seconds and release it when all LED

A3: Method 1: Observe the LED indicators of the CPE. The connection quality reaches the best when all LED indicators of the

Method 2: Log into 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

Input voltage Maximum PoE power supply distance

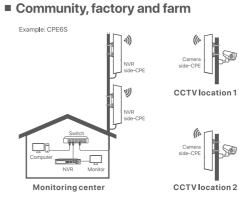
Q4: What is the maximum distance for PoE power supply when a PoE injector is used for power supply?

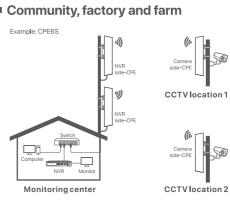
18-25V

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

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).

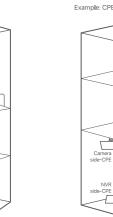
mode or 192.168.2.2 in Station mode) in the address bar. Enter the username and password and click **Login**.



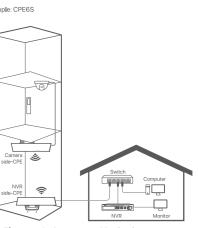


Elevator

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



Get Support and Services



https://www.ip-com.com.cn/en/service/default.html

For technical specifications, user guides and more information, please visit the product page or service page on www.ip-com.com.cn. 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 accident accidents are taken to be takewarning 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.ip-com.com.cn.

CE Mark Warning This is a Class A product

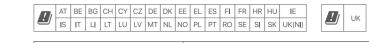
Warning: Operation of this waining. Operation to its equipment in a resonance maintained course add interference. It which case the use may be required to take adequate meas. This equipment should be installed and operated with a minimum distance 20 cm between the device and your body.

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

Declaration of Conformity

Hereby, SHENZHEN IP-COM Networks 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: http://ip-com.com.cn/en/ce.html

 $Attention: \textbf{In EU member states}, \textbf{EFTA countries}, \textbf{Northern Ireland and Great Britain}, \textbf{the operation in the frequency range 5} \textbf{State of the State of Stat$ indoors. The operation in the frequency range 5470MHz = 5725MHz is permitted both indoors and outdoors



Operating Frequency/Max Output Power

2412MHz-2472MHz/20dBm (CPE6SV2.0/CPE12V3.0) 5150MHz=5250MHz (indoor use only)/23dBm (CPE6S/CPE12 5470MHz-5725MHz/27dBm (CPE6S/CPE12)



FCC Statement

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide 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. his equipment should be installed and operated with minimum distance 20cm between the device and your bod

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

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