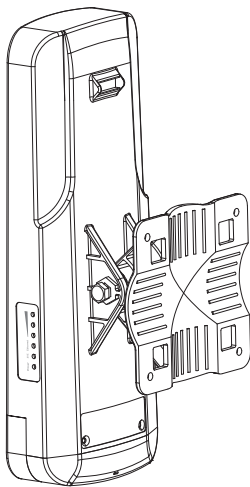


## Long-Range Wireless Transmit CPE

2.4G and 5.8G Wireless CPE



Installation Guide

## Product Profile

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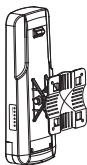
This guide applies to:

WI-CPE211,WI-CPE513,WI-CPE515,WI-CPE516,WI-CPE517,WI-CPE518 ,WI-CPE214SMA,WI-CPE514SMA,WI-CPE515-KIT,WI-CPE518-KIT, WI-CPE213-KIT.This guide introduces how to build a wireless network using the CPE products:

1. Check the System Requirements
2. Log In to the Device
3. Set Up the Wireless Network
4. WI-CPE515-KIT,WI-CPE518-KIT,WI-CPE213-KIT is pre-configuration software, so can do Point to Point by auto-connect

The following parts detailedly introduces these steps.

### Packing list



wireless bridge



POE

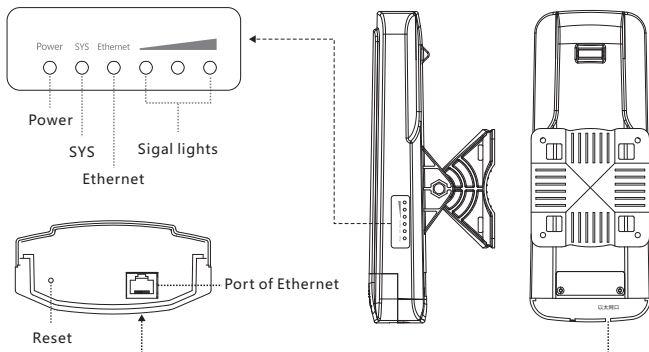


Strapping tape

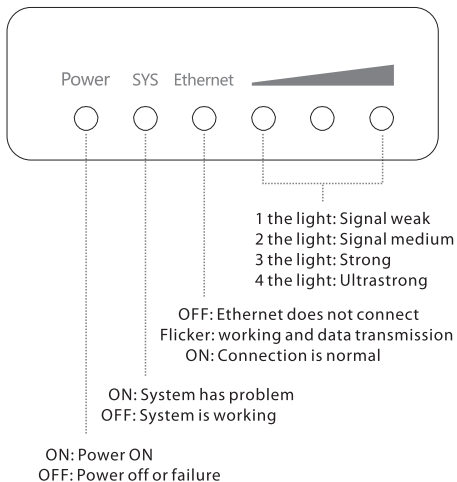
| Itme | Description     | QTY | Unit |
|------|-----------------|-----|------|
| 1    | Wireless bridge | 1   | Pcs  |
| 2    | POE adapter     | 1   | Pcs  |
| 3    | Strapping tape  | 2   | Pcs  |

※ If you find any items are missing or damage, please feel free to contact your supplier.

## Product exterior and Guiding lights



## Guiding lights



Button instruction: Press the reset button more than 10 minutes, the device restores factory setting.

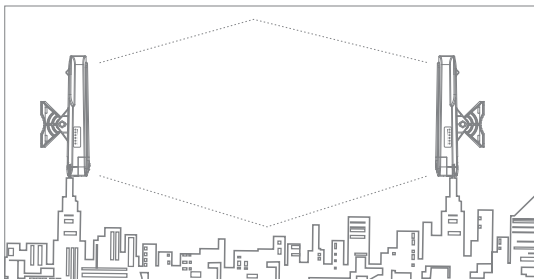
# Installation

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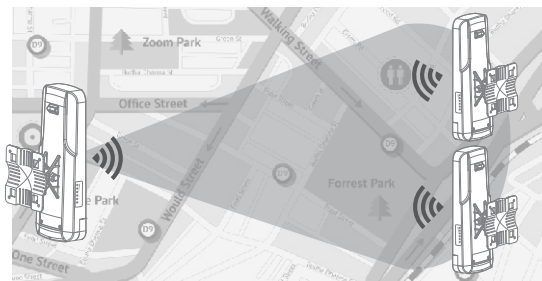
## Outdoor installation manual

While outdoor wireless long distance transmitting encounter obstacle such as top buildings or trees, the signal will be weak ; This is a directional bridge, the best signal will be obtained once it forwards to radiation range, so the alignment of antenna is important .

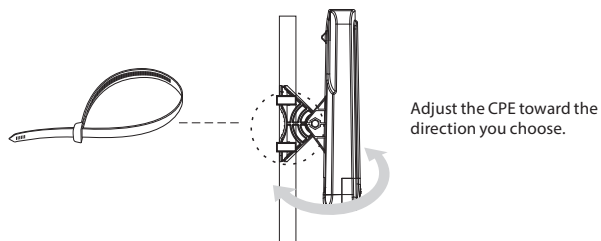
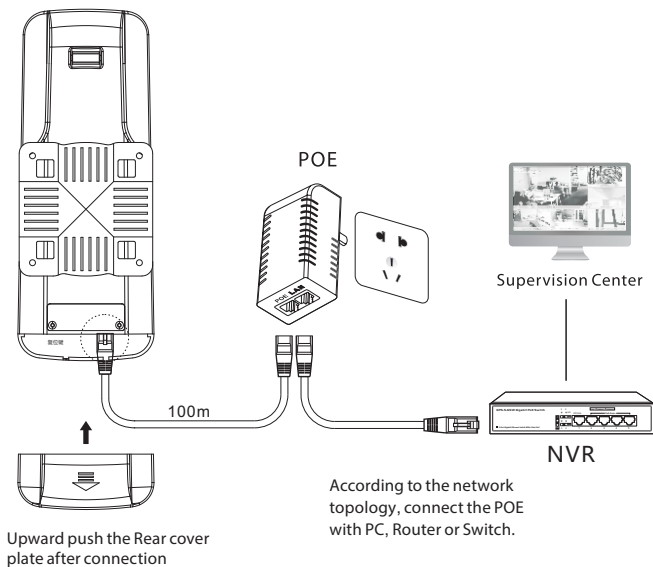
First of all, confirm the installation position:



Secondly, adjust the angle according to the horizontal beamwidth and Vertical beamwidth of antenna; you also can choose the position by means of google map, and adjust the angle at the same time (can see the signal status by the signal lights, or check on the user interface of the product 'Status/connecting/Signal' )

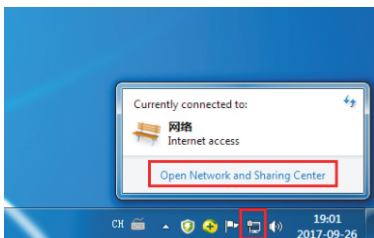


## Connection and Installation

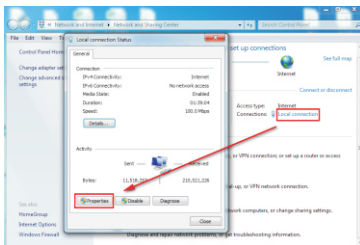


## Device Setting

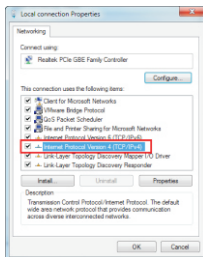
Step 1: Click on the icon at the lower right of computer to open 'Open Network and Sharing Center'.



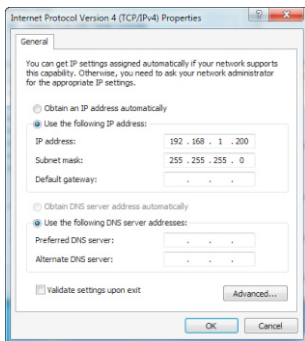
Step 2: Click 'local connection' then 'Properties'.



Step 3: Double click 'Internet Protocol Version 4'.



Step 4: In the pop-up window, select "Use the following IP address." and input the IP address: 192.168.1.X (X is 2-253), Subnet mask is: 255.255.255.0, then press the 'OK' button.



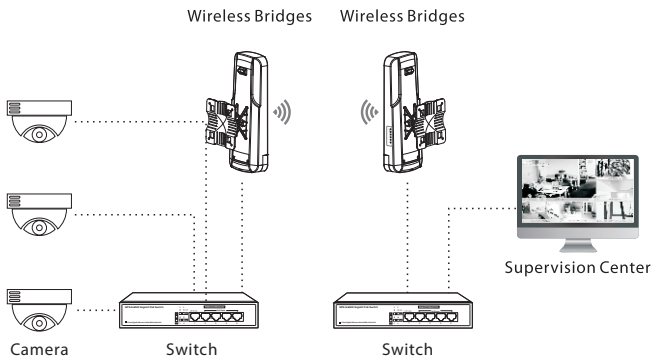
Step 5: Open the browser of computer and input 192.168.1.88, you will see the following page layout, the user name and password both are: admin.



Please enter the Username and Password, choose the language to 'English', then click 'Login', you will go into the setting page of the product.

## Point to point connection

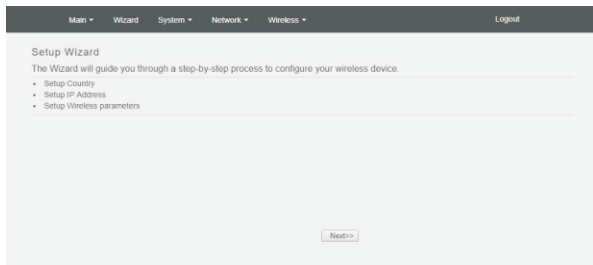
For point to point connection, please setting one device from two as 'AP mode', another one as 'Client mode', the SSID, the way of encryption and password of these two devices are both the same, then they will connect and work with each other automatically.



Remark: The IP address of these two devices must be different.

Bridge is setting as AP mode

Step 1: Choose 'Setup Wizard', then click 'Next'





Step 2: Setup Country, choose 'America', then click 'Next' (Please take note the country should be the same in these two devices)

The screenshot shows a web interface with a dark header bar containing navigation links: 'Main', 'Wizard', 'System', 'Network', 'Wireless', and 'Logout'. The main content area is titled 'Setup Country' and includes the text 'You can setup different country.' Below this, there is a label 'Country/Region:' followed by a dropdown menu currently displaying 'China'. At the bottom of the form, there are three buttons: 'Cancel', '<<Back', and 'Next>>'.

Step3: Setup IP Address, Choose 'Static' IP and IP address is 192.168.1.88, Subnet Mask is 255.255.255.0, and keep the same of other information then click 'Next'.

The screenshot shows a web interface with a dark header bar containing navigation links: 'Main', 'Wizard', 'System', 'Network', 'Wireless', and 'Logout'. The main content area is titled 'Setup IP Address' and includes the text 'This page configures the IP address, subnet mask, DHCP, and other parameters for your local area network that is connected to the LAN port of the device.' Below this, there are two radio buttons for 'Management IP Address': 'DHCP' and 'Static'. The 'Static' option is selected. Below the radio buttons, there are five input fields: 'IP Address' (containing '192.168.1.88'), 'Subnet Mask' (containing '255.255.255.0'), 'Gateway IP Address' (containing '0.0.0.0'), 'DNS 1' (containing '0.0.0.0'), and 'DNS 2' (containing '0.0.0.0'). At the bottom of the form, there are three buttons: 'Cancel', '<<Back', and 'Next>>'.

Step 4: Setup Wireless Parameters ,choose ' AP' as Operation mode, SSID and frequency can be changed according to reality, other information keep the same and click to ' Next' button.

Step 5: Setup Wireless Security, choose 'WPA2-PSK' as Authentication and AES as Data Encryption, enter the password then click ' Apply' button.

The screenshot shows a web interface for configuring wireless settings. At the top, there is a navigation bar with links: Main, Wizard, System, Network, and Wireless. A 'Logout' link is in the top right corner. The main content area is titled 'Setup Wireless parameters' and includes a subtitle: 'Use this page to change the wireless mode as well as configure any associated wireless network parameters and define the wireless security settings.'

The 'Setup Wireless parameters' section contains the following fields:

- Operation Mode: AP (dropdown menu)
- AP-WDS: Enable (dropdown menu)
- SSID: Wl-TEK-1 (text input field)
- 802.11 Mode: 802.11B/G/N (dropdown menu)
- Channel Mode: 20 MHz (dropdown menu)
- Channel/Frequency: 2472MHz (13) (dropdown menu)

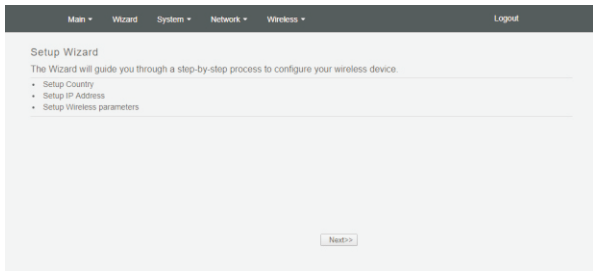
The 'Setup Wireless Security' section contains the following fields:

- Authentication: WPA2-PSK (dropdown menu)
- Data Encryption: AES (dropdown menu)
- WPA Passphrase: (password input field with masked characters)

At the bottom of the form, there are three buttons: 'Cancel', '<<Back', and 'Apply'.

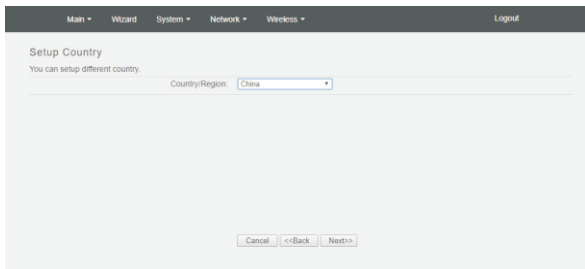
## Setting up Client mode

Step 1: Go into 'Setup Wizard', press 'Next' button



The screenshot shows a web interface with a dark grey header bar containing navigation links: Main, Wizard, System, Network, and Wireless. A Logout link is on the right. The main content area is titled 'Setup Wizard' and contains the text: 'The Wizard will guide you through a step-by-step process to configure your wireless device.' Below this is a list of steps: 'Setup Country', 'Setup IP Address', and 'Setup Wireless parameters'. At the bottom right, there is a 'Next>' button.

Step 2: Setup Country, choose 'America', then click 'Next' (Please take note the country should be the same in these two devices)



The screenshot shows a web interface with a dark grey header bar containing navigation links: Main, Wizard, System, Network, and Wireless. A Logout link is on the right. The main content area is titled 'Setup Country' and contains the text: 'You can setup different country.' Below this is a 'Country/Region:' label followed by a dropdown menu showing 'China'. At the bottom, there are three buttons: 'Cancel', '<<Back', and 'Next>'.

Step 3: Setup IP Address. Choose 'Static' Management IP Address, IP address is 192.168.1.X (X is 2-254), Subnet Mask is 255.255.255.0, other information is keep and same then click 'Next' button. (Please take note the IP address of Client is different from other LAN or Computers.)

Main Wizard System Network Wireless Logout

### Setup IP Address

This page configures the IP address, subnet mask, DHCP, and other parameters for your local area network that is connected to the LAN port of the device.

Management IP Address: ☐ DHCP ☒ Static

IP Address:

Subnet Mask:

Gateway IP Address:

DNS 1:

DNS 2:

Step 4: Setup Wireless Parameters, choose 'Wireless Client' as Operation Mode, click 'Wireless Site Survey', select the SSID you want to connect in the list then click 'Select SSID', press the 'Next' button.

Main Wizard System Network Wireless Logout

### Setup Wireless parameters

Use this page to change the wireless mode as well as configure any associated wireless network parameters and define the wireless security settings.

Operation Mode:

STA-WDS:

SSID:

Locked AP MAC:

### Setup Wireless Security

Authentication:

Data Encryption:

WPA Passphrase:

### Wireless Site Survey

This page provides a tool to scan the wireless network.

| Select                           | SSID          | Frequency/Channel | MAC Address       | 802.11 Mode | Signal Strength | Security |
|----------------------------------|---------------|-------------------|-------------------|-------------|-----------------|----------|
| <input type="radio"/>            | Sound         | 2462MHz (11)      | 6c:e8:73:d5:d4:5e | 802.11B/G/N | -96dBm          | WPA2     |
| <input checked="" type="radio"/> | WISF          | 2467MHz (12)      | 4a:c0:09:21:7b:d4 | 802.11B/G/N | -96dBm          | WPA      |
| <input type="radio"/>            | WF200-SIJZH   | 2472MHz (13)      | c0:4a:09:21:6f:10 | 802.11B/G/N | -49dBm          | WPA      |
| <input type="radio"/>            | WF200-SSID2   | 2472MHz (13)      | c2:4a:09:31:6f:10 | 802.11B/G/N | -49dBm          | WPA      |
| <input type="radio"/>            | HUAWEI-BXEQ48 | 2412MHz (1)       | 80:71:7a:46:ab:14 | 802.11B/G/N | -96dBm          | WPA2     |
| <input type="radio"/>            | SMT           | 2472MHz (13)      | c0:4a:09:22:c6:28 | 802.11B/G/N | -55dBm          | WPA      |
| <input type="radio"/>            | SMT           | 2462MHz (11)      | 00:0c:e7:88:00:04 | 802.11B/G/N | -96dBm          | WPA2     |
| <input type="radio"/>            | mesh WiFi 无密码 | 2462MHz (11)      | d8:38:0d:5e:ac:09 | 802.11B/G/N | -96dBm          | NONE     |
| <input type="radio"/>            | sz-jcc2.4G    | 2462MHz (11)      | 20:6b:e7:57:3a:e2 | 802.11B/G/N | -96dBm          | WPA      |
| <input type="radio"/>            | Netcore       | 2472MHz (13)      | 08:10:79:5a:1d:9d | 802.11B/G/N | -81dBm          | NONE     |

Step5: Setup Wireless Security, choose 'WPA2-PSK' as Authentication and AES as Data Encryption, enter the password then click 'Apply' button.  
(The password should be the same as AP device)

Setup Wireless parameters

Use this page to change the wireless mode as well as configure any associated wireless network parameters and define the wireless security settings.

Operation Mode:

Wireless Client ▾

Site Survey

STA-WDS:

Enable ▾

SSID:

WISF

Locked AP MAC:

Setup Wireless Security

Authentication:

WPA2-PSK ▾

Data Encryption:

AES ▾

WPA Passphrase:

\*\*\*\*\*

Cancel

<<Back

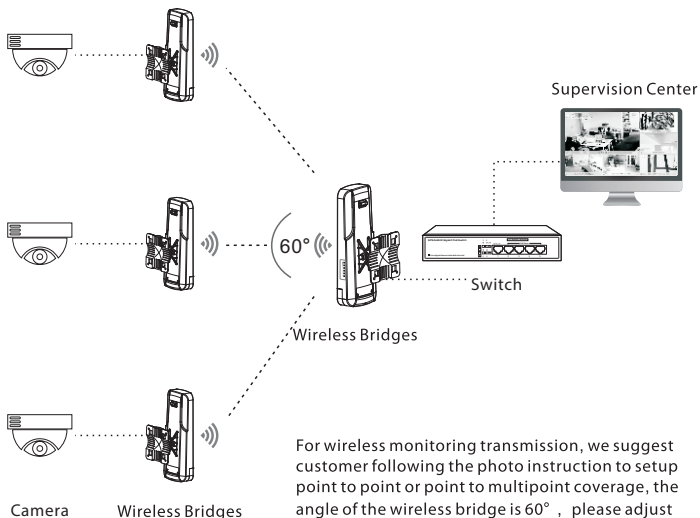
Apply

## Point to Multipoint Connection

The AP and Client mode setting of Point to Multipoint connection are the same as point to point configuration.

Please pay attention to the following items when products are working as point to multipoint coverage:

1. The IP address should be different between bridges and computers .
2. Please pay attention to the angle of bridge when installing.
3. Please notice whether the current application scenario meets the bandwidth transfer requirement.



For wireless monitoring transmission, we suggest customer following the photo instruction to setup point to point or point to multipoint coverage, the angle of the wireless bridge is 60° , please adjust the product accordingly.