Quick Installation Guide

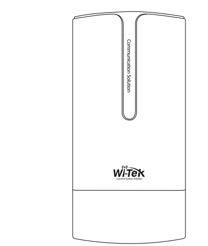
Long-range Outdoor Wireless Transmitter

WI-CPE110-KIT Hardware Version: V2

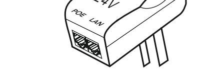
www.wireless-tek.com

1. Packing Content

- WI-CPE110-KIT

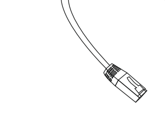


Wireless Transmitter × 2

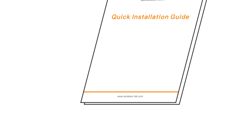


PoE Adapter x 2

Plastic Tie Cable x 4



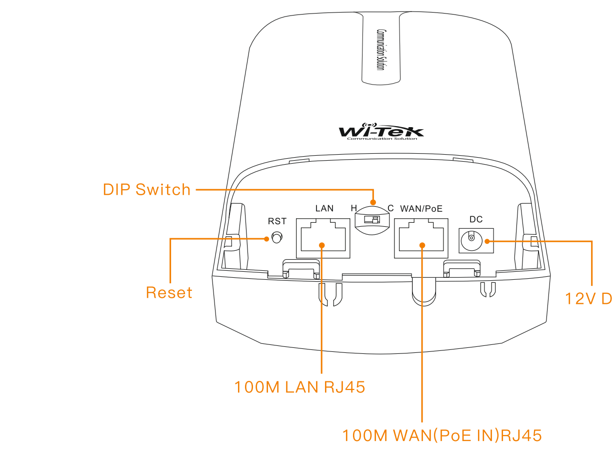
Ethernet Cable x 2


Quick Installation Guide

Quick Installation Guide x 1

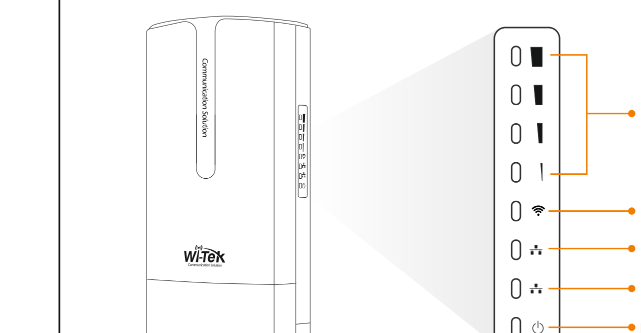
2. Hardware Overview

- WI-CPE110-KIT


DIP Switch
RST
LAN
H
C
WAN/PoE
DC
Reset
12V DC Input
100M LAN RJ45
100M WAN(PoE IN)RJ45

- Button

Button	Description
DIP Switch	H: Base station mode, supports wireless point-to-point and point-to-multipoint long-distance transmission.
	C: CPE mode, a receiving point for connecting a wireless base station.
Reset Button	Short press: Search for another wireless transmitter on a different mode (H/C status) and pair each other. The pair search will last for 120 seconds after short pressing the button.
	Long press over 5 seconds: Restore the factory default configuration.


Wireless Signal
Wi-Fi
LAN
WAN
Power

- LED Indicator

LED Indicator	Status	Description
Power	Solid On	The system power supply is normal.
	Quick Blinking	Searching for another device and pairing.
	Off	The system power supply is abnormal.
WAN & LAN	Solid On	A link has been established on the interface.
	Off	No link is established on the interface.
Wi-Fi	Blinking	The wireless activated.
Wireless Signal	Solid On	The wireless is paired successfully. The stronger the wireless signal, the more LED indicators are on.
	Off	The wireless is not paired or the wireless signal is too weak.

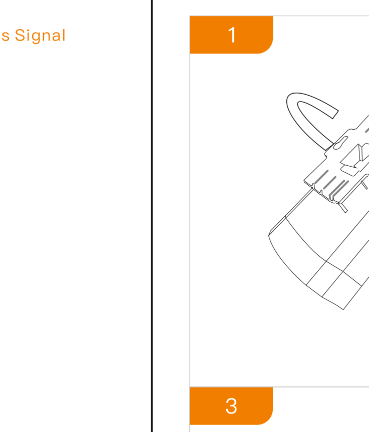
3. Installation

1.Insert ribbon at the backside bracket hole.Adjuste it according to the pole size and installation position.

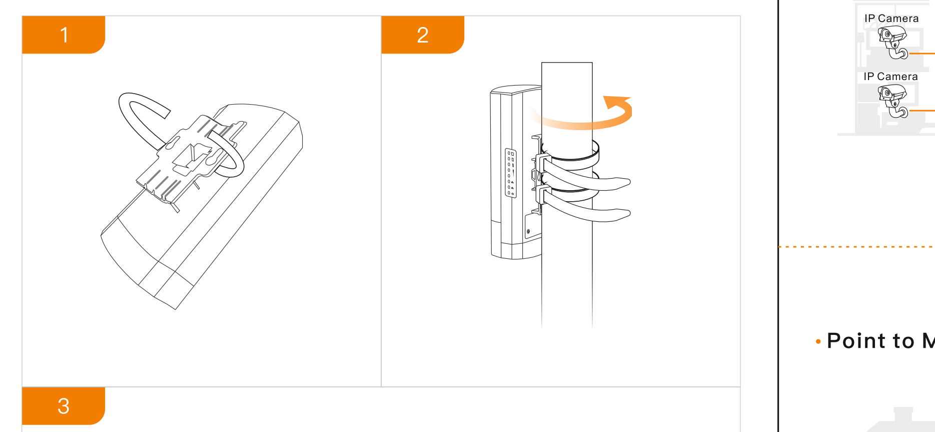
2.Install the device on the pole and tighten the ribbon.

3.Hold on the buckle to take down thedevice back cover. Insert the network cable into the network port, then fasten the back cover.

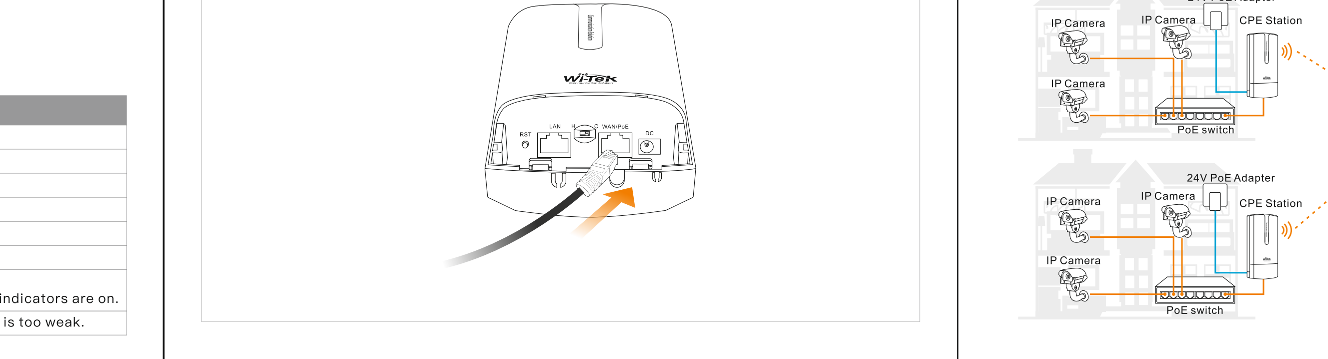
1



2

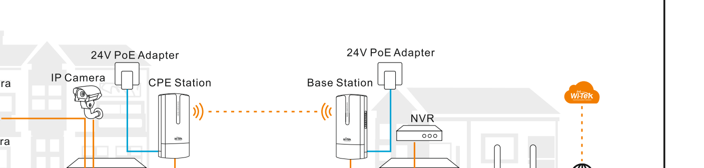


3



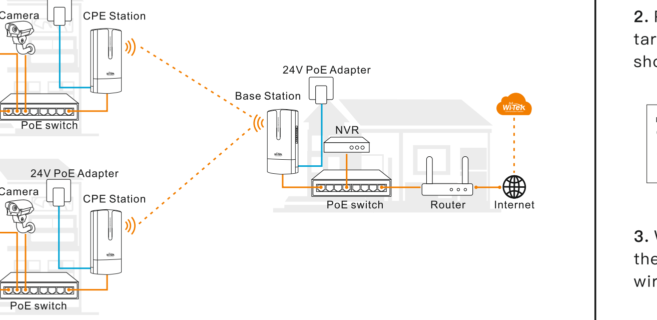
4. Application

- Point to Point Connection for CCTV

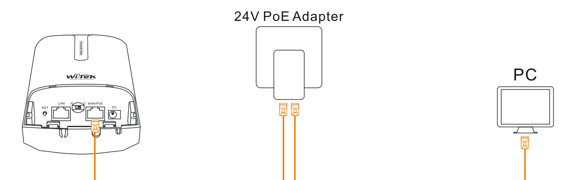

IP Camera
IP Camera
IP Camera
24V PoE Adapter
CPE Station
PoE switch
24V PoE Adapter
Base Station
NVR
PoE switch
Router
Internet

OR

- Point to Multi-Point Connection for CCTV


IP Camera
IP Camera
IP Camera
24V PoE Adapter
CPE Station
PoE switch
IP Camera
IP Camera
IP Camera
24V PoE Adapter
CPE Station
PoE switch
24V PoE Adapter
Base Station
NVR
PoE switch
Router
Internet

5. Quick Pairing

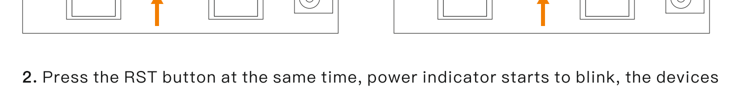

24V PoE Adapter
PC
PoE
LAN

Quick Pairing

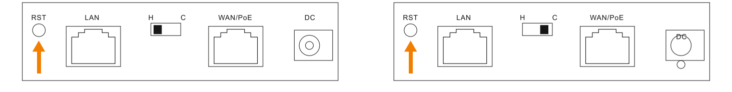
Note: it needs to restore the device to factory settings before quick pairing.

For PTP application

1. Set the DIP switch of the two devices to different modes (one to H and another to C). and wait for restart to switching mode.


RST
LAN
H
C
WAN/PoE
DC
RST
LAN
H
C
WAN/PoE
DC

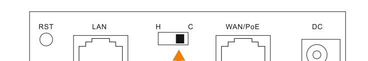
2. Press the RST button at the same time, power indicator starts to blink, the devices tarts to search and pair each other. The pair search will last for 120 seconds after short pressing the button.


RST
LAN
H
C
WAN/PoE
DC
RST
LAN
H
C
WAN/PoE

3. Wait about 1 minute, when the wireless signal indicator of the two devices is solid on, the quick pairing is successful, and the signal strength can be judged according to the wireless signal indicator.

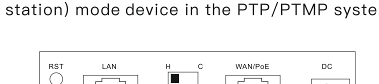
For PTMP application

If there is needed to add another CPE to the PTP/PTMP system:
1. Restore the devices that need to be added to the PTMP system.
2. Set the DIP switch to C (CPE) mode for the devices to be added and wait for restart to switching mode..

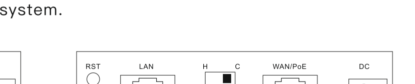

RST
LAN
H
C
WAN/PoE
DC

The device to be added

3. Press the RST button simultaneously as the devices to be added and the H (Base station) mode device in the PTP/PTMP system.


RST
LAN
H
C
WAN/PoE
DC

The H mode device
in the PTP/PTMP system


RST
LAN
H
C
WAN/PoE
DC

The device to be added

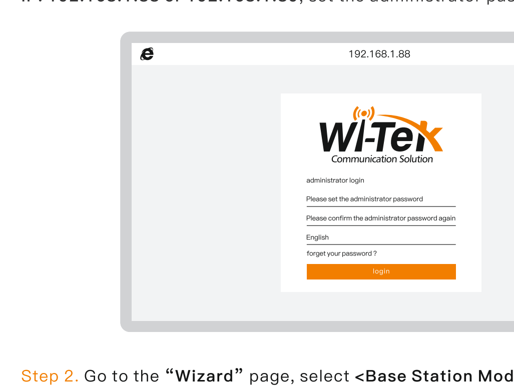
4. Wait about 1 minute, when the wireless signal indicator of the two devices is solid on, the quick pairing is successful.

6. Management

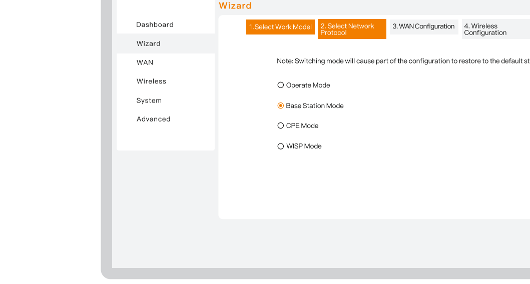
Management by WEB

A) Set the device to **Base Station Mode.**

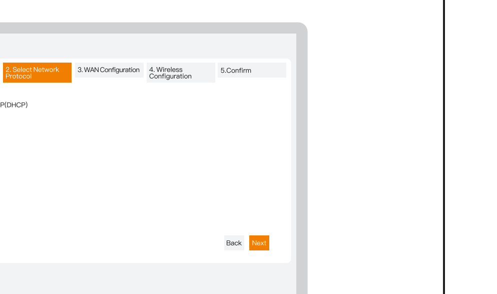
Step 1. Set PC network IP to**192.168.1.X (X: 2~50)**, subnet mask: 255.255.255.0, same network segment as device. Launch the browser and enter the login page **default IP: 192.168.1.88 or 192.168.1.89**, set the administrator password.


192.168.1.88
Wi-Tek
Communication Solution
administrator login
Please set the administrator password
Please confirm the administrator password again
English
Forgot your password?
login

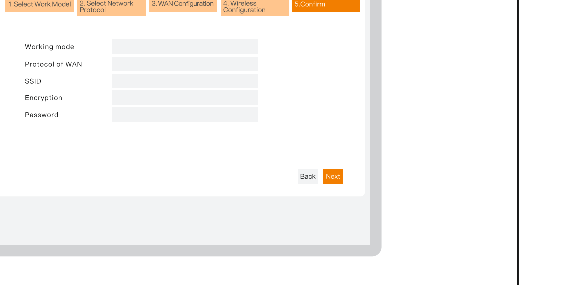
Step 2. Go to the **"Wizard"** page, select **<Base Station Mode>**, and click **<Next>**.


Wizard
Dashboard
Wizard
WAN
Wireless
System
Advanced
1.Select Work Mode
2.Select Network Protocol
3.WAN Configuration
4.Wireless Configuration
5.Confirm
Note: Switching mode will cause part of the configuration to restore to the default state
Operate Mode
Base Station Mode
CPE Mode
WISP Mode
Back
Next

Step 3. Select the network protocol based on the network design. For example, select **<Dynamic IP(DHCP)>** and click **<Next>** in the **"Select Network Protocol"** page. Type in network parameters in the **"WAN configuration"** page, and click **<Next>**.

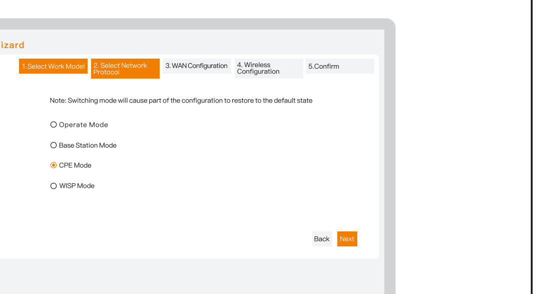

Wizard
Dashboard
Wizard
WAN
Wireless
System
Advanced
1.Select Work Mode
2.Select Network Protocol
3.WAN Configuration
4.Wireless Configuration
5.Confirm
Dynamic IP(DHCP)
Static IP
Back
Next

Step 4. Type in the **<SSID>**, **<Encryption>** and **<Password>** in **"Wireless Configuration"** page. Then click **<Next>**. Review the configurations and click **<Confirm>** to complete the wizard in the **"confirm"** page. The device will save the configuration and restart to switching mode.

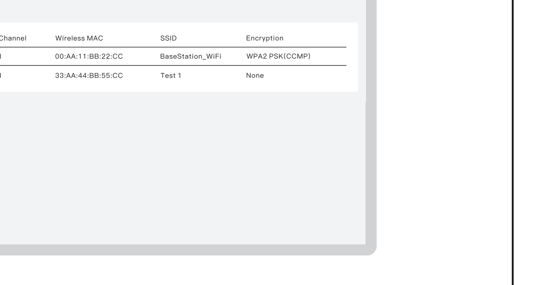

Wizard
Dashboard
Wizard
WAN
Wireless
System
Advanced
1.Select Work Mode
2.Select Network Protocol
3.WAN Configuration
4.Wireless Configuration
5.Confirm
Working mode
Protocol of WAN
SSID
Encryption
Password
Back
Next

B) Set the device to **CPE Mode.**

Step 5. Repeat the A) step 1, login the management WEB. Go to the **"Wizard"** page, select **<CPE Mode>**, and click **<Next>**.

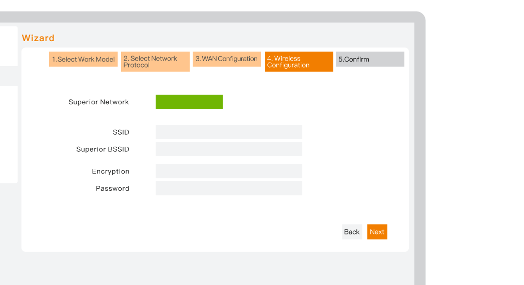

Wizard
Dashboard
Wizard
WAN
Wireless
System
Advanced
1.Select Work Mode
2.Select Network Protocol
3.WAN Configuration
4.Wireless Configuration
5.Confirm
Note: Switching mode will cause part of the configuration to restore to the default state
Operate Mode
Base Station Mode
CPE Mode
WISP Mode
Back
Next

Step 6. Repeat the A) step 3, Specify the parameter in the **"WAN configuration"** page and click **<Next>. Click <Start Scan>** to search and select the base station wireless in the **"Wireless Configuration"** page.

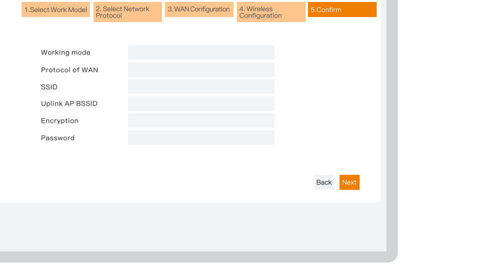

Start Scan 2.4G

Select	Signal	Channel	Wireless MAC	SSID	Encryption
●	-22dBm	1	00:AA:11:BB:22:CC	BaseStation_WiFi	WPA2 PSK(CCMP)
○	-20dBm	1	33:AA:44:BB:55:CC	Test 1	None

Step 7. Type in the base station wireless parameter and click **<Next>**.


Wizard
Dashboard
Wizard
WAN
Wireless
System
Advanced
1.Select Work Mode
2.Select Network Protocol
3.WAN Configuration
4.Wireless Configuration
5.Confirm
Superior Network
SSID
Superior BSSID
Encryption
Password
Back
Next

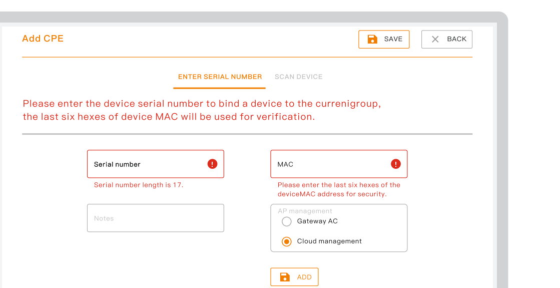
Step 8. Review the configurations and click **<Confirm>** to complete the wizard in the **"confirm"** page. The device will save the configuration and restart to switching mode.


Wizard
Dashboard
Wizard
WAN
Wireless
System
Advanced
1.Select Work Mode
2.Select Network Protocol
3.WAN Configuration
4.Wireless Configuration
5.Confirm
Working mode
Protocol of WAN
SSID
Uplink AP BSSID
Encryption
Password
Back
Next

Finish the above steps and wait for the device to restart. The PTP application configuration is complete when the signal strength indicators of both devices are on. If you want to configure the PTMP application, repeat steps **B) 5 ~ 8** for the other device after completing the PTP application.

7. Cloud Management

Make sure your device has access to the Internet. Enter https://cloud2.wireless-tek.com in the browser and log in to the cloud, add a network, or select the existing network. Go to "Device > CPE", click < ADD DEVICE >, enter the device's SN and last six hexes of the device MAC address, and click < ADD >. Wait a moment, you can find it in the device list and view it in "Topology".


Add CPE
SAVE
BACK
ENTER SERIAL NUMBER
SCAN DEVICE
Serial number
Serial number length is 17
MAC
Please enter the last six hexes of the deviceMAC address for security.
Gateway AC
Cloud management
ADD

Please enter the device serial number to bind a device to the currenigroup, the last six hexes of device MAC will be used for verification.

8. Warranty Card

Username	
Address	
Telephone No.	
Purchase Shop	
Purchase Address	
Product Model No.	
Purchase Time	
Serial No.	
Dealer Signature	

- If the product defects within the warranty period, we will provide professional maintenance service.
- Proof of purchase and a complete product serial number are required to receive any services guaranteed as part of the limited warranty.
- Any other defects that are not caused by workmanship or product quality, such as natural disasters, water damage, extreme thermal or environmental conditions, sticker damaged, warranty card loss will disqualify the product from limited warranty.

Company Website Cloud Management Technical Support

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