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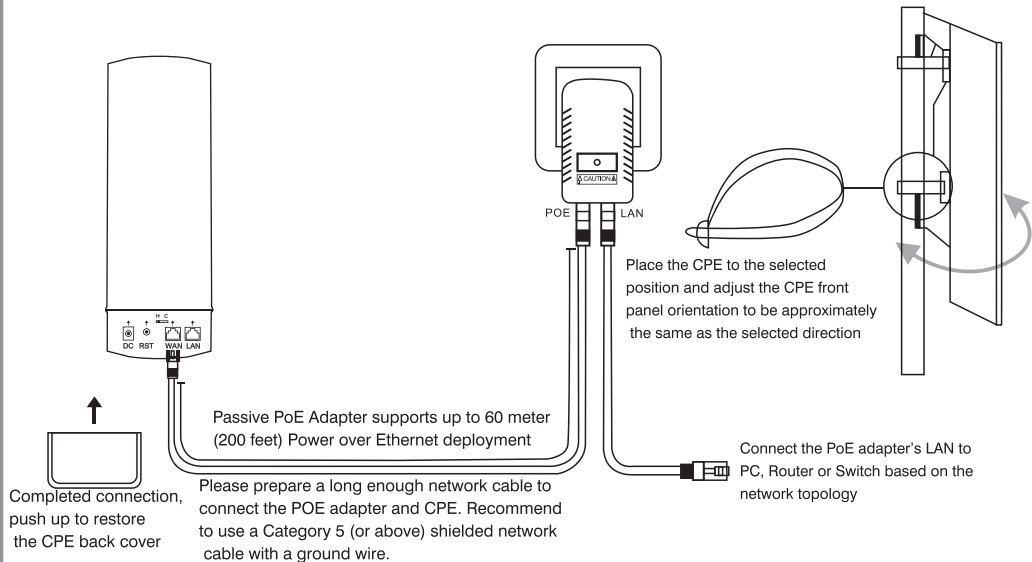
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# Quickly Installation Guide

## Outdoor Wireless Bridge

### 1 Device Installation

(Take the 5.8g wireless bridge as an example)



#### Working Environment:



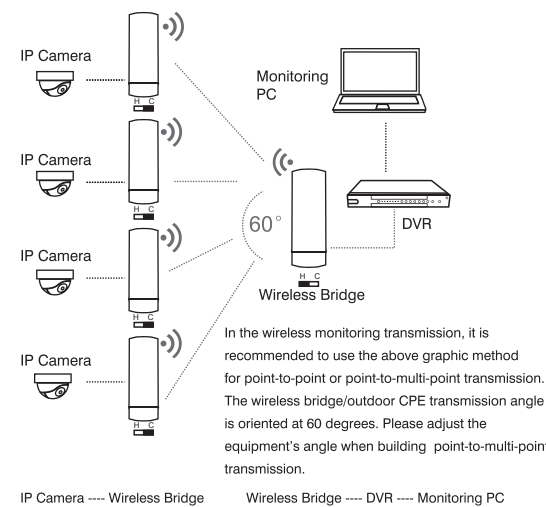
Only applicable to areas below 2000 meters above sea level



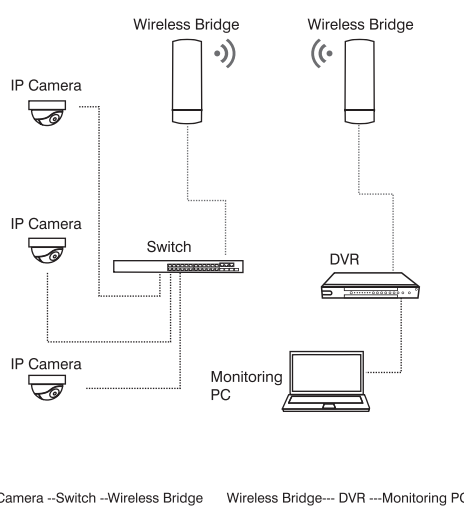
Only applicable to non-tropical weather conditions

### 2 Wireless Connection Topology

#### Point to multiple point



#### Point to Point



PJ-SMSX-166 v1.02

### 3.Bridge Ways

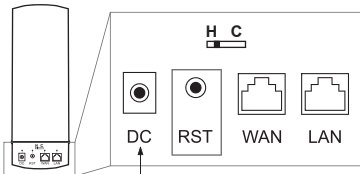
(\*Two bridge ways:One Key Bridge & LED Display Bridge, choose the way based on request.)

#### Quickly Installation Guide

##### 1.One Key Bridge

###### 1. Config Master/ Slave CPE

Put the switch to H, CPE will work as Master. Put the switch to C, CPE will work as Slave.



\* Note: The pictures of the above products may change slightly according to the production cycle, and the final appearance is based on the physical object.

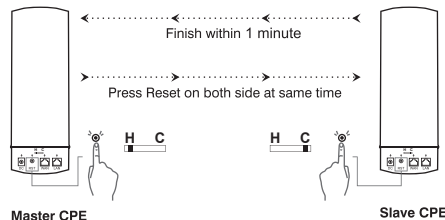
###### 2.Point to Point Connection

Press reset button on both master and slave CPE, will start bridging.

###### Point to mult Point Connection

Press reset button on master and mult slave CPEs, will start bridging.

Note: Master CPE and slave CPE bridging actions (press reset button) need to be finished in 1 minute.



##### 2.LED Display Bridge

###### 1.Config Master CPE

When bridge two CPEs, make one work as master: press "F" to make H/ C blinking, and press "S" to change to "H", it will save automatically in 5 seconds.

###### 2.Config Slave CPE

Set another CPE to work as slave: press "F" to make H/ C blinking, and press "S" to change to "C", it will save automatically in 5 seconds.



#### Note:

- 1.CPE default working mode is AP mode after reset, IP is 192.168.188.253
- 2.F is select button, can be used to choose master/ slave working mode, wifi channel, IP, and checking signal strength
- 3.S is config button, can be used to set master/ slave working mode, wifi channel, IP

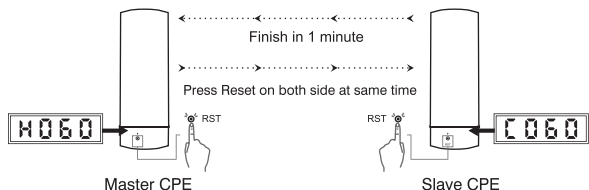
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Press reset button on both master and slave CPE, will start bridging.

###### Point to mult Point Connection

Press reset button on master and mult slave CPEs, will start bridging.

Note: Master CPE and slave CPE bridging actions (press reset button) need to be finished in 1 minute.



###### 4.Change Wifi channel

To avoid signal interference, need to change master CPE wifi channel only, slave CPE will reboot and bridge to master CPE automatically. Press F twice, change channel by press S, CPE will save and reboot automatically in 5 seconds.



H--- Master CPE  
060---60 Channel



C--- Slave CPE  
060---60 Channel

###### 5.Change IP

To avoid CPE IP conflicts, need to change CPE IP address. Press F three times until the IP is blinking, press S to change IP, CPE will save and reboot automatically in 5 seconds.



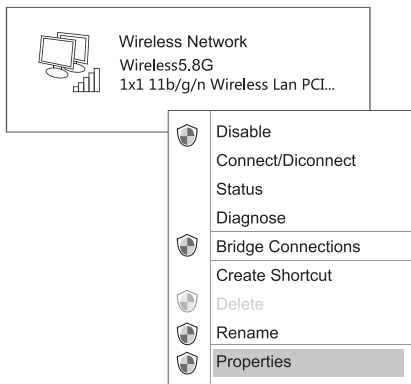
##### 3.Reset method

Press reset button in 10 Seconds will resetting device

#### Web Configuration

##### 1.PC configuration if PC connect CPE by wireless

Set PC wireless network IP to 192.168.188.x (x: 2~250), same network segment as CPE, subnet mask: 255.255.255.0:



Check wireless connection

After IP address configuration, connect to CPE's wireless SSID: Wireless 5.8G, and input password (Default Password: 66666666)

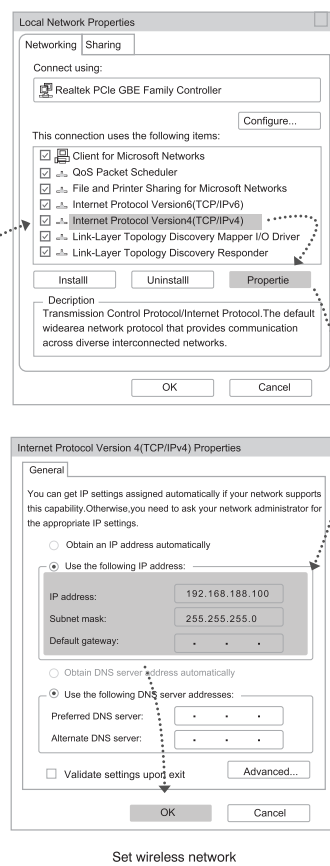
尺寸：420X297mm  
双面印刷 有折位  
80g双胶书纸

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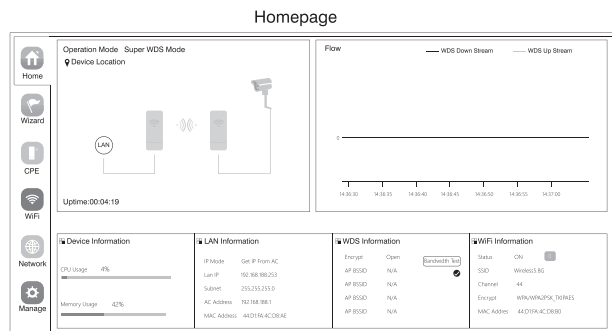
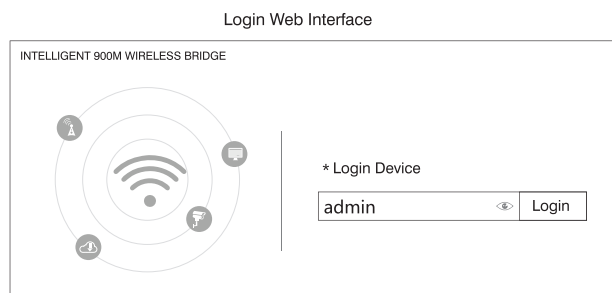
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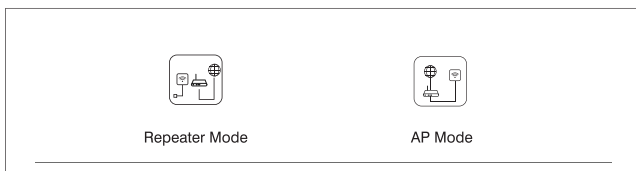


## 2. Login Web Configuration

Use IE browser to access <http://192.168.188.253>, pop up the login page shown below, input the login password: admin, enter into the home page.

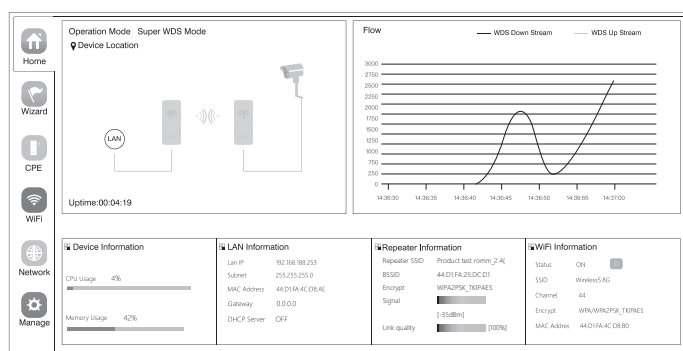


## Setup Wizard



- ▶ Repeat mode  
Bridge the exist wireless signal then transmit Wi-Fi for more range
- ▶ AP mode  
In this mode, NAT, DHCP, firewall, and all WAN-related functions are turned off. All wireless and wired interfaces are bridged together, regardless of LAN and WAN

## 3. Bridge Status



Login CPE (work as repeater), will see signal strength, green is normal, between -70dBm to -40dBm.

尺寸：420X297mm

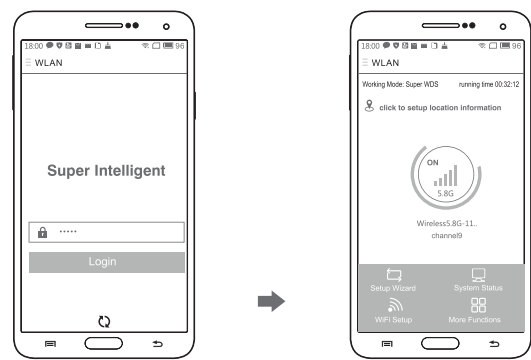
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80g双胶书纸

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## 5. Login WEB by Mobile Phone

Outdoor CPE support mobile phone Login and set, the configure page showed as follow:



### Steps:

1. Mobile phone connect with outdoor CPE, SSID: Wireless5G, password: 66666666, or please refer to product sticker for SSID, password.
2. Configure static IP  
**Static IP address configuration on Android Mobile Phone**  
Open settings in phone, turn on WLAN and find the SSID of the CPE, touch it for a long time until there is a menu, then choose 'static IP' in the menu, set the mobile phone IP address as 192.168.188.X (X can not be 253 or 252), same network segment as CPE, subnet mask: 255.255.255.0, then gateway, subnet mask and domain.  
**Static IP address configuration on iOS Mobile Phone**  
Open settings and choose Wi-Fi, connect with CPE, click exclamation mark ①, manual to set IP address 192.168.188.X (X can not be 253 or 252) and subnet for mobile phone, note: mobile phone's IP address should be same network segment as CPE.
3. Input 192.168.188.253 on the internet explorer bar, input admin to login the mobile configuration page.



①. Android system setup steps



②. iOS system setup steps

## 4. Channel Table

Wireless Bridge Regional Channel Code Instructions		
Regional Code	5G Channel	5G Channel
China	5.180GHz (Channel 36)	5.180GHz (Channel 36)
	5.200GHz (Channel 40)	5.200GHz (Channel 40)
	5.220GHz (Channel 44)	5.220GHz (Channel 44)
	5.240GHz (Channel 48)	5.240GHz (Channel 48)
	5.260GHz (Channel 52)	5.260GHz (Channel 52)
	5.280GHz (Channel 56)	5.280GHz (Channel 56)
	5.300GHz (Channel 60)	5.300GHz (Channel 60)
	5.320GHz (Channel 64)	5.320GHz (Channel 64)
	5.340GHz (Channel 68)	5.340GHz (Channel 68)
	5.360GHz (Channel 72)	5.360GHz (Channel 72)
	5.380GHz (Channel 76)	5.380GHz (Channel 76)
	5.400GHz (Channel 80)	5.400GHz (Channel 80)
	5.420GHz (Channel 84)	5.420GHz (Channel 84)
	5.440GHz (Channel 88)	5.440GHz (Channel 88)
	5.460GHz (Channel 92)	5.460GHz (Channel 92)
	5.480GHz (Channel 96)	5.480GHz (Channel 96)
America	5.500GHz (Channel 100)	5.500GHz (Channel 100)
	5.520GHz (Channel 104)	5.520GHz (Channel 104)
	5.540GHz (Channel 108)	5.540GHz (Channel 108)
	5.560GHz (Channel 112)	5.560GHz (Channel 112)
	5.580GHz (Channel 116)	5.580GHz (Channel 116)
	5.600GHz (Channel 120)	5.600GHz (Channel 120)
	5.620GHz (Channel 124)	5.620GHz (Channel 124)
	5.640GHz (Channel 128)	5.640GHz (Channel 128)
	5.660GHz (Channel 132)	5.660GHz (Channel 132)
	5.680GHz (Channel 136)	5.680GHz (Channel 136)
	5.700GHz (Channel 140)	5.700GHz (Channel 140)
	5.720GHz (Channel 144)	5.720GHz (Channel 144)
	5.740GHz (Channel 148)	5.740GHz (Channel 148)
	5.760GHz (Channel 152)	5.760GHz (Channel 152)
	5.780GHz (Channel 156)	5.780GHz (Channel 156)
	5.800GHz (Channel 160)	5.800GHz (Channel 160)

Please note: Default Regional Code is China

## Trouble Shooting

Trouble	Reason	Solution
Packet Latency	1. Wireless interference 2. Distance is too long or there are some bar between them 3. CPE's angle in wrong direction, weak signal	1. Use Wi-Fi analysis to choose the best channel, or change to 5G CPE. 2. CPE should be in normal distance and avoid bar. 3. Adjust the angle of CPE according to signal strength.
Wrong password	1. Forget password 2. Input wrong password 3. Too much cookie	1. Press reset button in 10 seconds to reset device, the default password is admin. 2. Re-input the password. 3. Clear cookie-run app or clear MAC table.
Can not login WEB	1. Local IP is not in the same network segment of CPE 2. IP is taken by other devices 3. LAN Connection or Ethernet cable has problem 4. Too much cookie, MAC address haven't update	1. Ping 192.168.188.253 to see connection status of CPE. 2. Stop other devices or change to another IP. 3. Check LAN Connection and Ethernet cable. 4. Clear cookie-run app or clear MAC address.
System LED light off	1. POE power supply is not working 2. Some problem in CPE's POE port 3. Ethernet cable is loose, RJ45 port is wrong Power current/voltage lower or wrong	1. Check if POE Adapter or POE switch work. 2. Check if POE port of CPE is OK. 3. Check if Ethernet cable is loose if Ethernet cable plugged in to POE port. 4. Check if voltage is normal if socket has problem, if input voltage of POE adapter is normal.
Low transmission Rate	1. Packet Latency 2. Ethernet cable circuit 3. Network virus attack 4. Too much access users	1. Adjust the distance, angle and channel to decrease latency. 2. Check if there is circuit in the network. 3. Check if port isolated to avoid network virus and broadcast storm. 4. Decrease the access users.
Device always dead	1. Static electricity 2. Running time too long 3. Lightning stroke	1. Make CPE or POE adapter need ground connection. 2. Running time over 7 days, reboot it. 3. After lightning device POE port broken or unstable, better to deploy lightning conductor.

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#### FCC Warning Statement

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. 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.

#### RF Exposure Statement

To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum distance of 20 cm the radiator your body. This device and its antenna(s) must not be co-located or operation in conjunction with any other antenna or transmitter.