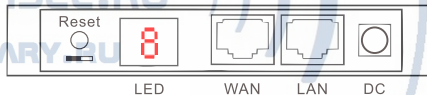


Outdoor CPE User Manual



**FOR PUBLIC
RELEASE**

V2020.06.18

This is the User Manual of Outdoor Bridge with Qualcomm Chipset, which will approximate guide you how to set and apply this product. It provide a convenient graphical interface for network construction and maintenance person, as well as a user through a simple and accurate operation.

Attention:

1. Check box contents:

Outdoor CPE
PoE Power adapter (for 24V Passive PoE switch)
LAN cable
User Manual
Installation Accessory

2.Warning:

- Do not use the same power source for the product as other equipment, Only use the power adapter that comes with the package. Using a different voltage rating power adapter may damage the device.
- Do not open or repair the case yourself. If the product is too hot, turn off the power immediately and have it repaired at a qualified service center.

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Contents

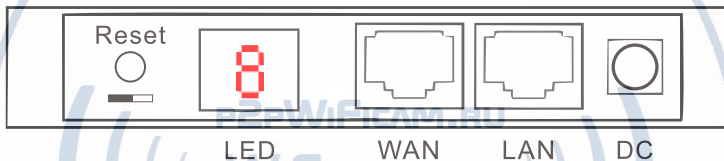
1. Introduction to hardware installation	1
2. Digital display bridge	3
3. LED signal light	4
4. WEB GUI Login	5
5. WEB GUI interface Setting	8

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Chapter 1: Introduction to hardware installation

CPE interface:



Reset: Short press to switch the digital display number (that is, press to release), long press to restore the factory settings.

LED frequency: display paired numbers, master and slave lights.

WAN port: connect to external network.

Toggle switch: switch the working mode, the left is AP mode, the light is off, the right is the client mode, the light is on.

LAN port: LAN network port, can connect LAN equipment.

DC: power interface.

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1.1 Installation flow chart

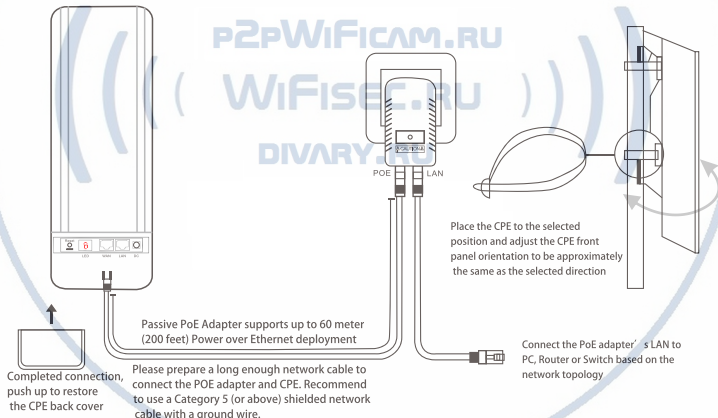
Hardware connection » Set up your computer » Login management interface » Set up your CPE » Test wireless » Erection and installation

1.2 Hardware installation

PoE Power Connection and Installation

There is a PoE adapter and Installation Accessory in the box, then pls install and power the outdoor CPE as following pictures:

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The POE network port of the POE power supply is connected to the WAN port of the outdoor CPE through a network cable, and the power supply is plugged into the socket to supply power to the CPE through the network cable. Note that the POE power supply needs to match the voltage and current supported by the CPE. Here the power supply supports 24V 0.5A/1A.

Chapter 2: Digital display bridge

1. The default digital display of the device is 0. Short press the Reset key to switch the digital display digits.
2. The default switch of the device is AP mode (left).
3. Toggle the two devices into AP mode (left) and client mode (right), the devices will automatically pair.
4. After the pairing is successful, the IP of the AP mode (left) is: 192.168.6.1, and the IP of the client mode (right) is issued by the AP, as shown in the following figure.

Advanced

Home Device Status Wireless Network Advanced Tools

LAN Setup VLAN Settings DHCP Server DHCP Client Current Mode: AP

ID	Host Name	IP Address	MAC Address	Lease Time
1	CPE2	192.168.6.137	04:C3:E6:65:CE:EA	23h 58m 7s

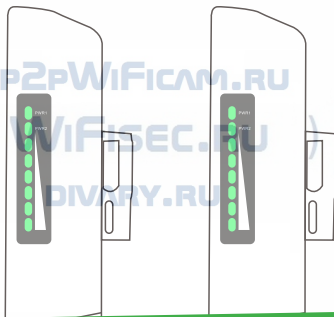
10 Data/Page 1 data in total

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Chapter 3: LED signal light

PWR1/PWR2: system light of the device. After the device starts normally, the system light is always on.

Signal light: After the device is successfully paired, the 6 signal strength lights are always on



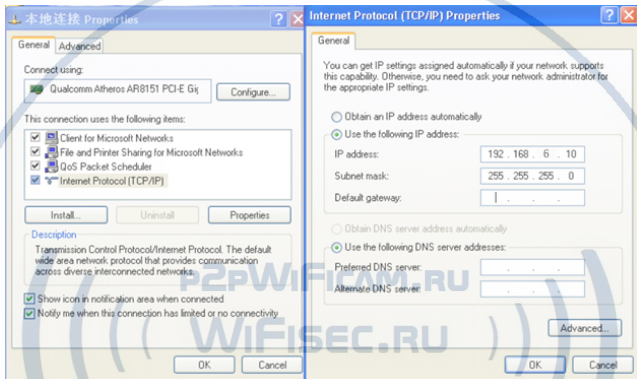
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Chapter 4: WEB GUI Login

- 1) Connect the Outdoor CPE with computer by wired or wireless
- 2) The default IP address of this outdoor CPE is 192.168.6.1, Configure the PC's local connection IP address as 192.168.6.X (X is number from 2 to 254), subnet mask is 255.255.255.0, follow P4 and P5 to finish.



P4 Setting of computer's IP address



P5 Setting of computer's IP address

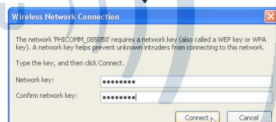
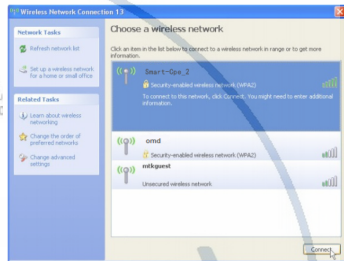
**FOR PUBLIC
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If you want to connect our CPE by wireless after IP address configuration, pls right click Wireless networking Connection, then View Available Wireless Networks, our CPE's default SSID is Smart-Cpe_X, passwords: 88888888, Click Refresh network list, double click the correct SSID and input the passwords, if have, then connect, pls refer to P6 and P7

LAN or High-Speed Internet



P6 CPE Wireless Connection



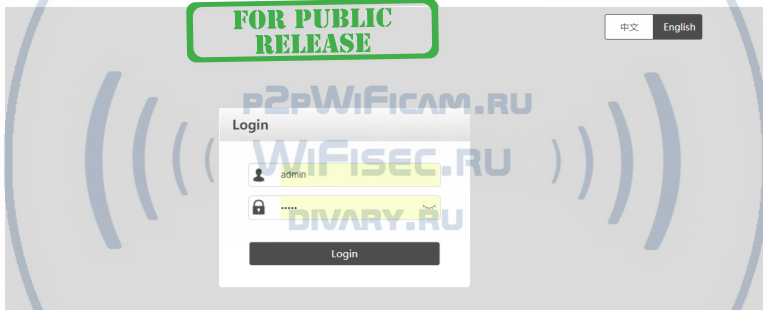
P7 CPE Wireless Connection

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Chapter 5 : WEB GUI interface Setting:

Log into the CPE system

CPE management page login default IP address: 192.168.6.1 account/password: admin



5. 1 User Login Page:

After Login in the user, then will pop up the CPE working mode picture showed as follow:

Select a working mode

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Router



Universal Repeater



WISP



AP



Repeater

P2PWIFICAM.RU

WIFISER.RU

In this page, show the AP's five working mode: Router, Universal Repeater, WISP, AP and Repeater.

1. Router Mode:router function, WAN port connection modem (ADSL cat or fiber cat) dial-up Internet or WAN port dynamic, static IP address mode.

2. Universal Repeater Mode:Enables wireless repeater and forwarding without matching with the upper device.

3. WISP Mode:Wireless WAN client wirelessly connects to the Operator's wireless base station for local LAN network sharing.

4. AP Mode:In this mode, NAT, DHCP, firewall and all WAN-related functions are turned off. All wireless interfaces and wired interfaces are bridged together, without distinguishing between LAN and WAN.

5. Repeater Mode: In this mode, it usually refers to the point to point situation. The wireless CPE at both ends of the bridge only communicates with the wireless CPE at the other end. The device can add the MAC address of the other party by scanning the available network, and the encryption mode of both devices must be consistent.

Please confirm the operation mode first before configuration starting.

5.1.1 Router Mode:

Before Click Router mode, confirm your internet will be static IP, PPPoE, or DHCP:



Router

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Quick Setup Advanced Logout

WIFISEC.RU

Internet Connection Type DHCP (Dynamic IP) Static IP Address PPPoE

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Please choose the right WAN setting mode, then click next to continue.

Router Quick Setup Advanced Logout

SSID

Channel

Security Mode

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WIFISEC.RU

Router Quick Setup Advanced Logout

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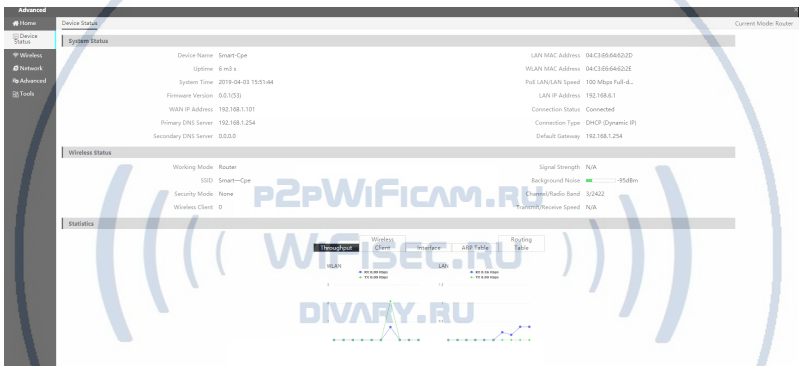
When click Next, then will complete the Router mode setting and show following picture:

The device is set to Router, click "Save" to apply the settings.

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Complete the setting in Router Mode

When in Advanced setting, you can check Device Status, will show wireless router's SSID, internet connection, LAN connection status showed as follow:



Status in Router

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5.1.2 Universal Repeater mode

A. Login the Web management page, click "Universal Repeater"

B. Select the AP's SSID want to bridge, take "Smart-AP" for example, Select "Smart AP" as Upstream AP, then click Next.



Scan [Scan again](#)

Upstream AP

Select	SSID	Channel	MAC Address	Security Mode	Signal Strength
<input type="radio"/>	ChinaNet-7bfa	10	14:57:9F:67:EE:4C	Mixed WPA/WPA2-PSK_	
<input type="radio"/>	Airtel-Hotspot-50...	7	C0:F4:66:45:01:3	WPA2-PSK,AES	
<input checked="" type="radio"/>	Smart-AP	2	00:11:33:45:54:14	WPA2-PSK,AES	

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Input the AP' s key, click next.

Universal Repeater

Quick Setup Advanced Logout

Upstream AP Smart-Ap

Upstream AP MAC Address 00:11:33:45:54:14

Channel 2(2417)

Security Mode WPA2-PSK

Encryption Algorithm AES TKIP TKIP&AES

Key

Previous Next

P2PWIFICAM.RU
WIFISEC.RU
DIVARY.RU

Set the IP address to an unused IP address. Click Next.

Universal Repeater

Quick Setup Advanced Logout

Set the IP address to an unused IP address belonging to the network segment of upstream AP.

IP Address 192.168.6.1

Subnet Mask 255.255.255.0

Previous Next

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Click Save to complete setting.

Universal Repeater

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The device is set to Universal Repeater, click "Save" to apply the settings.

Previous Save

After the system is rebooting, login with new IP address, enter Device Status in Advanced Setting, show Universal Repeater mode data, show fail or success, and user can configure this data in this page if required.

Advanced

Home Device Status System Status Wireless Network Advanced Tools

Device Status

System Status

Device Name	Smart-Cpe	LAN MAC Address	04-C3-E6-64-62-0D
Uptime	12 m24 s	WAN MAC Address	04-C3-E6-64-62-0E
System Time	2019-04-03 17:37:21	PoE LAN/LAN Speed	100 Mbps Full-d...
Firmware Version	0.0.1(53)	LAN IP Address	192.168.6.11

Wireless Status

Working Mode	Universal Repeater	Signal Strength	48dBm
SSID	Smart-AP	Background Noise	-117dBm
Security Mode	WPA2-PSK	Channel/Radio Band	2/2417
Wireless Client	0	Transmit/Receive Speed	78Mbps/11Mbps

Statistics

Throughput

Upstream AP Interface ARP Table Routing Table

P29 Status in Repeater Mode

5.1.3 WISP Operation mode:

Click WISP operation mode in Quick Setup, then will pop up the configure page, pls set the WISP operation mode based on the steps showed in picture:
take "Smart-AP" for example, Select "Smart AP" as Upstream AP, then click Next.

The screenshot shows the WISP configuration page. At the top, there is a navigation bar with 'Quick Setup', 'Advanced', and 'Logout' options. Below this, a green box contains the text 'FOR PUBLIC RELEASE'. The main area features a 'Scan' button with a toggle switch and a 'Scan again' link. An 'Upstream AP' dropdown menu is set to 'Smart-Ap'. Below this is a table of available APs:

Select	SSID	Channel	MAC Address	Security Mode	Signal Strength
<input type="radio"/>	ChinaNet-7bfA	10	14:57:9F:67:EE:4C	Mixed WPA/WPA2-PSK...	
<input checked="" type="radio"/>	Smart-Ap	2	00:11:33:45:54:14	WPA2-PSK,AES	

Below the table, the text 'Input the AP's key, click next.' is displayed. At the bottom of the screenshot, there is another navigation bar with 'Quick Setup', 'Advanced', and 'Logout' options.

This screenshot shows the configuration page for the selected 'Smart-Ap'. The 'Upstream AP' is set to 'Smart-Ap'. The 'Upstream AP MAC Address' is '00:11:33:45:54:14'. The 'Channel' is set to '2(2417)'. The 'Security Mode' is set to 'WPA2-PSK'. The 'Encryption Algorithm' is set to 'AES'. The 'Key' field is empty and masked with asterisks. At the bottom, there are 'Previous' and 'Next' buttons.

Configure the right WAN setting in WISP operation mode, click Next.
Remark: When click WAN Setting, will pop up following picture to ask you choose PPPoE, DHCP or Static IP

WISP

FOR PUBLIC RELEASE

Quick Setup Advanced Logout

Internet Connection Type DHCP (Dynamic IP) Static IP Address PPPoE

Previous Next

P2PWIFICAM.RU
WAN setting in WISP mode
WIFISEC.RU

Input SSID and Key, then Next.

WISP

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Quick Setup Advanced Logout

SSID(WiFi Name) Smart CPE

Channel 2(2417)

Security Mode WPA2-PSK

Encryption Algorithm AES TKIP TKIP&AES

Key

Previous Next

Set the IP address to an unused IP address. Click Next.

WISP Quick Setup Advanced Logout

Specify the device with an IP address whose network segment is different from that of IP address of ISP access point or upstream AP.

IP Address

Subnet Mask

FOR PUBLIC RELEASE

After the system is rebooting, login with new IP address, enter Device Status in Advanced Setting will show the connection fail or success, then can configure the data based on request:

Advanced Current Mode: WISP

- Home
- Device Status
- Wireless
- Network
- Advanced
- Tools

System Status

Device Name	Smart-Cpe	LAN MAC Address	04C3-E6-64-622D
Uptime	2 m 1 s	WLAN MAC Address	04C3-E6-64-622E
System Time	2019-04-03 18:37:17	PoE LAN/LAN Speed	100 Mbps Full-d.
Firmware Version	0.0.1(53)	LAN IP Address	192.168.6.1
WLAN IP Address	192.168.8.143	Connection Status	Connected
Primary DNS Server	192.168.8.1	Connection Type	DHCP (Dynamic IP)
Secondary DNS Server		Default Gateway	192.168.8.1

Wireless Status

Working Mode	WISP	Signal Strength	— -53dBm
SSID	Smart AP	Background Noise	— -118dBm
Security Mode	WPA2-PSK	Channel/Radio Band	2/2417
Wireless Client	0	Transmit/Receive Speed	108Mbps/11Mbps

Statistics

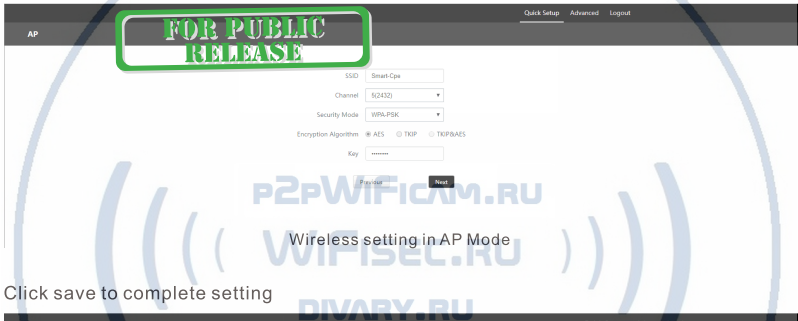
Throughput Upstream Interface ARP Table Routing Table

WLAN	LAN
↑ 100.000 Mbps	↑ 100.000 Mbps
↓ 0.000 Mbps	↓ 0.000 Mbps

Status in WISP mode

5.1.4 AP Operation mode:

Set SSID, Channel, Key as required, then click next.

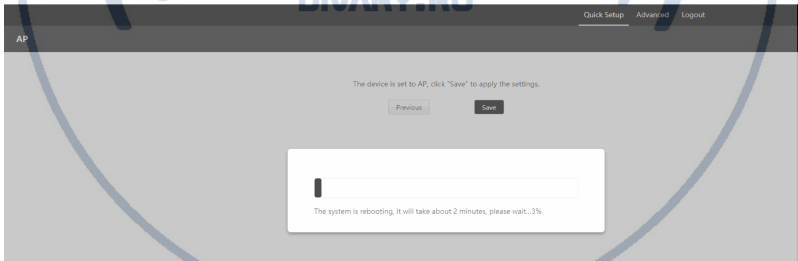


The screenshot shows the 'AP' configuration page. At the top right, there are links for 'Quick Setup', 'Advanced', and 'Logout'. The main configuration area includes:

- SSID: Smart-Cpe
- Channel: 5(2432)
- Security Mode: WPA-PSK
- Encryption Algorithm: AES TKIP TKIP/AES
- Key: [Redacted]

Buttons for 'Previous' and 'Next' are visible below the key field. A large watermark 'FOR PUBLIC RELEASE' is overlaid on the top left, and a large watermark 'P2PWIFICAM.RU WIFISEC.RU DIVARY.RU' is overlaid in the center. The text 'Wireless setting in AP Mode' is also present in the center.

Click save to complete setting



The screenshot shows the 'AP' configuration page after clicking 'Save'. At the top right, there are links for 'Quick Setup', 'Advanced', and 'Logout'. The main content area displays:

The device is set to AP, click "Save" to apply the settings.

Buttons for 'Previous' and 'Save' are visible. Below them is a progress bar and a message: 'The system is rebooting, it will take about 2 minutes, please wait...3%'.

Complete the AP mode configuration and enter to Device Status:

The screenshot shows the Mikrotik WinBox interface with the 'Device Status' window open. The 'Current Mode' is 'AP'. The 'System Status' section displays the following information:

Device Name	Smart-Cpe	LAN MAC Address	04C3:E5:64:62:2D
Uptime	13 m14 s	WLAN MAC Address	04C3:E5:64:62:2E
System Time	2019-04-03 19:02:43	PoE LAN/LAN Speed	100 Mbps Full-d...
Firmware Version	0.0.1(53)	LAN IP Address	192.168.6.1

The 'Wireless Status' section displays the following information:

Working Mode	AP	Signal Strength	N/A
SSID	Smart-Cpe	Background Noise	-95dBm
Security Mode	None	Channel/Radio Band	8/2447
Wireless Client	0	Transmit/Receive Speed	N/A

The 'Statistics' section shows a graph with tabs for Throughput, Wireless Client, Interface, ARP Table, and Routing Table. The graph displays data for WLAN and LAN interfaces.

Status in AP Mode

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5.1.5 Repeater mode:

Click Repeater mode in Quick settings, will pop up following picture:
Scan and select the slave AP, max can banding with 4PCS slave wireless AP, click next.

The screenshot shows the 'Repeater' configuration page with the 'Quick Setup' tab selected. At the top right are links for 'Quick Setup', 'Advanced', and 'Logout'. The page title is 'Repeater'. Below the title, there is a 'Scan' section with a radio button set to 'Scan again'. Underneath, there are four input fields for 'Peer AP1' through 'Peer AP4', each with a placeholder text 'Select an SSID or enter a MAC address'. Below these fields is a table with the following columns: 'Select', 'SSID', 'Channel', 'MAC Address', 'Security Mode', and 'Signal Strength'. The table contains one entry for 'SmartAP-2E58' on channel '6' with MAC address '04:C3:E6:64:2E:5A' and 'None' security. At the bottom of the table are 'Previous' and 'Next' buttons.

Select	SSID	Channel	MAC Address	Security Mode	Signal Strength
<input type="checkbox"/>	SmartAP-2E58	6	04:C3:E6:64:2E:5A	None	

Make the master AP work in best channel, click Next.

The screenshot shows the 'Repeater' configuration page with the 'Quick Setup' tab selected. At the top right are links for 'Quick Setup', 'Advanced', and 'Logout'. The page title is 'Repeater'. Below the title, there is a 'Peer AP1' section with the text 'SmartAP-2E58'. Underneath, there is a 'MAC Address of Peer AP1' field with the value '04:C3:E6:64:2E:5A'. Below that are two dropdown menus: 'Channel' with the value '6(2437)' and 'Security Mode' with the value 'None'. At the bottom are 'Previous' and 'Next' buttons.

Peer AP1 SmartAP-2E58
MAC Address of Peer AP1 04:C3:E6:64:2E:5A
Channel 6(2437)
Security Mode None

Set the IP address, then Next.

Quick Setup Advanced Logout

Repeater

Set the IP address to an unused IP address belonging to the network segment of peer AP.

IP Address

Subnet Mask

Previous

Next

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Save to complete setting.

Quick Setup Advanced Logout

Repeater **DIVARY.RU**

The device is set to Repeater, click "Save" to apply the settings.

Previous

Save

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After the system is rebooting, login with new IP address, enter Device Status in Advanced Setting will show the connection fail or success, then can configure the data based on request:



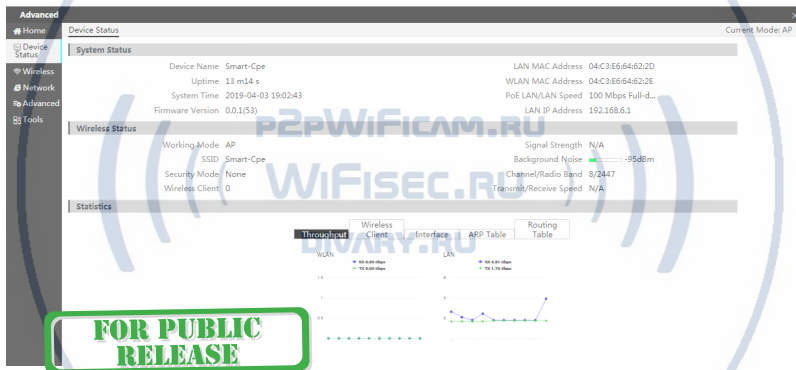
5.2 Advanced Setting:

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In advanced setting, mainly for outdoor CPE's device status, wireless setting, Networking setting and management configuration. Let's shown more in Device Status, Wireless, Network and Management in following pages:

5.2.1 Device Status

After login, the home page displays the current device status information of the system, such as IP address, working mode, connection status, channel, throughput, terminal information.... Let the management determine the operation of the CPE through the status information.

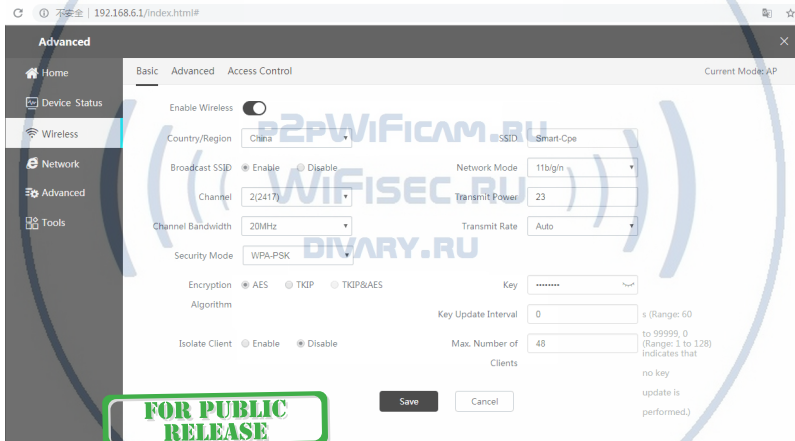


Device Status

5.2.2 Wireless:

Basic Settings: This interface can modify the CPE country code, channel, SSID, power, encryption and other wireless information.

Channel: between adjacent devices, the channels will interfere with each other and different channels need to be used.



The screenshot displays a web browser window with the URL `192.168.6.1/index.html#`. The page title is "Advanced" and the current mode is "AP". The interface is divided into a sidebar and a main content area. The sidebar includes links for Home, Device Status, Wireless (highlighted), Network, Advanced, and Tools. The main content area is titled "Basic" and contains the following settings:

- Enable Wireless:**
- Country/Region:** China
- Broadcast SSID:** Enable Disable
- Channel:** 2(2417)
- Channel Bandwidth:** 20MHz
- Security Mode:** WPA-PSK
- Encryption Algorithm:** AES TKIP TKIP&AES
- Isolate Client:** Enable Disable
- SSID:** Smart-Cpe
- Network Mode:** 11b/g/n
- Transmit Power:** 23
- Transmit Rate:** Auto
- Key:** [Redacted]
- Key Update Interval:** 0 s (Range: 60 to 9999, 0 indicates that no key update is performed.)
- Max. Number of Clients:** 48 (Range: 1 to 128)

At the bottom of the settings area, there are "Save" and "Cancel" buttons. A green box with the text "FOR PUBLIC RELEASE" is overlaid on the bottom left of the screenshot.

Basic Setting in Wireless

Advanced Setting:

WMM:WMM is a wireless QoS protocol used to ensure that high-priority packets have priority to send, thus ensuring better quality of service for voice and video applications in wireless networks. It is recommended to keep it open.

APSD:Automatic Power Save Delivery, Automatic power saving mode. It is the WMM power-saving authentication protocol of the Wi-Fi Alliance. After enabling WMM, turning on "APSD" can reduce the power consumption of the bridge. Disabled by default.

Preamble:It is a set of bits at the beginning of the packet, and the receiver can synchronize and prepare to receive the actual data. The default is a long preamble, which is compatible with some older client NICs on the network. If you want to make the network synchronization performance better, you can choose a short preamble.

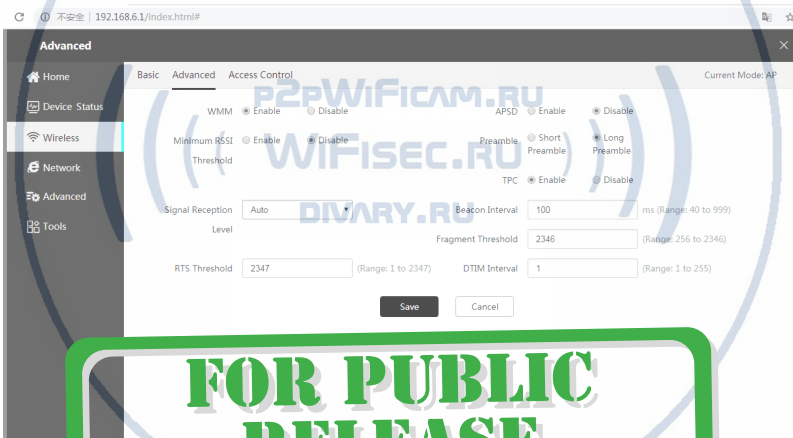
Signal Reception Level:Used to adjust the signal reception capability of the bridge. The higher the level, the stronger the signal reception capability of the bridge, and the more wireless signals are scanned.

Beacon Interval:Set the interval at which the bridge sends Beacon frames. Beacon frames are periodically sent at regular intervals to announce the presence of the wireless network. Generally speaking, the smaller the interval, the faster the wireless client accesses the bridge; the larger the interval, the higher the efficiency of wireless network data transmission.

Fragment Threshold:Set the fragment threshold of the frame.
The basic principle of sharding is to divide a large frame into smaller shards, each of which is transmitted and acknowledged independently. When the actual size of the frame exceeds the specified fragmentation threshold, the frame is fragmented.

In an environment with a high bit error rate, the fragmentation threshold can be appropriately lowered. Thus, if the transmission fails, only the unsuccessfully transmitted portion needs to be retransmitted, thereby increasing the throughput of the frame transmission.

In a non-interference environment, appropriately increasing the fragmentation threshold can reduce the number of acknowledgment frames to improve the throughput of frame transmission.



Access Control:

The black and white list function allows only one device to access, or only one device is prohibited from accessing.

Advanced [Close]

Home Device Status Wireless Network Advanced Tools

Basic Advanced Access Control Current Mode: AP

SSID Smart-Cpe

Access Control

Mode Disallow Allow

MAC Address [Input] [Add] [Add online devices]

SN	MAC Address	Status	Operation
----	-------------	--------	-----------

[Save] [Cancel]

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MAC Access Control

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5.2.3 Network:

In network, mainly to show the LAN setting, VLAN setting, DHCP Server and DHCP Client as follow:

In LAN Settings, mainly including static IP and DHCP.

The screenshot displays the 'Advanced' network configuration window. The 'LAN Setup' tab is active, showing the following fields and values:

Field	Value
MAC Address	04:C3:E6:64:62:2D
IP Address Type	Static IP Address
IP Address	192.168.6.1
Subnet Mask	255.255.255.0
Default Gateway	0.0.0.0
Primary DNS Server	0.0.0.0
Secondary DNS Server	0.0.0.0
Device Name	Smart-Ope

At the bottom of the form, there are 'Save' and 'Cancel' buttons. The interface also includes a sidebar with navigation options: Home, Device Status, Wireless, Network, Advanced, and Tools. The top right corner indicates 'Current Mode: AP'.

Network Setting

In VLAN part, need an VLAN switch and make sure the multi SSID is enable, then input the VLAN ID to different SSID.

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Advanced ✕

Home Device Status Wireless **Network** Advanced Tools

LAN Setup VLAN Settings DHCP Server DHCP Client Current Mode: AP

VLAN Settings

PVID (Range: 1 to 4094) Management VLAN (Range: 1 to 4094)

WLAN VLAN ID (Range: 1 to 4094) LAN VLAN ID (Range: 1 to 4094)

FOR PUBLIC RELEASE

Tag VLAN Setting

DHCP Server, Open DHCP and send the IP address to the terminal.

Advanced ✕

Home Device Status Wireless **Network** Advanced Tools

LAN Setup VLAN Settings DHCP Server DHCP Client Current Mode: AP

DHCP Server

Start IP Address End IP Address

Subnet Mask Gateway Address

Primary DNS Server Secondary DNS

Lease Time

DHCP Client, CPE wireless bridging mode, connecting the the device to the peer CPE, MAC address, IP address, etc.

ID	Host Name	IP Address	MAC Address	Lease Time
1	CPE2	192.168.6.121	04:C3:E6:64:63:1D	23h 59m 0s

5.2.4 Advanced:

In this part, show the LAN rate, Diagnose and Network Service.
LAN rate: WAN port and LAN port, 10M/100M full-duplex and half-duplex rate optional, default auto-negotiation

PoE/LAN Speed: Auto Negotiation

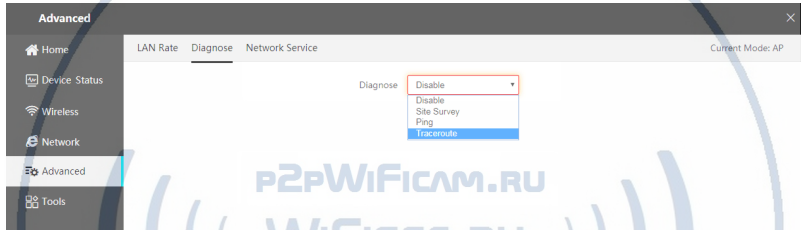
LAN Speed: Auto Negotiation

Save Cancel

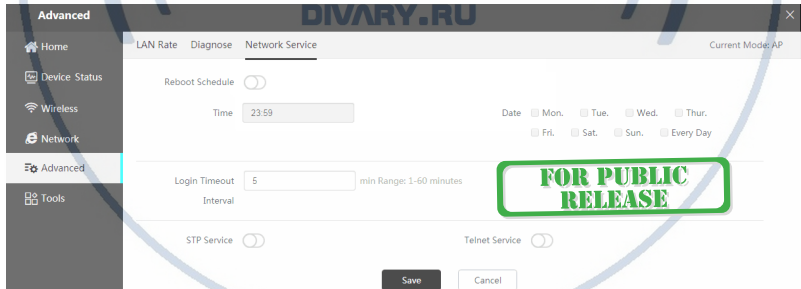
**FOR PUBLIC
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In Diagnose, Site Survey: scan the surrounding WIFI signals to check the signal strength

Ping: IP address ping packet test, you can select the number of ping packets and bytes to verify the transmission effect.



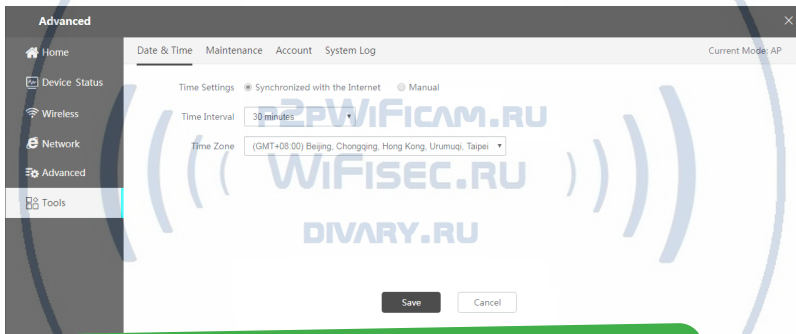
Network Service: Can set the device to reboot regularly, clear the cache.



5.2.5 Tools:

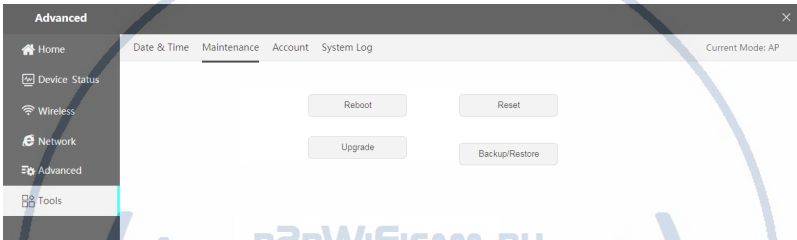
In this part, show the system time, Logs, upgrade firmware, system, user info. And we show System time, how to upgrade firmware and system page to users:

In Date & Time, can set time through Network timing and manual calibration, and time zone selection.

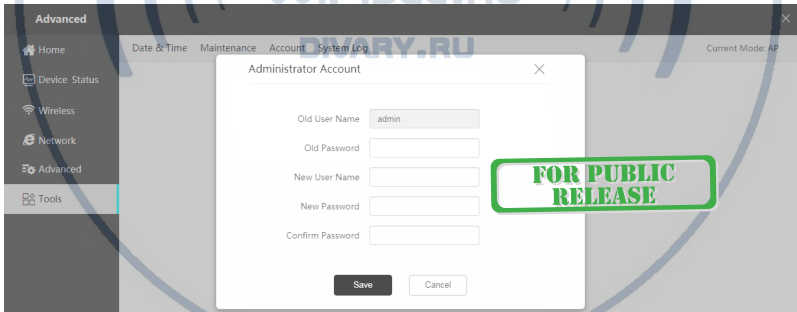


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In Maintenance page, you can choose to Reboot, Reset, Upgrade, Backup/Restore.



Account: user can change the login password based on their needs:



System Log : to show the outdoor CPE's operation logs, useful for problem solved.

Advanced

Home Device Status Wireless Network Advanced Tools

Date & Time Maintenance Account System Log Current Mode: AP

Refresh Clear

ID	Time	Log
1	2019-04-04 17:16:31	web 192.168.6.3 login
2	2019-04-04 17:16:25	web 192.168.6.3 logout

10 Datas/Page 2 data in total

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