

User Manual



This is the user manual of 300Mbps Ceiling AP, which will approximate guide you how to set and apply the Ceiling AP, it provide a convenient graphical interface for network construction and maintenance person, as well as a user through a simple and accurate operation, and configuration management of the ceiling wireless access point.

Attention:

1. Check box contents:

Ceiling Wireless AP

Power adapter

LAN cable

User Manual

Setting Screws

2. Warning:



Attention

- Do not use the product in high humidity or high temperatures.
- 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.
- Place the Product on a stable surface and avoid using this product and all accessories outdoors.

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1st Hardware and Operation mode Instruction

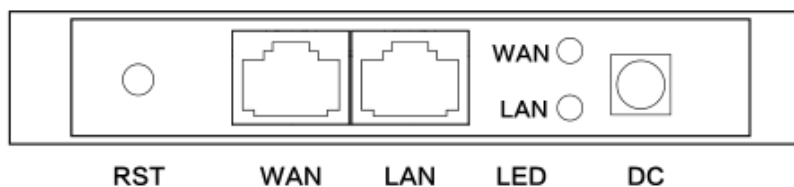


LED indicator:

Green: Power Indicator

Blue: WiFi Indicator

AP Interface:



RST: Reset Button, it make AP revert to default data after press it 15 seconds.

WAN: WAN Port, connect with ADSL modem or Internet mainly. It will be LAN port under Wireless AP and WiFi Repeater operation mode

LAN: LAN Port to end users

LED: LED Indicator of WAN port and LAN port

DC: DC power connector

Power Supply:

1. PoE Adapter Power Supply:

The connection diagram showed as P1, internet cable connect to PoE adapter's LAN Port, Ceiling AP's WAN port connect to PoE adapter's PoE Port, then PC will access into ceiling AP through cable or wireless

The PD wireless AP support 48V IEEE 802.3af standard PoE, so PoE adapter should be 48V PoE standard.



P1

2. PoE Switch Power Supply

The connection diagram shows as P2, Internet cable from PoE Switch to Ceiling AP's WAN Port, then PC access into ceiling AP wired/wireless.

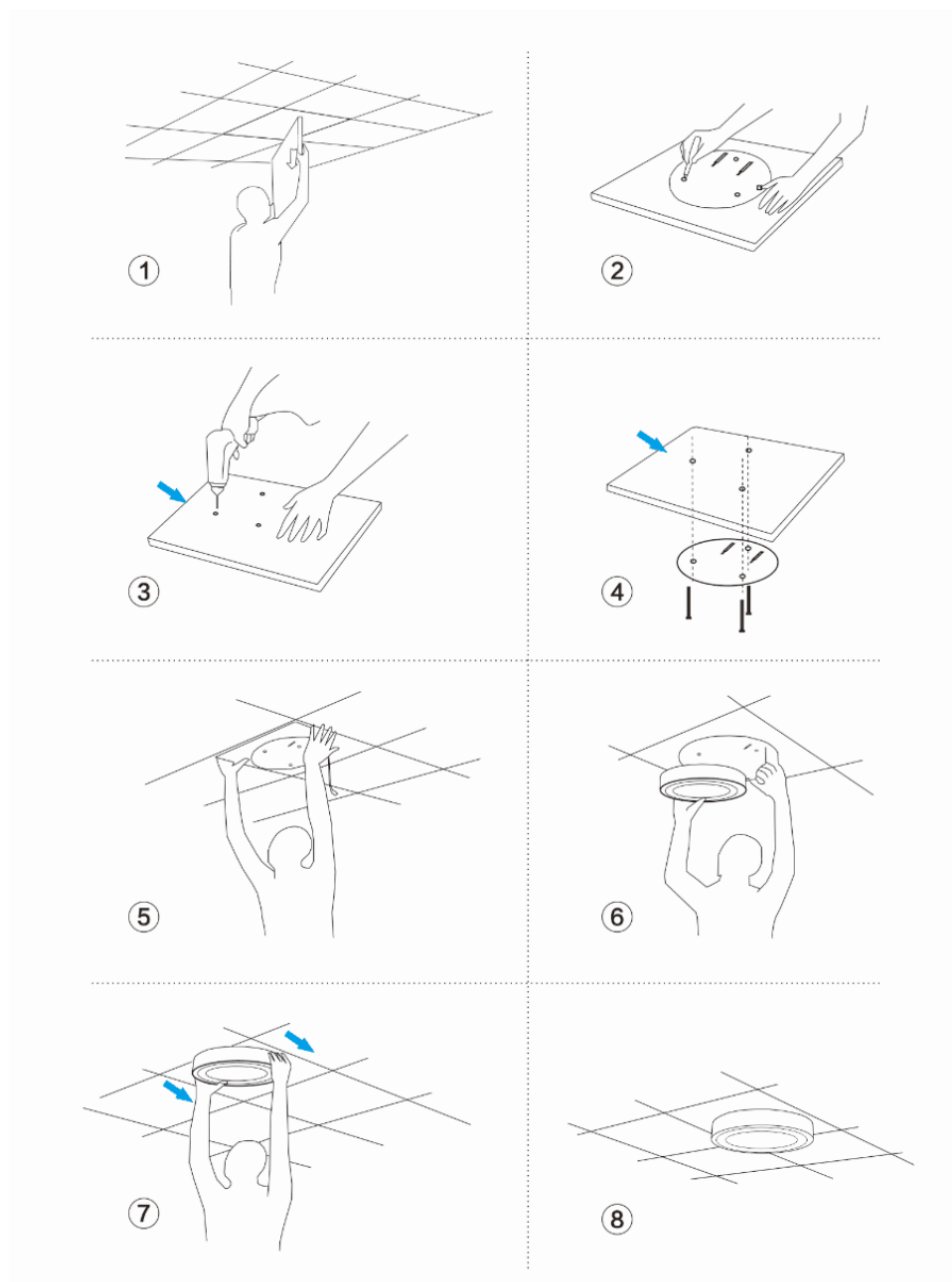
Pls note the PD wireless AP support 48V IEEE 802.3af standard PoE, the PoE switch should comply with 802.3af 48V PoE standard.



P2

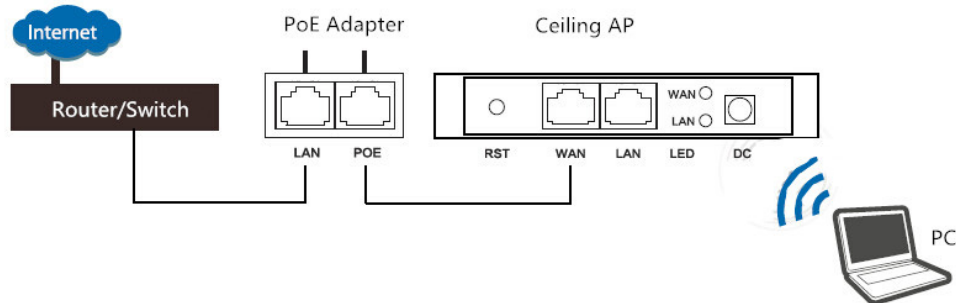
AP Installation:

For the Ceiling Wireless AP, will be installed under ceiling based on following steps:

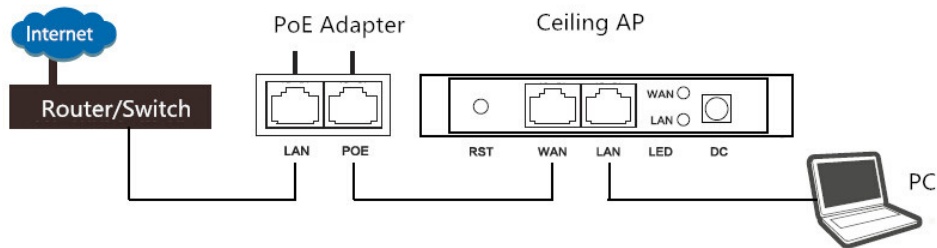


2nd: Connect Wireless AP with PC:

Use can connect the PC with wireless AP by Wireless SSID and LAN cable:
The diagram of wireless connection showed as follow:
Pls note: the default SSID is **Wireless 2.4G**, SSID's password is **66666666**



The diagram of LAN cable connection showed as follow:



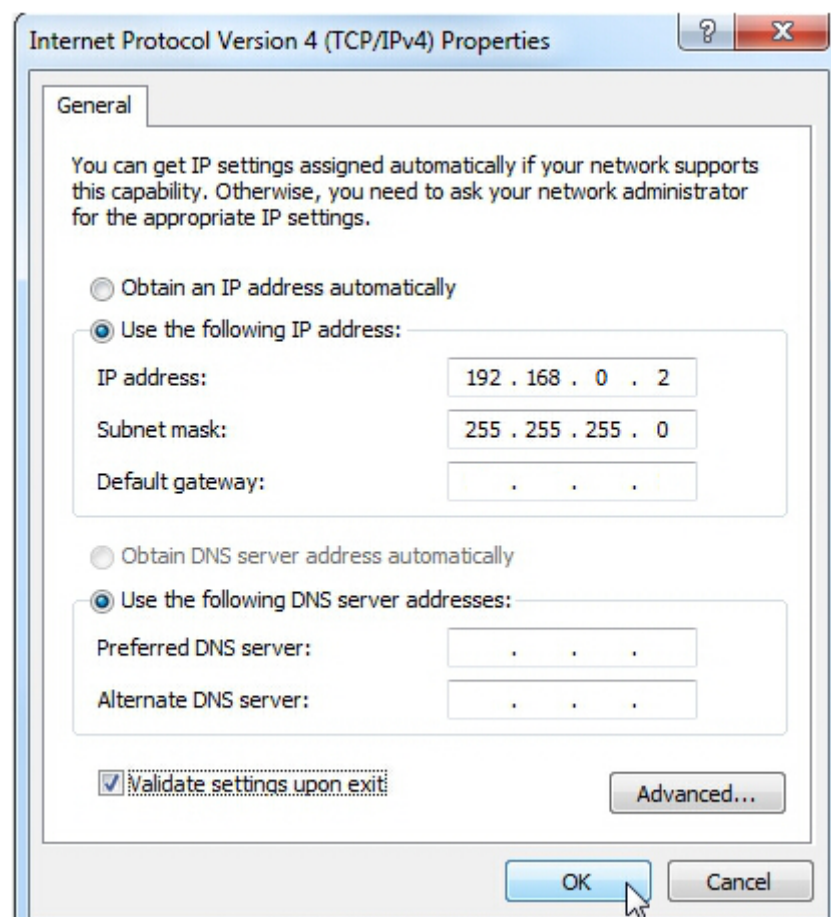
P3 Connection way

3rd: Login

- 1) Connect the Ceiling AP with computer by wired or wireless
- 2) The default IP address of this wireless AP is 192.168.188.253, Configure the PC's local connection IP address as 192.168.188.X (X is number from 2 to 254), subnet mask is 255.255.255.0, follow P4 and P5 to finish.

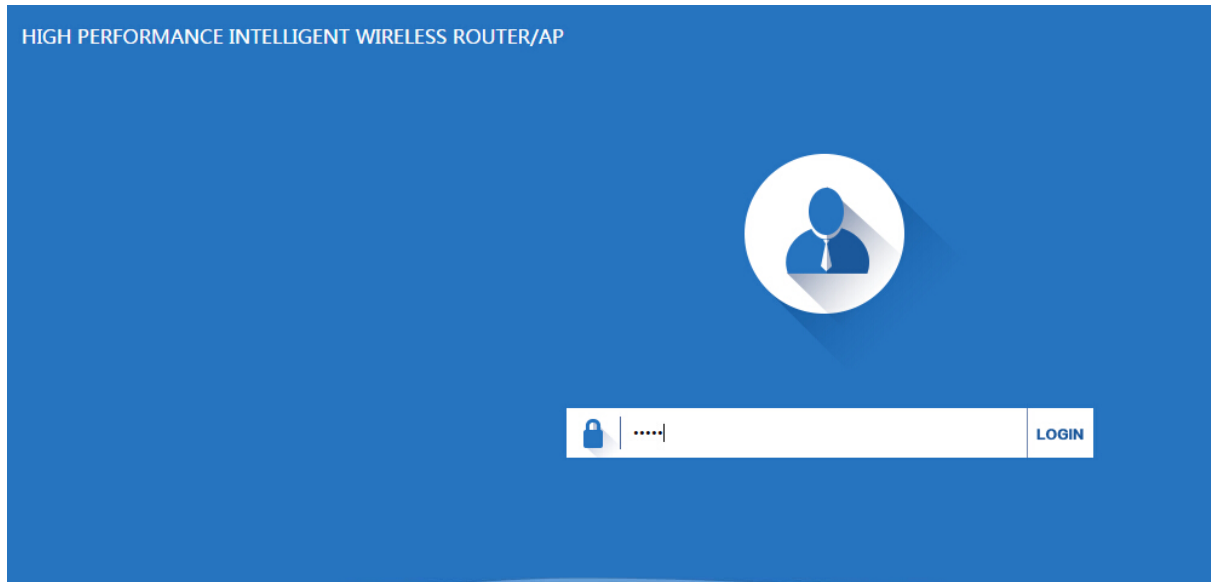


P4 Setting of computer's IP address



P 5 Setting of computer's IP address

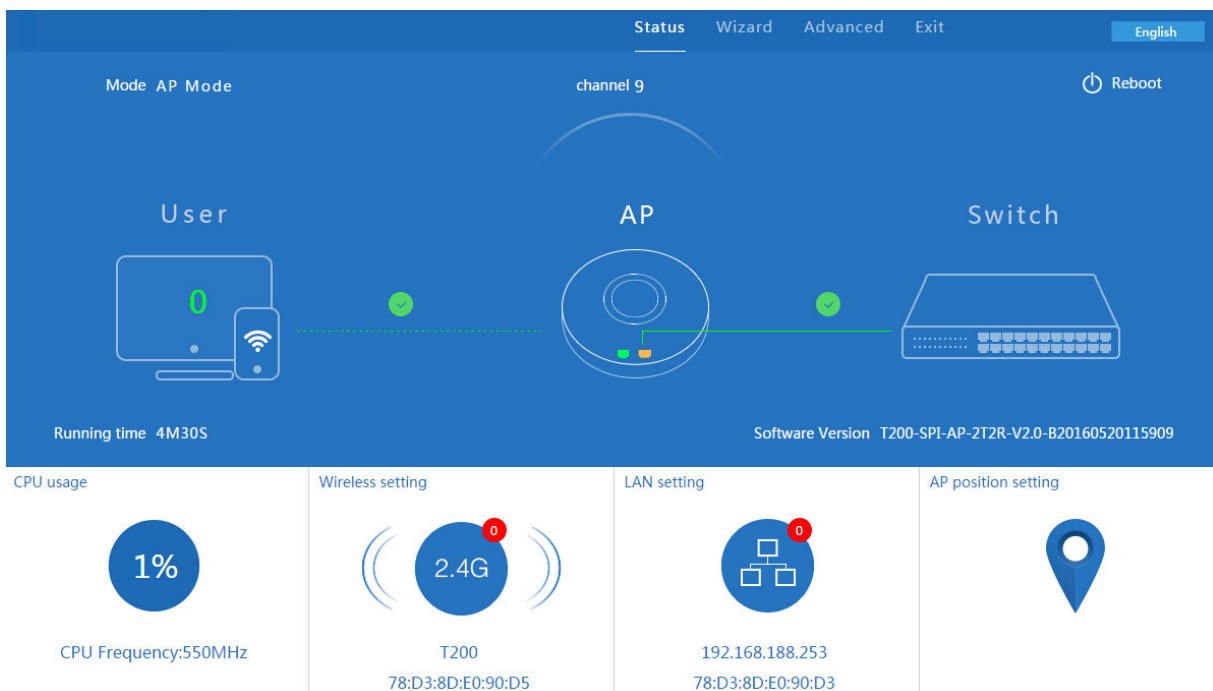
3) Input 192.168.0.254 into IE browser, then pop up the login page, the default login password: admin, then login,
pls do following P6



P6 Login

4) After login, then P7 Device Status will be showed;

This page will show the Wireless AP's default operation mode, channel, connection status, CPU usage, Wireless settings, LAN Setting, Wireless AP's Location, hardware/firmware version.

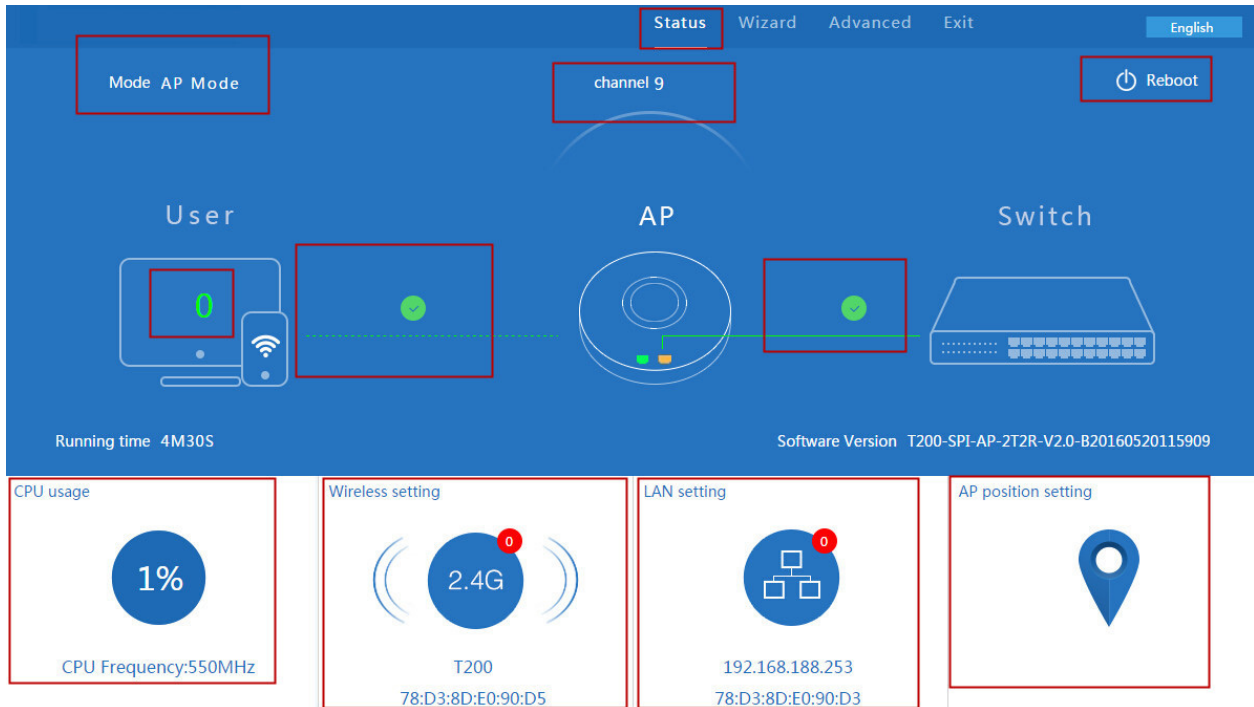


P7: Device Status

4th : WEB GUI interface Setting:

1) Status

After login, then P8 Device Status and home page will be showed:

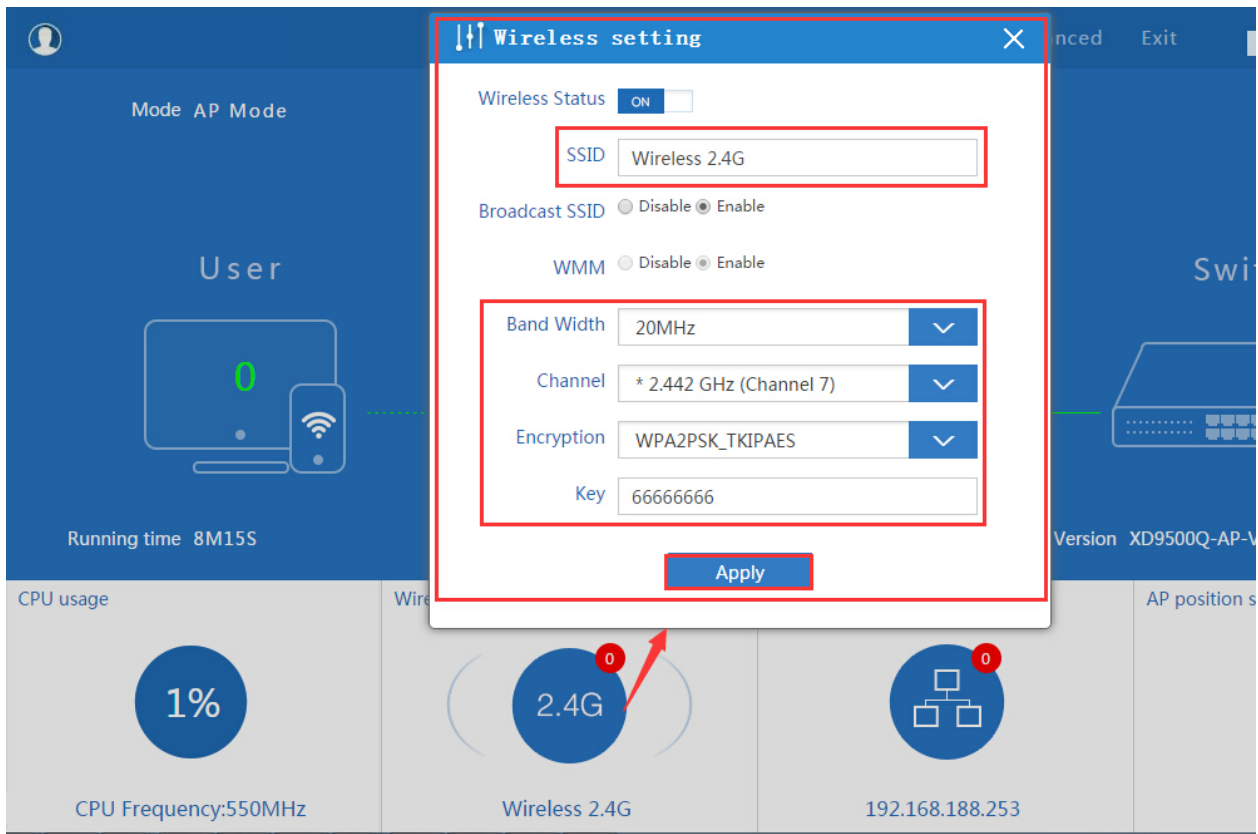


P8: Device Status

In this page, show the AP's default operation mode, channel, end user QTY, connection status, CPU usage status, Wireless, LAN and AP location info.

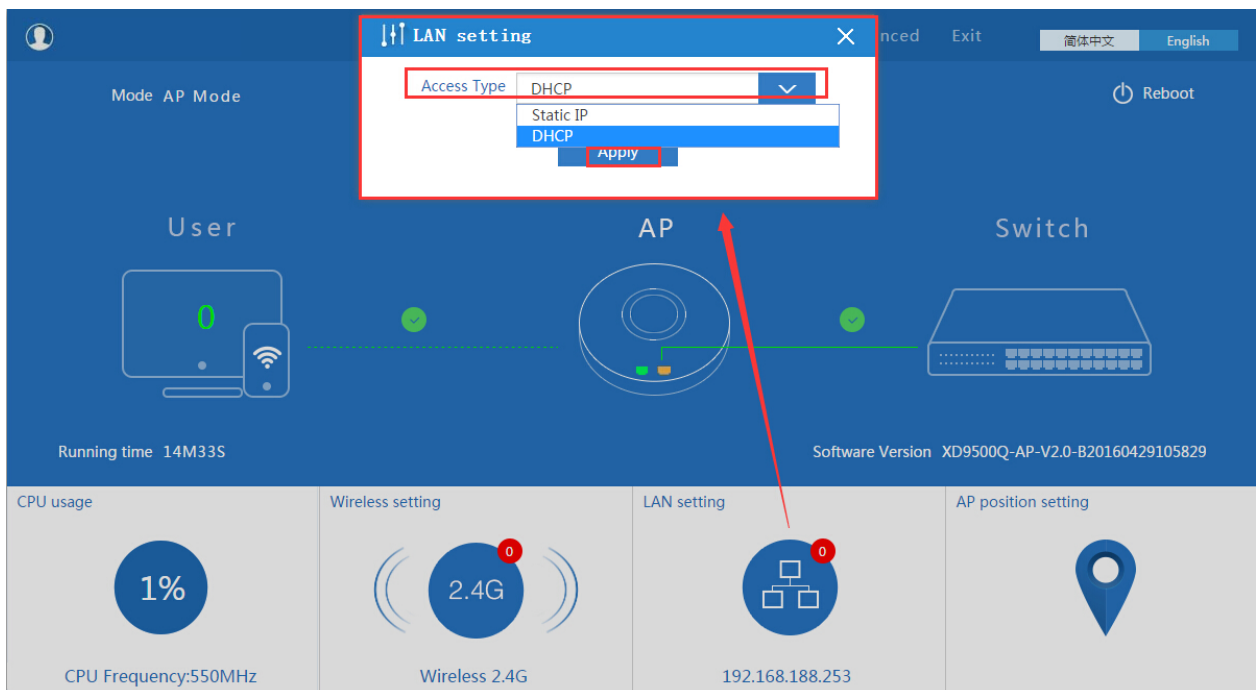
Then in Wireless Setting, GUI configuration page showed as below:

User can configure the SSID, password, band width, channel here, then Apply to finish.



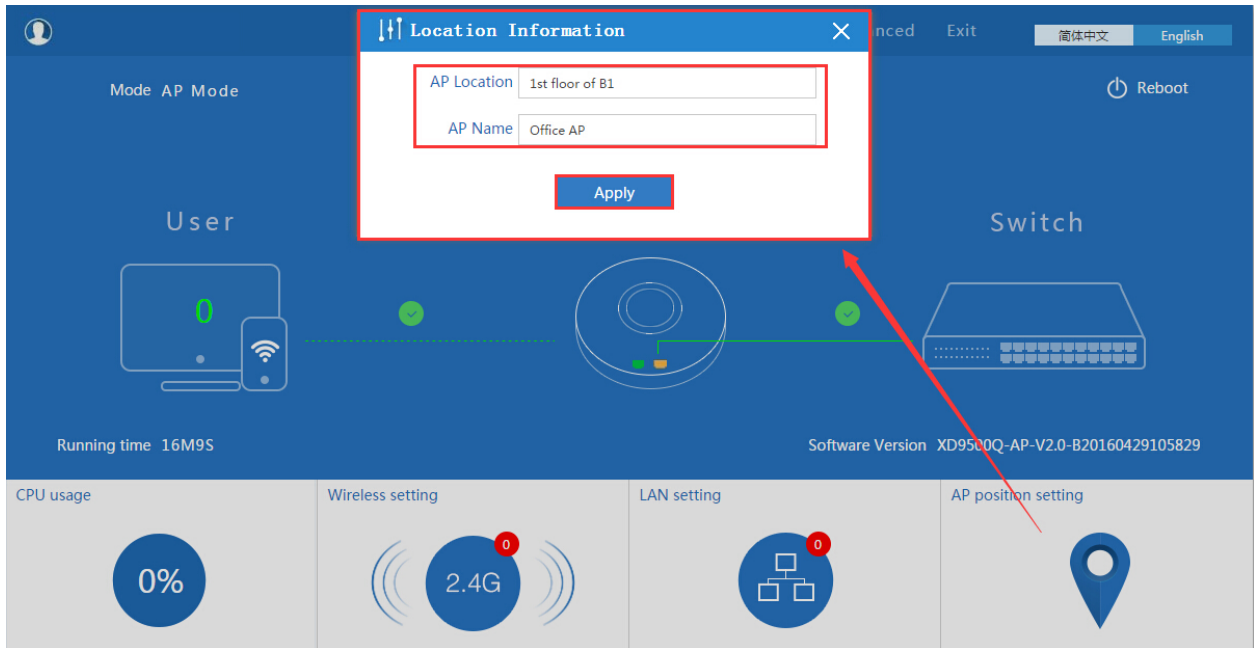
P9. Wireless setting

LAN Setting to configure the DHCP or Fix IP



P10 LAN Setting

AP location setting: can mark where the AP set up, and AP name as P11:

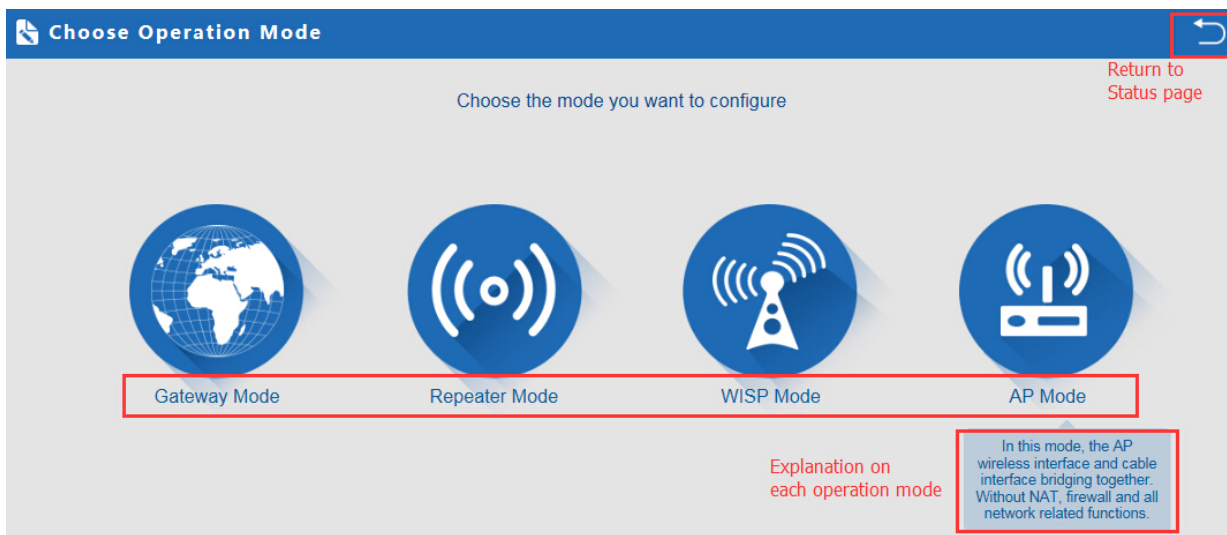


P11 AP Postion setting

2) Wizard Configuration:

Wizard: It instruct users to configure wireless AP's operation mode based on needs: there are four operation mode including gateway, repeater, WISP, Wireless AP. Please confirm the operation mode first before configuration starting.

Click Wizard in Status page, will pop up following page to configure the operation mode and there are explanation for each operation mode for better application.



P12 Operation mode

1. Gateway Mode:

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

Then will pop up following picture after click it, Please choose the right WAN setting mode, then click next to continue.

The screenshot shows the 'Gateway Mode' configuration interface. At the top, there's a blue header with a back arrow. Below it, a progress bar indicates three steps: 'First: WAN Settings' (highlighted with a red box and labeled '1st'), 'Second: Wireless', and 'Third: Complete'. Under the 'First: WAN Settings' step, three options are listed: 'Static IP', 'PPPOE(ADSL)', and 'DHCP' (highlighted with a red box and labeled '2nd'). A message box states: 'The current access mode is DHCP, Please click next to configure.' At the bottom, there are 'Back' and 'Next' buttons (the 'Next' button is highlighted with a red box and labeled '3rd').

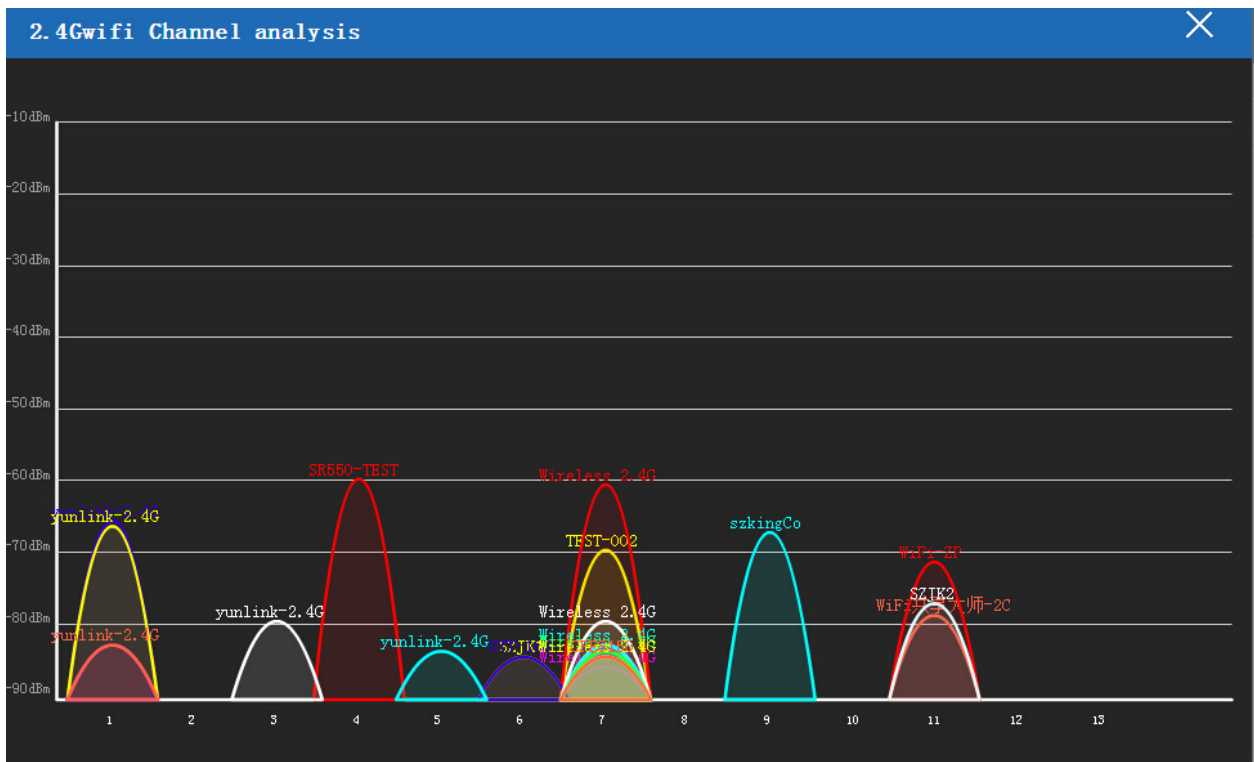
P13. WAN setting in Gateway Mode

The screenshot shows the 'Gateway Mode' configuration interface for wireless settings. The progress bar now shows 'First: WAN Settings', 'Second: Wireless' (highlighted with a red box), and 'Third: Complete'. Under the 'Second: Wireless' step, the 'Wireless Settings' section is visible. It includes a 'WLAN Status' toggle set to 'ON' (highlighted with a red box) and a 'wireless analyzer' button (also highlighted with a red box). Below these, there are fields for 'SSID' (Wireless 2.4G), 'Channel' (* 2.442 GHz (Channel 7) with a dropdown arrow), 'Encryption' (WPA2PSK_TKIPAES with a dropdown arrow), and 'Key' (66666666). At the bottom, there are 'Back' and 'Next' buttons (the 'Next' button is highlighted with a red box).

P14 Wireless Setting in Gateway Mode

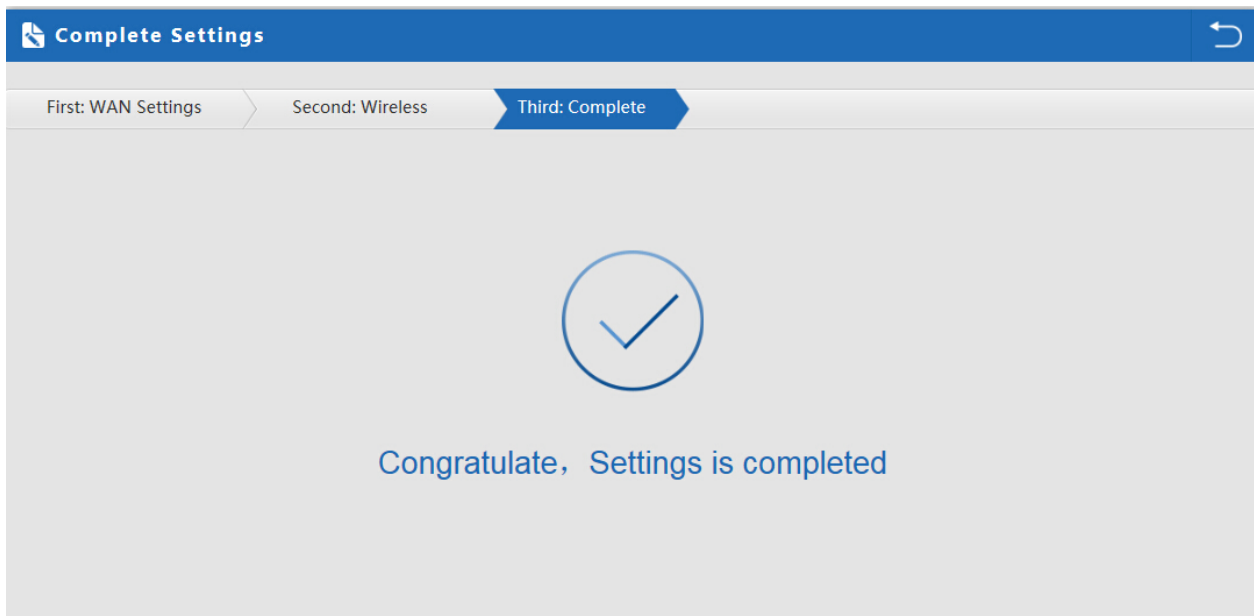
Please not: to make the AP in some clear channel, user can click wireless analyzer at first. Less AP in the channel,

then Wireless performance will be more stable. Picture showed as below:



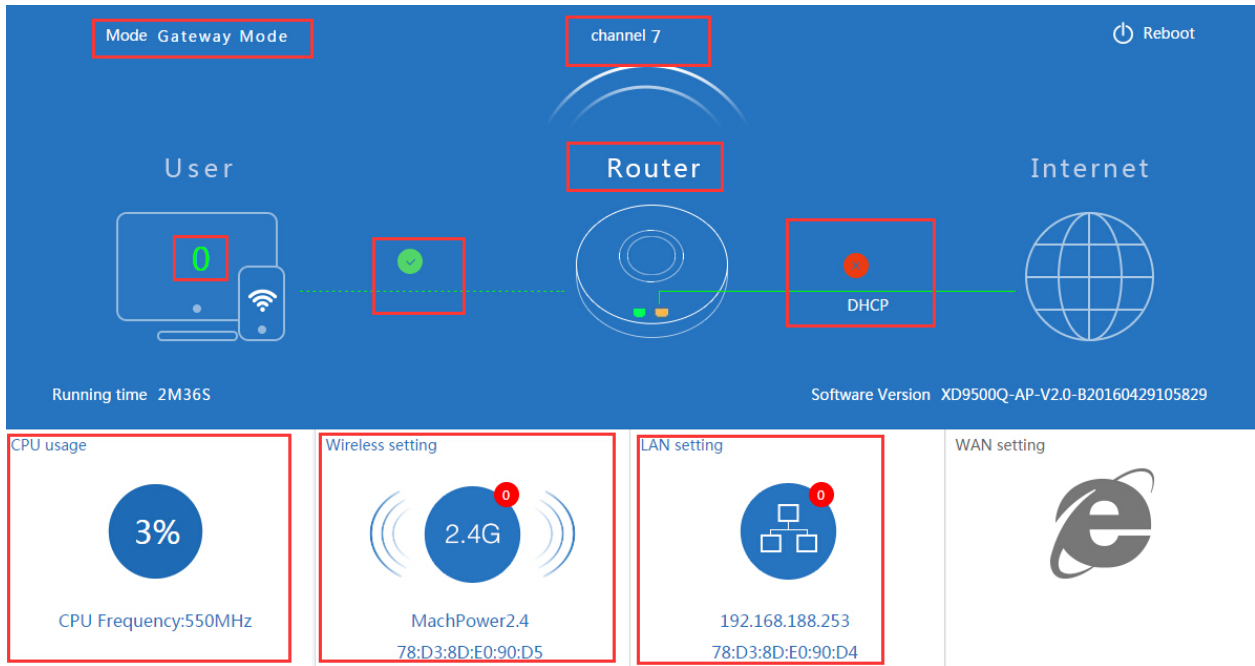
P15 Channel Analysis

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



P16 Complete the setting in Gateway Mode

When return to Status, will show wireless router's SSID, internet connection, LAN connection status showed as follow:



P17 Status in Gateway Mode

2. WiFi Repeater mode

A. Login the Web management page, click “Wizard”, then “WiFi Repeater”

B. Select the AP's SSID want to bridge, take “wireless 2.4G” for example, then input the AP's key, click next to complete

Repeater Mode

First: Repeater Second: Complete

Wireless Repeater

Repeater SSID Wireless 2.4G Scan AP

Authentication WPA2PSK_TKIPAES

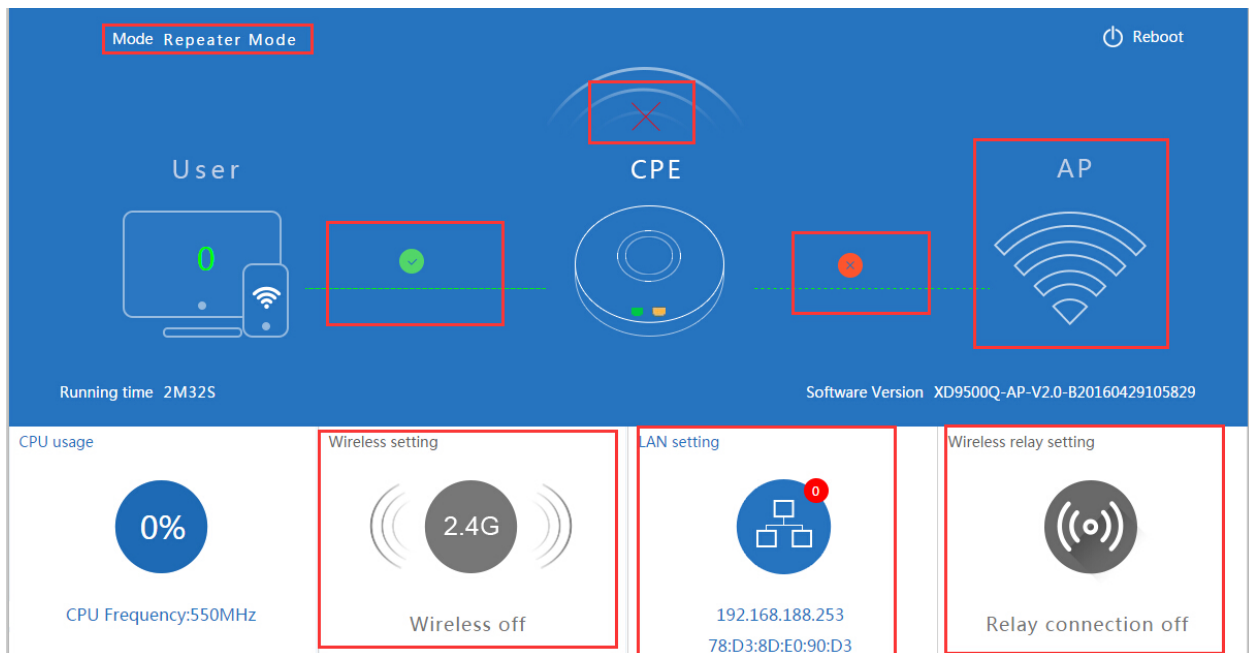
Key 66666666

Band Width 20MHz

Back Next

P18 Repeater Mode

Click Return button, will back to Status, show Repeater mode data, show fail or success, and user can configure this data in this page if required.



P19 Status in Repeater Mode

In wifi repeater operation mode, the default is SSID disable. If want to enable SSID, then click Wireless Setting.

Pls note, when click wireless relay setting, following page will pop up, you can make change from here easy:

P20 Wireless Relay Setting

3. WISP Operation mode:

Click WISP operation mode in Wizard, then will pop up the configure page, pls set the WISP operation mode based on the steps showed in picture:

WISP Mode

First: Repeater Second: WAN Third: Complete

Wireless Repeater

Repeater SSID: Scan AP

Authentication: ▼

Key:

Back Next

P21 WISP Mode

Configure the right WAN setting in WISP operation mode, then next to complete

WISP Mode

First: Repeater **Second: WAN** Third: Complete

Static IP PPPOE(ADSL) DHCP

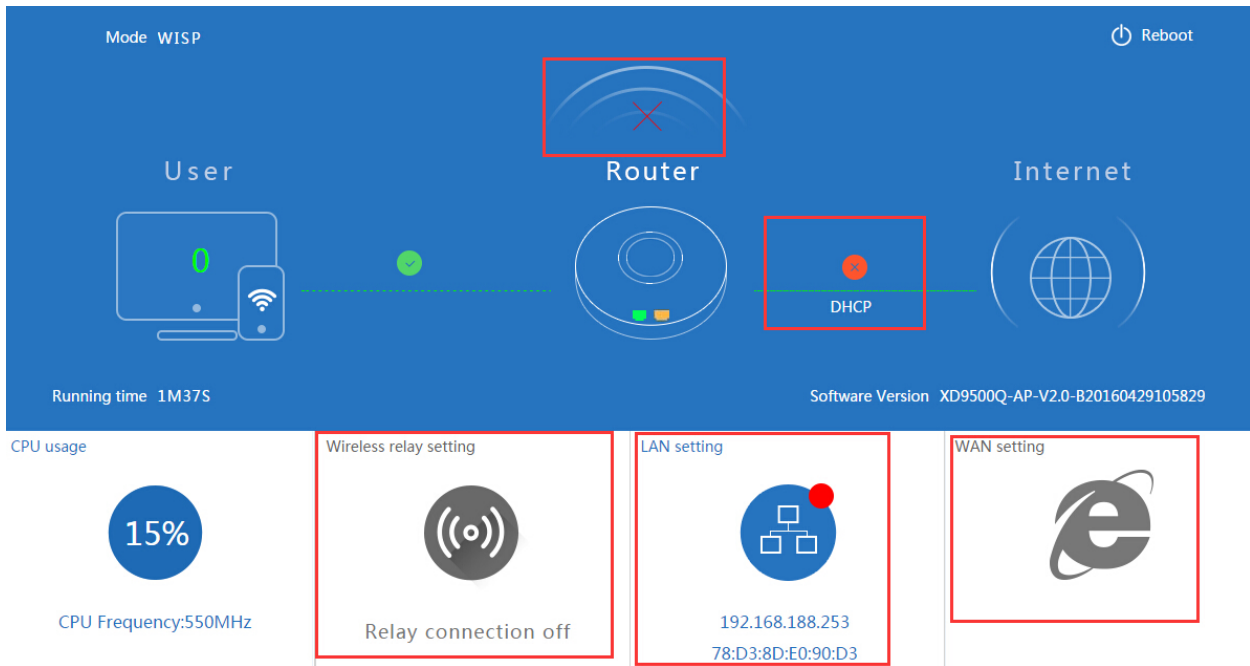
IP Address: Subnet Mask:

Default Gateway: Primary DNS:

Back Next

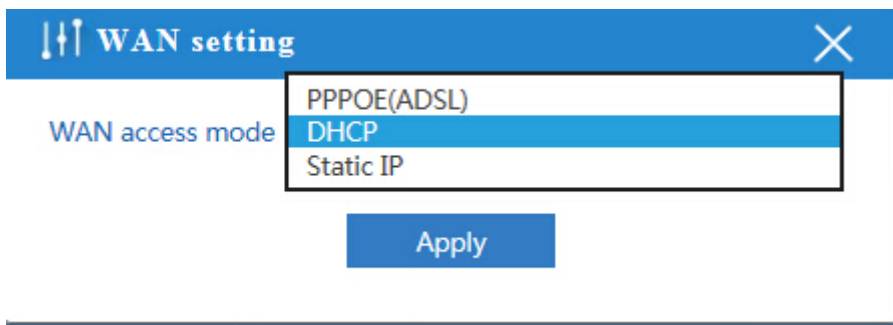
P22 WAN setting in WISP mode

Then complete and back to status, will show the connection fail or success, then can configure the data based on request:



P23 Status in WISP mode

Remark: When click WAN Setting, will pop up following picture to ask you choose PPPoE, DHCP or Static IP



P24 WAN setting in WISP mode

4. AP Operation mode:

Set the wireless data, AP Location info as required, then click next to continue and enter into LAN setting.

After LAN setting, complete the AP mode configuration and back to Status:

AP Mode

←

First: Wireless

Second : LAN

Third:Complete

Wireless Settings

Wireless Settings

WLAN Status

ON

wireless analyzer

SSID

MachPower2.4

Channel

* 2.442 GHz (Channel 7)

▼

Encryption

WPA2PSK_TKIPAES

▼

Key

12345678

Location Information

AP Location

Meeting Room

AP Name

5th AP in office

Back

Next

AP Mode

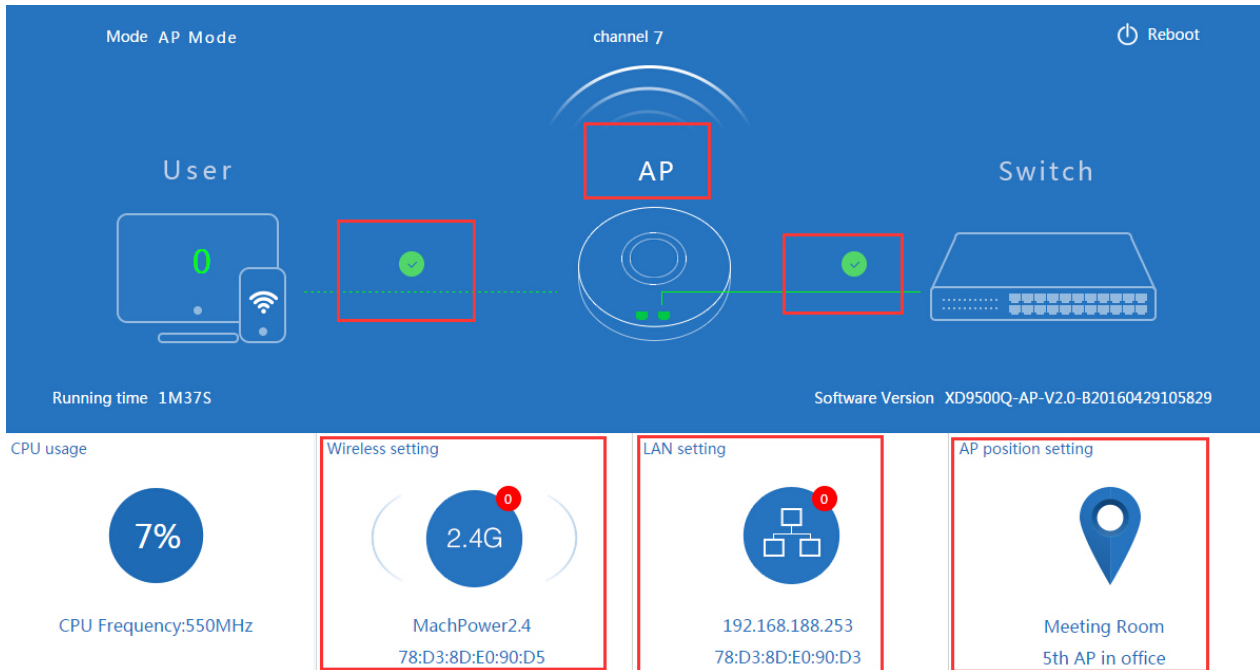
First: Wireless **Second : LAN** Third:Complete

LAN setting

Access Type

Static IP
DHCP

Back **Next**



P27 Status in AP Mode

3) Advanced Setting:

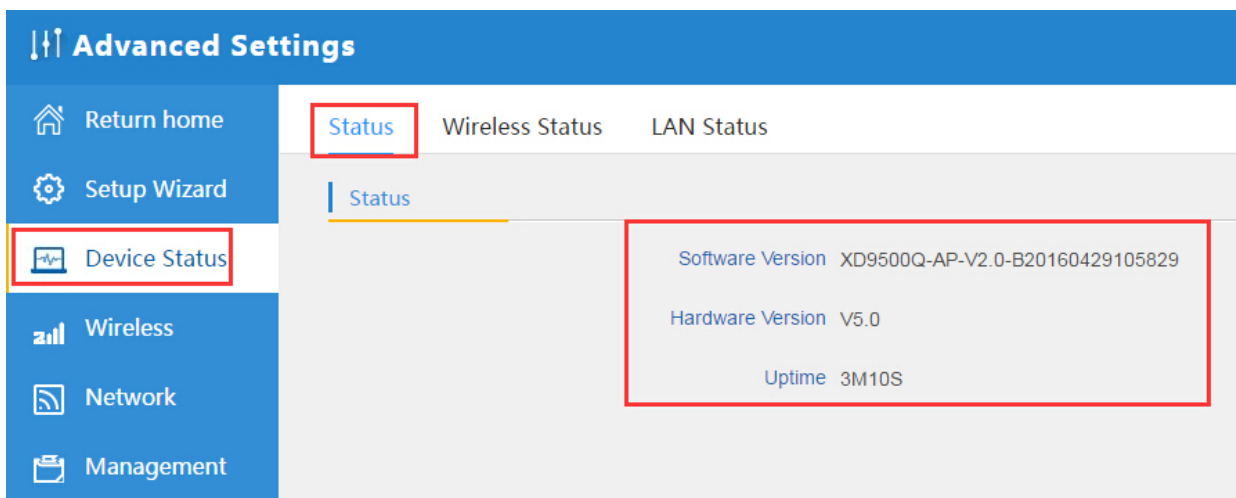
In advanced setting, mainly for wireless AP's device status, wireless setting, Networking setting and AP management configure.

Let's Click Advanced Setting in status page, will show return home, Setup Wizard which we showed before.

Let's shown more in Device Status, Wireless, Network and Management in following pages:

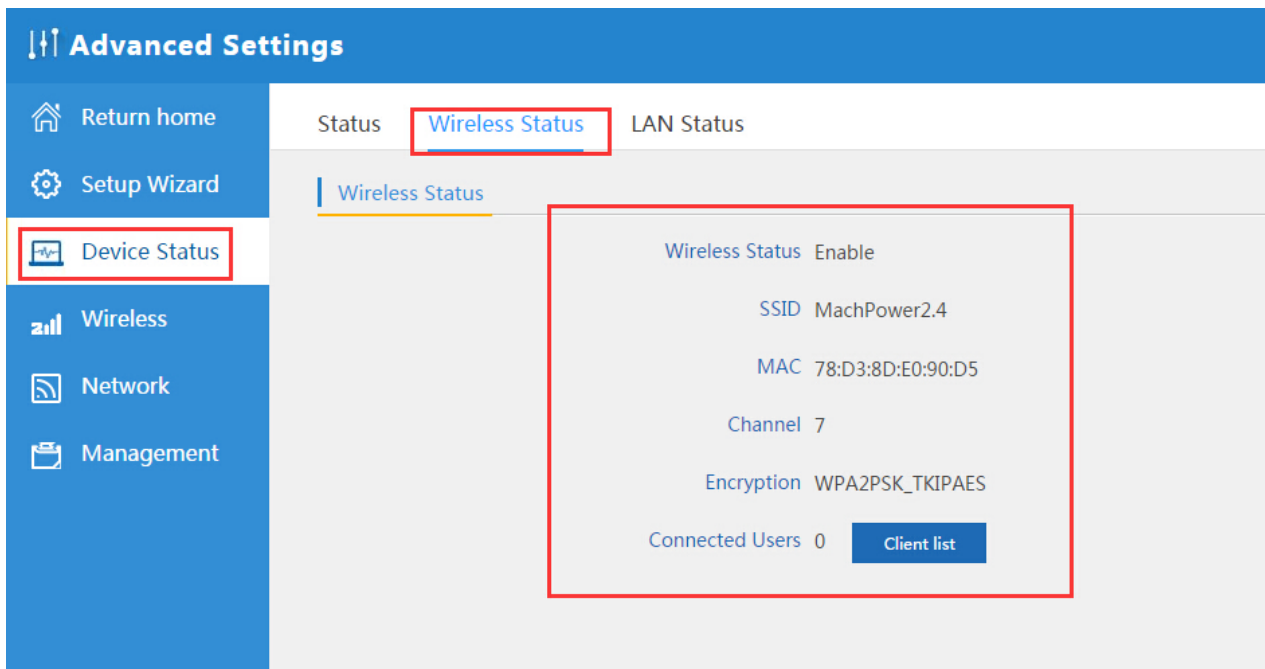
Device Status: to show the Wireless AP's status, Wireless Status and LAN status.

In status, mainly to check the ceiling wireless AP's firmware version, hardware version, uptime info.:



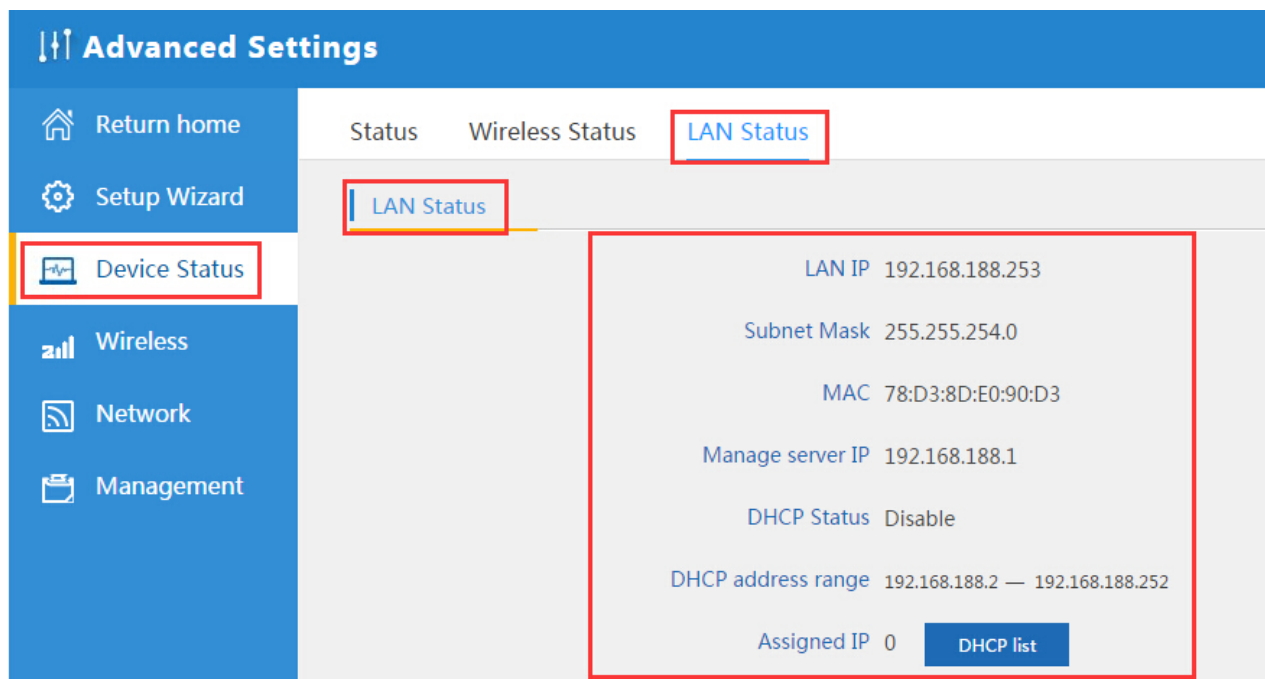
P28 Device Status

In wireless status, to show wireless AP's SSID, MAC address for WiFi, Channel, Encryption, Client List info.



P29 Wireless Status

In LAN Status, we can check wireless AP's IP address, Subnet Mask, LAN MAC address and other info showed in following picture.



P30 LAN Status

Wireless:

For wireless, mainly to configure the wireless SSID, password, encryption, channel, Multi SSID, tag VLAN, RF power adjust from Basic Setting, Virtual AP, Access control and Advanced Setting: