WAB-5010

N300 5GHz Outdoor PoE Wireless Access Point, Controller Managed

User's Manual

V1.0_20170628

Content

This is the manual of outdoor CPE, which will approximate guide you how to set and apply the outdoor CPE, 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 CPE.

1 Preparation for Configuration

1.1 Power supply and Connection

Instruction of different ports

P1   CPE Port Connection

Please use a power supply of 12V DC adapter or 48V POE adapter, WAN / LAN port is the PoE Port.

⚠️ Pay Attention	Pls make sure the CPE's power supply is normal in reset process, or the CPE will be damaged and can't reboot

Powered by POE

The connection way of CPE, PoE and PC: POE port should connect with the WAN/POE Port of the CPE. Please make sure the device is under AP mode. You can press Reset Button to make it to default settings.

P2   Connection diagram of CPE and PoE

Powered by DC

When the CPE powered by DC, please connect the LAN port with PC.

⚠️ Pay Attention	Incorrect Connection or the use power adapter and PoE adapter not from our factory, the CPE will be damaged

Reset Button

Press the Reset Button on CPE more than 15 seconds, then release, the device will reboot and restore to factory settings
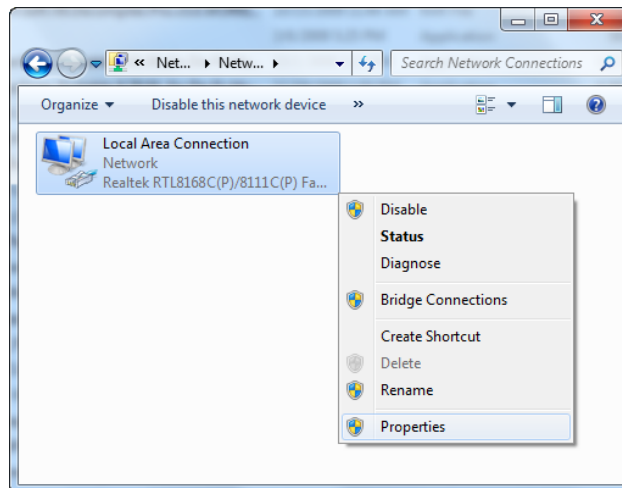
Software Reset

CPE Manage page: Click "Management", then "Save/Reload Settings", then click "Reset Settings" to finish the CPE Reset
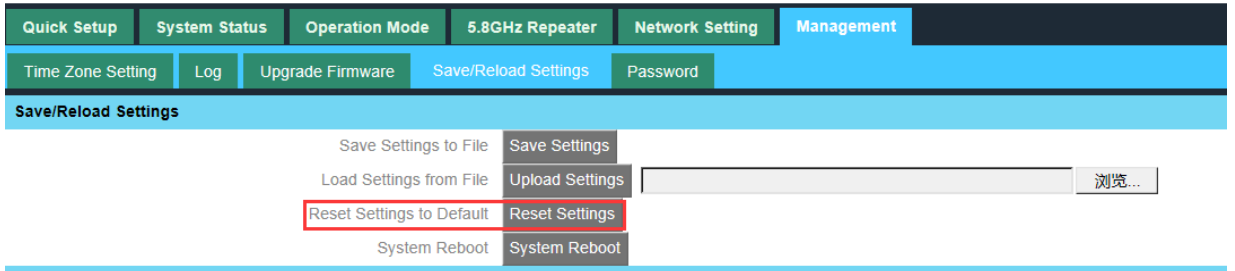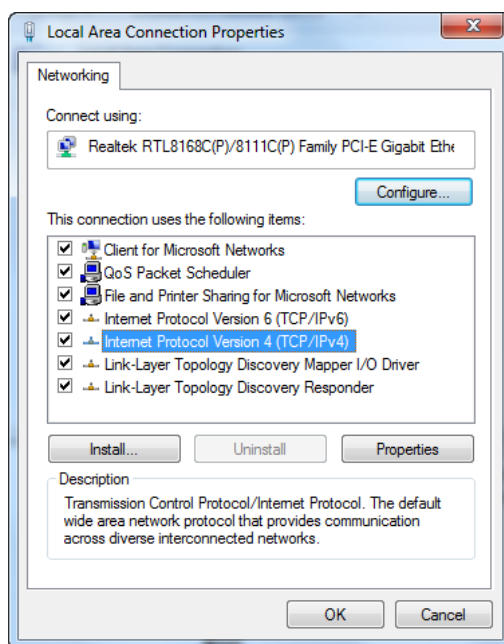

1.2 Log in

A. Connect the CPE with computer as P2 picture

B. Configure the PC's local connection IP address as 192.168.188.X (X is any number but 253), subnet mask is 255.255.255.0, follow P3 and P4 to finish.
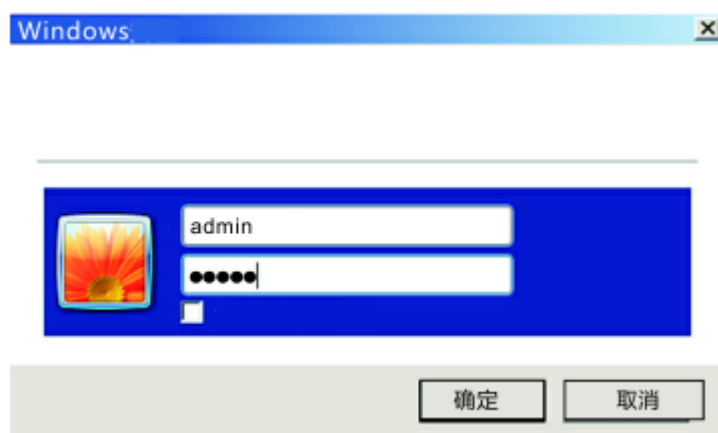

P3   Setting of computer's IP address

P4 Setting of computer's IP address

C. Input 192.168.188.253 into IE browser, then pop up the Log in page, the default Log in user name: admin,

Passwords: admin, pls do as following P5

P5 Log in

D. After login, you can see the current status of the CPE: The current Operation Mode, WLAN Status

Quick Setup

- Device Status
- Gateway Mode
- Repeater Mode
- IP Camera
- AP Mode
- WISP
- WDS Bridge
- Advanced Settings

CPU Frequency:535MHz
System Memory:512 M
CPU Usage:22%

Memory Usage:20%

Operation Mode:AP Mode

LAN Interface Setup

IP Address	192.168.188.253
MAC Address	78:D3:8D:E9:F6:38

Location Information

AP Location	
AP Name	

WLAN Status

WLAN Status	Enabled
SSID	WirelessAP
Encryption	WPA2PSK-AES
Channel Number	149

P6: Device Status

4

2 Quick Configuration

There are six operation modes showed on this page: Gateway mode, Repeater Mode, IP Camera Mode, AP Mode, WISP Mode and WDS Mode.

2.1 Gateway Mode

Click "Gateway Mode" under following picture and choose the right WAN access type: Dynamic IP or PPPOE. If choose PPPOE you have to fill in the User Name and Pass Word the ISP provides.

Input the SSID, Key (password of the SSID), Authentication (Encryption Type) and Channel as you wish. Intelligent Analysis will help you to choose the best channel according to the current environment.
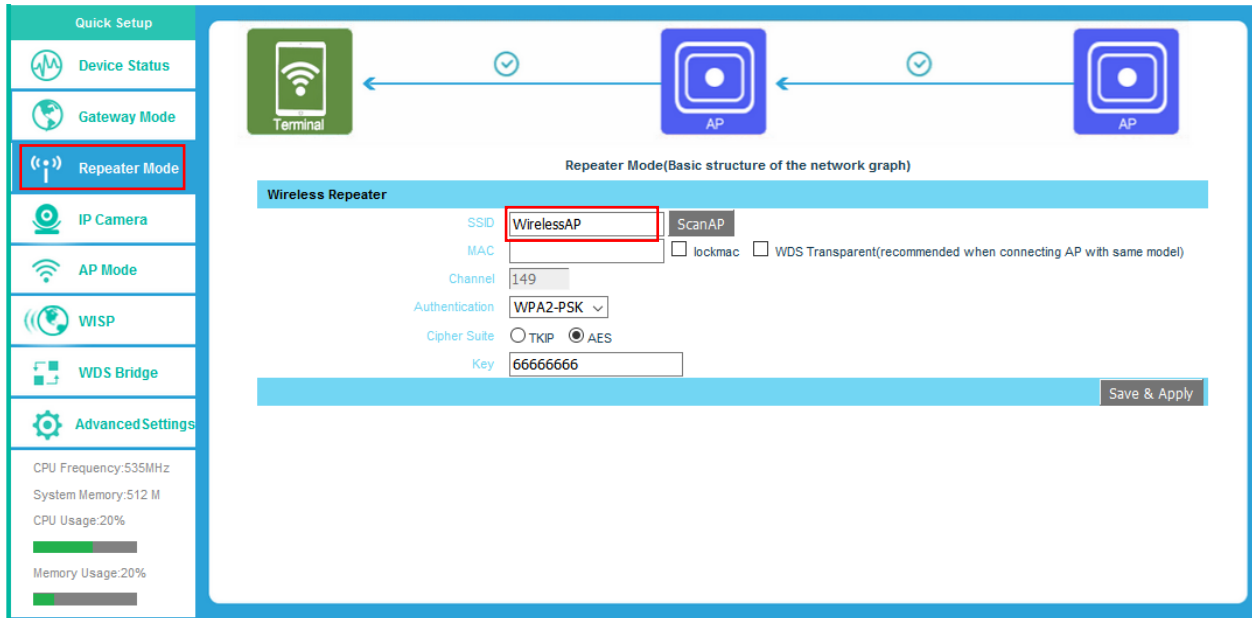
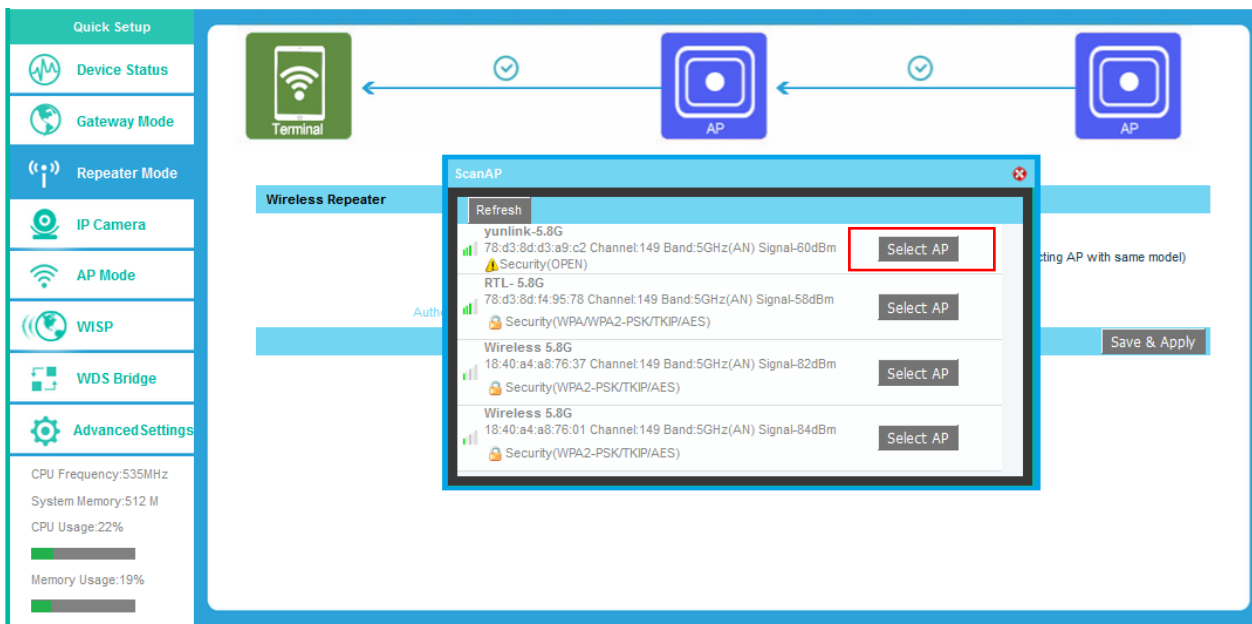After configuration please Save & Apply.
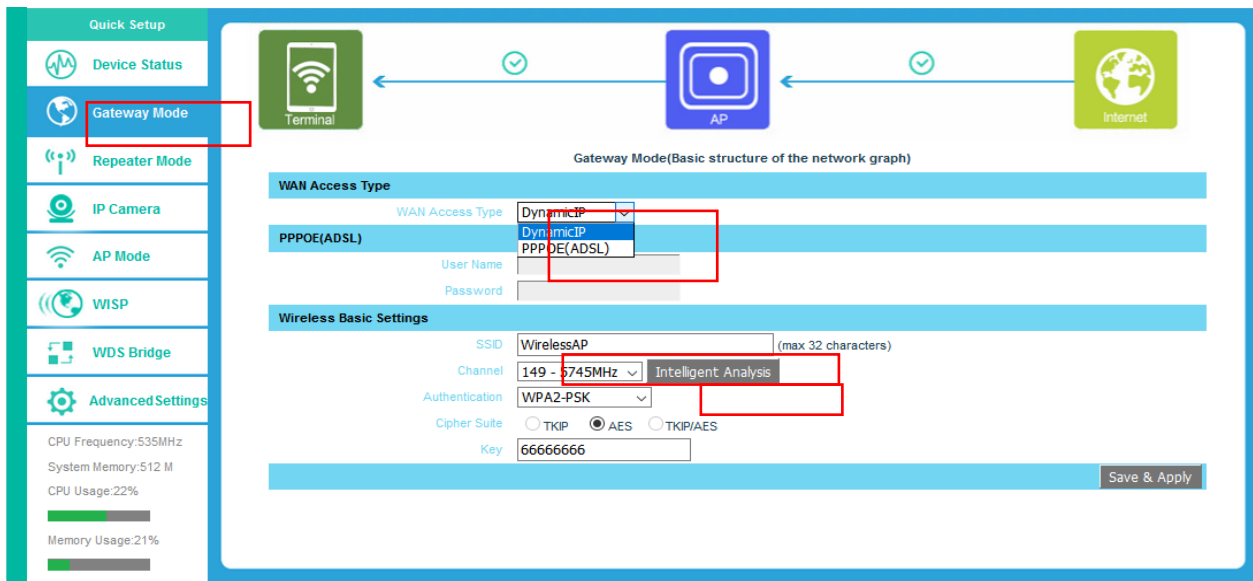
P7 Gateway Mode
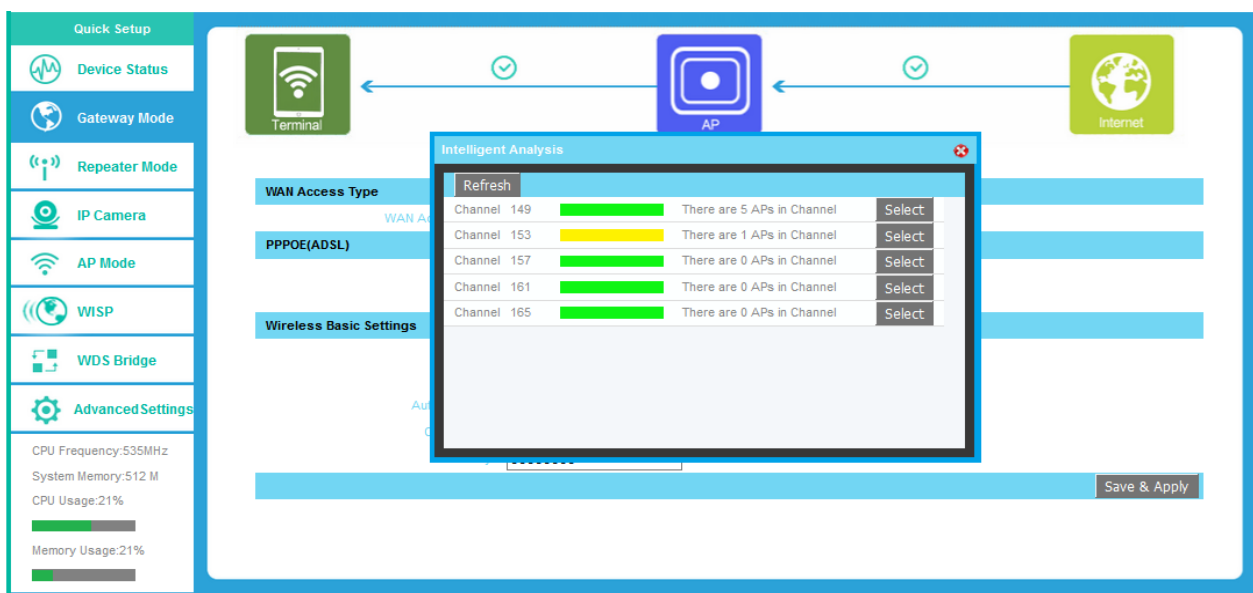
P8 Intelligent Analysis

2.2 Repeater Mode

Scan AP and choose the SSID you want to repeat. You are advised to lock the MAC of the SSID you repeat. Please do not change the Channel of the SSID you repeat. And input the Password of the SSID you repeat. Then Save & Apply.
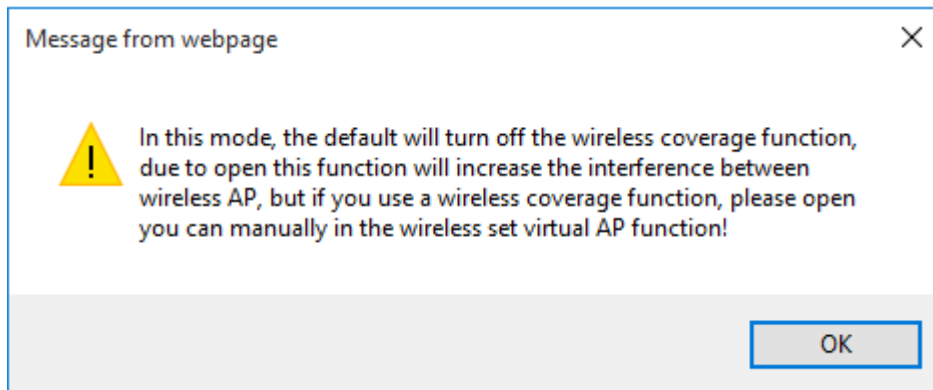

P9 Repeater Mode

P10 Scan AP

If your computer can't pop up this window, pls check your IE explorer and see whether it is Instruction   blocked already. And if this CPE can't scan any SSID, pls check if there are 5G wireless signal.

After apply you will see the following warning. Click OK. The SSID is disable in default setting, it works as Station; Then

if need SSID broadcast in this operation mode, just manually change under Advanced Setting.

After choosing the SSID, click Edit to configure it.

P11 Virtual AP

2.3 IP Camera Mode

P12 Application of Cameras

Pls note: If CPE1 in AP operation mode, CPE2 in repeater operation mode, then DVR in CPE1 side; The setting of AP

and Repeater mode, please refer to 2.2 and 2.4.

If CPE1 and CPE2 in WDS operation mode, then DVR can be in CPE1 side or CPE2 side.
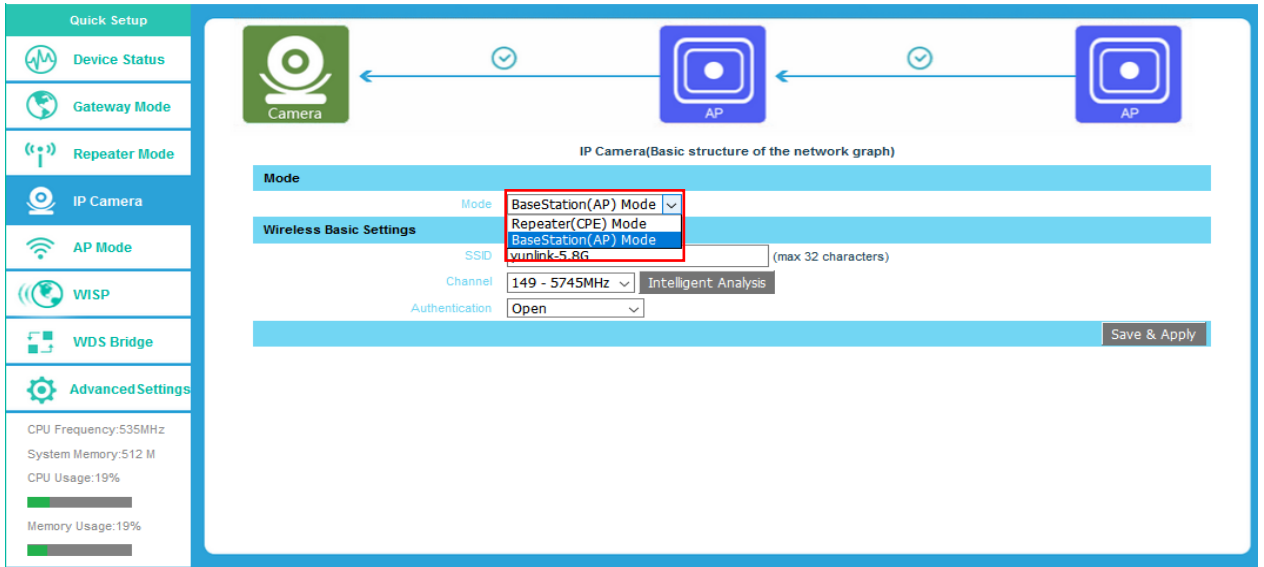
P13 IP Camera

2.4 AP Mode

Plug and Play to transmit wireless signal for wireless end users form wired networking. In this part, user can mark the

AP's location and name for easy problem checking. Input the SSID, Key (password of the SSID), Authentication

(Encryption Type) and Channel as you wish. Intelligent Analysis will help you to choose the best channel according to

the current environment. Then Save & Apply.

P14 AP Mode

8

2.5 WISP Mode

Choose the right WAN access type: Dynamic IP or PPPOE. If choose PPPOE you have to fill in the User Name and Pass Word the ISP provides. (You can refer to 2.1)

Scan AP and choose the SSID you want to repeat. You are advised to lock the MAC of the SSID you repeat. Please do not change the Channel of the SSID you repeat. And input the Password of the SSID you repeat. Then Save & Apply. (You can refer to 2.2)

P15 WISP Mode

2.6 WDS Mode

This mode is used for PTP or PTMP WiFi transmission.user can mark the AP's location and name for easy problem checking. Input the SSID, Key (password of the SSID), Authentication (Encryption Type) and Channel as you wish. After this configuration, you can scan AP to choose the SSID you want to bridge. You are only allowed to bridge the CPE with same channel and same encryption type. Then Save & Apply. When use WDS mode, you are advised to configure each CPE with different IP address in case you are confused by CPEs.

P16 WDS Mode

3 Advanced Settings

3.1 System Status

In system status, you will see the firmware version, build time, System uptime...

P17 System Status

Click 5.8GHz Wireless Status, you will see the basic information of the CPE.

P18 5.8GHz Wireless Status

If want to check LAN status, pls check following picture

P19 LAN Status

3.2 Operation Mode:

Set operation mode manually, choose the right operation mode, then apply changes. The function of this part will be same as Chapter 2.

P20 Operation Mode

3. 3 5.8GHz Wireless

A. 5Ghz Basic

In this part, user can configure the SSID, encryption type, password of the SSID. Intelligent Analysis will help you to choose the best channel according to the current environment.

P21 5.8GHz Basic

B.WDS Bridge Setting

Please refer to 2.6.

P22　WDS Bridge Setting

C. 5.8Ghz Virtual AP

Please refer to Virtual AP setting in 2.2.

Quick Setup	System Status	Operation Mode	**5.8GHz Wireless**	Network Setting	Management		
5.8GHz Basic	WDS Bridge Setting	5.8GHz Virtual AP	VLAN Setting	5.8GHz Access Control	5.8GHz Advanced		

Wireless VAP Settings

VAP Interface ○ Disabled ○ Enabled
SSID [   ] (max 32 characters)
Broadcast SSID ○ Disabled ○ Enabled
WMM ○ Disabled ○ Enabled
Authentication [Open ▾]
Key Length ○ Wep 64 Bit ○ Wep 128 Bit
Cipher Suite ○ TKIP ○ AES ○ TKIP/AES
Key Format [ASCII(5 characters) ▾]
Key [   ]

[Save & Apply] [Reset]

Status	Band	SSID	Broadcast SSID	Rate	WMM	Security	Edit
(Off)	11NAHT40	WirelessAP1	Enabled	Auto	Enabled	Open	○
(Off)	11NAHT40	WirelessAP2	Enabled	Auto	Enabled	Open	○
(Off)	11NAHT40	WirelessAP3	Enabled	Auto	Enabled	Open	○

P23 5.8Ghz Virtual AP

3.4 Management

A. Time Zone Setting

You can select the time zone. Sync with time server is only available under Gateway, WISP mode.

High-performance OutDoor 300M AP/CPE

Quick Setup	System Status	Operation Mode	5.8GHz Wireless	Network Setting	**Management**
Time Zone Setting	Signal Tracking	Log	Upgrade Firmware	Backup/Restore Settings	Password

Time Zone Setting

Current Time 2015-01-01 15:57:06 [Sync with host]
Time Zone Select [(GMT+08:00)Beijing, Chongqing, Hong Kong, Urumqi ▾]
☐ Enable NTP client update
NTP Server ● [192.5.41.41 - North America ▾]
○ [0.0.0.0] (Manual IP Setting)
☐ When device running at [0:00 ▾] Automatic optimization system

[Save & Apply] [Cancel]

P24 Time Zone

B. Signal Tracking

Scan AP first then start tracking the signal.

Quick Setup	System Status	Operation Mode	5.8GHz Wireless	Network Setting	**Management**
Time Zone Setting	Signal Tracking	Log	Upgrade Firmware	Backup/Restore Settings	Password

Signal Tracking

SSID [yunlink-5.8G] [ScanAP]
BSSID [78:D3:8D:D3:A9:C2] [Stop Tracking]
Signal Strength [▬▬▬▬▬] -62 dBm
Track Status Track Ongoing......(Tracked 15 times)

⚠ In the procedure of signal tracking, the unexpectable effects probably occur in Tx/Rx data transaction. Please press Stop Tracking button instantly after signal tracking!

P25 Signal Tracking

C. LOG

Enabled system log will help you to save the running history of the device. You can copy the log and submit to your

engineers.
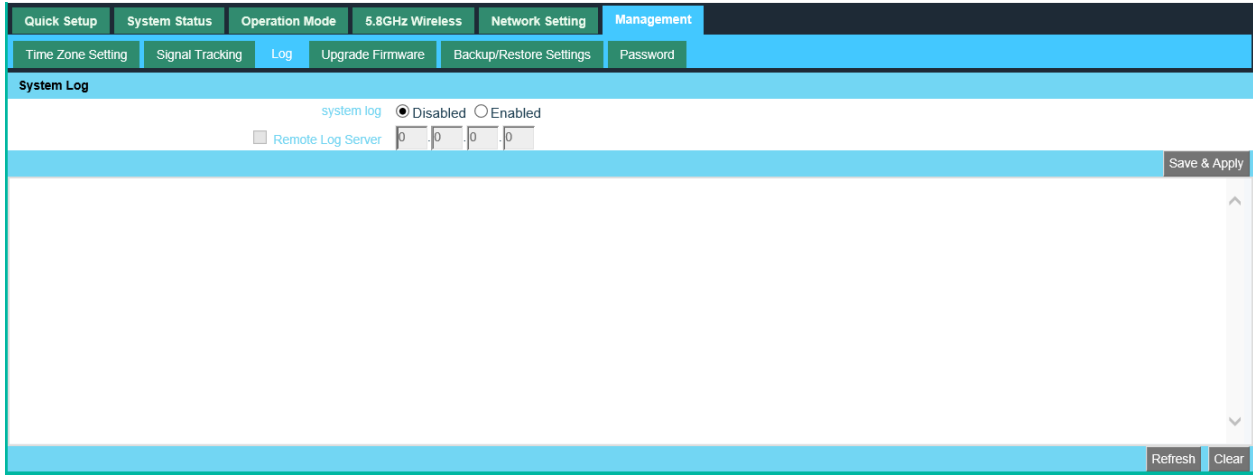
P26 LOG

D. Upgrade Firmware

Pls click Upgrade Firmware, then browse and choose the firmware should upgrade, then click upgrade to upgrade the

firmware. After upgrading, please Reset the device to factory default.
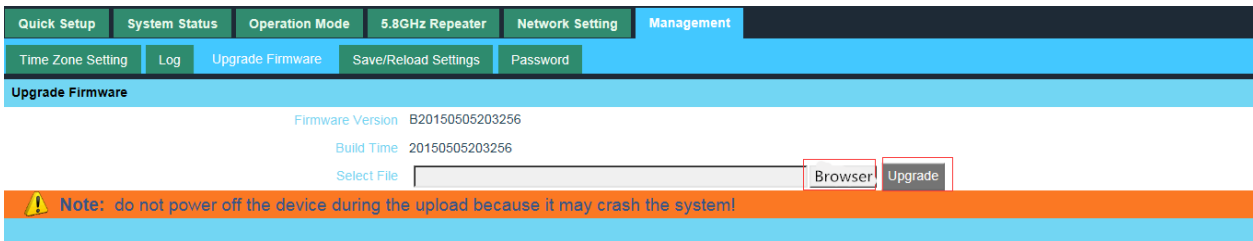
P27 Firmware Upgrade

E. Backup

You are able to back up the current configuration and restore the configuration from files saved in PC. Reboot and
Reset the CPE with just one click.
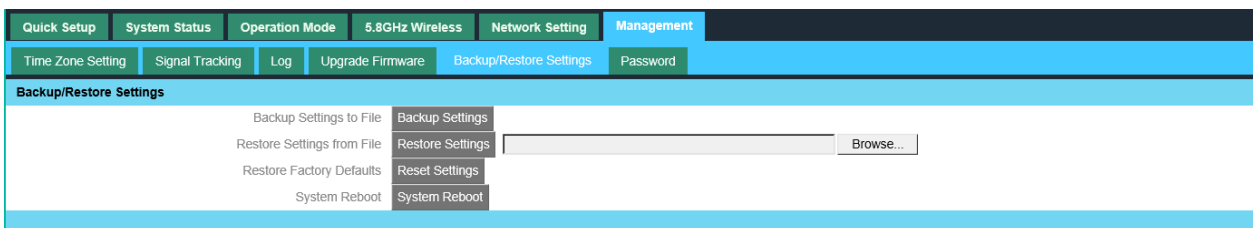
P28 Backup

F. Password

Change the User Name and Password of Logging in

Quick Setup	System Status	Operation Mode	5.8GHz Wireless	Network Setting	Management

Time Zone Setting	Signal Tracking	Log	Upgrade Firmware	Backup/Restore Settings	Password

Password Setup

User Name	
New Password	
Confirmed Password	

Save & Apply Cancel

P29 Password

Trouble Shooting:

F 1   The Failure phenomenon and solution

Failure phenomenon	Solution
SYS Indicator off	Pls make sure the PoE module connection is right. POE Port connect with CPE, LAN port connect with computer
Can't land to CPE through Web page	Pls check the IP address of computer and CPE to see whether they are in same networking segment, The method is click "start"-"Run" input"cmd"，ping 192.168.188.253 to test the CPE connectivity. Reset CPE and load it again; Pls make sure the IP address 192.168.188.253 is not occupied by other device in CPE's networking; Check computer and cable problem, recommend to use 10/100M UTP unshielded cable; Clean up Arp binding from "Start"-"Run" input"cmd" arp –d Clean the IE Brower's temporary files and Cache file。
CPE can't connect with AP （the status display unconnected）	Try to scan the avaliable wireless networking again； Make sure the CPE's wireless standard（11b/g/n, 5.8G）is correct； The Security and passwords are matched between CPE and AP； The signal strength of AP is too weak to connect, should be more than -75dBm；
Can't scan the wireless AP	Scan it several times more； Make sure there are 5G signal existed. Reset the CPE, scan it again after CPE restart；
The connection of CPE and AP is success, but the computer can't share internet	Pls Check the computer's IP address and DNS setting. If it is dynamin, set the network card as automatically obtain. If it is static IP, pls contact with ISP for correct IP address and DNS address.
How to Reset CPE	Press the "Reset" button more than 15 seconds after power on. The CPE will restore factory default after the CPE restart.

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```

```
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02110-1301, USA.
```

Also add information on how to contact you by electronic and

paper mail.

If the program is interactive, make it output a short notice like this

when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details
type `show w'.  This is free software, and you are welcome
to redistribute it under certain conditions; type `show c'
for details.
```

The hypothetical commands `show w' and `show c' should show

the appropriate parts of the General Public License. Of course, the

commands you use may be called something other than `show w'

and `show c'; they could even be mouse-clicks or menu

items--whatever suits your program.

You should also get your employer (if you work as a programmer)

or your school, if any, to sign a "copyright disclaimer" for the

program, if necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright
interest in the program `Gnomovision'
(which makes passes at compilers) written
by James Hacker.
```

```
signature of Ty Coon, 1 April 1989
Ty Coon, President of Vice
```

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