HYSENTEL Wireless Acess Point

HST_IWN2000

User Manual

深圳海盛特科技有限公司

Shenzhen Hysentel Technology Co., Ltd.

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目录

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1. User manual Introduction

Before you are ready to install and use this product, please carefully read this manual to fully use all the features of this product.

1.1. Premise

Wireless access point referred to in this manual, such as no special instructions, refer to HST_IWN2000 wireless access point, referred to below as HST_IWN2000 wireless access. The picture used in this manual are equipped with the relevant parameters, the actual product configuration interface does not provide, according to the actual need to set these parameters.

Schematic network diagram shown in this manual only for description purposes, the original product may vary, please refer to product physical map.

1.2. outline

Chapter 1: Introduction to the user manual.

Chapter 2: Product Overview. Brief wireless access functions and features.

Chapter 3: Hardware installation. Help you with the hardware installation of the wireless access device.

Chapter 4: Configuration Guide. Help you configure the wireless access advanced features.

2. product overview

2.1. product description

The product HST_IWN2000 Shenzhen Hysentel Technology Co., Ltd. is designed for hotels, shopping malls, indoor wireless coverage project wireless access products, and provides a standard wireless access functionality to support wireless access to a variety of countries, can create up to4 wireless access points, for hotels, guest houses, villas, residential and other needs high-end wireless coverage area, in addition to the wireless access also supports VLAN access, voice and data transport optimization, the PSE output, and a wealth of features to facilitatethe formation of the network of safe, high-speed and easy to manage.

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2.2. key features

3. device intallation

3.1. Panel layout

3.1.1. front panel
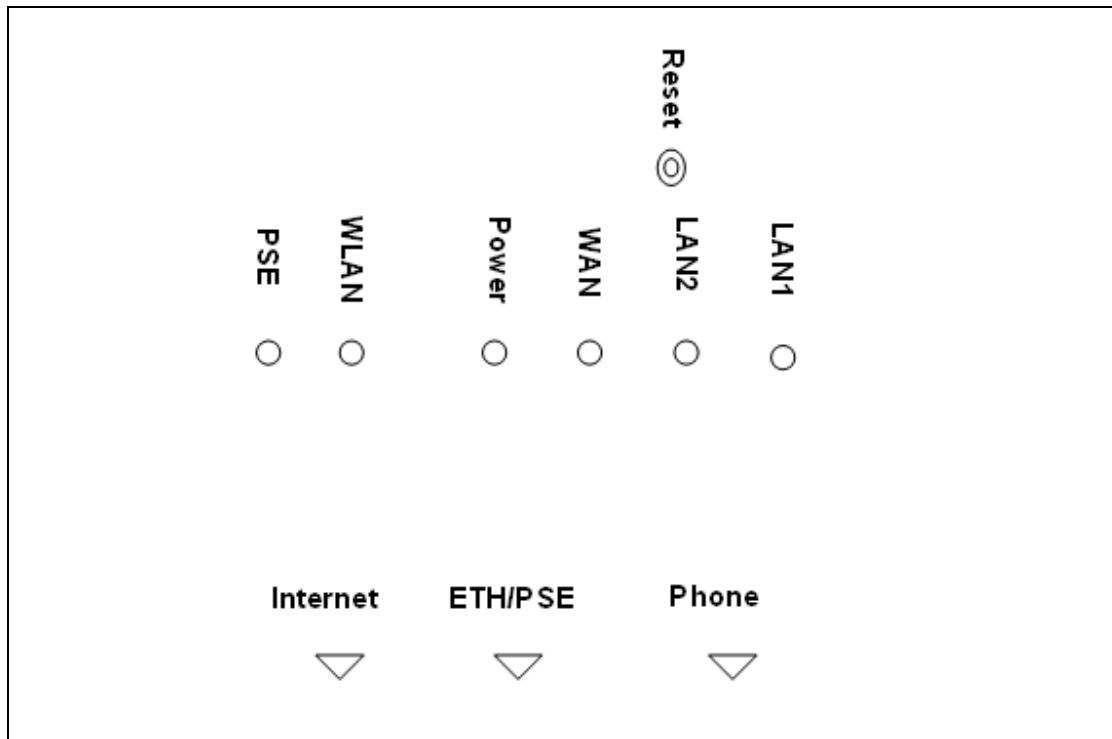
> ➢ PSE： PSE function led indicator
> ➢ Power：Power led indicator
> ➢ WAN：wan led indicator
> ➢ LAN2：PSE Ethernet port led indicator
> ➢ LAN1：Ethernet port 1 led indicator

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3.1.2. back panel
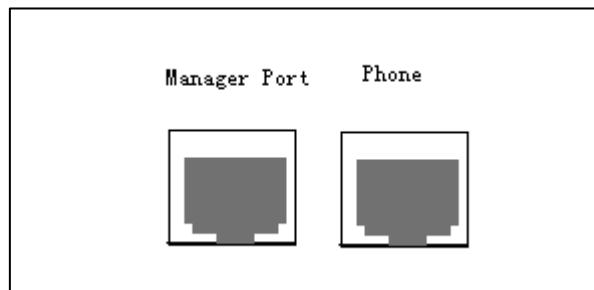
> ➤ Manager Port： Manager Ethernet port
> ➤ Phone ： Analog phone interface

3.1.3. bottom panel
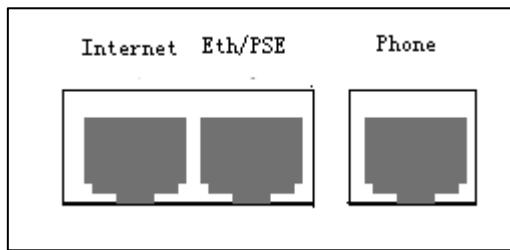
> ➤ Internet： Internet Ethernet Port
> ➤ Eth/PSE：PSE Port
> ➤ Phone： analog phone port

3.2. system requirements

- ✓ 802.3af PSE device
- ✓ Internet service
- ✓ Pc with wireless 802.11b/g/n card
- ✓ CAT5 cable
- ✓ Internet Explorer

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3.3. installation enviroment

- ✓ 802.3AF PSE power supply
- ✓ wireless access in a dry and ventilated environment
- ✓ Avoid wireless access point on the wet such as the environment is not conducive to the use of electrical equipment
- ✓ Use temperature should be between 0 º C to 40 º C
- ✓ Humidity should be in the case of 5%% the 90RH no condensation

4. Configuration Guide

4.1. Installation
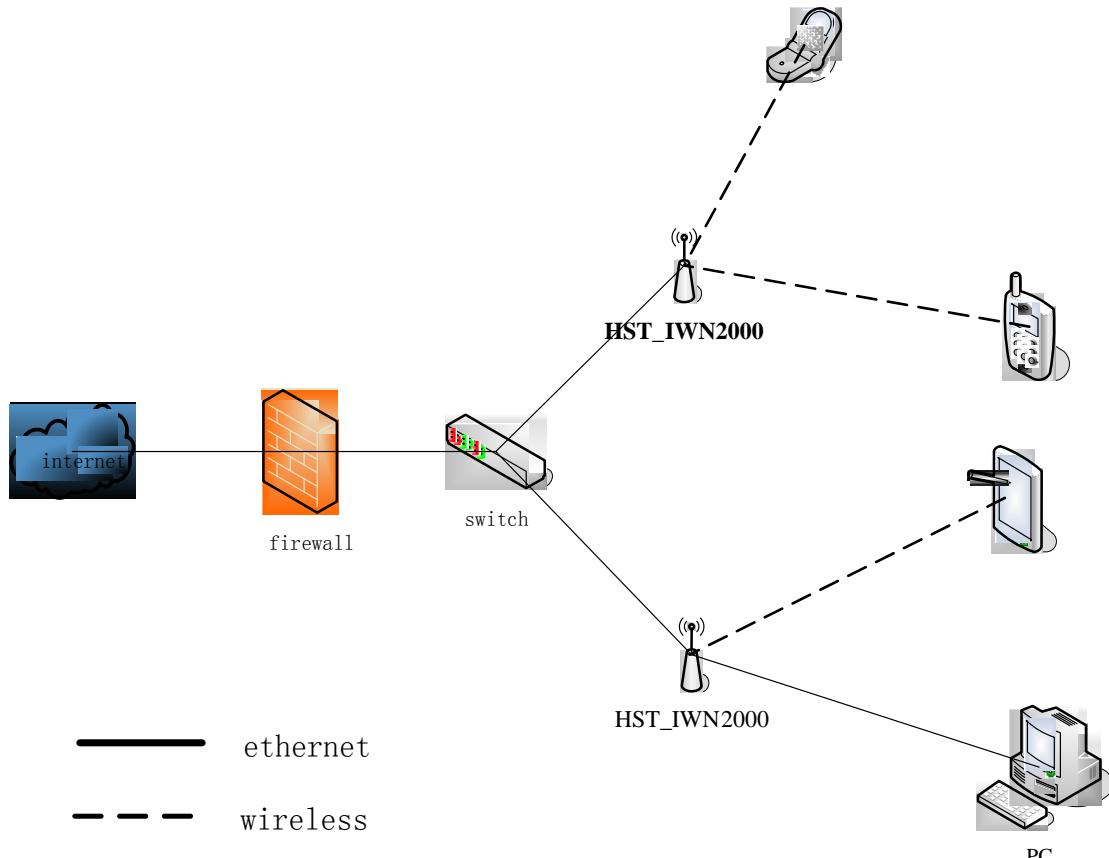
HST_IWN2000 Network diagram

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1,Reference on the figure

2, Connect the computer to the Ethernet port of the wireless access

3, Modify the configuration and save, reboot

4,connect to poe switch

Note: the initial IP192.168.200.1 of wireless access, the subnet mask of 255.255.255.0

4.2. start and login

4.2.1. start

input Address in the browser address bar enter the wireless access of a computer to connect to a wireless access (default is 192.168.200.1).

4.2.2. login

After successfully connected to the wireless access device, will come to the login page.

1, Please enter your user name and password in the User and Password input box

2, Click Submit, sending login request

3, If you enter the correct user name and password, successfully configured home page, or would have been stopped at the login page.

The default user name and password: admin / admin, if you have forgotten your user name or password is configured, use the reference to restore the factory settings related to a single, strongly recommend that you first login to modify the default user name and password.


Figure 1 login page

4.3. Ethernet port configuration

When you choose the Configure menu under the Function Menu panel Ethernet WAN Port

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Configuration, Ethernet the Port VLANs, the PSE Configuration three sub-menu will appear , click the function you need the sub-menu.

The following detailed description of the usefulness and the preparation of its various sub-menus.
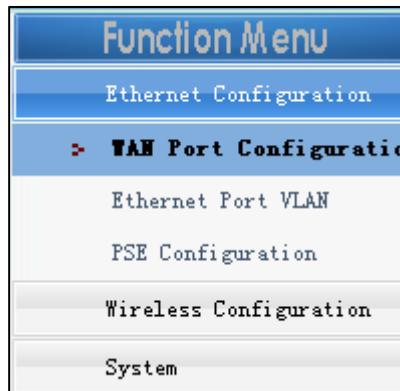
图表 1 网口配置菜单

4.3.1. WAN Port Configuration

Configure the wireless access device IP, subnet mask, default gateway and mode of administration.

➢ IP Address   IP address
➢ Netmask   subnet mask
➢ Default gateway   default gateway
➢ Manager Mode   manage mod
- ● Standard: Standard mode, said wireless access to work independently, and does not control home server, the default option.
- ● Client: Client mode, when you select this mode must be selected in the Manager Server Address bar fill in the AP Manager Server's IP address, as shown in Figure 4.
➢ Manager Server Address

figure 3 of the standard mode

figure 4 client mode
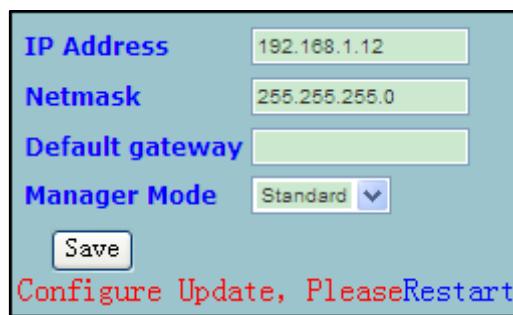
figure 2 Modified successfully, need to restart

Modify the configuration, click the Save button, if you modify successful, a prompt appears. Prompted, click Restart to restart the wireless access, the new configuration to take effect.

When the wireless access device reboot is complete, re-login to the system for you automatically.

As you operate the wireless access, and can change the network connection or a network status, so when you are unable to automatically log on to the wireless access device, the network is restored, manually re-login the wireless access device.

4.3.2. Ethernet Port VLAN

Modify Ethernet ports VLAN.。
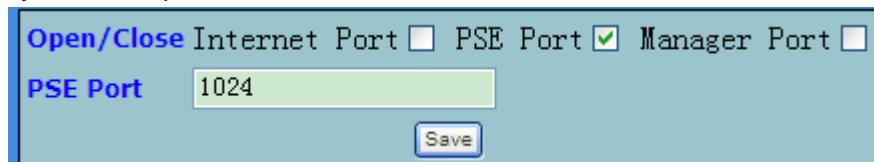
figure 3   Ethernet Port VLAN configuration

If you want to enable the VLAN function in a network port, please check the appropriate option, then in the appropriate input box you have configured VLAN ID, as shown in Figure 6,

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configure the PSE port VLAN.

If you want to cancel the network port's VLAN function, uncheck the appropriate option and then save and restart.

Modify the configuration, click the Save button, if you modify successful, a prompt appears.Please follow the prompts to click Restart to restart the wireless access, the new configuration to take effect.

When the wireless access device reboot is complete, re-login to the system for you automatically.

As you operate the wireless access, and can change the network connection or a network status, so when you are unable to automatically log on to the wireless access device, the network is restored, manually re-login the wireless access device.

4.3.3. PSE Configuration

Control of the PSE Port PSE function, when you select ENABLE, PSE Port PSE function, easy access to the IP phone, wireless LAN access point AP, the ip camera, such as PSE function support equipment.
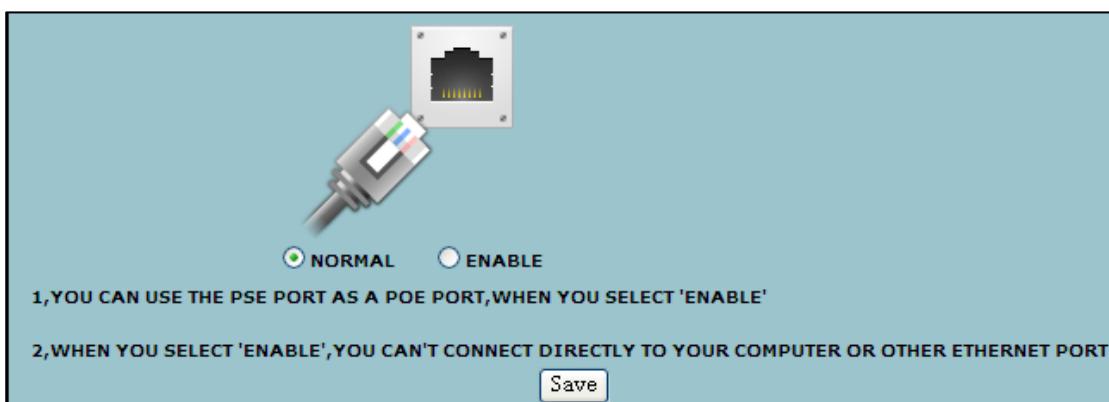

figure 4 PSE Configuration

Modify the configuration, click the Save button, if you modify successful, a prompt appears.Please follow the prompts to click Restart to restart the wireless access, the new configuration to take effect.

When the wireless access device reboot is complete, re-login to the system for you automatically.

As you operate the wireless access, and can change the network connection or a network status, so when you are unable to automatically log on to the wireless access device, the network is restored, manually re-login the wireless access device.

4.4. wireless configuration

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Wireless configuration parameters and the control set of the wireless access point.
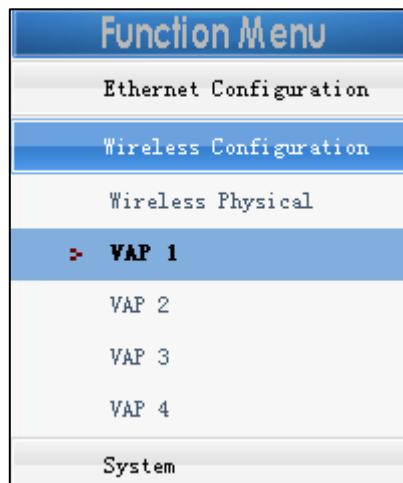

figure 5 wireless configuration menu

4.4.1. Wireless Physical

Wireless configuration parameters: channel, mode, the state, voice optimized, user isolation.

➢ Channel： If you find that the current channel usage, wireless signal is bad, you can change the channel. fewer people in one channel, in general, the signal would be better, the usual configuration 1,6,11 or you can use the "auto", to use its automatic search for appropriate channel.

➢ Mode： wireless mode
  - 802.11g，use 11g protocol
  - WiFi 11gn HT20，use11g and 11n，20M channel band width
  - WiFi 11gn HT40+，use11g and 11n，40M channel band width。Use main and auxiliary two-channel auxiliary channel is higher than the main channel.
  - WiFi 11gn HT40-，use11g and 11n，40M channel band width。The use of main and auxiliary two-channel auxiliary channel is lower than the main channel.

➢ Country： Each country have different standards for wireless, please choose your country.

➢ Video Features： VOW technology, optimize the quality of your wireless voice services.

➢ User Isolation： Use the same access point the user can not access each other, improve the security of wireless services.

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figure 6 wireless parameters configuration

Modify the configuration, click the Save button, if you modify successful, a prompt appears.Please follow the prompts to click Restart to restart the wireless access, the new configuration to take effect.

When the wireless access device reboot is complete, re-login to the system for you automatically.

As you operate the wireless access, and can change the network connection or a network status, so when you are unable to automatically log on to the wireless access device, the network is restored, manually re-login the wireless access device.

4.4.2. VAP

Configure the wireless access point can be configured to a total of four wireless access points, respectively VAP1, VAP2 VAP3, VAP4 configuration。

➢ ENABLE：   Wireless access point is enabled, Enable, Enable; Disable, do not enable
➢ ESSID String: The name of the wireless access point
➢ VLAN ID：   VLAN number of wireless access points, such as your useless VLAN, please do not fill out the entry in order to avoid the network can not access
➢ Security Settings: Authentication methods
  ● Open open system，Does not require certification。
  ● WPA：WPA authentication methods
➢ CYPHER：   WPA 的加密方式
  ● Auto，choose auto
  ● WPA/TKIP，WPA authentication method，TKIP encryption
  ● WPA/CCMP，WPA authentication method，TKIP encryption
  ● WPA2/TKIP，WPA 2 authentication method，TKIP encryption
  ● WPA2/CCMP，WPA 2 authentication method，TKIP encryption
➢ WPA Rekey Int: The effective time of a certified
➢ Personal Shard Key: PSK authentication,
➢ PSE KEY：   Pre-shared key (PSK), the character length greater than 8 and less than 16.

- Enterprise/Radius support: RADIUS authentication
- Auth Server：   RADIUS server
- Port：   radius server port 服务的端口
- Shared Key：   RADIUS shared key
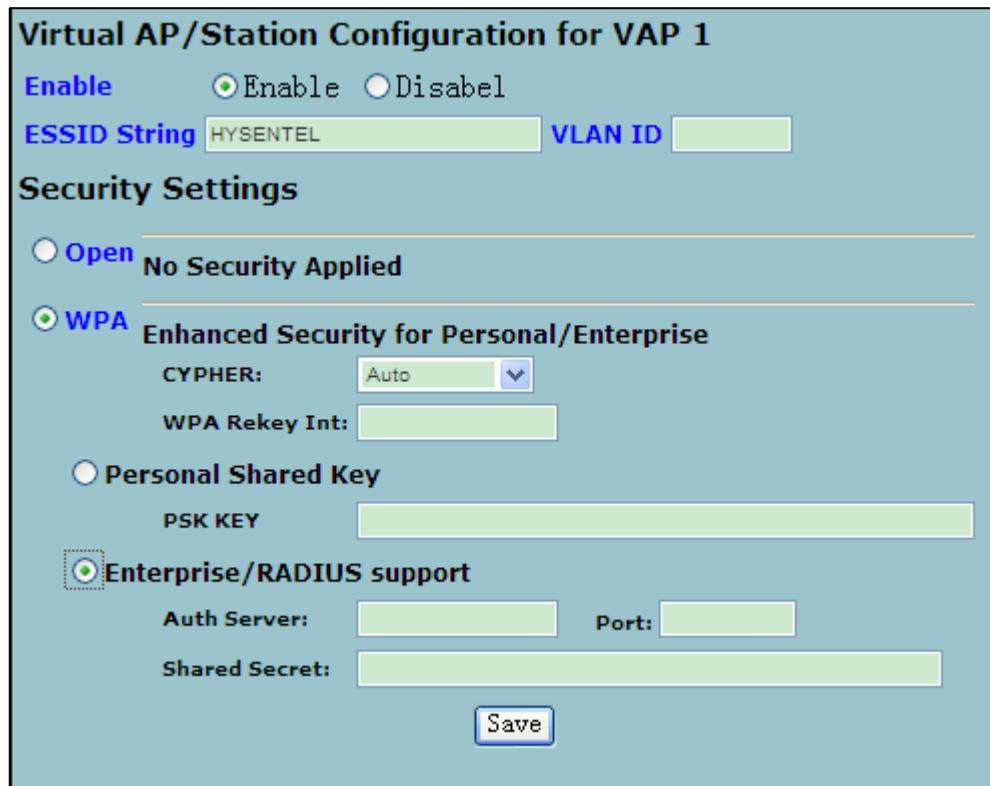
figure 7 VAPconfiguration

Modify the configuration, click the Save button, if you modify successful, a prompt appears.Please follow the prompts to click Restart to restart the wireless access, the new configuration to take effect.

When the wireless access device reboot is complete, re-login to the system for you automatically.

As you operate the wireless access, and can change the network connection or a network status, so when you are unable to automatically log on to the wireless access device, the network is restored, manually re-login the wireless access device.

4.5. system information
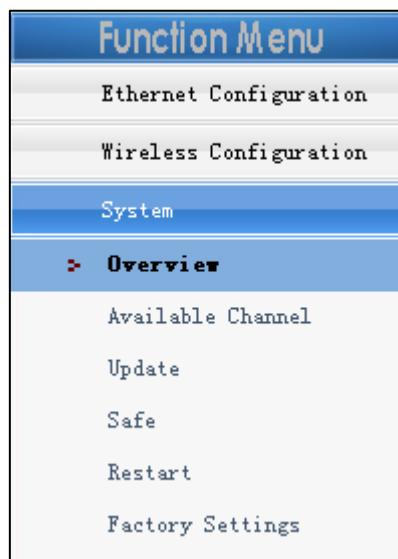
figure 8 system information menu

4.5.1. Overview

Firmware, wireless access point and a link information.：

➤ FIRMWARE:firmware version

➤ athN:athN access point information

➤ ADDR: stations mac address

➤ Other: wireless information. Only wireless professionals view when debugging network.

4.5.2. Available Channel

Displays the current end of the access point can use all the channels：

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2.4 GHz Band Channel Selection

```
Channel  1:2412  Mhz11ngCCU     Channel   7:2442   Mhz11ngCCUCL
Channel  2:2417  Mhz11ngCCU     Channel   8:2447   Mhz11ngCCL
Channel  3:2422  Mhz11ngCCU     Channel   9:2452   Mhz11ngCCL
Channel  4:2427  Mhz11ngCCU     Channel  10:2457   Mhz11ngCCL
Channel  5:2432  Mhz11ngCCUCLChannel   11:2462   Mhz11ngCCL
Channel  6:2437  Mhz11ngCCUCL
```

4.5.3. Update

Update the firmware of the wireless access：
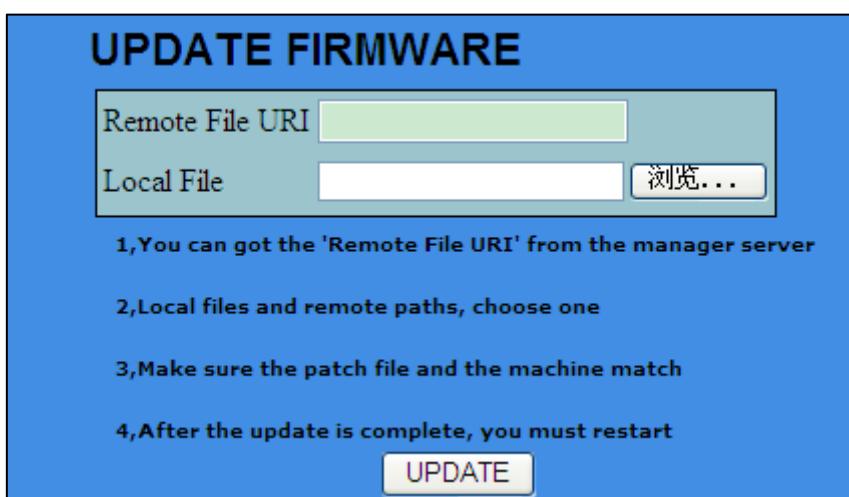
➢ Remote File URI: Update file on the remote address provided by the AP Manager。

➢ Local File：The location of the update files stored in the local.

Two update method only need to fill out one, and then click UPDATE, the update is complete, according to the prompts and restart the wireless access.

4.5.4. Safe

Change the login user name and password:：

Fill in your user name and password, then click Save when the next time you login, you need to you to fill out a new set of user name and password.

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4.5.5. Restart

Manually restart the wireless access：

Click restart icon, the system will perform the restart request. Restart is completed, the system will automatically help you to login again received a wireless access device.

As you operate the wireless access, and can change the network connection or a network status, so when you are unable to automatically log on to the wireless access device, the network is restored, manually re-login the wireless access device.

4.5.6. Factory Settings

Restore to factory settings：

Click the restore icon, the system will perform your restore factory settings request, the wireless access device will automatically restart and your configuration will be lost.

As you operate the wireless access, and can change the network connection or a network status, so when you are unable to automatically log on to the wireless access device, the network is restored, manually re-login the wireless access device.

4.5.7 Warning

The user should keep at least 20cm or more separation distance with the Product.

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FCC Note:

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.

The manufacturer is not responsible for any radio or TV interference
caused by unauthorized modifications to this equipment. Such modifications
could void the user's authority to operate the equipment.

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.

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