

# **WP588 WiFi Phone**



**User Manual**

**Version 1.0**

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## Chapter 1 Overview of the WiFi Phone

### 1.1 Introduction

Congratulations on your purchase of our WiFi Phone. This is a versatile WiFi Pocket Device. Features include VoIP, IP Surveillance, IPTV and Internet Radio. It can also make and receive Skype calls without carrying PC.

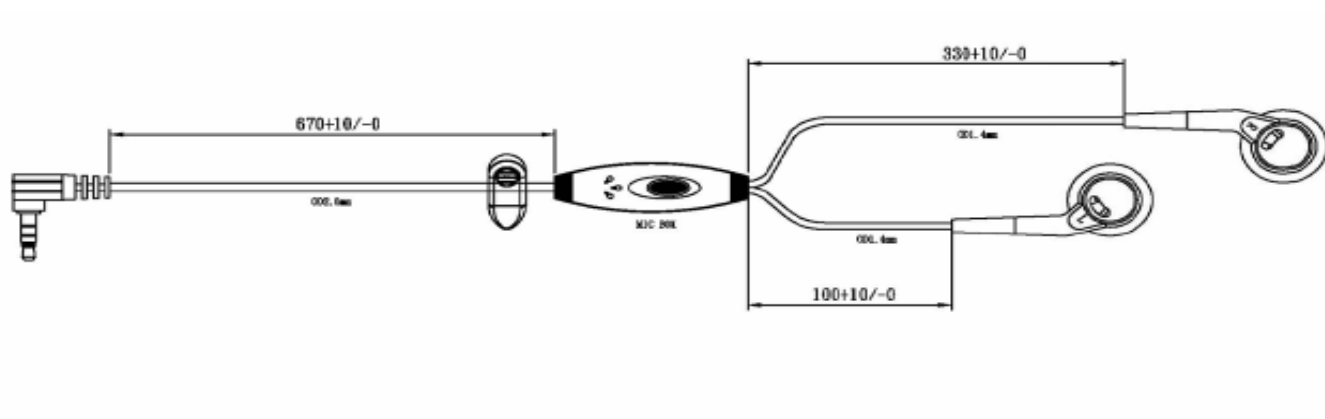
#### 1.1.1 Package Content

The package contains the following items:

- △ One WiFi Phone
- △ One Battery \*please charge the battery 8 hours before the first use
- △ One USB Cable
- △ One USB Adapter
- △ User's Manual

If any of the above items are damaged or missing, please contact your dealer immediately.

#### 1.1.2 Headset standards










## 1.2 Front Panel and Keypad



**Figure 1.2.1 Front Panel and Keypad**

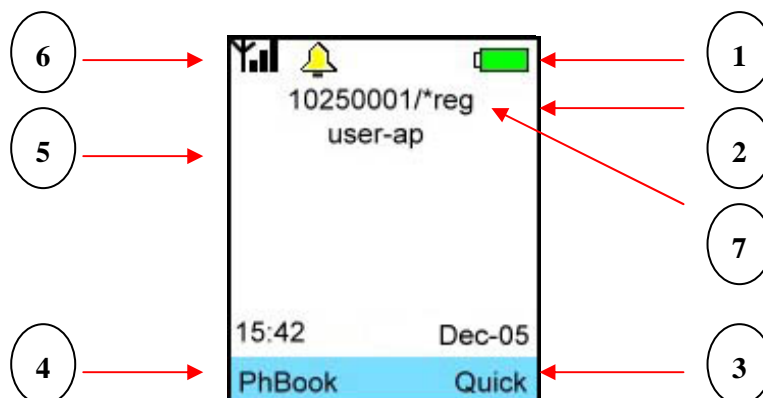
## 1.3 Keypad function description

Key		Description
		<b>Power on/off and End key</b> Display IP address key Used to end or reject a call, or to return to standby mode.
1		<b>Answer/Send key</b> Used to answer a call or dial a number.
2		<b>Menu and select key</b> Used to enter into menu and move up and down to select items In Input Mode, you can switch [123], [abc] and [ABC].
3		<b>Left key: Phone Book and Select key</b> To search or add or delete the data of phone book Press the button to go back to main menu
4		<b>Right key: Quick Setting and Back key</b> To enter Quick Setting menu
	<b>0-9</b>	<b>Number key</b> Used for entering numbers and characters.
5		<b>Unlock Key</b> Used to unlock the key ; Pound key: In entry mode Skype Buddy List : Press to retrieve Skype Buddy List.
6		<b>Asterisk key</b> In entry mode, use the asterisk key to enter ‘.’, ‘@’ and ‘:’, ‘*’

**Table 1.3.1: Keypad function description**

## 1.4 Main Screen

After powering on, the phone enters standby mode, with the main screen displayed as shown in Figure 1.3.1



**Figure 1.4.1**

**1 Battery icon**

**2 User name**

**3 Right soft key tab**

**4 Left soft key tab**

**5 AP information:**








Showing which AP you are connecting




**6 Signal strength icon**

**7 Registration status indicator:** when SIP registration is enabled, the \*reg indicates WIFI PHONE has registered to the SIP Registrar successfully. If WIFI PHONE fails to register to the SIP Registrar, a rotating line will appear at the same place.

**1.5 Entering and Editing text**


In many situations you need to enter numbers and characters in an entering field. Please refer to the following guidelines:

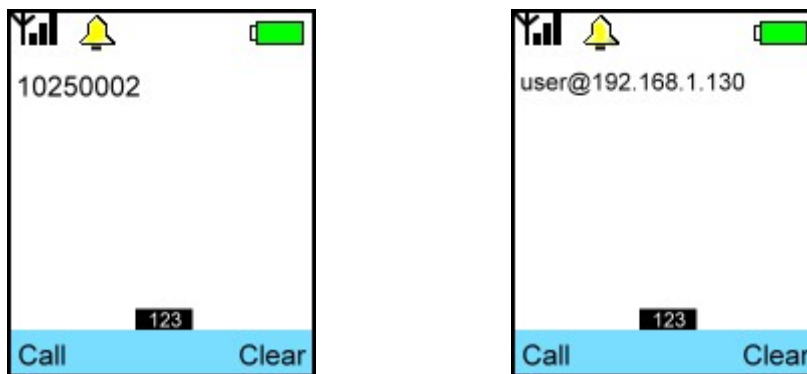
- Press  to switch between upper case character, lower case character and numeric mode, with the icon ,  or  shown at the middle of the bottom of LCD screen respectively.
- In enter mode, Press  to enter ‘.’ ‘@’ or ‘:’ by pressing it once, twice or three times respectively.
- In  or  mode, press numeric key ‘1’ to enter a space or icons as follows: “. , \$ % & \_”

- Press  to move the cursor.
- Press  to clear the number/character that the cursor points to.
- Press  to abort the editing.

## 1.6 Making a Phone Call

### 1.6.1 Entering the phone number manually

You can enter phone number (needing SIP Proxy Server and SIP Registrar) or SIP URL at the entering line. Then press  to make a phone call. Please refer to Figure 1.6.1



**Figure 1.6.1**

### 1.6.2 Using the Phone Book

You can search the Phonebook by name to get the phone number/SIP URL and make a call. Please refer to Chapter 6 Phone Book


### 1.6.3 Using the Call History

You can find the phone number/SIP URL from the Call History to make a phone call. Please refer to Chapter 9.1 Call History

### 1.6.4 Using the Quick Setting

You can select several options of the major functions from “Quick Setting”. Such as Site Survey, Key Lock, and change phone standby modes: General Mode/ Vibrator Mode/ Ringer Mode/ Silent Mode.

### 1.6.5 Redial a Number

At the standby mode, press  The list of placed calls is displayed. The latest dialed number is highlighted, so you can redial this number directly by pressing the left soft key.

### 1.6.6 Answer a Call/ Reject a Call

To answer a call, press  to accept. You can use key  to adjust the volume. To reject a call, press  Please refer to Figure 1.6.2



**Figure 1.6.2**


Caller ID will be shown on screen as Figure 1.6.2

Caller will hear “ Ring back tone” as soon as the phone is calling out

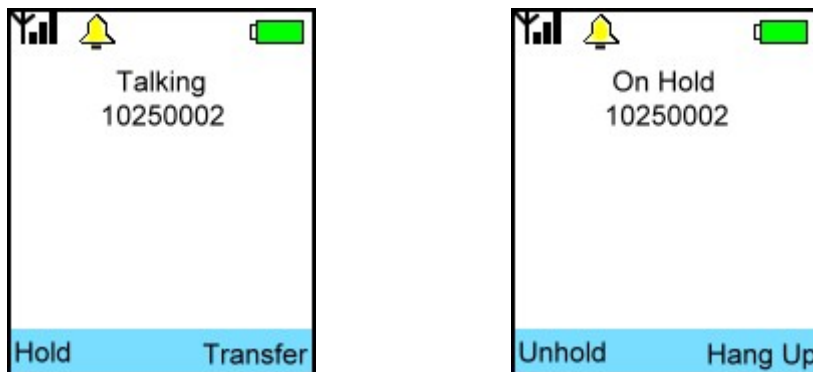
Receiver will hear “ Ring tone ” as soon as a call is coming

If the receiver is busy, caller will hear busy tone back from receiver



### 1.6.7 Hold a Call / Transfer a Call

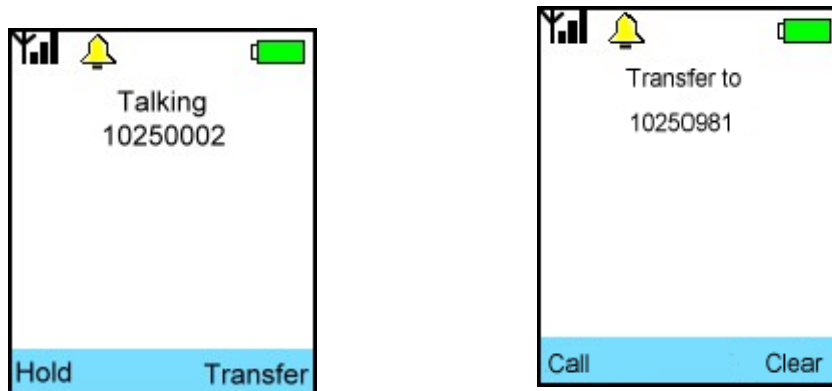
When talking, press  to hold the call.

To resume the held call, press  again. Please refer to Figure 1.6.3



**Figure 1.6.3** Hold and resume a call

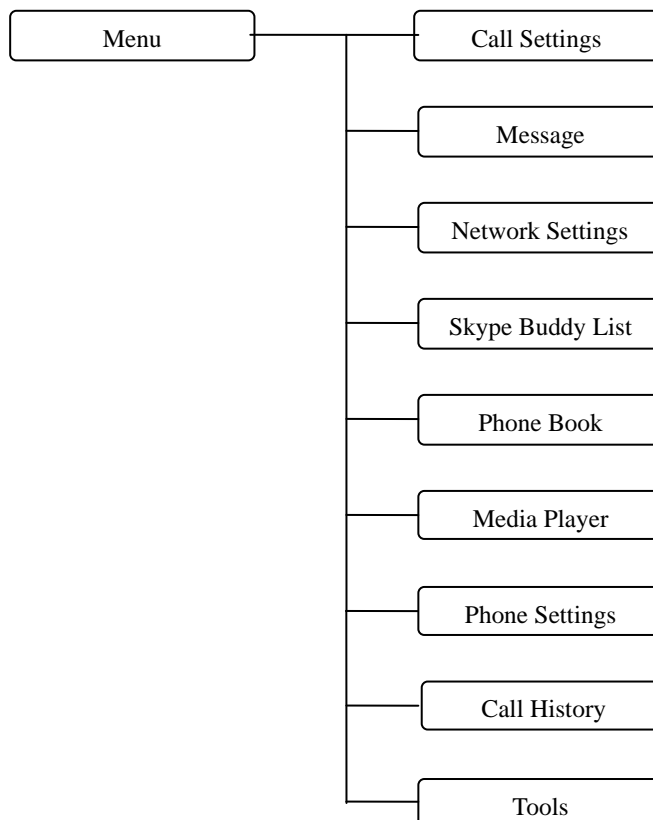
To transfer the call, press  and press the third party's number, then Press  to make call out. Please refer to Figure 1.6.4



**Figure 1.6.4 Transfer a call**

## 1.7 Main menu

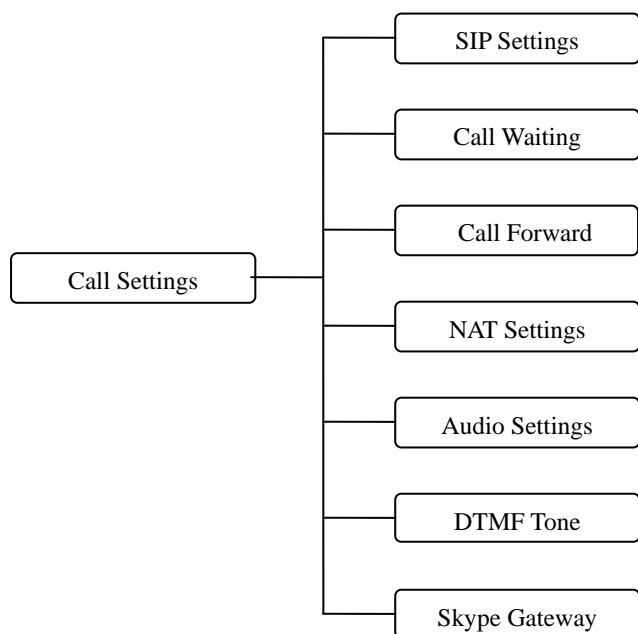
Figure 1.7 provides information about accessing the main menu and using its features.



**Figure 1.7.1**

## Chapter 2 Call Settings

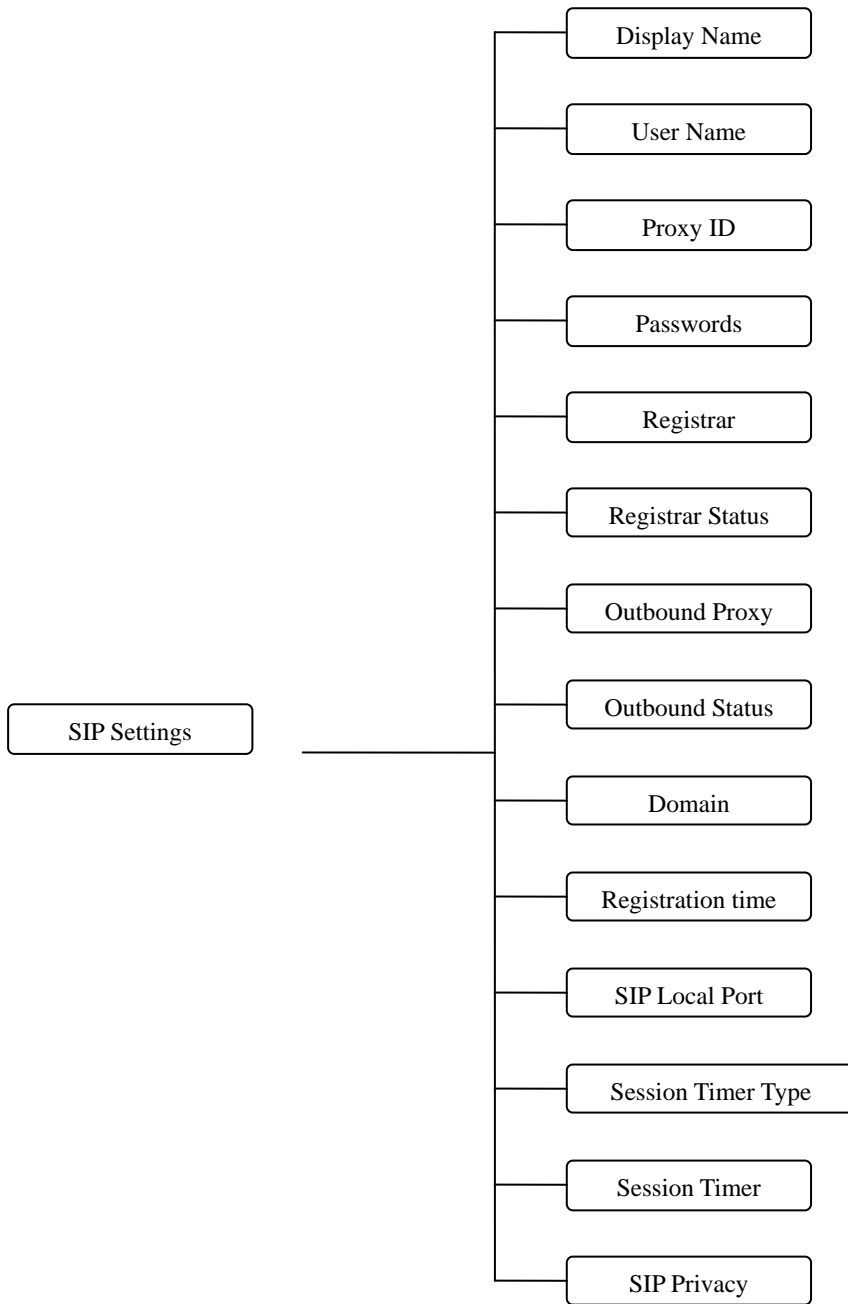
Figure 2.1.1 shows the architecture of the Call Settings menu.



**Figure 2.1.1**




### 2.1 SIP Settings

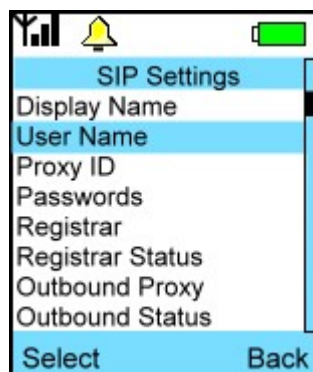
Figure 2.1.2 shows the architecture of the SIP Settings menu.



**Figure 2.1.2**

## SIP Settings menu architecture

In the main Menu, press  to enter and press  scroll to Call Settings and then select **SIP Settings**. Then press  to select it. The SIP Settings menu is displayed, as shown in Figure 2.1.3



**Figure 2.1.3**

### **1 Display Name**

Enter display name here.

### **2 User Name**

Enter SIP user name/phone number here.

### **3 Proxy ID**

Enter Proxy ID here, for example: abcd@aaa.bbb.ccc.ddd

### **4 Passwords**

Enter password here.

### **5 Registrar**

Enter Proxy server's URL and port number here.

For example, 210.65.147.201:5060

### **6 Registrar Status**

You can enable or disable the WIFI PHONE to register

To call through proxy server, "enable" needs to be set

### **7 Outbound Proxy**

Enter outbound Proxy server's URL and port number here.

For example: 210.65.147.201:5060

## **8 Outbound Proxy/ Status**

You can enable or disable the WIFI PHONE to use the outbound proxy server. To call through outbound proxy server, “enable” needs to be set

## **9 Domain**

SIP Domain, SIP server URL

For example: limss.cht.com.tw:5060

## **10 Registration Time**

Enter registration time here.

For example: 600

## **11 SIP Local Port**

Set the port of SIP signaling. Default is 5060 \*(In NAT Mode, Please use the local port between 5061~7800)

## **12 Session Timer Type**

Set enable/ disable/ invite or update Session Timer

## **13 Session Timer**

Enter the SIP Session Timer;

## **14 SIP Privacy**

Enable SIP Privacy or Disable it

## **2.2 Call Waiting**

Enable or Disable

When “enable” is set on, during busy, the alert tone will ring when a call is coming

## **2.3 Call Forward**

Unconditional / Busy / No Answer / No Answer Timeout Forward

Set the phone number here to enable call forward.

Unconditional---all incoming calls will be forwarded

Busy / No answer---the call can be forwarded to third party when the call can't be answered under receiver is busy or no answer

## 2.4 NAT Settings

NAT Traversal (for service provider reference)--- None /STUN/Static IP

For inter-working with some NAT-unfriendly VoIP system

(server or gateway), which can not detect the phone behind NAT, you may need to configure your phone to use the NAT external IP/Port.

For such environment, we provide 2 methods to get your NAT external IP/Port

### 1. Auto detect by STUN

(You have to contact your ISP to get a STUN URL before setup)

Step 1: Enter Menu to select NAT Settings

Step 2: Select “STUN Server”

Step 3: Input STUN\_URL address (contact your ISP to get )

For example, 192.168.1.100 or stun.mysip.com

### 2. Assign external IP by yourself

Step 1: Enter Menu to select Nat Settings

Step 2: Select “External\_IP”

Step 3: Input your NAT EXTERNAL IP address

For example: 192.168.1.100

## 2.5 Audio Settings

Audio Codec : default/ G.723/G.729/G.711u/G.711a/ iLBC20

RTP Port: Set RTP Port here

VAD: Disable /Enable

## 2.6 DTMF Tone

Off / RFC-2833 / Inband

To follow receiver’s support spec., set DTMF Tone here

## 2.7 Skype Gateway




Enter your e-link Skype Gateway’s SIP account here

For example: 10250003

- eLink family provides connections between SIP and other protocols for different user groups, such as SIP, Skype, etc. to Communicate seamlessly.
- eLink only support the Skype version 3.2 and the version before.

## Chapter 3 Message

### 3.1 Message

You can send and delete messages here. Also, you can find out the records of Inbox / Outbox. To send a message, press  to enter Menu and scroll to Message. Then select Send Message to input your message and press  to send out or press  to clear it.

The Message menu is displayed, as shown in Figure 3.1.1

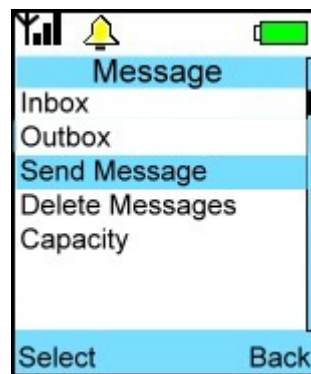


Figure 3.1.1

## Chapter 4 Network Settings

### Network Settings

This chapter provides information about accessing the Network Settings menu and using its features. Figure 4.1.1 shows the architecture of the Network Settings menu.

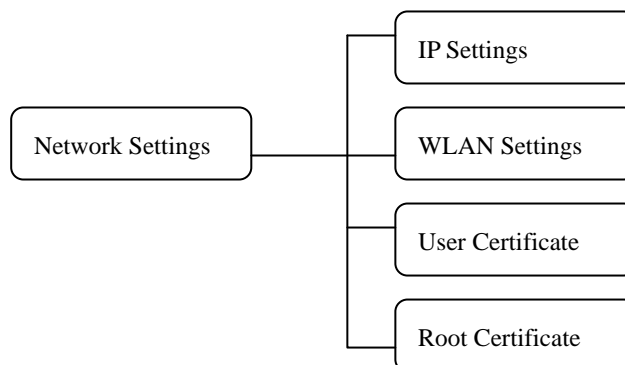


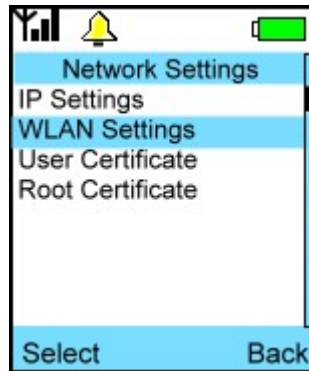


Figure 4.1.1 Network Settings menu

In the main Menu, press  to scroll to **Network Settings** and press  to select it. The Network Settings menu is displayed, as shown in Figure 4.1.2



**Figure 4.1.2 IP Settings menu**

## 4.1 IP Settings

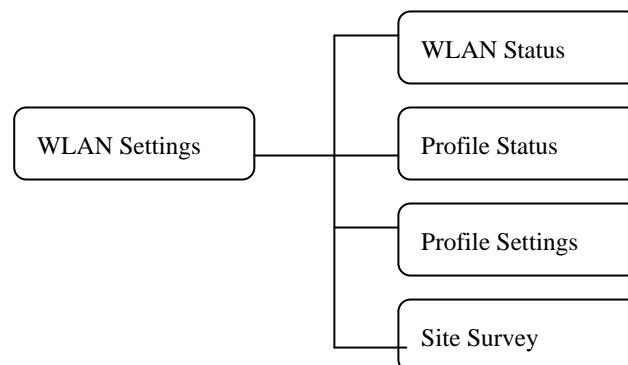
### IP Status

Show current status of Network settings including MAC address, DHCP status, IP address, Subnet Mask and default gateway.

### DHCP

You can get dynamic IP address, default gateway and DNS server IP address from a DHCP server if you enable the DHCP function. If you want to configure these settings manually, please disable this DHCP function.

## 4.2 WLAN Settings



**Figure 4.1.3 WLAN Settings menu**

## WLAN Status

You can disable it or you can enable it with 64, 128 bit key or WPA.


## Profile Status

The list of the available AP accesses is shown here.

## Profile Settings

You can have two operation models to do profile settings. One is to set on WiFi phone, the other one is to set on Web Configuration

Find out each available AP to Edit/Delete/Activate or see the Detail

To add a new profile, press “Unused ”  and press to enter the settings:

“Profile Name” , “ESSID”, and to set if any encryption is requested form AP.

Please refer to Figure 4.1.4

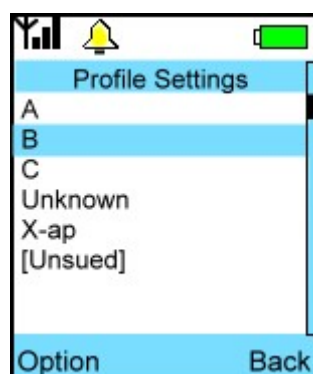



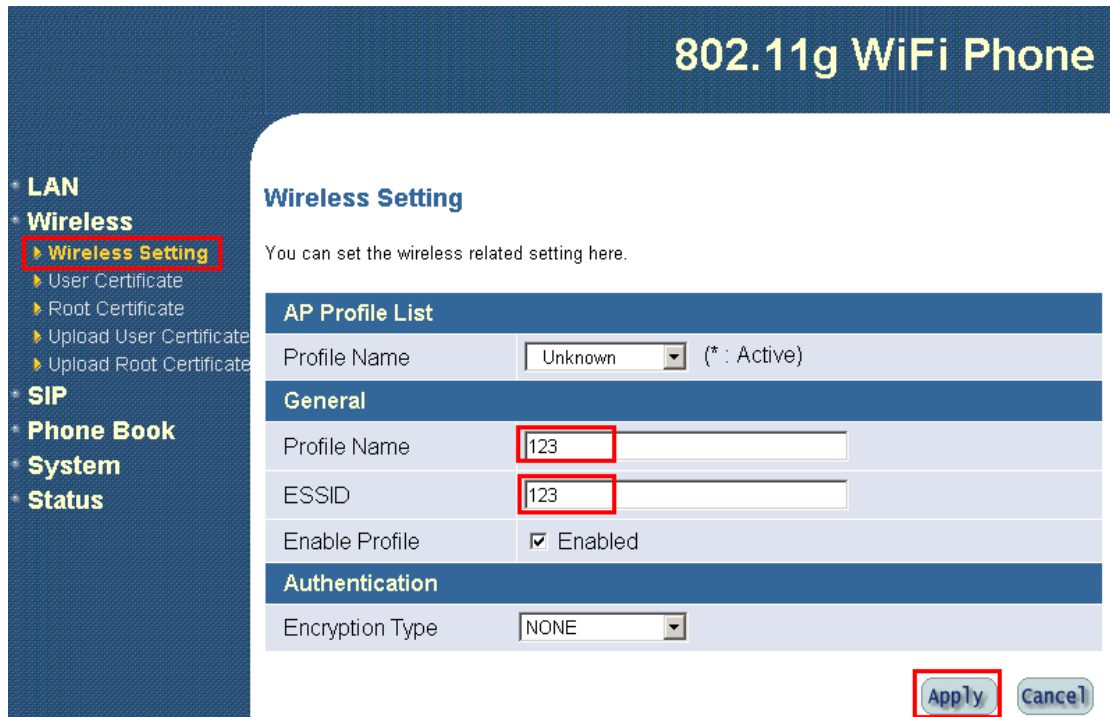


Figure 4.1.4

## Site Survey

Press  to enter the “Quick Setting” menu and use  to scroll to “Site Survey”. Press  to select and initiate site survey.

**To set Profile on Web Configuration:**



1. Enter Web page
2. Select Wireless Setting
3. To edit “Profile Name” & “ESSID”
4. Apply

### A. Authentication Setting

Step 1: Please check Access Point uses either “Open” or “Shared Key” of the WEP Authentication

Step 2: Please set the status: “Open” or “Shared Key” into menu “Authentication”

After the setting, please set steps in following “B”.

### B. WEP Setting

Step 1: If the AP is “Open” of the WEP Authentication,  
 set menu “Encryption Status” to “Disable”  
 Then, do “Site Survey”

Step 2: If the AP is “Shared Key” of the WEP Authentication,  
 check AP uses either 64 bits or 128 bits keys  
 Then, select an unused entry to set menu  
 “Encryption Status”

Step 3: If one of the WEP 64 or WEP 128 is selected,

set into menu “WEP Key Settings”

For example:

You may enter 64bits/Key#1 into menu “WEP Key Settings”

If you selected 64/1 in menu “Encryption Status”,

For “64-Bit” encryption, key length is 10 and for “128-Bit ”, key length is 26.

The key format is constructed in Hex.

For example,

“1234567890”

“1234567890abcdef1234567890”

### **C. WPA-PSK Setting**

If the AP has both WEP and WPA-PSK function, you can select one of them to set. For WPA-PSK Setting, please set as:

Step 1: Set ESSID

Step 2: Set “WPA-PSK” to “Enable”

Step 3: Input the passphrase in “Passphrase”

Step 4: Apply

### **D. WPA-EAP/TLS Setting**

This mode needs both [User Certificate] and [Root Certificate].

Step 1: Set ESSID

Step 2: Select [User Certificate]

Step 3: Input User ID

Step 4: Input User Password

Step 5: Select [Root Certificate]

### **E. WPA-EAP/TTLS Setting**

This mode needs [Root Certificate] only.

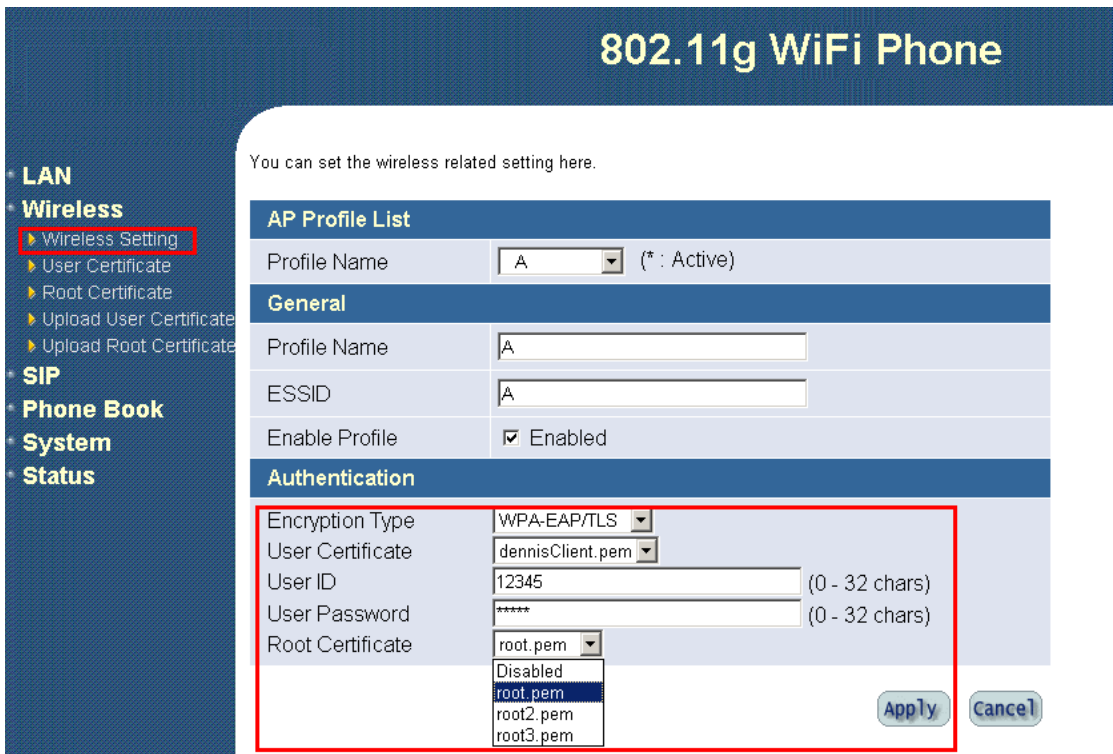
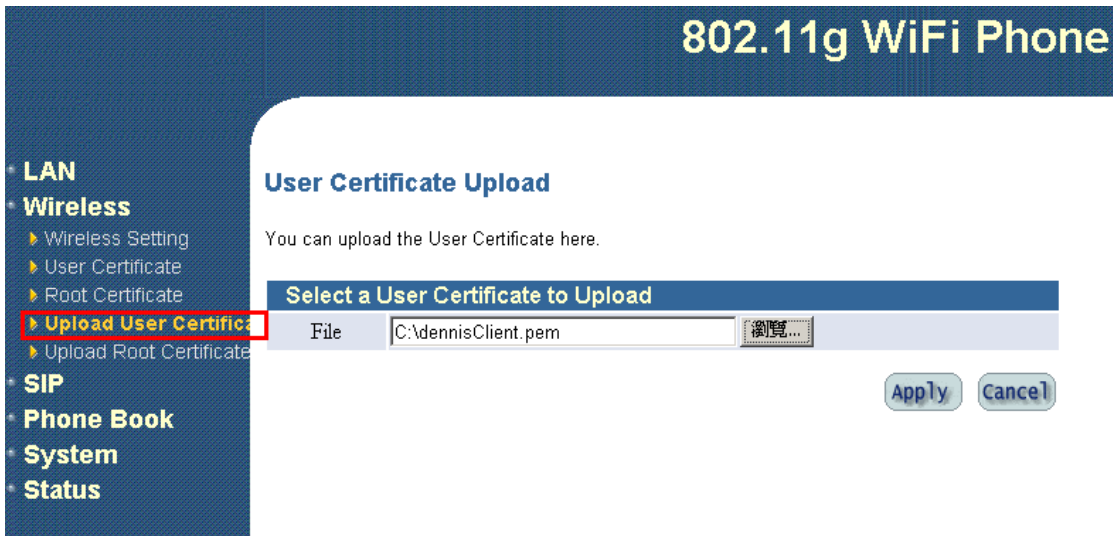
Step 1: Set ESSID

Step 2: Input User ID of the User Certificate

Step 3: Input User Password of the User Certificate

Step 4: Select [Root Certificate]

## **4.3 User Certificate**

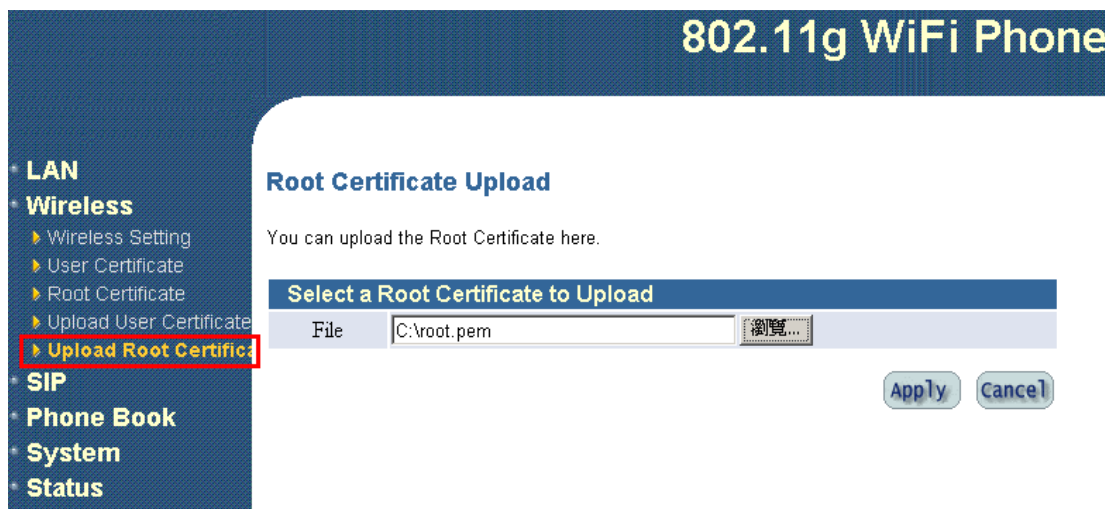


When “User Certificate” is requested by radius server, settings on Web configuration is needed as follows,

1. Enter Web page
2. Select “Upload User Certificate”
3. To link the file which is provided by MIS
4. Apply
5. After uploading, reboot WiFi phone.
6. Select “Wireless Setting” of Web page

7. To set encryption type into “ WPA-EAP/TLS ”
8. To choose user certificate’s file name
9. To set User ID & Password (provided by MIS)
10. To set Root Certificate if it’s also requested by radius server
11. Apply

#### 4.4 Root Certificate



When “User Certificate” is requested by radius server, settings on Web

configuration is needed as follows,

1. Enter Web page
2. Select “Upload Root Certificate”
3. To link the file which is provided by MIS
4. Apply
5. After uploading, reboot WiFi phone.
6. Select “Wireless Setting” of Web page
7. To set encryption type into “ WPA-EAP/TTLS ”
8. To set User ID & Password (provided by MIS)
9. To set “Root Certificate” if it’s also requested by radius server
10. Apply

#### **4.5 FON Settings**

If you have join the Fon, you can get on Free WiFi at any Fon spots by Setting the FON ID in our WiFi phone.

FON ID  
FON Password  
FON Status

For more information about Fon please go to <http://www.fon.com/en>

#### **Chapter 5 Skype Buddy List**

Please refer to Skype gateway


Note: to make a Skype call from WiFi Phone, you need to install SIP-Skype Gateway software (eLink) in your PC.

**eLink only support the Skype version 3.2 and the version before**

#### **To get a buddy list from Skype:**

1. Enter “Phone Book”
2. Select “Skype Buddy List”
3. Connect with Skype to attain the buddy list
4. Select a person from your contact list to make a call

## Chapter 6 Phone Book

You can press  to enter “Phone Book”. You can Search /Add / Delete the contact list and check the phone book capacity, or make Speed Dial call (up to 9 sets)

## Chapter 7 Media player

### 7.1 IP Settings

This chapter provides information about accessing the Media player server which can be used as IP Surveillance purpose and the multimedia entertainment programs for IPTV

1. Enter your IPTV or IP camera server address into “Set # num “Figure 7.1.1.

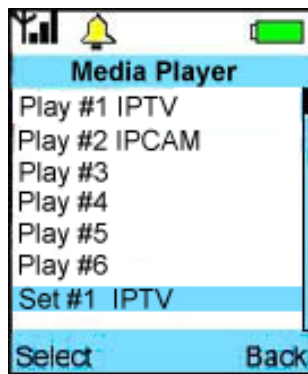


Figure 7.1.1

2. After the setting finished, Please press “Apply”. Figure 7.1.2



Figure 7.1.2

## 7.2 Setting with Web Configuration page

1. Enter Web Configuration procedure:

Please refer to Page 25 for 8.6 Web configuration

2. Go to System >> Phone Setting >> Media Player Setting

Enter your IPTV or IP camera server address into #num IP

Figure 7.1.3





Figure 7.1.3

## 7.3 Play Mode

1. Select “Play # num” to catch the real time image/ TV program from your setting.

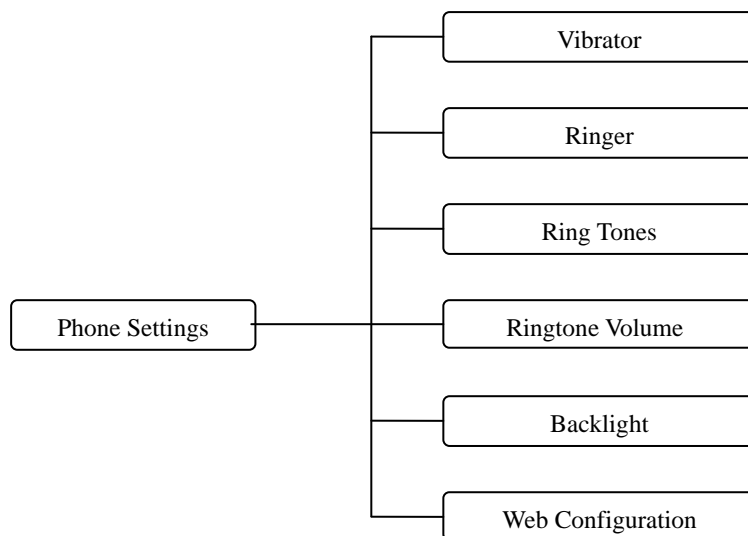
\* firewall ports open: 556(RTSP) for IPTV

2 Channel selection of vBoxtv

Press  up/down or select the channel number, then enter  to confirm.

\*firewall ports open: 8038(HTTP), 558(RTSP), 9000~9010(RTP/RTCP)

## Chapter 8 Phone Settings



### 8.1 Vibrator

Enable or disable the vibrator

### 8.2 Ringer

Enable or disable the ringer here.

### 8.3 Ring Tones

You can select from the 17 ringer melodies from Melody 1 to Melody 17.

### 8.4 Ringtone Volume

You can change ring tone volume here from 1-5 levels.


### 8.5 Backlight

Turn off the backlight or initiate it in interval from 5/10/20 seconds

### 8.6 Web Configuration

Enable or disable the web configuration here.

Enter Web Configuration procedure:

1. Press  to see IP address; ex: http://192.168.1.130
2. open MSIE and input the URL: http://192.168.1.130
3. Input user name and password

User name: admin

Password: 1234

#### 4. Enter into Web Configuration Page

The screenshot shows the '802.11g WiFi Phone' web configuration page. On the left is a navigation menu with categories: LAN, Wireless, SIP, Phone Book, System, and Status. Under 'SIP', there are sub-items for 'SIP Setting' and 'SIP Advanced'. The main content area is titled 'SIP Setting' and includes a sub-header 'Registrar Status' with a checkbox for 'Enabled'. Below this is a 'User Information' section with several input fields: Display Name (dennis), User Name (dennis2), Proxy User Name (dennis), Proxy User Password (12345678), Registrar Server IP (192.168.1.122), Registrar Server Port (5060), Domain Name (192.168.1.122), and Domain Name Port (5060).

Registrar Status	
Register Proxy	<input type="checkbox"/> Enabled

User Information	
Display Name	<input type="text" value="dennis"/>
User Name	<input type="text" value="dennis2"/>
Proxy User Name	<input type="text" value="dennis"/>
Proxy User Password	<input type="text" value="12345678"/> (0-32 Characters)
Registrar Server IP	<input type="text" value="192.168.1.122"/>
Registrar Server Port	<input type="text" value="5060"/>
Domain Name	<input type="text" value="192.168.1.122"/>
Domain Name Port	<input type="text" value="5060"/>

#### 5. Complete settings, press “ Apply ”

This screenshot shows the same '802.11g WiFi Phone' web configuration page, but with additional settings. The 'SIP Setting' section now includes a 'Registration Time' field set to 3600 seconds. Below this is an 'Outbound Proxy' section with a checkbox for 'Enabled' and input fields for 'Outbound Proxy IP' (192.168.1.122) and 'Outbound Proxy Port' (5060). At the bottom right, the 'Apply' button is highlighted with a red box, and a 'Cancel' button is also visible.

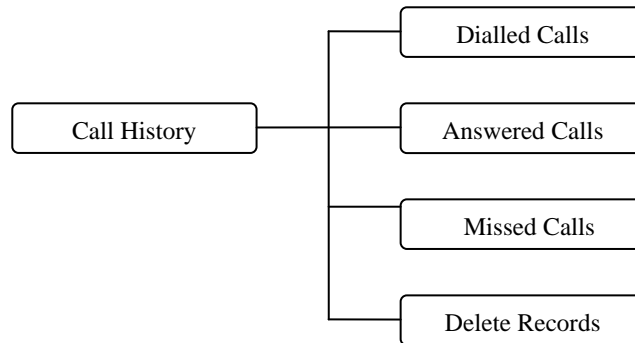
Proxy User Name	<input type="text" value="dennis"/>
Proxy User Password	<input type="text" value="12345678"/> (0-32 Characters)
Registrar Server IP	<input type="text" value="192.168.1.122"/>
Registrar Server Port	<input type="text" value="5060"/>
Domain Name	<input type="text" value="192.168.1.122"/>
Domain Name Port	<input type="text" value="5060"/>
Registration Time	<input type="text" value="3600"/> (seconds) (20-3600)

Outbound Proxy	
Outbound Proxy	<input type="checkbox"/> Enabled
Outbound Proxy IP	<input type="text" value="192.168.1.122"/>
Outbound Proxy Port	<input type="text" value="5060"/>

## Chapter 9 Call History

### 9.1 Call History

Figure 9.1.1 shows the architecture of Call History menu.




**Figure 9.1.1**

You can find out all the records of Dialled /Answered/Missed/ Delete Records

## Chapter 10 Tools & Internet Radio

### 10.1 Internet Radio

For the radio station latest list please download from “**Update Station List**”.

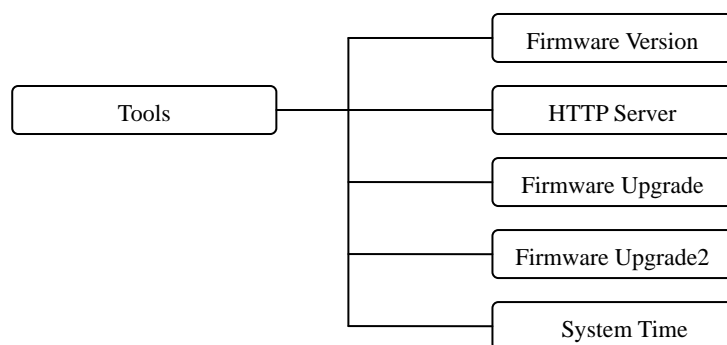
And Select “**Station Genre List**” for the radio station list, choose your favorite radio station press  to play. Figure 10.1.1





**Figure 10.1.1**

## 10.2 Firmware Settings

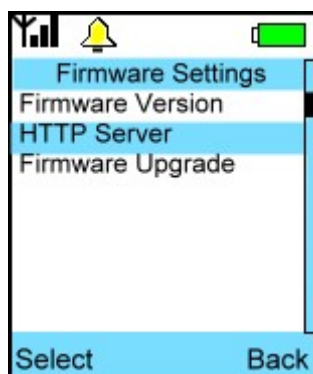
This chapter provides information about accessing the Firmware Settings menu and using its features. Figure 10.2.1 shows the architecture of the Firmware Settings menu.



**Figure 10.2.1**

In the main menu, press  to scroll to **Tools** and press  to select it.

The system time menu is displayed, as shown in Figure 10.2.2



**Figure 10.2.2**

## 10.3 Firmware Version

You can check the current firmware version here.

## 10.4 HTTP Server

Enter your HTTP server here. For example: 192.168.1.3

## 10.5 Firmware Upgrade/ Firmware Upgrade2

### A. To upgrade from Web Configuration

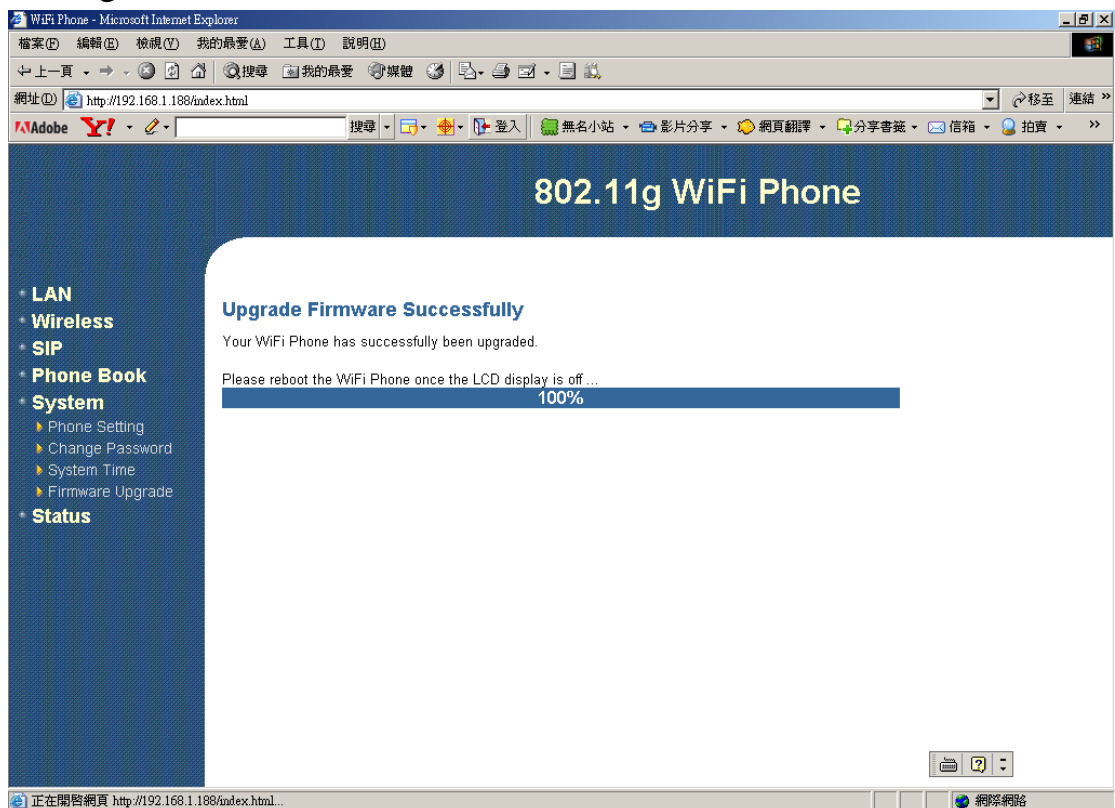


1. Enter into Web Configuration Page
2. Choose “ Firmware Upgrade ”
3. To use “ browser ” to link the upgrade file

- Notice: 1. Please put the upgrade file under C:\ or D:\
2. Don't Put the upgrade file under Desktop
3. The file name must be uClinux.img.gz and fs.jffs2

4. Press “Apply ”



After the upgrade process is successfully finished, you will receive the message as follows:

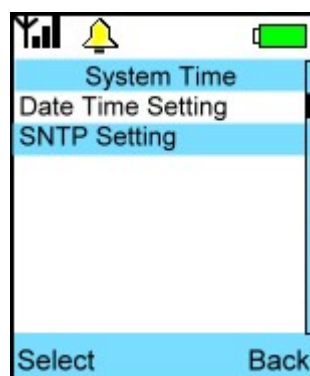


## **B. To upgrade on WiFi phone “ Firmware Upgrade settings ”**

1. To download the upgrade file on HTTP Server
2. To set “ HTTP Server IP address ” on phone
3. Select “Yes” of “ Firmware Upgrade ” to upgrade the firmware version or “No” to cancel.

### **10.6.1 System Time**

In the main menu, press  to scroll to **System Time** and press  to select it. The system time menu is displayed, as shown in Figure 10.1.3



**Figure 10.1.3 System Time menu**

### **Date Time Setting**

You can set time and date in this submenu.

### **10.6.2 SNTP Setting**

#### **Time Zone Setting**

This submenu includes Time Zone and Daylight Saving configuration. You can select the time zone in Time Zone Setting which you are located from the time zone list. You can disable or enable the daylight saving function.

#### **SNTP Status**

Enable or disable the SNTP here.

#### **SNTP Server 1 to 2**

You can set the IP address of SNTP server 1 to server 2 here.