

IEEE 802.11 b/g VoWLAN Handset



USER's MANUAL

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1

Getting Started

1.1 Reading this Manual

Thank you for purchasing this Wi-Fi phone. To operate accordingly your new phone, carefully read this user's manual first. Screen displays and illustrations in this user's manual are designed to help you to operate all the steps directly and precisely.

1.2 Package Contents

- One 802.11b/g VoWLAN handset;
- One Setup CD-ROM with user's manual;
- One Li-ion battery;
- One power adapter or mini-USB cable.

1.3 Charging the Battery

New battery is shipped partially charged. Before you can use your phone, you need to install and charge the battery.



1. Make sure the battery is installed properly.
2. There are two ways to charge the battery.
3. You can either plug the power adapter between the data cable slot on the bottom of the phone and the socket.
4. Or use mini-USB cable to charge through your notebook or related device.
5. While charging, you can still do operations according to your preference with the phone.

Note! For the first time usage, it is recommended to charge the battery for at least 8 hours.

The battery charging status is properly performed only after uninterrupted charging/ discharging.

The battery heats up a bit during charging. This is not malfunction.


If the battery is completely exhausted, to be fully charged requires approximately three hours (with the phone powered off).

1.4 Switching the Phone On or Off

- Press and hold the Power key  to turn **ON** the phone. An



animation will show up on the screen.

- To turn **OFF** the phone, press and hold the Power key . An



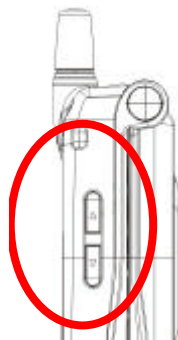
animation will display on the screen.

1.5 Power Saving Mode

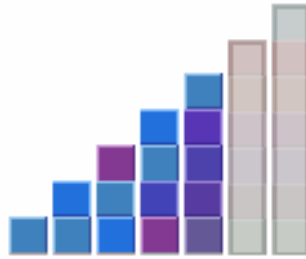
- To save power consumption, the LCD monitor will turn dark after 15 seconds (as default) without any operations.
- To turn on again the LCD monitor, just press any key.

1.6 Adjusting the Volume

- You can press volume adjustment keys (Up or Down) to increase or decrease the volume.



- Volume adjustment level also indicates on the screen.



1.7 Making a Call

- It is necessary to set up your Wi-Fi phone first before making any calls. (Details refer to chapter 4.1)
- There are two ways to make call:

➤ In Standby, enter the numeric keys and then press .





➤ In Standby, press  and your Phonebook displays.

Press  to **Search** the desired contact member and then

press .

1.8 Answering a Call

- When you receive a call, your phone rings and/or vibrates and displays an incoming call message.

Press	To
 Or 	Accept and pick up the phone call.
 Or 	Reject the incoming phone call.

1.9 Using the Key Lock Feature

- Key lock is used to avoid unintentional pressing of keys.
- There are two ways to set the key lock function:

1. In Standby, press and hold  key lock is then activated.




2. Or in menu option: **Setting Keypad Keypad Lock**

Press	To
-------	----



Activate key lock.

1.10 Using the Unlock Feature

1. To unlock the key lock, press and hold . A pop-up message displays on the screen “**Keypad Locked! It Can Be Unlock by Press and Hold #**” and press  first then press  **OK** to deactivate the key lock.

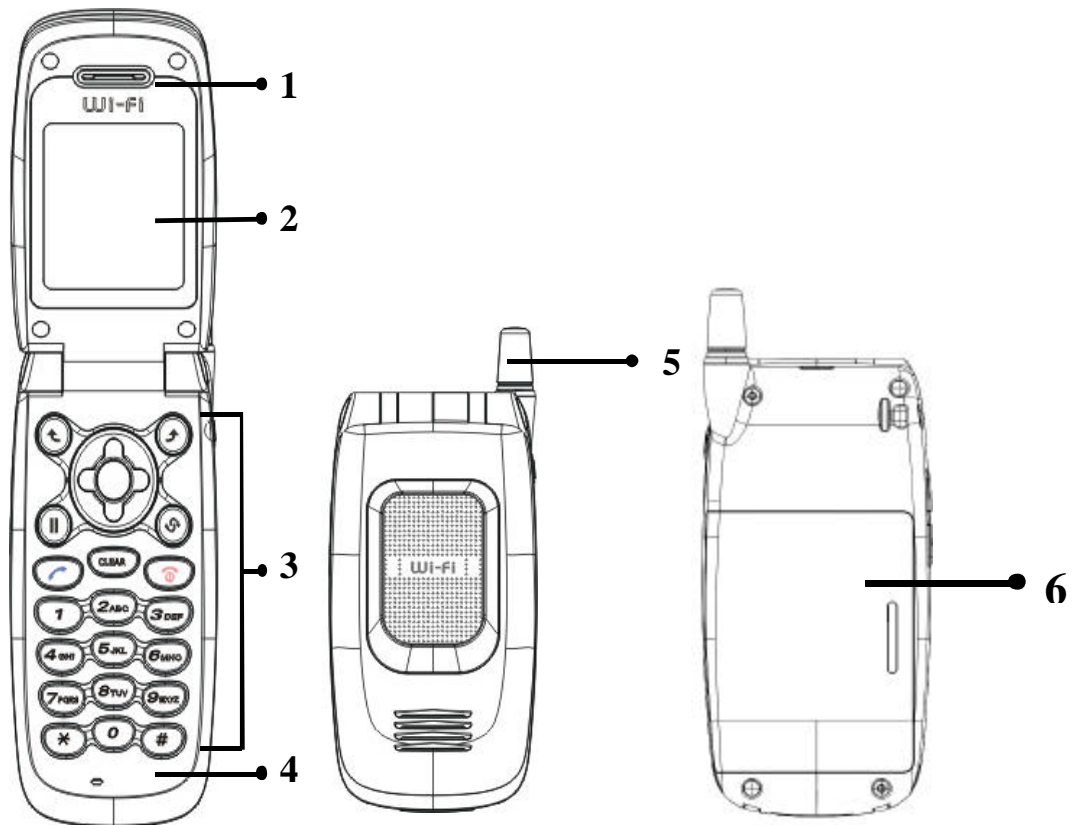
1.11 Care and Maintenance

- Keep your phone and accessories away from dusty, wet or dirty areas.
- Don't put your phone or accessories in extremely hot or cold areas.
- Don't use harsh chemicals, cleaning solvents, or strong detergents to clean your phone or accessories.

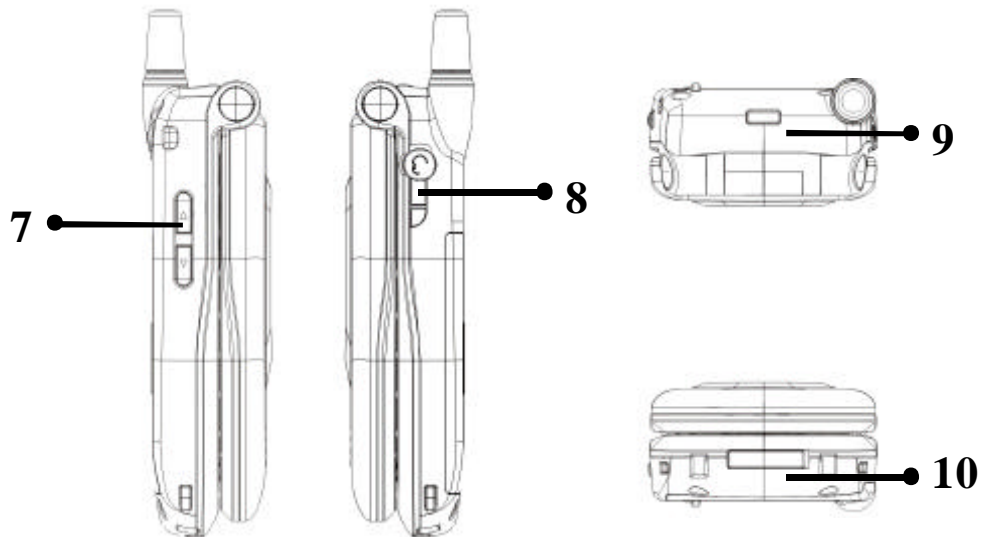
2

Phone Features

2.1 Overall Appearance



- | | | | |
|----|----------|----|------------|
| 1. | Earphone | 4. | Microphone |
| 2. | Screen | 5. | Antenna |
| 3. | Keypads | 6. | Battery |



7.	Volume adjustment keys	9.	Strap eyelet
8.	Earphone slot	10.	Data cable slot

2.2 Overall Features

- Pixel-based display - Intuitive access to calling features.
- Nine speed dials configurable in the set.
- Comfort noise generation (CNG), voice activity detection (VAD) and adaptive jitter buffer
- RF and battery level indication
- Local phone book
- External 2.4GHz antenna
- USB charger interface
- Multi-chords melody
- ABS+PC plastic housing
- Colorful LCM with backlight
- Simple keypad with backlight
- Remote FW upgrading via Wi-Fi
- Special keypads : Redial, Hold & Volume control
- SIP v2 signaling protocol, RFC-3261
- POP3/SMTP E-mail access
- SMS (optional, by system default)
- Enhanced security based on WEP/WPA/WPA2 (to be supported)
- Support WMM for QoS operation
- Embedded Site-Survey to ease WLAN search

2.3 Product Specification

Item	Description
CPU	➤ BCM1160
Flash Memory	➤ NOR 16MB
SRAM Memory	➤ 12MB
Wireless LAN Standard Compliance	➤ IEEE802.11b/g 2.4GHz
Wireless Frequency Range	➤ 2.400~2.4835GHz
Output Power	➤ Max. 13dBm @802.11g ➤ Max. 17dBm @802.11b
Data Transmission Rate	➤ 1, 2, 5.5, 11Mbps up to 54Mbps
WLAN Network Architecture Type	➤ Infrastructure
Operation Distance	➤ Indoor: 20~50m ➤ Outdoor: ~250m (@11Mbps, in light of sight area)
Channel Support	USA:(1~11)
Modulation Technology	➤ DSSS ➤ OFDM
LCD	➤ 1.8" Colorful LCD, 128x160 pixel, 65k colors
Antenna Type	➤ External antenna
Battery	➤ Li-ion 900 mAh
Dimension	➤ 112.9mm (L) x 48.7mm (W) x 27.3mm (H)
Weight	➤ Approx. 106g

2.4 WLAN Application

Place a Call via “SIP Proxy Server”

Use your new Wi-Fi phone to make and receive VoIP telephone calls when you are within range of a wireless Internet Telephony Service Provider (ITSP). You do not need to know if the recipient's connection type is an IP, cellular or landline based service. Your Wi-Fi phone can call any landline or mobile telephone that a traditional PSTN telephone can connect to as well as the IP telephone network. Calls received from IP telephones works exactly as you would expect from the traditional telephone service.

- Your Wi-Fi phone registers with a SIP proxy server in the following circumstances:
 - Your connection uses an IP Telephony Service.
 - Your connection is based in a corporate VoIP environment.

3

Learning to Use Your Phone

3.1 Using the Icons



Icon	Description
	Signal Strength Indicates the received signal strength. The greater the number of bars, the better the signal
	Message When you have received new messages.
	In Call / Call Forward When you are on the phone or forward the call.
	Network Encryption When you have set for network encryption.
	SIP Registered/ Not Registered When you have (not) registered to SIP server.
	Ring Mode (Silent/Ring/Vibrate/Ring+Vibrate) Details refer to chapter 4.4 Setting a Ring Mode.
	Alarm Pops up when you set an alarm to ring at a specified time.
	Battery Level Indicates the level of the battery. The more bars you see, the more power you have remaining.

3.2 Entering Text


3.2.1 English Mode

- When inputting the text in English, press the key labeled with the character you prefer:
 - Once for the first character;
 - Twice for the second character and so on...This method is so-called Multi-tap typing.

For example, you have to press the **5** key twice display the character “**K**”, the **3** key five times to display the character “**e**” and the **6** key five times again to display “**n**”.

- The cursor moves to the right when you press a different key. When entering the same letter twice or a different letter on the same key, just wait for a few seconds for the cursor to move to the right automatically, and then select the next letter.
- You can insert a space between words/letters by pressing the **0** key.
- Refer to the chart below for detailed information about the characters available:

Key	Characters in the Order Displayed
0	space
1	" ' [] < > () { }
2	ABCabc
3	DEFdef
4	GHIghi
5	JKLjkl
6	MNOmno
7	PQRSpqrs
8	TUVtuv
9	WXYZwxyz
*	* . + - / , : ; = ? !
#	# @ \$ % & \ ^ _ ` ~

- Clearing Letters and Words:
To delete letters, press the  **Clear** key.

3.2.2 Using Numeric Mode

- Numeric mode enables you to input numbers in your text, such as phone number. Press the keys accordingly to the digits you want before manually switching back to the appropriate text input mode.

3.2.3 Using IP Mode

Key	Characters in the Order Displayed
0-9	0-9
*	*

3.2.4 While Making a Call

Key	Characters in the Order Displayed
0	0, + (press and hold)
1-9	1-9
*	*
#	#

3.3 LED Indicators

LED Indicator	Status	Description
Lighting seven colors	Continuously rotating	When receiving an incoming call
Blue	Blinking	When there is an unanswered call When a new e-mail is received
Red	Blinking	When the phone is powered on and the battery is charging
	Solid	When the phone is powered off and the battery is charging
Green	Blinking	When the phone is powered on and the battery is fully charged
	Solid	When the phone is powered off and the battery is fully charged
Magenta	Blinking	Acts as a warning message, indicating that the battery is in low level

3.4 Checking the Status

- You can always check your phone's connection status (Wireless and SIP phone) by using this option.

- Press  **Status**:

<i>Phone Status</i>	
Wireless	You can view the following information: BSSID, IP Address and MAC Address.
SIP Phone	You will see the following information: SIP Server, User Agent and Status,






4

Setting Up Your Phone

4.1 Quick Ways to Set Up Your Wi-Fi Phone

■ **First Step:**

- ✓ It is required to set password for the profile. A pop-up message displays on the screen “**No Password! Please Create a New Password.**” After the profile’s password is set, you need to input the configured password to enter the profile menu.

1. Press  **Menu** and then press  to select **Profile**.
2. Input the profile’s password first.
3. Press  and select **SIP Account** and then press  **Option**.
4. Press  to **Edit**.
5. Six profiles can be set in this feature. Only one profile can be activated at a time. Adjust the following options as basic operations: (other adjustments are based on the requirements by each individual network provider.)
 - **Preview:** detailed information (Phone Number/Auth.ID/ SIP Domain/ Proxy Port/ Outbound Address/ Outbound Port/ Local Port/ Reg. Timer(sec)/ Codec/ Pkt Time(ms)/ OutBand DTMF) is listed.
 - **Phone Number:** numbers are given by the network provider. For example: 233.
 - **Auth. ID:** input your authorized user ID. For example: 233.
 - **Auth. Password:** input your authorized password.
 - **SIP Domain:** stands for Session Initiation Protocol domain name. The domain of the phone.
 - **Proxy Address:** the address of SIP server. For example: 192.168.0.1.
 - **Advanced:** The following options are indicated:

Proxy Port	The port number of SIP server.
Outbound Address	Outbound proxy address.
Outbound Port	Outbound proxy port.
Local Port	Local port number.

Reg. Timer(sec)	Registration refreshing interval.
Codec	Compressed audio format.
Pkt Time(ms)	Audio transmitting interval.
OutofBand DTMF	The working of out-of-band dual-tone multifrequency.

6. Press  **OK** to confirm your settings.

■ **Last Step:**

1. In Profile menu, after finishing SIP Account setting, access to **Network Profile**.

2. Press  **Option** to **Edit - Preview, Wireless Settings, IP Settings,**

Account Choice, Hotspot Choice and NAT Settings.


➤ **Preview:** detailed information (Wireless:Profile/ ESSID/ Data Rate/ Security/ Auto Detect; IP Settings:Status/ DHCP; SIP Account:Status; Hotspot:Status; NAT Settings:NAT Solution) is listed.

➤ **Wireless Setting:** The following options are indicated:

ESSID	Stands for Extended Service Set Identifier. By specifying the ESSID is how you make sure that you connect to your wireless network instead of your neighbors network by mistake. You can either manually input the New ESSID or select Site Survey to check the all available networks. For example: Default.
Data Rate	Select a specific data rate 1 Mb/s, 2 Mb/s, 5.5 Mb/s, 6 Mb/s, 9 Mb/s, 11 Mb/s or set as Auto .
Security	Act as your usage permission passport. This is an effective way to achieve data security. Your network provider should inform you about the authentication types for the access point encryption modes. Options for you to choose: ✓ Open; ✓ WEP (either select WEP-64 or WEP-128 bit) (Network dependent); Setting WEP as Security, you can define WEP Key Index from One to Four in Key Index . You can set WEP key to ensure data transmission from wireless access points in Key . ✓ WPA-PSK (either select WPA-PSK TKIP

	<p>automatically changes the keys at a preset time interval, making it much more difficult for hackers to find and exploit them or WPA-PSK AES as advanced encryption standard) (Network dependent);</p> <p>You can set key to ensure data transmission from wireless access points in Key.</p> <p>✓ WPA2-PSK (either select WPA2-PSK TKIP or WPA2-PSK AES) (Network dependent).;</p> <p>You can set key to ensure data transmission from wireless access points in Key.</p> <p>✓ WPA (either select WPA TKIP or WPA AES) (Network dependent)</p> <p>You can set EAP (MD5, GTC, MSCHAPv2, LEAP, TLS or TTLS), Identity, User Name, Password, CA Cert., User Cert. and Private Key.</p> <p>✓ or WPA2 (either select WPA2 TKIP or WPA2 AES) (Network dependent)</p> <p>You can set EAP (MD5, GTC, MSCHAPv2, LEAP, TLS or TTLS), Identity, User Name, Password, CA Cert., User Cert. and Private Key.</p>
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
➤ **IP Setting:** The following options are indicated:



Fixed IP	You need to input IP Address, IP Netmask, IP Gateway, Primary DNS and Secondary DNS.
DHCP	To activate press  Set .
PPPoE	Input User Name and Password .

➤ **Account Choice:** Press  **Select** to set the specific SIP Account.

➤ **Hotspot Choice:** Press  **Set** to select the specific Hotspot or Off.



➤ **NAT Settings:** Details please contact with your network service provider.

NAT Solution	Press  to select Disable , SIP PING or STUN .
NAT Timer	You can set from 0 to 65535 sec.
STUN Address	Consult the IP address with your network service provider.
STUN Port	Consult the Port number with your network service provider.

3. After finish setting - Wireless Setting, IP Settings, Account Choice, Hotspot Choice and NAT Settings, back to Profile Option select **Auto Detect** as **On**.
4. Back to Network Profile, all available profiles will be listed according to the signal strength with the displayed  icon. (If the profile is set as Auto Detect-**Off** then the displayed icon will be indicated as .

4.2 Storing Names and Numbers

- You can store or edit your friends' name and phone number information on your phonebook.
- 200 entries can be recorded in the Phonebook.

1. **Phonebook Option New.**
2. Press  **Select** to input the appropriate **Name, Number, E-mail, Ring Tone** and set the **Speed Dial**.
 - Scroll the input method by pressing the left soft key .
 - The selected text input method indicator shows at the left bottom of the screen. (English mode **ABC** or Numeric mode **123**).




3. After filling the details press  **OK** to confirm your settings.

4.3 Setting the Time and Date

- It is necessary to set the time and date to fully use your phone features.
- Set the **time**:



1. **Setting? Clock? Time.**

Press	To
0-9	Enter the time directly

	Scroll right or left to change hours/minutes/seconds
	Scroll up or down to change the time or to choose AM or PM
	Confirm your time setting




■ Set the **time format**:

1. **Setting? Clock? Time Format.**

Press	To
	Scroll up or down to choose 12-Hour or 24-Hour
	Confirm your time format setting

■ Set the **date**:

1. **Setting? Clock? Date.**

Press	To
0-9	Enter the date directly
	Scroll right or left to change years/months/days
	Scroll up or down to increase or decrease the date
	Confirm your date setting

4.4 Setting a Ring Mode

■ Your phone rings or vibrates to aware you of an incoming call or other event. This ring or vibration acts as an alert.

■ You can select 1 to 17 different melodies.

■ Set the **Ring Mode**:

1. **Setting? Sound Settings? Ring Mode.**

2. The following options are available:

- **Silent**: the phone neither rings nor vibrates.
- **Ring**: the phone rings using the selected ring melody.
- **Vibrate**: the phone vibrates but does not ring.
- **Ring + Vibrate**: the phone first rings and then starts to vibrate.




3. Press  **Set** to confirm your setting.

■ Set the **Ring Tone**:

1. **Setting? Sound Settings? Ring Tone.**



2. Press  to select **Melody**.




Press	To
	Scroll up or down to different ring melody
	Play the selected melody
	Set your ring tone melody

4.5 Setting a Wallpaper Image

■ You can set a picture as wallpaper image in your phone's standby screen.

■ There are five built-in pictures for you to change the background image.



1. **Setting? Display Setting? Wallpaper.**

Press	To
	Scroll up or down to different wallpaper
	View the selected wallpaper
	Set your background image

4.6 Setting the Display Contrast

■ You can adjust the **LCD Contrast** of the display screen to see it better in different coloring conditions.



1. **Setting? Display Settings? LCD Contrast.**

Press	To
	Increase or decrease the LCD color contrast level
	Set your display contrast level

4.7 Adjusting the Backlight

■ You can adjust the brightness of the display screen to see it better in different lighting conditions.

1. Setting? Display Settings? LCD Brightness.

Press	To
	Increase or decrease the LCD lighting level
	Set your display lighting level


5


Calling Features

5.1 Viewing Recent Calls

- Your phone keeps lists of the calls you recently received and dialed, even if the calls did not connect.

1. **Call Log** *Dialed Calls/ Received Calls.*


2. Press  **View** the name and/or the numbers, if available, display together, with the time and date when the call was received.

3. You can also redial the number by pressing the  key.


5.2 Returning an Unanswered Call


- This option lets you check the last phone calls you received, but did not answer.

- Your phone keeps a record of your missed calls, and displays:

- The  (missed call) indicator;
- **X Missed Calls**, where **X** is the number of unanswered calls.



1. **Call Log** *Missed Calls.*

2. Press  **View** the name and the numbers, if available, display together, with the time and date when the call was received.

3. You can also redial the number by pressing the  key.

5.3 Transferring a Call

- When you are on a call, you can announce that you are transferring an active call to another party, or you can directly transfer the call.

Press	To
	Put the call on Hold
Keypad keys and 	Dial the 3 rd party numbers and place a new call



While 3rd party is connected to execute transfer function.

5.4 Using the Call Mute



- When you are on a call, you can turn off your microphone so that the peer party will not hear your voice.

Press	To
	Switch between to hear or to mute caller's voice



5.5 Using Call Waiting

- When you are on a call, an alert tone sounds to indicate that you have received a second call.

1. **Settings** **Call Settings** **Call Waiting:**


2. Press  to select **On** and then press  **Set** to activate **Call Waiting** function.

3.

Press	To
	Answer the new call
Switch ()	Switch between the calls
 > End Call	End the call on talk

4. If **Call Waiting** is set as **Off**, then the second incoming call will be rejected. The alert tone will not be activated either.



5.6 Using Call Forwarding



- You can divert a call to another number, based on different conditions.
- When Call Forwarding is activated, an icon  will be displayed on the screen.
- To activate call forwarding function: there are four features that you can choose:

1. **Settings** **Call Settings** **Call Forward:**

- **Forward Number:** will transfer the call to the designated number under specified conditions.
- **Forward All:** will transfer all calls under any conditions.

- **No Answer:** will divert the call after 18 seconds when the call is unanswered.
- **Busy:** will transfer the call when then line is busy or the call is rejected.

2. Press  to select **On** and then press  **Set** to activate **Call Forward** function.

3. To deactivate the function, press  to select **Off** and press  **Back** to menu.

■ To deactivate call forwarding function:

1. **Setting Call Setting Call Forward**, choose **Cancel All** and press

 **Select.**

2. The Call Forward function is then set deactivated.


6










Menus



6.1 Main Menu

6.1.1 Phonebook






- This section helps you to use **Phonebook's features**.
- After storing entries in your Phonebook, you can search for them and view for details.
- The entries are listed according to alphabetical order. After finding the

appropriate name, press  **View** to check the details.

Feature	Description
Search	Phonebook Search Press  Option to Search and press  Select . You are asked to enter the name. Press  OK to find the appropriate entries.
Edit	Phonebook Edit Press  to scroll the list and then press  to Edit . You can either modify the name, number, e-mail, ring tone and/or speed dial. Press  OK to confirm your settings.
Delete	Phonebook Delete Press  to scroll the list and then press  to Delete . A pop-up message " Delete? " displays on the screen press  OK






	or  Back to cancel the deletion and return to the menu.
New	Phonebook New Press  Select to Preview and input the appropriate Name, Number, E-mail, Ring Tone and set the Speed Dial .





6.1.2 Call Log

Feature	Description
Missed Calls	Details refer to chapter 5.2 Returning an Unanswered Call. Call Log Missed Calls Press  Option and you can Save, Delete the Record or Delete All Missed calls.
Dialed Calls	Details refer to chapter 5.1 Viewing Recent Calls. Call Log Dialed Calls Press  Option and you can Save, Delete the Record or Delete All Dialed calls.
Received Calls	Details refer to chapter 5.1 Viewing Recent Calls. Call Log Received Calls Press  Option and you can Save, Delete the Record or Delete All Received calls.
Delete All	You can remove all records (missed, dialed and received) from the Call Log, Call Log Delete All A pop-up message " Delete All? " displays on the screen press  OK or  Back to cancel the deletion and return to the menu.

6.1.3 E-mail



- Using the Mail-feature, you can receive or send messages instantly.
- Receiving or Sending e-mails are based on POP3 and SMTP system design.
- To use this feature you are required to have an e-mail account (a specific username and password) from your e-mail service provider.
- The maximum storage size is 500 mails for Inbox, Outbox and Draft all together.
- Before an e-mail account is configured, entering the **E-mail** menu will directly guide you to enter **Account Setting**.
- To save power consumption, the phone does not automatically scan mails in mailboxes.



Feature	Description
Write New	<p>Writing new mails, you can Preview the subject, recipients and content; fill in the Subject, add the Recipients (either Input Address directly or Add By the Phonebook), write the Content, and then you can either Save To Draft or Send the Mail.</p> <p>While editing, press  to switch the input method (ABC or 0-9).</p>
Receive	<p>A pop-up message "Receive Mails?" indicates on the screen, press  OK then you can receive new mails.</p>
Inbox	<p>This menu allows you to access your e-mail Invox and read the e-mail messages you've received.</p> <p>Press  to the mail you want to read and then press  View . Details (From, Date, Recipients, Subject and Content) are indicated.</p> <p>Press  Option you can also Reply, Reply with Log (reply with the original content), Forward (either Preview the detail, read the Subject, set the Recipients, write the Content, Save To Draft or Send Mail) or Delete the mail or Clear all mails in the Inbox.</p>
Outbox	When you enter this option, the list of the e-mail messages

	<p>you've sent are displayed on the screen.</p> <p>Press  to the mail you want to read and then press  View . Details (From, Date, Recipients and Subject) are indicated.</p> <p>You can also Forward (either Preview the detail, read the Subject, set the Recipients, write the Content, Save To Draft or Send Mail) or Delete the mail or Clear all mails in the Outbox.</p>
Draft	<p>In this menu, you can retrieve e-mail messages you saved. When you select this menu, the list of the e-mail messages you saved in the draft displays.</p> <p>Press  to the mail you want to read and then press  View . Details (From, Date, Recipients and Contents) are indicated.</p> <p>You can also Edit (either Preview the detail, read the Subject, set the Recipients, write the Content, Save To Draft or Send Mail) or Delete the mail or Clear all mails in the Draft.</p>
Account Setting	<p>Mail Account Setting</p> <p>The following options are available:</p> <p>Account Name: enter a name for the activated account.</p> <p>Your Name: enter the name to be displayed as the sender name.</p> <p>Mail Address: enter your e-mail address.</p> <p>Reply Address: can be either in English or IP address.</p> <p>POP3 Address.: enter your e-mail address.</p> <p>POP3 Port: provided by your network service provider. (default: 110)</p> <p>POP3 User ID: enter your e-mail ID.</p> <p>SMTP Address.: enter your e-mail address.</p> <p>SMTP Port: provided by your network service provider. (default: 25)</p> <p>SMTP User ID.: enter your e-mail ID.</p> <p>Signature: enter your signature according to your preference.</p> <p>Reserve Mail: you can store your mails on the server</p>

6.1.4 Speed Dial






- There are two ways to set **Speed Dial**, either through **Phonebook** menu or by **Speed Dial** menu.
- Each entry you saved in your phonebook can be assigned as a unique **speed dial** number (1-9) in phone memory.

<i>Feature</i>	<i>Description</i>
Phonebook	<p>Select the entry to which you want to assign the speed dialing number. Press  Option to set the key from the Phonebook Edit Speed Dial.</p> <p>Set the speed dial key from the 1 to 9 key, and press  Set the key.</p>

<i>Feature</i>	<i>Description</i>
Speed Dial	<p>Select the key to which you want to assign the speed dialing number. Press  Option and entries recorded in the Phonebook is listed.</p> <p>Set the speed dial key from the 1 to 9 key, and press  Set the key.</p>



6.1.5 Profile







<i>Feature</i>	<i>Description</i>
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Network Profile	Details refer to chapter 4.1 Quick Ways to Set Up Your Wi-Fi Phone.
SIP Account	Details refer to chapter 4.1 Quick Ways to Set Up Your Wi-Fi Phone.
Roaming	<p>Profile Roaming</p> <p>Roam Metric (you can set from 0 to -99). Roam Delta (you can set from 0 to 99). Nprobes (you can set from 100 to 1). Active Time (you can set from 1000 to 1). Home Time (you can set from 1000 to 1).</p>
Profile Password	<p>Profile Profile Password</p> <p>You can change your profile password. Input first the “Old Password” and then input “New Password”, press  OK the new password is set.</p>
Hotspot	<p>Profile Hotspot</p> <p>Press  to select one of five hotspots and then press  Set to confirm your choice.</p>
Secure Setup	<p>Profile Secure Setup</p> <p>Press  Yes to activate SES (security easy setup) or  Back to menu.</p>










6.1.6 Settings






- This section helps you to use Settings’ features.





Feature	Description
Language	<p>You can set the display language: English, Chinese (Trad.) (optional), Chinese (Simp.) (optional) and Japanese (optional). Settings Language</p> <p>Press  Set to confirm your setting or press  Back to menu.</p>
Clock	Settings Clock

	<p>There are six options offered in Clock menu:</p> <ul style="list-style-type: none"> ● <u>Time:</u> This option enables you to adjust the current time. Settings Clock Time <p>Press  and input the appropriate time with numeric keys.</p> <p>Press  OK to confirm your setting or press  Back to menu.</p> <ul style="list-style-type: none"> ● <u>Date:</u> This option enables you to adjust the current date. Settings Clock Date <p>Press  and input the appropriate date with numeric keys.</p> <p>Press  OK to confirm your setting or press  Back to menu.</p> <ul style="list-style-type: none"> ● <u>Time Format:</u> You can set the desired display format (12-Hour or 24-Hour) for the time. Settings Clock Time Format <p>If 12-Hour is set as Time Format, the correspondent format (AM/PM) indicates on the screen.</p> <ul style="list-style-type: none"> ● <u>Timezone:</u> You can set the timezone of your location to count the time difference when you travel around the world. Settings Clock Timezone <ul style="list-style-type: none"> ● <u>DaylightSavings:</u> You can set Off or On if the daylight savings time is needed (depend on different area). Settings Clock DaylightSavings <ul style="list-style-type: none"> ● <u>Network Time:</u> You can set Off or On for Network Time. Settings Clock Network Time <p>If the network time is set On, then Time Server is listed.</p>
Alarm Clock	<p>This option enables you to set the alarm to ring at a specific time. Settings Alarm Clock</p>

	<ul style="list-style-type: none"> ● <u>Alarm Time:</u>  Press  and input the appropriate time with numeric keys. Press  OK to confirm your setting. ● <u>Mode:</u>  Press  to activate the alarm clock Once, Daily or Weekly and then press  Set to confirm your setting. To cancel the alarm clock, select Off and then press  Set to confirm your setting. .
Call Settings	<p>Three options included in Call Settings:</p> <ul style="list-style-type: none"> ● <u>Call Waiting:</u> Details refer to chapter 5.5 Using Call Waiting. Settings Call Settings Call Waiting ● <u>Call Forward:</u> Details refer to chapter 5.6 Using Call Forwarding. Settings Call Settings Call Forward ● <u>Block Caller ID:</u> This feature allows you to hide your phone number to the calling party.  Press  to select On or Off to activate/deactivate this function. Settings Call Settings Block Caller ID. ● <u>Beep Notification:</u> This feature allows you to set Off or On for beep awareness at the 50 seconds for every 1 minute interval. Settings Call Settings Beep Notification.  Press  Set to confirm your setting. Or press  Back to the menu. ● <u>Hold Transfer:</u> This feature allows you to transfer your call via SIP server or DTMF Flash.


	<p>Press  to select SIP or DTMF Flash as setting your hold transfer preference.</p> <p>Settings Call Settings Hold Transfer.</p> <ul style="list-style-type: none"> ● Regional Tone: <p>This feature enables you to set specific call progressing tone.</p> <p>Press  to select North America or Japan as regional tone setting.</p> <p>Settings Call Settings Regional Tone.</p>
Speed Dial	<p>There are three options for you to choose: To Disable, to Ask or to Dial the speed dial.</p> <ul style="list-style-type: none"> ● Disable: deactivate the speed dial function. ● Ask: press and hold the numeric key (e.g 1) the screen will display the numbers and then press  to make the call. ● Dial: press and hold the numeric key (e.g 1) to make the call directly. <p>Settings Speed Dial</p>
Sound Settings	<p>Settings Sound Settings</p> <p>Four options included in Sound Settings:</p> <ul style="list-style-type: none"> ● Speaker Volume: <p>You can adjust the speaker volume by using 5-way navigation key.</p> <p>Settings Sound Settings Speaker Volume</p> <p>To level UP the volume, either press  or .</p> <p>To level DOWN the volume, either press  or .</p> <p>Press  OK to confirm your setting and then press  Back to menu.</p> <ul style="list-style-type: none"> ● Ring Tone: <p>You can select the preferred Melody and/or set the Ring Volume in Ring Tone menu.</p> <p>Settings Ring Tone Ring Volume</p>







	<p>To level UP the volume, either press  or .</p> <p>To level DOWN the volume, either press  or .</p> <ul style="list-style-type: none"> ● <u>Ring Mode:</u> Details refer to chapter 4.4 Setting a Ring Mode. Settings Ring Mode ● <u>Warning Tone:</u> <p>You can either turn On or Off for warning tone. Press  Set to confirm your setting.</p>
<p>Display Settings</p>	<p>Settings Display Settings</p> <p>Five options included in Display Settings:</p> <ul style="list-style-type: none"> ● <u>Wallpaper:</u> Details refer to chapter 4.5 Setting a Wallpaper Image. Settings Display Settings Wallpaper ● <u>Greeting:</u> This option enables you to set welcome words as greeting and to be displayed when the phone is powered on. Settings Display Settings Greeting *Text input method refer to chapter 3.2 Entering Text. ● <u>LCD Off Time:</u> You can select the period of time the LCD is on. The backlight turns on when you press a key and turns off when there is no activity for the specified time period. You can either select LCD off time as Always On, 15 Seconds or 30 Seconds. Settings Display Settings LCD Off Time ● <u>LCD Brightness:</u> Details refer to chapter 4.7 Adjusting the Backlight. Settings Display Settings LCD Brightness ● <u>LCD Contrast:</u> Details refer to chapter 4.6 Setting the Display Contrast. Settings Display Settings LCD Contrast ● <u>Config. Tip:</u> This feature facilitates you to view all the settings you've set. A small window indicates the value of each setting you've done.

	<p>Press  to select On or Off to activate/deactivate this function.</p> <p>Settings Display Settings Config. Tip</p>
Keypad	<p>Settings Keypad</p> <p>Three options included in Keypad:</p> <ul style="list-style-type: none"> ● Key Lock: Key lock is used to prevent unintentional pressing of keys. Settings Display Settings Keypad Lock <p>Press  OK to process the action or press  Back to the menu.</p> <ul style="list-style-type: none"> ● Key Tone: You can activate the tone that the phone sounds when you press a key. <p>To activate the key tone, press  to select Click Tone. To deactivate the key tone, select Tone Off.</p> <ul style="list-style-type: none"> ● Key Backlight: You can activate (set as On) the key backlight when you press a key.

6.1.7 Tools


- This section helps you to use **Tools' features**.

Feature	Description
Signal Quality	<p>This menu displays the status of current wireless connection, including ESSID, BSSID, Channel, Rate, RSSI, Noise and Security.</p> <p>Tools Signal Quality ESSID/ BSSID/ Channel/ Rate/ RSSI/ Noise/ Security</p>
Site Survey	<p>This menu lists all available networks. You can see all listed networks (sites)' information.</p> <p>Tools Site Survey</p> <p>*Press  Renew to rescan the networks.</p>

	<p>*Press  Detail to check the details.</p>
Statistics	<p>In this menu, you can check the following information: IP Statistics, RTP/RTCP, Encoding and Decoding. Tools Statistics</p> <p>*To refresh the information, press  to set Renew.</p>
Battery	<p>In this menu, you can see Charger Status and Voltage level. Tools Battery</p>
Ping	<p>In this menu, you can check the reaching status to a host network. Tools Ping</p>
Version	<p>In this menu, information of Bootcode, Firmware, Built Time and RAM Size are listed. Tools Version</p>
Back to Default	<p>You can either Clear the original data recorded in Phonebook, E-mail or Others. You can also remove All settings on your phone at once. A message (such as <i>Clear Phonebook & Speed Dial?</i>, <i>Clear E-mail?</i>, <i>Clear Others?</i>, <i>Clear All?</i>) pops up on the screen before the deleting. Press  OK to process the action or press  Back to the menu. Tools Back to Default</p>
Restart	<p>A message “Restart?” will pop up first. Press  OK to process the action or press  Back to the menu. Tools Restart</p>

7

Web Configuration

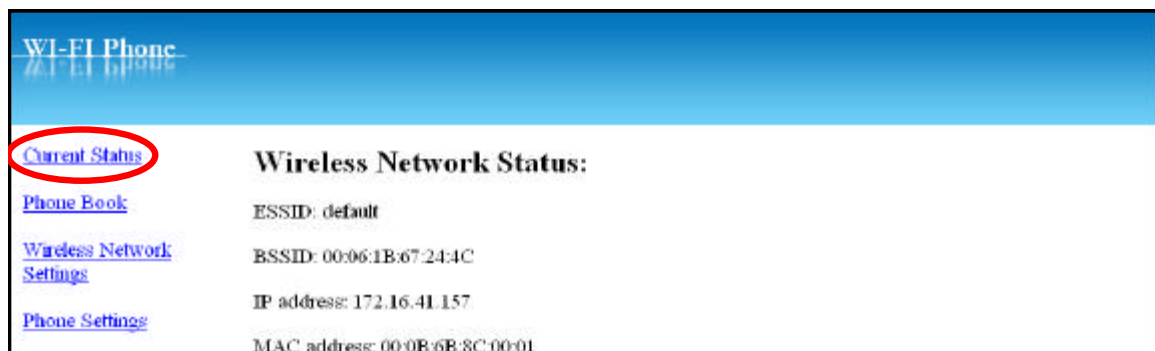
1. You can connect your PC to adjust the **Web Configuration**
2. In Standby, press  **Status** to view your Phone Status - **IP Address**. A connected IP address is indicated. For example: 172.16.140.174.
3. Enter the IP address in your Web browser http:// 172.16.140.174.

The following options are listed letting you configure:

Current Status, Phone Book, Wireless Network Settings, SIP Settings, Phone Settings, E-mail Settings, Upgrade Software, Upgrade Bootcode, Debug Statistics, Reboot Phone, Password and Logout.

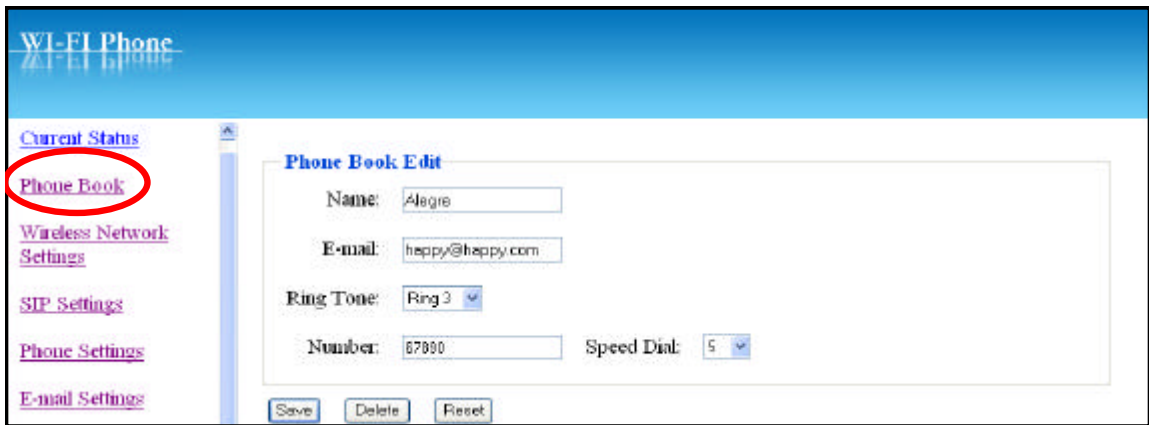
7.1 Checking Wireless Network Status

- By selecting **Current Status**, you will view the **Wireless Network** connecting **Status: ESSID, BSSID, IP address and MAC address** are indicated.



7.2 Phone Book

- Using **Phone Book** in Web Configuration, you can also add, store, edit or even remove all recorded list.
1. Select **New** and then input the **Name** (20 characters as max. length), **E-mail, Ring Tone, Number** and/or set the **Speed Dial** (1 to 9).
 2. After filling the details, you can either **Save, Delete, Cancel** or **Reset** the entry.

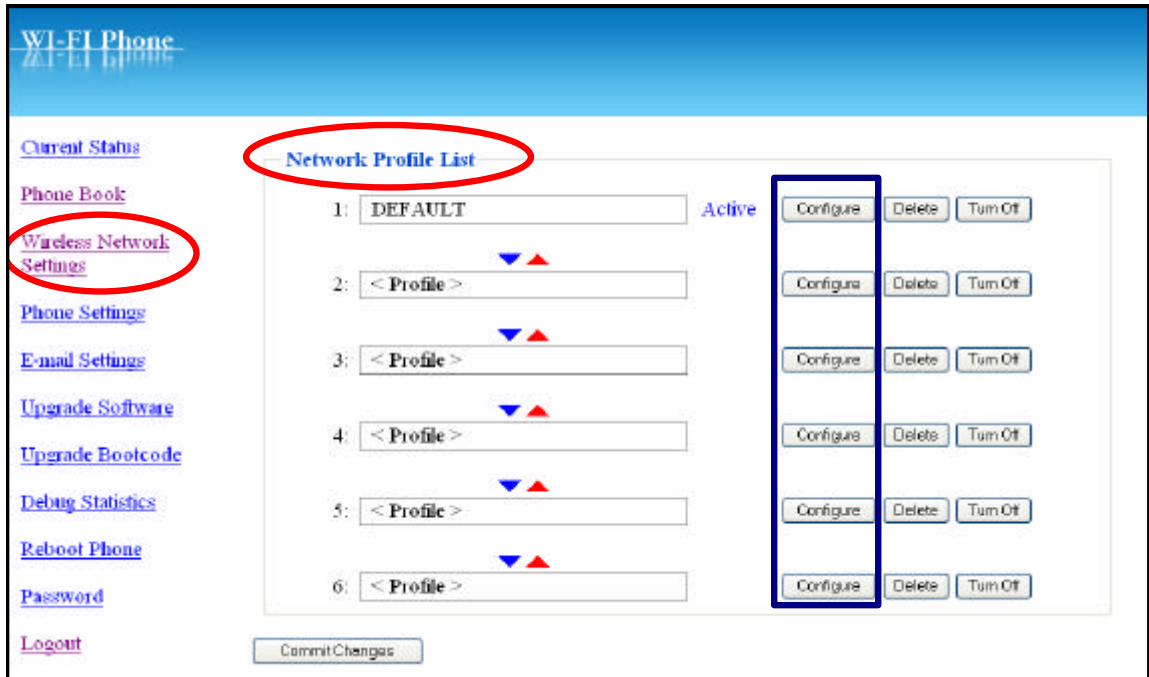


3. You can delete all the recorded entries by pressing **Clear All**.
4. A pop-up message “**Are you sure you want to clear all phone book?**” display on the screen.
5. Press **OK** to confirm your setting. All entries then are removed from the phone book.

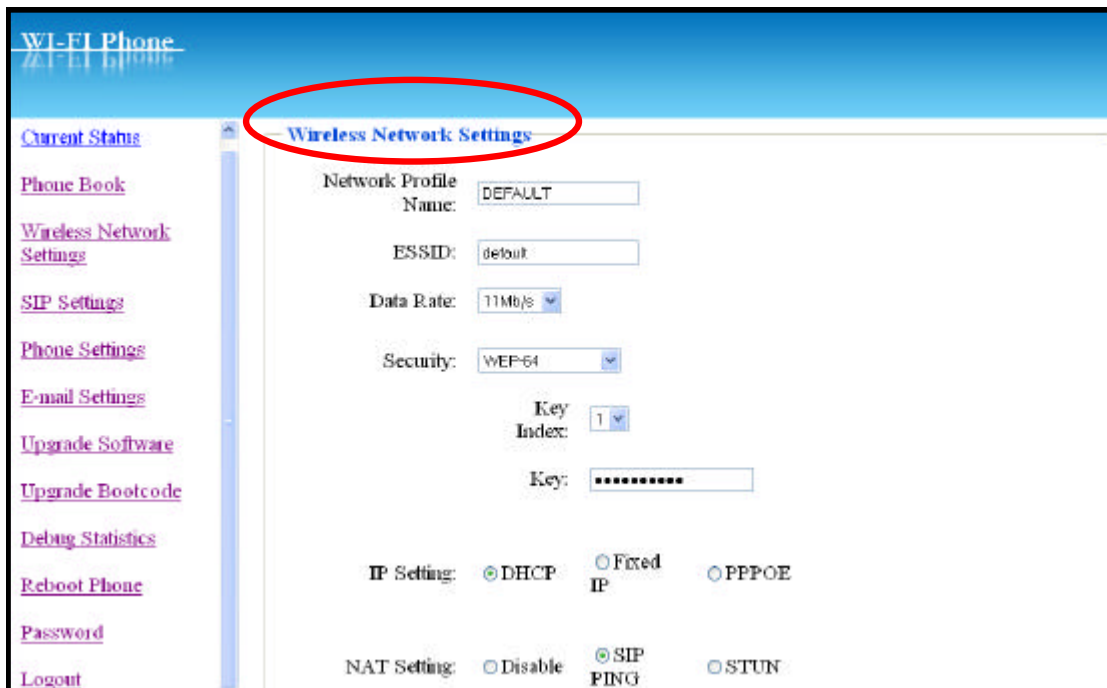


7.3 Wireless Network Settings

- Network Profile List will be firstly indicated on the page.



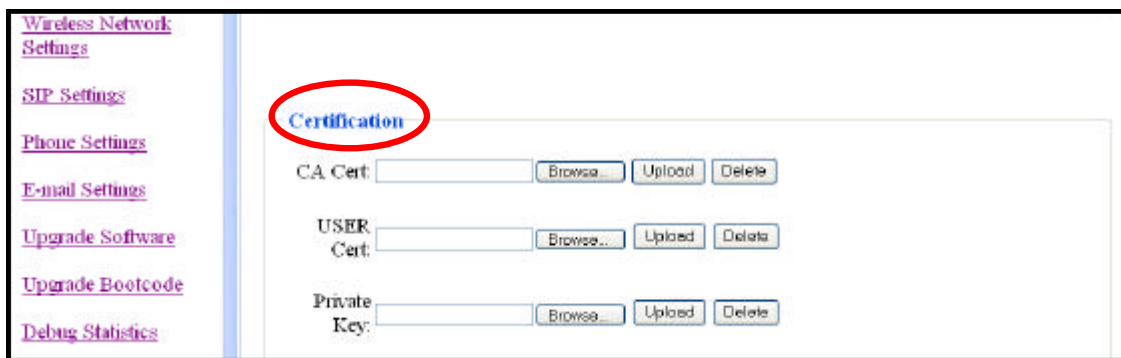
1. To adjust the profile, click **Configure** to enter the sub-menu.
2. Following options indicated:
 - ✓ **Wireless Network Settings:**



Network Profile Name	Input the network profile name.
ESSID	Details refer to p.16.

Data Rate	It can be either set as Auto, 1Mbps, 2Mbps, 5.5Mbps, 6Mbps, 9Mbps, 11Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps or 54Mbps.
Security	Options include: OPEN, WEP-64, WEP-128, WPA-PSK TKP, WPA, PSK AES, WPA2-PSK TKP, WPA2-PSK AES, WPA TKIP, WPA AES, WPA2 TKIP, WPA2 AES
IP Setting	You can either set DHCP, Fixed IP or PPPOE.
NAT Setting	You can either set Disable, SIP PING or STUN. You can also set NAT timer.

- ✓ **Certification:** You can view all information about Certification (CA Cert./ User Cert./ Private Key) in this section.

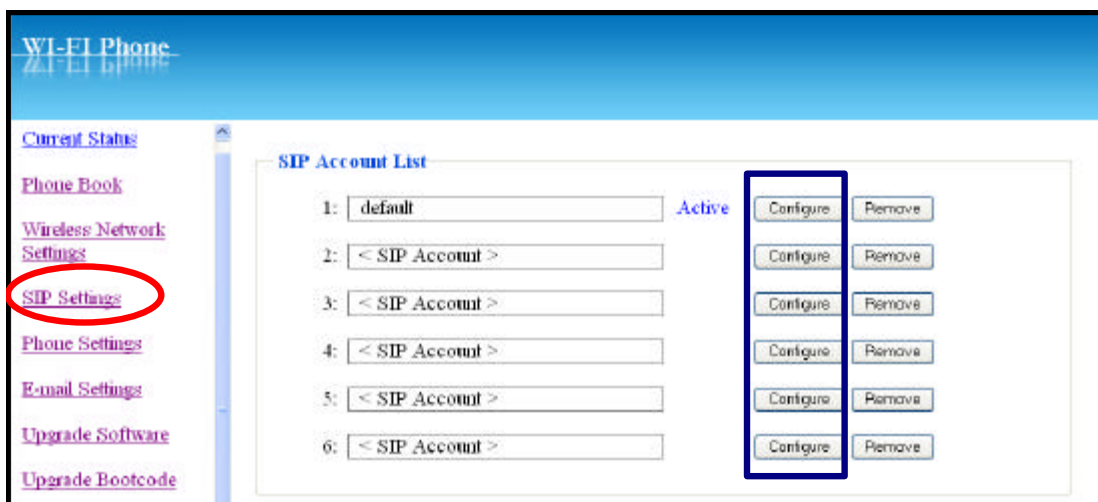


- ✓ **SIP Account Choice:**



SIP Account Choice	Default or None can be set.
---------------------------	-----------------------------

7.4 SIP Settings



1. You can edit the SIP account from the **SIP Account list** and press **Configure**.
2. The following options are indicated: **SIP Account Name, Phone Number, Authentication ID, Authentication Password, SIP Domain, Proxy Address, Outbound Address, Local Port, Register Timer(sec), Codec (Auto/G.711u/G.711a/ G129A), Pkt Time(ms)(Default, 20,30,40,50,60,70,80), OutofBand DTMF(Off/On)**.
3. Select **Save** to confirm your setting.
4. You can either **Cancel** or **Reset** the process.

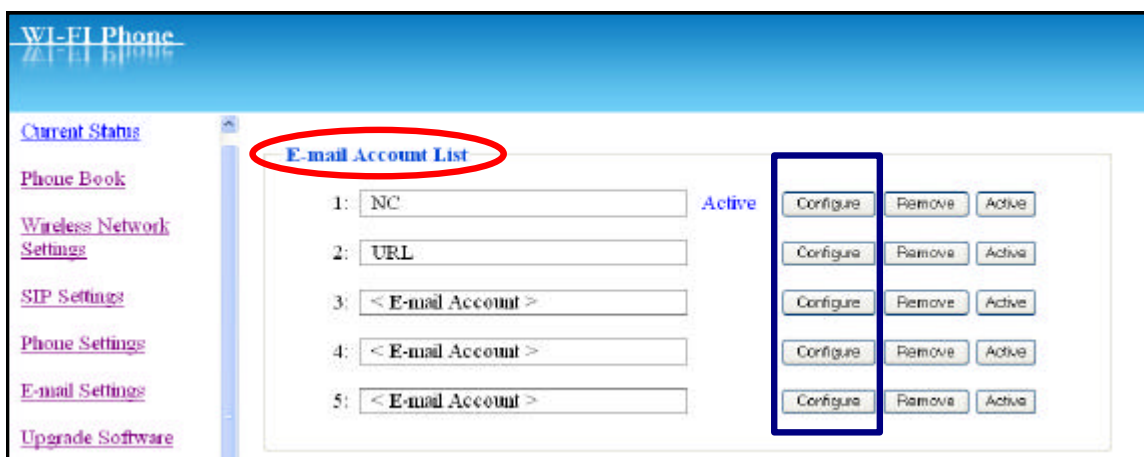
7.5 Phone Settings

- This section helps you to adjust your phone.
- The following options are listed:

Clock	Three options can be set: Time Zone, Daylight Savings and Network time . (details refer to p. 30)
Call Settings	You can set Call Waiting, Forward Number, No Answer, Block Caller ID, Beep Notification, Hold Transfer, Forward All, Busy, Refuse Private and Regional Tone in Call Settings. (details refer to p. 32)
Sound Settings	You can set Speaker Volume, Ring Volume, Warning Tone, Melody and Ring Mode in Sound Settings. (details refer to p. 33)
Display Settings	You can either set LCD Off Time or Wallpaper in Display Settings. (details refer to p. 34)

7.6 E-mail Settings

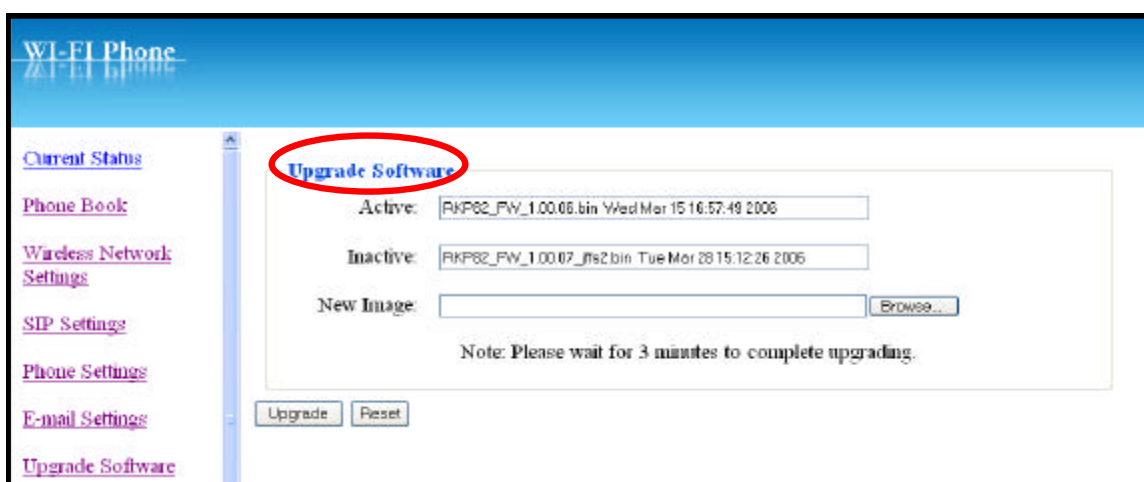
- This section helps you to adjust your e-mail account.



1. To adjust your e-mail account, click **Configure** to enter the sub-menu.
2. The following options are listed: Account Name, Your Name, Mail Address, POP3 Address, POP3 User ID, POP3 Password, POP3 Port, SMTP Address, SMTP User ID, SMTP Password, SMTP Port, Reply Address and Signature.
3. You can also **Remove** or set **Activate** to one of the five e-mail accounts.

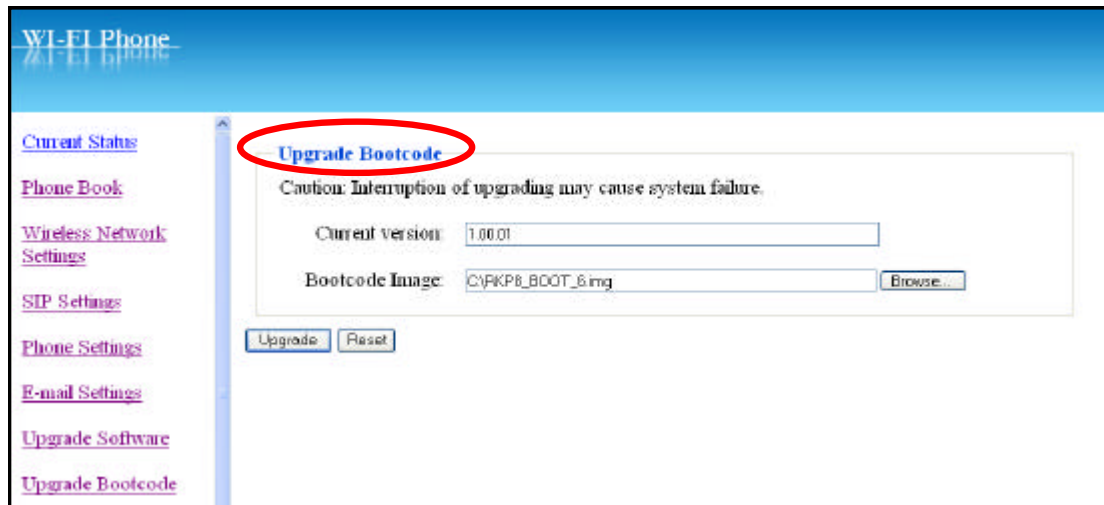
7.7 Upgrade Software

- This option enables you to upgrade your phone's software.



7.8 Upgrade Bootcode

- This option enables you to upgrade your phone's bootcode (starting system).

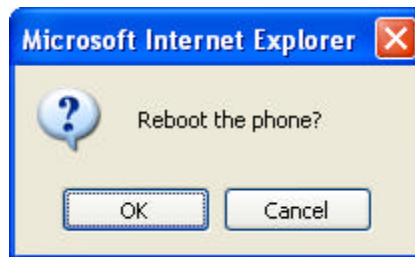
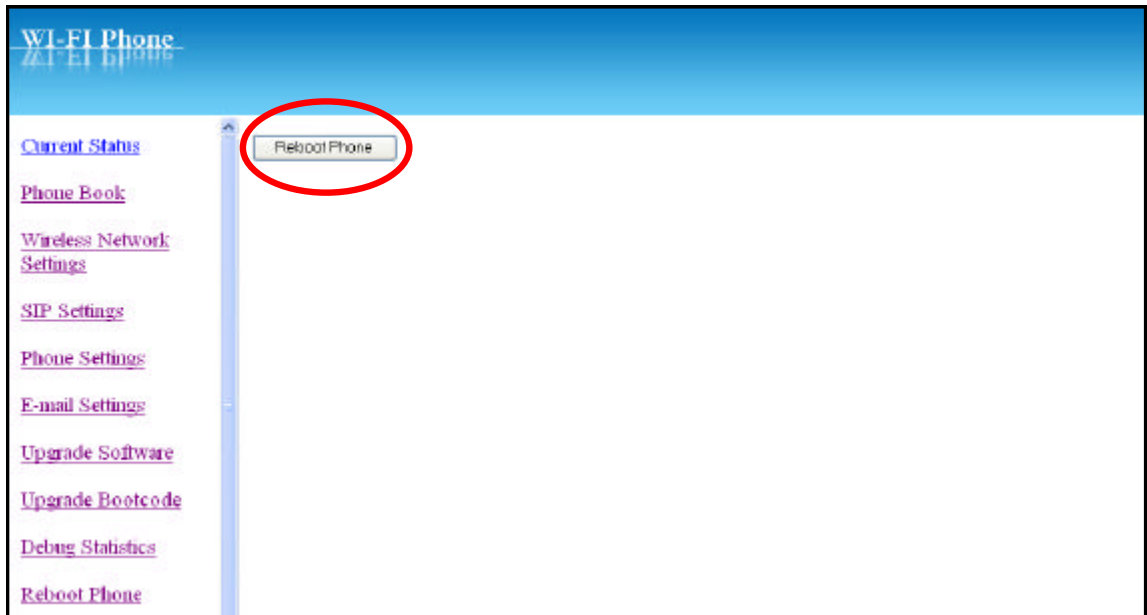


7.9 Debug Statistics

- Detailed information about Debug Statistics is all listed.
- Information includes: **Wireless Network Status** (ESSID, BSSID, IP address, MAC address), **WL Info** (rssi is, noise is, No scan in progress, current mac channel, target channel, Receive, Transmit), **RTP Stats** (igrRtpPkt, igrRtpByte, egrRtpByte, egrRtpCumLostPkt, egrRtpNoProfDiscPkt, igrRtpPkt, egrRtpJitter, igrRtpLatency), **PVE Stats** (peakHoldingTime, packetCount, addTailCount, reorderCount, overrunCount, duplicateCount, outOfRangeCount, tooLateCount, cantDecodeCount, ajcUnderrunCount, ajcDeleteCount, ajcRepeatCount, ajcResyncCount, ajcPhaseJitterCount, inactiveFrameCount, activeFrameCount, sidFrameCount, toneRelayCount) and **PVE State** (timer, expectedTimestamp, lastArrivalTime, lastArrTimeStamp, lastReleaseTimestamp, actualHoldTime, currentHoldTime, minHoldTimeTracker, masHoldTimeTracker, releaseBump, underrunDuration, actionPendingTimer, currentDec, timerLastArrival, currentEnc, currentEncPktTime, currentEncPktSize).

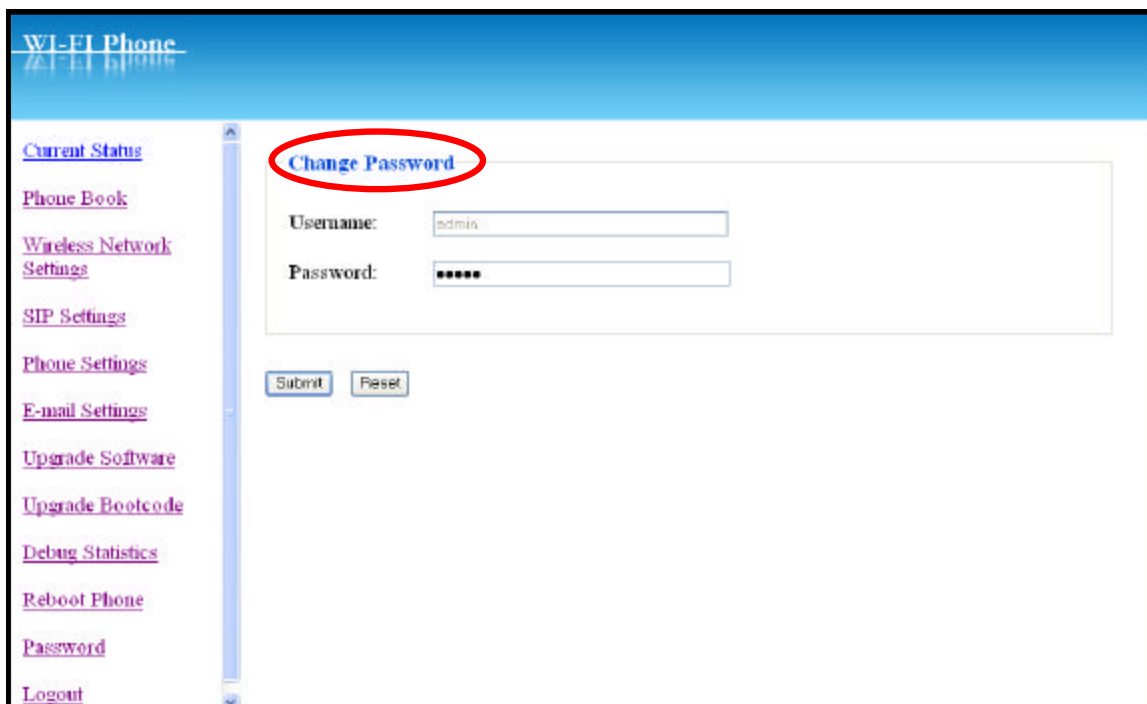
7.10 Reboot Phone

- After upgrading software it is necessary to re-power on the phone to activate all new settings.



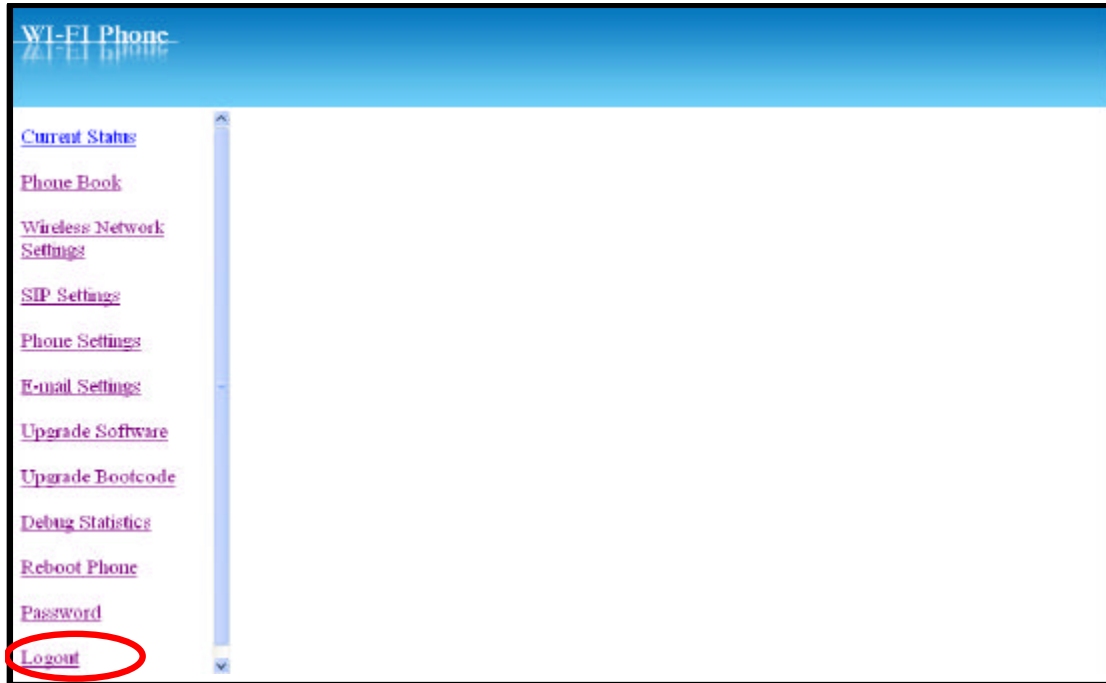
7.11 Password

You can change the original password by using this feature.



7.12 Logout

- To exit the web configuration, select Logout.



8

Troubleshooting

1. Unable To Register With The SIP Server

- Make sure the Internet and the SIP proxy server are reachable.
- Make sure the SIP account and the password are correct.

2. Which Codec Should I Choose

- As which codec choice is depending on what codec is supported on both end of the VoIP host. Generally a codec with low bandwidth consumption and high voice quality is a good codec.

3. How Good Is The Call Quality

- Technology advances in IP telephony transportation have made Internet calling as good as or better than normal PSTN connections. This is mostly effective for high speed Broadband connections, whereas dial up services have some way to go before delivering the quality of PSTN calling.

9

Federal Communication Commission Interference Statement

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 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.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this 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.

IMPORTANT NOTE: Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance. To maintain compliance

with FCC RF exposure compliance requirements, please avoid direct contact to the transmitting antenna during transmitting.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

We declare that the product is limited in CH1~CH11 by specified firmware controlled in the USA.