



802.11b/g Wi-Fi Phone

VIP-192

User's manual

Version 1.0.0

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CE mark Warning

The is a class B device, In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

WEEE Warning



To avoid the potential effects on the environment and human health as a result of the presence of hazardous substances in electrical and electronic equipment, end users of electrical and electronic equipment should understand the meaning of the crossed-out wheeled bin symbol. Do not dispose of WEEE as unsorted municipal waste and have to collect such WEEE separately.

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Revision

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Chapter 1

Introduction



Overview

Based on years of VoIP manufacturing experiences, PLANET Technology VoIP total solutions are known for advanced implementation of standards based telephony with mass deployment capability.

Cost-effective, high-quality wireless voice over IP (WVoIP) service, the portable WVoIP solution – 802.11b and g SIP Wi-Fi Phone – VIP-192, a mobile phone that unleash your voice communications free from wire.

The PLANET VIP-192 includes a large, full-color high resolution LCD screen menu or web browser intuitive user interface enabling users to easily and quickly configure the Wi-Fi Phone. The Wi-Fi Phone also supports several other convenient calling features including peer-to-peer dialing, SIP proxy dialing, speed dial, call waiting, call transfer, call forward provide the convenience and functional voice communications. Plus the call history, redial, mute, hold, retrieve, address book entries, caller ID numbers, SMS and e-mail functions for you doing the best work from where you choose.

Compatible with IEEE 802.11b/g wireless standard and developed to support open standard Session Initiation Protocol (SIPv2), the VIP-192 is ideal for the daily office communications. Combining PLANET Wireless Access Points devices is a perfect solution for Voice over Wireless applications. With Flexible support for the latest PLANET IP PBX systems and existing VoIP systems. It allows users to make or receive phone calls as long as they are in the coverage of 802.11b/g wireless environment to offer toll-quality voice communication services via the existing SIP-based call servers, and various VoIP client devices.

Product Features

- Cost effective, field proven compatibility, and stability
- IEEE 802.11 b/g compliant
- WEP, WPA, and WPA2 Encryption
- 1.8" color graphical display with backlight LCD
- Web-based and LCD menu machine configuration
- Calendar / Calculator / SMS / E-mail / Voice Mail support
- Standby time 70 hours in power save mode; talking time 4 hours

VoIP Features

- SIP 2.0 (RFC 3261) compliant
- SIP STUN Server /UPnP support

- Peer-to-Peer / SIP proxy calls
- Voice codec support: G711, G723.1, G.729a/b
- Caller ID Display / Redial / Built-in phone book
- Call Hold / Mute / Retrieve / Transfer / Waiting / Call Forward (Busy / No Answer / Unconditional)
- Voice processing: Voice Active Detection (VAD), Comfort noise generation (CNG), Acoustic Echo Cancellation (AEC), G.168, Jitter buffer

Package Content

The contents of your product should contain the following items:

- Wi-Fi phone
- Power adapter
- Li-Ion Battery
- Quick Installation Guide
- User's Manual CD

Physical Details

The following figure illustrates the front/rear and side view of IP Phone.

Front view and keypad function:



Figure 1. Front view of VIP-192

Keypad Definition



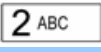
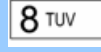

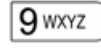



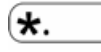
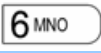
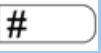
Key	Text Mode		Key	Text Mode	
	Normal (ABC)	Numeric (123)		Normal (ABC)	Numeric (123)
	1 [Space]	1		7 P Q R S p q r s	7
	2 A B C a b c	2		8 T U V t u v	8
	3 D E F d e f	3		9 W X Y Z w x y z	9
	4 G H I g h i	4		0 @ ! _ - () % & + / \$, :	0
	5 J K L j k l	5		. * +	. * +
	6 M N O m n o	6		#	#

Table 1. Keypad definition description of VIP-192

Rear view and parts definition:



Figure 2. Rear view of VIP-192

Side view and parts definition:



Figure 3. Side view of VIP-192

Normal Mode / Main Screen:

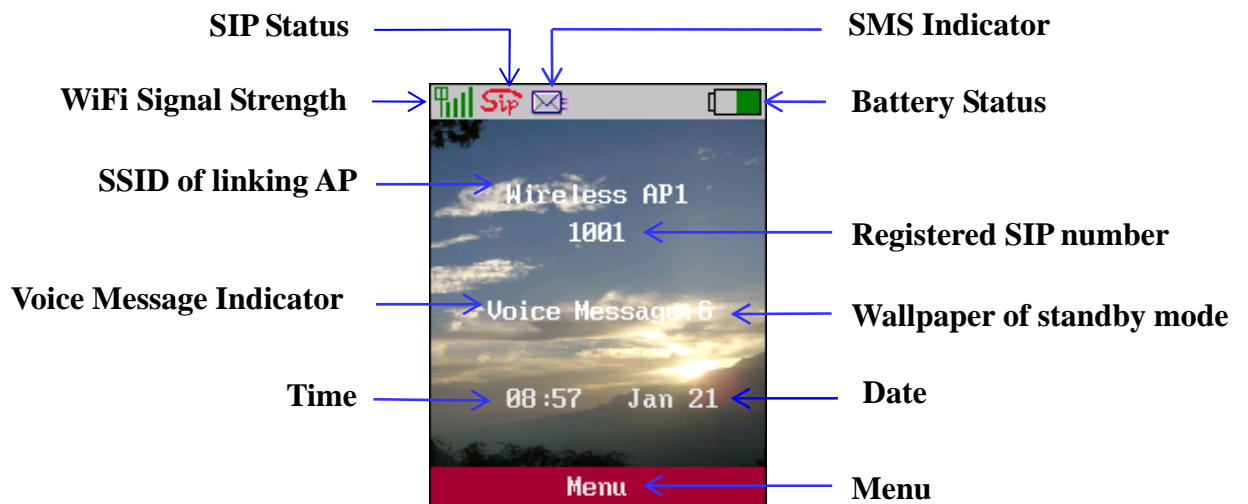


Figure 4. Main screen

Chapter 2

Preparations & Installation

Physical Installation Requirement

This chapter illustrates basic installation of Wi-Fi Phone

Administration Interface

PLANET Wi-Fi Phone has provides keypad and web methods for machine management and administration.

Installing the Battery:

To remove the battery cover and insert the battery then put the cover back to the Wi-Fi phone.



Figure 5. Mounted the battery view

Charging the Battery

The battery must be fitted in the phone before you connect to the adapter. ***Start to charge the phone at least 8 hours in first time use.*** About 4 ~ 5 hours charging after the first time usage.



Figure 6. Bottom view

Web Configuration access

To start Wi-Fi Phone web configuration, you must have one of these web browsers installed on computer for management

- Microsoft Internet Explorer 6.0 or higher with Java support

Default WLAN interface IP address of Wi-Fi Phone is **192.168.0.1**. You may now open your web browser, and insert **192.168.0.1** in the address bar of your web browser to logon Wi-Fi Phone web configuration page.

Wi-Fi Phone will prompt for logon username/password, please enter: **root / 1234** to continue machine administration.



Figure 7. Prompt screen of VIP-192

Note

Please locate your PC in the same network segment (192.168.0.x) of Wi-Fi Phone. If you're not familiar with TCP/IP, please refer to related chapter on user's manual CD or consult your network administrator for proper network configurations.










Menu Structure & Network Settings

Menu Structure

To enter the “**Main Menu**”, press the <middle button of soft key> or middle button of joystick in the wallpaper screen.



Figure 8. Main menu

<p>Phone Book</p>  <ol style="list-style-type: none"> 1. New 2. Browse 3. Delete All 4. Memory Status 	<p>Messaging</p>  <ol style="list-style-type: none"> 1. Voicemail 2. SMS 3. E-mail 	<p>Call Log</p>  <ol style="list-style-type: none"> 1. Missed 2. Dialed 3. Received 4. Delete
<p>Entertainment</p>  <ol style="list-style-type: none"> 1. JAVA Download 	<p>Network Settings</p>  <ol style="list-style-type: none"> 1. Network Config 2. Wireless 3. SIP 4. NAT 	<p>Application</p>  <ol style="list-style-type: none"> 1. Calendar 2. Calculator
<p>Phone Settings</p>  <ol style="list-style-type: none"> 1. Date & Time 2. Language 3. Backlight Level 4. Ring Volume 5. Voice Volume 	<p>Information</p>  <p>Page 1</p> <ol style="list-style-type: none"> 1. IP Address 2. Subnet Mask 3. Default Gateway 	<p>Call Function</p>  <ol style="list-style-type: none"> 1. Do Not Disturb 2. Call Waiting 3. Anonymous Call 4. Anonymous Reject 5. Call Forward

6. Alert Type 7. Wallpaper Management 8. Ringtone Management 9. Holdtone Management 10. Power Save 11. Change Password 12. Speed Dial	Page 2 1. AP 2. MAX Rate 3. Channel Page 3 1. SIP ID 2. MAC Address 3. Version	
---	---	--

Table 2. Menu structure

Network Settings

To enter the **Network Setting**, use joystick to locate [**Network Settings**] icon and press the <left soft key> **Select** to enter this sub-menu. The sub-menu provides four items: [**Network Config**], [**Wireless**], [**SIP**], and [**NAT**].



Figure 9. Main menu

Network Config

The system supports **DHCP** that allow assign both IP addresses automatically and manually under static IP. Please ensure the network environment range is set properly.

Move the highlight bar to [**Network Config**] and press the <left soft key> **Select** to enter the page. This page provides two items that are [**IP**] & [**DNS Setting**].

IP Settings

Move the highlight bar to [**IP**] and press the <left soft key> **Select** to enter this IP Setting menu. User can choose either [**DHCP**] or [**Static IP**]. User is able to setup manually by using joystick keys to

enter the column as user needs and insert the necessary data.

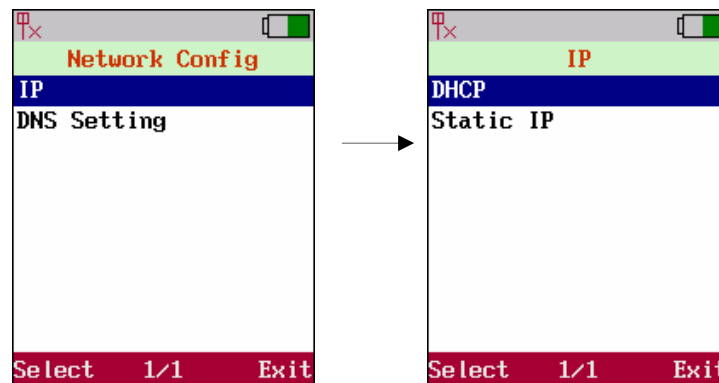


Figure 10. IP settings

1. DHCP

Use joystick to select either [**Enable**] or [**Disable**], select [**Enable**] the IP will be obtained automatically or user should setup IP manually by choosing [**Disable**] . Press <left soft key> **Ok** to save the configuration.

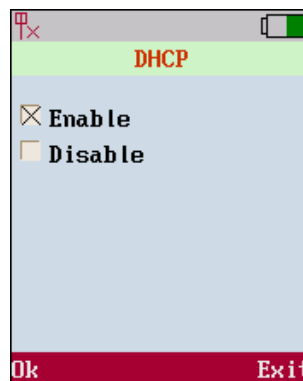


Figure 11. DHCP settings

2. Static IP

Get the information from the service provider before user enters data into the field. Use joystick to locate the column of field where user is going to input the data; also use <right soft key> **Clear** to clear data. Press <left soft key> **Ok** to save the configuration.

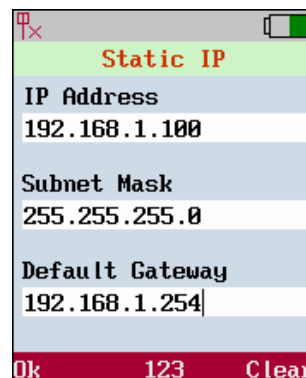


Figure 12. Static IP settings

DNS Settings

Move the highlight bar to [**DNS Setting**] and press the <left soft key> **Select** to enter the [**IP**] menu. There are [**Primary DNS**] and [**Secondary DNS**]. Use joystick to locate the column of field where user wish to input the data; use <right soft key> **Clear** to clear data. Press <left soft key> **Ok** to save the configuration.

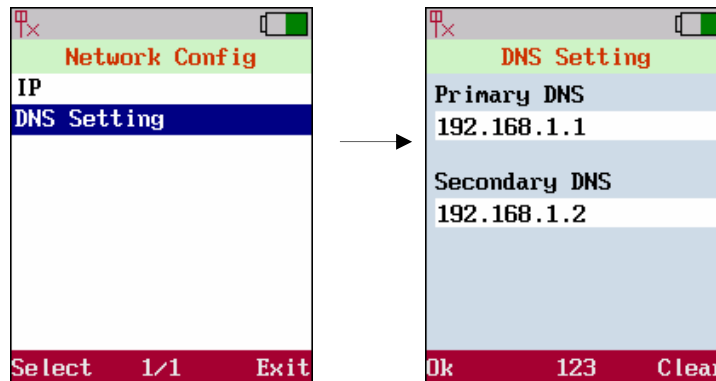


Figure 13. DNS settings

Wireless

Before user uses the WLAN phone, user needs to setup the AP which will be associated. In the wireless setup, user is able to modify the data of [**ESSID**] and [**Security**] by moving the highlight bar to [**Wireless**]. Press the <left soft key> **Select** to enter **Wireless Settings**.

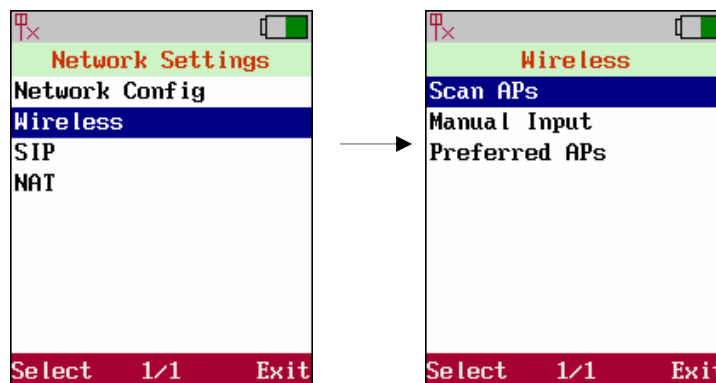


Figure 14. Wireless settings

Scan APs

To **Scan APs**, press the <left soft key> **Select** to scan available APs. It will list all the ESSIDs of available APs or show “**No AP found**” message in case there is no AP detected by the system. Move the highlight bar to the AP. User wish to link any dedicate AP and press the <left soft key> **Select**. It will pops-up a small window that lists [**Information**], [**Set as Preferred AP**] and [**Connect Now**].

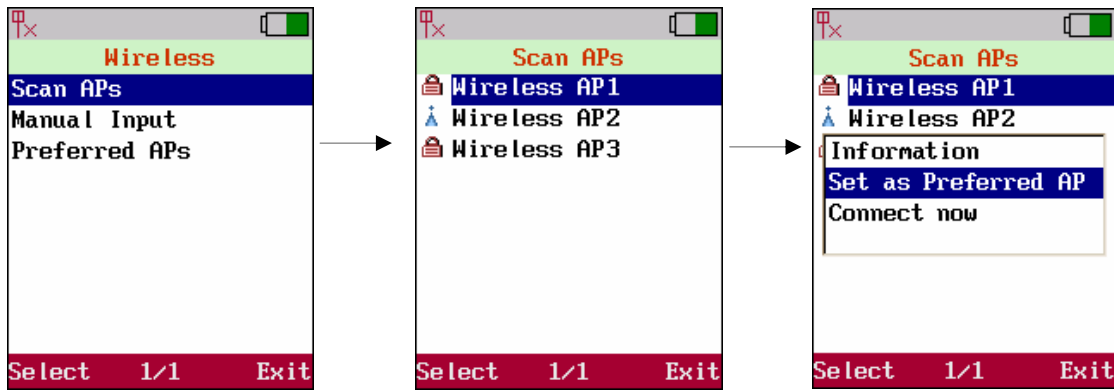


Figure 15. Scan APs

1. Information

List AP information of [ESSID], [MAC] and [Signal] .

- [ESSID] : It is the unique identification of the AP in the WLAN system and constructed by 2~32 characters.
- [MAC] : The MAC address of the AP.
- [Signal] : The strength of the signal (1~100; "100" is the maximum).

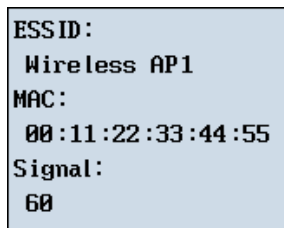


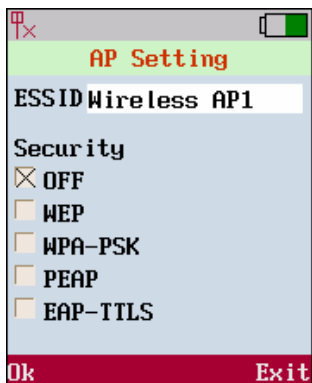
Figure 16. Information

2. Set as Preferred AP

Save the profile of the AP into Preferred APs, user may have several preferred APs. Repeat the steps of Scan APs to add more preferred APs.

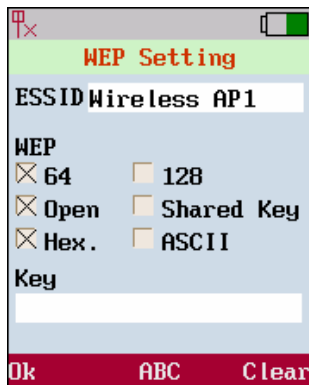
3. Connect now

Associate with the AP immediately. Once user selects the [Set as Preferred AP], it will show the AP Settings menu which contains two main item [ESSID] and [Security] .



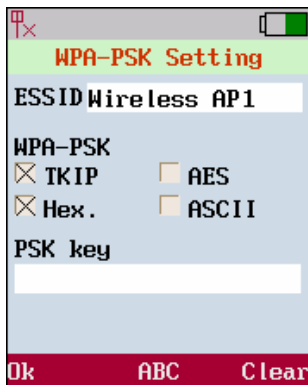
- ◆ **ESSID:** The unique ID of the AP in the WLAN system.
- ◆ **Security:** It supports five types of security: OFF, WEP, WPA-PSK, PEAP and EAP-TTLS.

The detail of the five types of security is as follows: ("OFF" → no security is required)



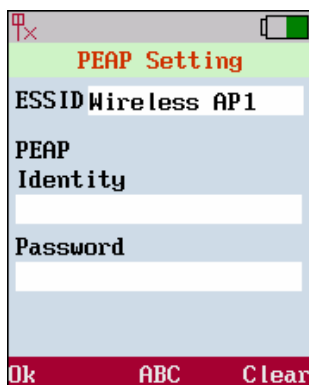
WEP (Wired Equivalent Privacy)

- ◆ **64-bit / 128-bit:** Two levels of WEP key, which can be 64 bits or 128 bits.
- ◆ **Open / Shared Key:**
 - **Open:** WEP key is used for encryption only.
 - **Shared Key:** WEP key is used for both authentication and encryption.
- ◆ **Hex / ASCII:**
 - **Hex:** It allows to input the digits of 0~9 and A~F, and the length of the WEP key must be 10 digits for 64-bit or 26 digits for 128-bit.
 - **ASCII:** It allows to input the characters in the ASCII system, and the length must be 5 characters for 64-bit or 13 characters for 128-bit.



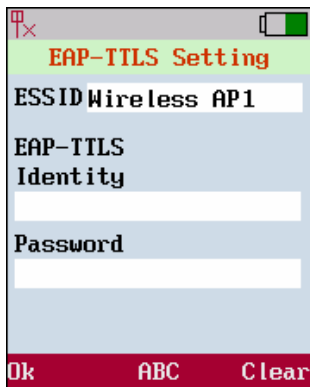
WPA-PSK (Pre Share Key)

- ◆ **TKIP / AES:** Two types of encryption protocol; the upgrade for WEP.
 - **TKIP:** Temporal Key Integrity Protocol.
 - **AES:** Advanced Encryption Standard.
- ◆ **Hex / ASCII:**
 - **Hex:** It allows to input total 64 digits of 0~9 and A~F.
 - **ASCII:** It allows to input 8~63 characters in the ASCII system.



PEAP (Protected EAP)

- ◆ **Identity:** The ID for authentication and allow 31 characters.
- ◆ **Password:** The password for authentication and allow 31 characters.



EAP-TTLS

- ◆ **Identity:** The ID for authentication and allow 31 characters.
- ◆ **Password:** The password for authentication and allow 31 characters.

Manual Input

Move the highlight bar to [**Manual Input**] and press the <left soft key> **Select** to setup AP manually.

1. Enter [**ESSID**] of the **AP** user wishes to link.(**ESSID:** Shows the name of linking AP and allows total 31 characters)
2. Move the cursor to setup [**Security**] length and type of authentication that user wishes to link. (Use navigation keys to turn on/off or set up this function.)
3. Press the <left soft key> **Ok** to store the settings.

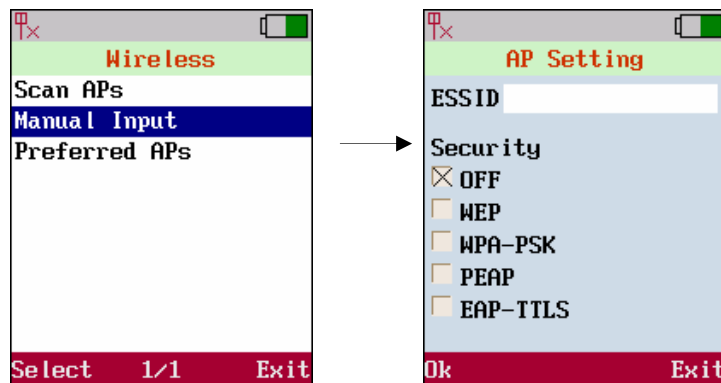


Figure 17. Manual input

Note

Wi-Fi Phone will automatically search for the available AP when it boots up at the first time.

Preferred APs

Move the highlight bar to [**Preferred APs**] and press the <left soft key> **Select** to select available APs.

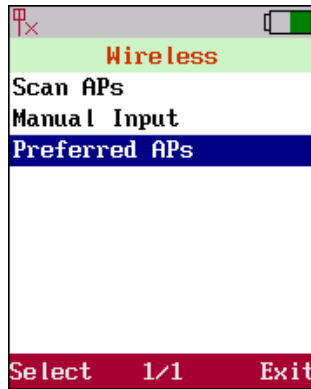


Figure 18. Preferred APs

Move the highlight bar to the AP to link and press the <left soft key> **Select**. It will pop-up a small window that lists **Setting** , **Delete** and **Connect now**)

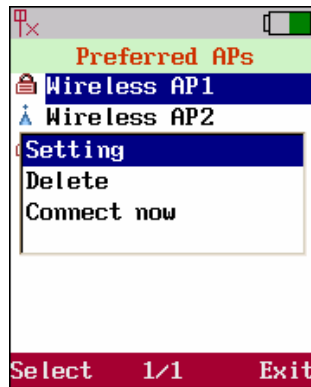


Figure 19. Setting

Move the highlight bar to **AP Setting**) and press the <left soft key> **Select** to setup **ESSID** , **Security**) of this preferred AP. Press the <left soft key> **Ok** to store the settings.

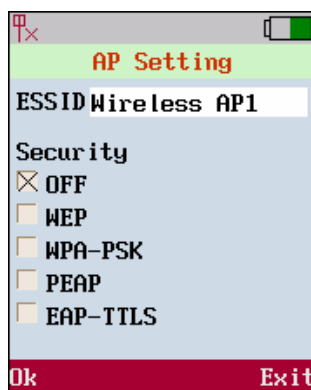


Figure 20. AP Setting

Move the highlight bar to **Delete**) and press the <left soft key> **Select** to delete AP from preferred APs list. **Connect now**) function means the AP which is selected and will start to be used for further access. The system will automatically scan for the available AP when it boots up at the first time.

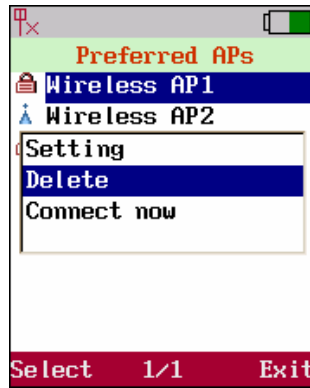


Figure 21. Delete

SIP Setting

Session Initiation Protocol (SIP) is the most popular Voice over IP standard. It enables two or more people to make phone calls, share multimedia and make multimedia conference over the internet.

Please have an administrator setup these settings or obtain this information from the SIP service provider.

Note

Please have an administrator setup these settings or obtain this information from the SIP service provider.

SIP setting define the SIP registrar address, SIP account and related SIP parameter. The SIP account information is required before user setup.

Note

User could contact the service provider (eg carrier or ITSP) to get the information.

Move the highlight bar to [**SIP**] and press the <left soft key> **Select** to enter **SIP Settings**. This page provides four items: [**SIP Account**], [**SIP Server**], [**Outbound Proxy**] and [**Phone Port**] .

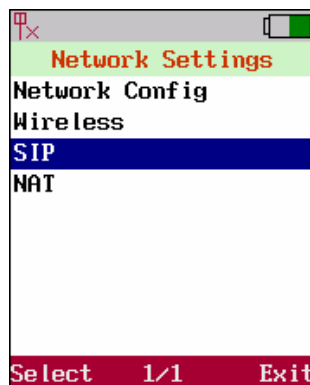


Figure 22. SIP setting

SIP Account

Move the highlight bar to [**SIP Account**] and press the <left soft key> **Select** to enter this **SIP Account** menu. Move cursor into the field of [**Display name**], [**User Name**], [**Authentication ID**] and [**Authentication Password**] for inputting data. Press the < left soft key> **Ok** to store the settings.

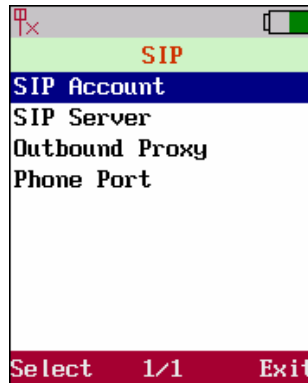


Figure 23. SIP account

SIP Server

Move the highlight bar to [**SIP Server**] and press the <left soft key> **Select** to enter this **SIP Server** menu. Move cursor into the field of [**Registrar Server**], [**Registrar Port**] and [**Expire Time**], for inputting data. Press the <left soft key> **Ok** to store the settings

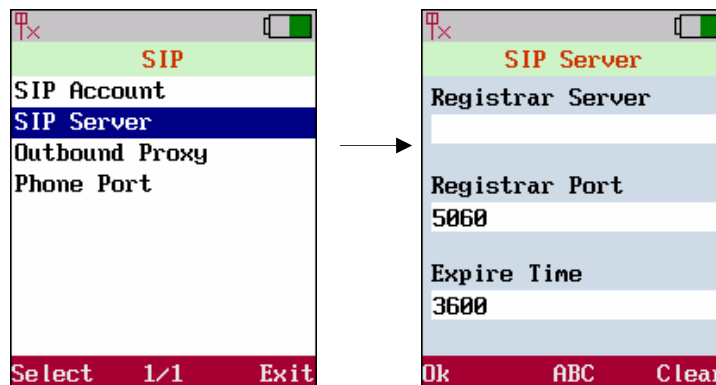


Figure 24. SIP server

Outbound Proxy

Move the highlight bar to [**Outbound Proxy**] and press the <left soft key> **Select** to enter this **Outbound Proxy** menu. Move cursor into the field of [**Proxy Server**] and [**Proxy Port**], for inputting data. Press the <left soft key> **Ok** to store the settings.

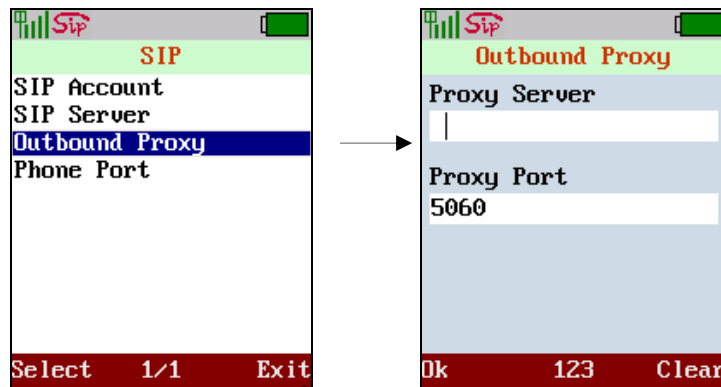


Figure 25. Outbound proxy

Phone Port

Move the highlight bar to [**Phone Port**] and press the <left soft key> **Select** to enter **Phone Port** menu. Move cursor into the field of [**Phone Port**] for inputting data. Press the <left soft key> **Ok** to store the settings.

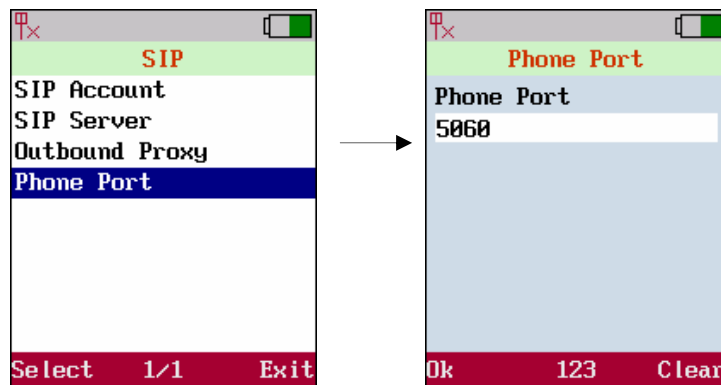


Figure 26. Phone port

NAT Setting

Enable [**STUN**] or [**UPnP**] to activate the NAT traversal function if this device is behind NAT mechanism. Ensure user NAT router support UPnP as well. Refer to the operation manual of user router for any further information.

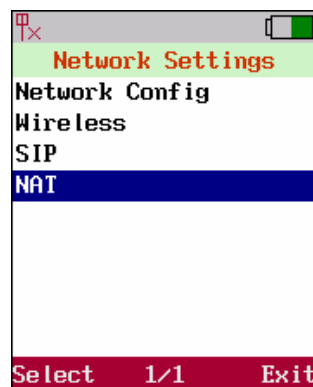


Figure 27. NAT setting

STUN & UPnP

Move the highlight bar to [NAT] and press the <left soft key> **Select** to enter NAT. Sub menu provides four items; [STUN & UPnP], [STUN Server], [Manual Config] and [NAT Keep Alive Time] .

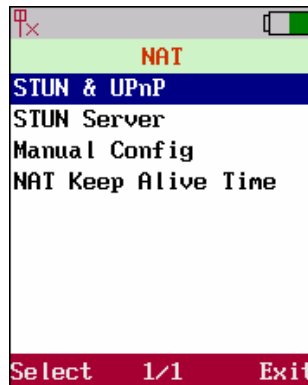


Figure 28. STUN & UPnP

Phone Port

Move the highlight bar to [STUN & UPnP] and press the <left soft key> **Select** to enter this [STUN & UPnP] setting menu. Move cursor to enable or disable [STUN & UPnP] function. Press the <left soft key> **Ok** to store the settings.

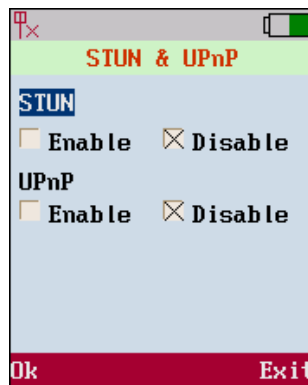


Figure 29. STUN & UPnP

STUN Server

Move the highlight bar to [STUN Server] and press the <left soft key> **Select** to enter this STUN Server menu. Move cursor into the field of [STUN Server] for entering STUN server IP address when enable [STUN server] . Please press the <left soft key> **Ok** to store the settings.

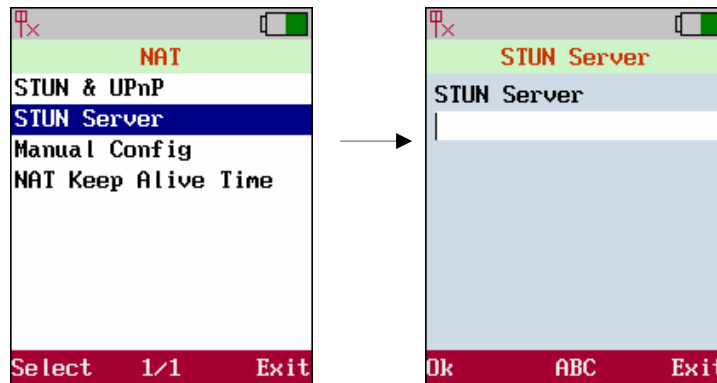


Figure 30. STUN server

Manual Config

Setup the external IP address manually. It has to be complied with the settings of virtual server of the NAT devices, if phone enables the configuration manually. Move the highlight bar to [**Manual Config**] and press the <left soft key> **Select** to enter this Manual Config menu. This page provides three items; [**User Define**] , [**External IP add**] and [**External Port**] .

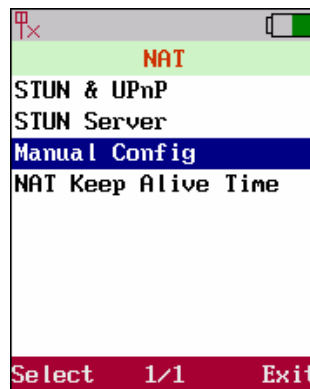


Figure 31. Manual config

1. User Define

Move the highlight bar to [**User Define**] and press the <left soft key> **Select** to enter this User Define menu. Move cursor to [**Enable**] or [**Disable**] User Define function. Press the <left soft key> **Ok** to store the settings.



Figure 32. User defined

2. External IP Address

Move the highlight bar to [**External IP address**] and press the left soft key **Select** to enter this External IP menu. Enter External IP. **1. Manual set. 2. Use Stun server to get External IP address. 3. Use UPnP to get External IP address.** Move cursor to setup the field of [**Manual Set**] or [**Use STUN**] or [**Use UPnP**]. Press the <left soft key> **Ok** to store the settings.

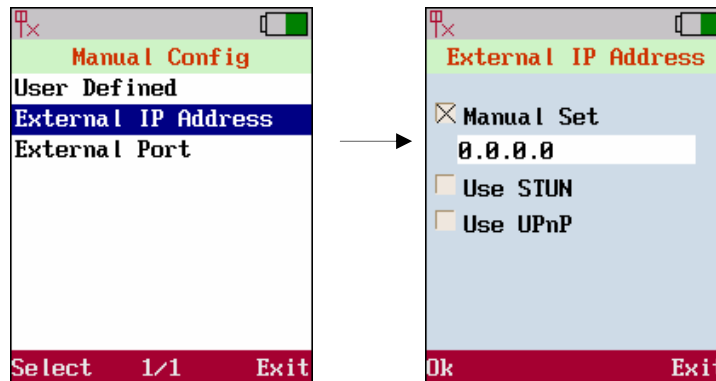


Figure 33. External IP address

3. External Port

Move the highlight bar to [**External Port**] and press the <left soft key> **Select** to enter this **External Port** Menu. Move cursor to setup the field of [**SIP**] and [**Media**]. Press the <left soft key> **Ok** to store the settings.

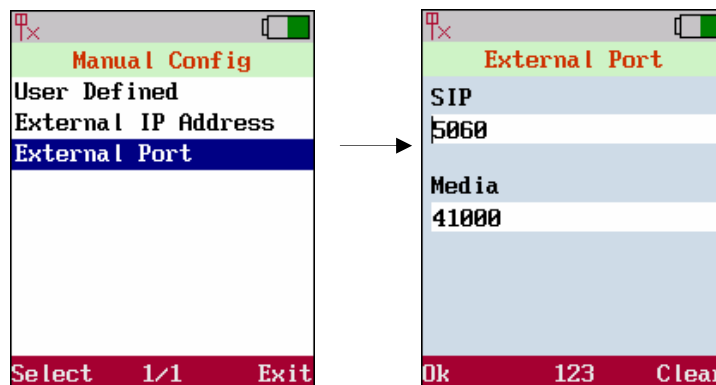


Figure 34. External port

NAT Keep Alive Time

Move the highlight bar to [**NAT KeepAlive Time**] and press the <left soft key> **Select** to enter this **NAT KeepAlive Time** menu. Move cursor to setup the field of [**Always Send**] and [**KeepAlive Time**]. Press the <left soft key> **Ok** to store the settings.

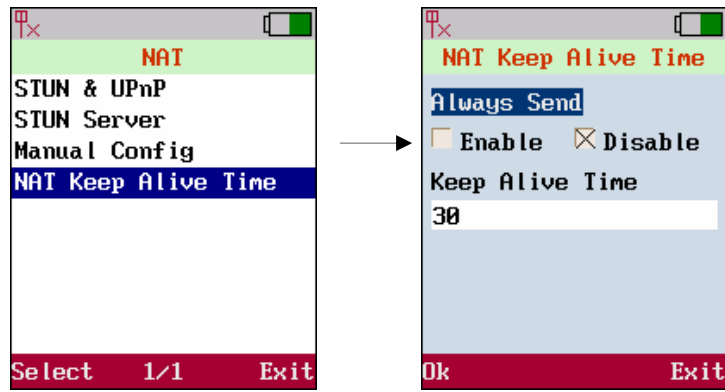


Figure 35. NAT keep alive time

Chapter 4

Phone book



Phone Book

Use the **Phonebook** menu to [**store**], [**browse**], [**edit**] and [**delete**] a person's name, Phone number and e-mail address. Enter the main menu and use joystick to locate [**Phonebook**] icon. Press the <left soft key> **Select** to enter Sub-Menu.



Figure 36. Phonebook

Create a New Contact

Move the highlight bar to [**New**] and press the left soft key **Select** to enter this **Phonebook** menu. Move cursor into the field of [**Name**], [**Phone Number**] and [**E-mail**] for inputting data. Also user can input the alphabet by pressing <middle soft key> to switch. Press the <left soft key> **Ok** to store the settings.

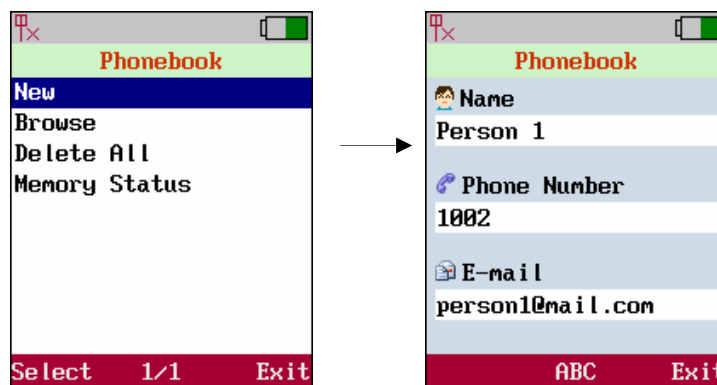


Figure 37. New contact setting

For each contact user can insert:

Item	Number of digits
Name	31
Phone Number	63
Email	63

Table 3. Number of digits limit

Browse

Move the highlight bar to [**Browse**] and press the <left soft key> **Select** to enter the Browse menu.

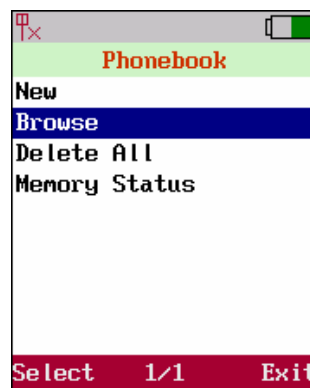


Figure 38. Browse setting

The highlight bar will locate the record that user would like to find. Move the highlight bar to [name] and press the <left soft key> **Select** to **View** or **Delete** the contacts.

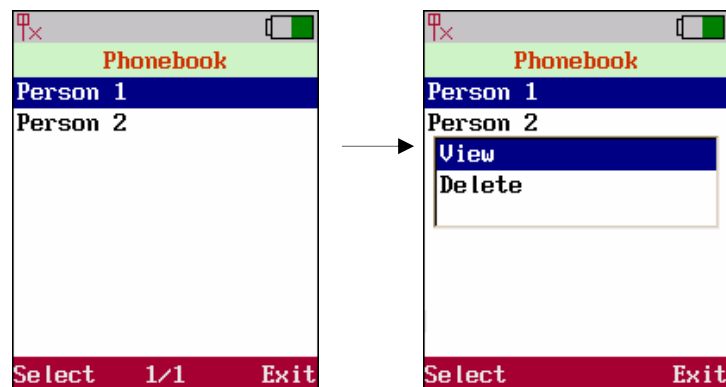


Figure 39. Select contact

User may save this new data after editing.

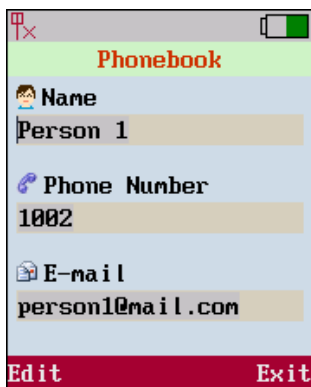


Figure 40. Save setting

User may delete the editing data; **select** Delete to erase this contact.

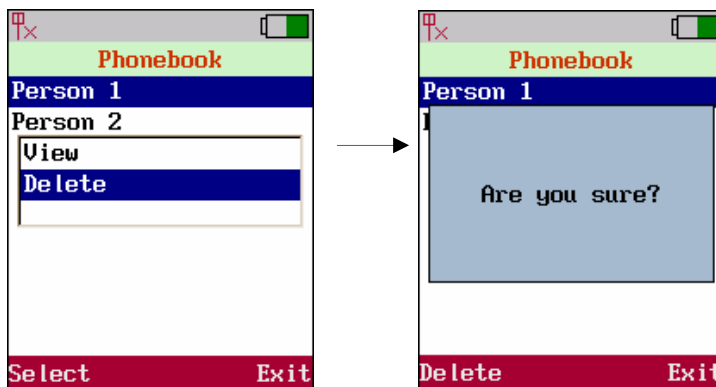


Figure 41. Delete setting

Delete All

Move the highlight bar to [**Delete All**] and press the <left soft key> **select** to all the records in Phone Book.

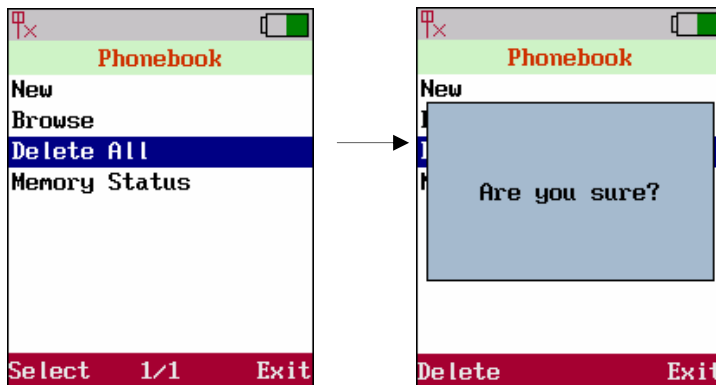


Figure 42. Delete all setting

Memory Status

Move the highlight bar to [**Memory Status**] and press the <left soft key> **Select** to show the memory status. It provides total **200 records** in maximum.

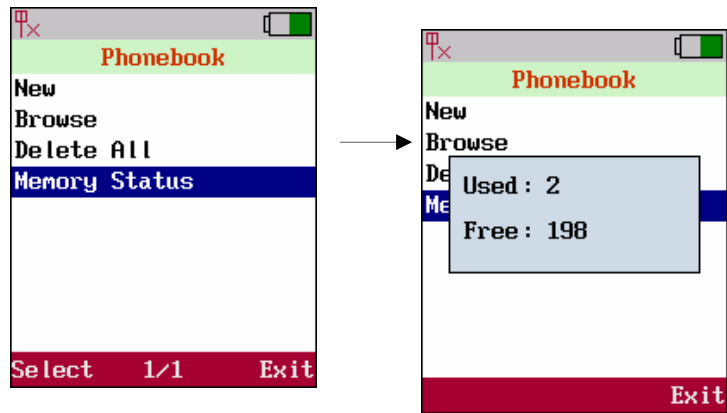


Figure 43. Memory Status

Messaging Settings

Messaging menu include the [**Voicemail**], [**SMS**], and [**E-Mail**]. These features provides user to view, listen, retrieve and input any messages.



Figure 44. Messaging setting

Voicemail

In case caller could not reach the called, caller can leave message in the voice mail server. The voice mail server will follow the **VMWI (Virtual Message Waiting Indication)** standard to send the indication message. When system receives a message it will show the mail icon on the upper status bar.

Voicemail feature enables the system to show the voice message and retrieve the voice from the voice mail server.

Move the highlight bar to [**Voicemail**] and press the <left soft key> **Select** to enter this menu. It will show the number of voice message that user have. User is able to press the <left soft key> **Dial** to access the mailbox.

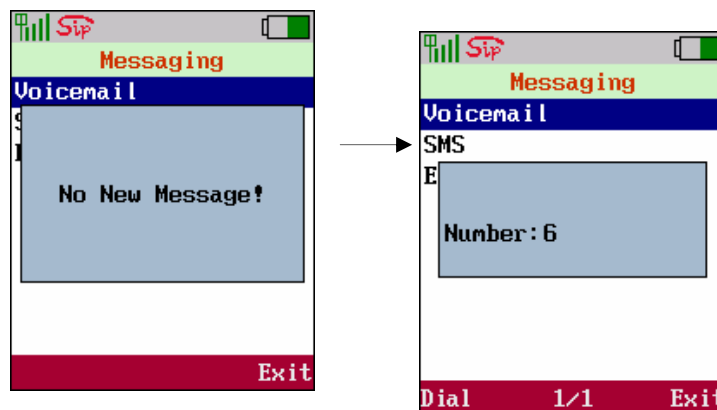


Figure 45. Voicemail setting

SMS

System is capable to send short text message to the other system when it is not convenience for user to communicate by voice. Move the highlight bar to [**SMS**] and press the <left soft key> **Select** to enter this menu. There are four items in this menu, [**New**], [**Inbox**], [**Archive**], [**Delete**] and [**Memory Status**] .

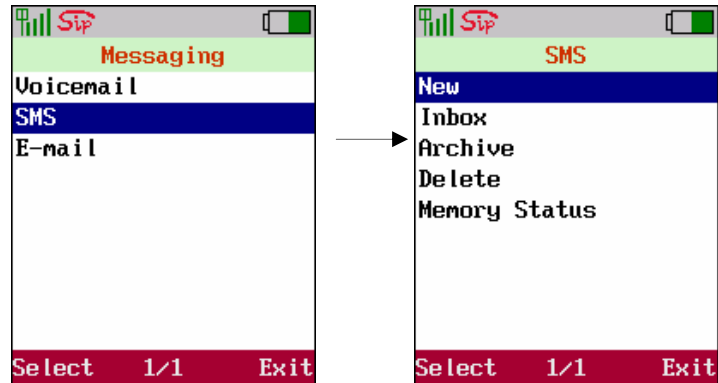


Figure 46. SMS setting

New

In order to create new message, user has to select [**Content**] to edit the content of message. It allows 500 letters in maximum to be entered in one message. (A symbol table will be present by pressing * and # keys while editing the message). Then, select [**Send**] and enter the phone number to send this message by pressing <left soft key> **Ok**.

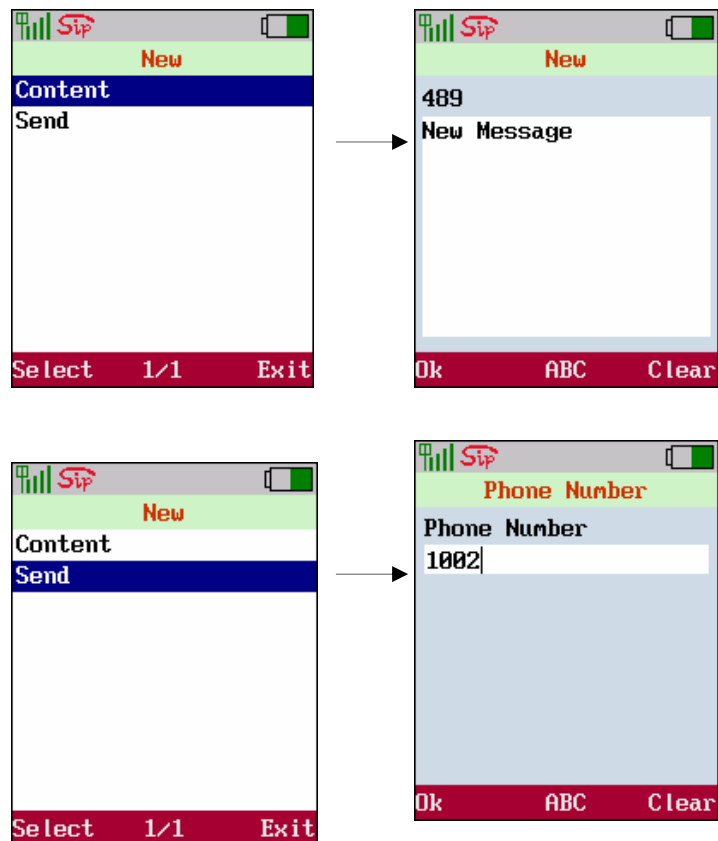


Figure 47. New contact setting

Inbox

It shows the received messages. Move the highlight bar to the selected record and press the <left soft key> **Select** to popup a new screen with items **View**, **Reply**, **Delete** and **Information**.

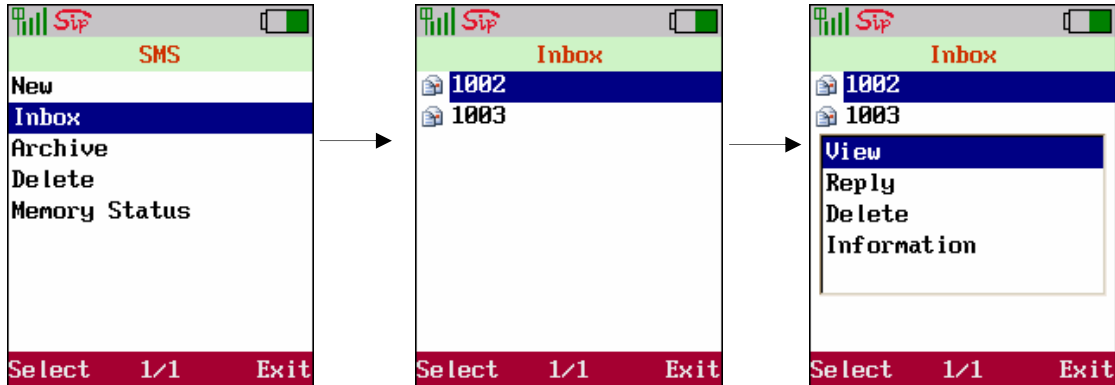


Figure 48. Inbox setting

1. **View**: View the content of the selected message.
2. **Reply**: Reply a new message to the sender.
3. **Delete**: Erase the message.
4. **Information**: It includes the ID and phone number of the sender, and the time at which the message is arrived.

Archive

When a message is sent and user presses the <right soft key> **Exit** to exit, it asks the user whether he/she want to save the message. User can press the <left soft key> **Ok** to save the message at this moment.



Figure 49. Save message

Move the highlight bar to the selected message and press the <left soft key> **Select** to popup a new screen with items **View** and **Delete**. The selected message can be resent to a new destination with or without modification after the message is viewed.

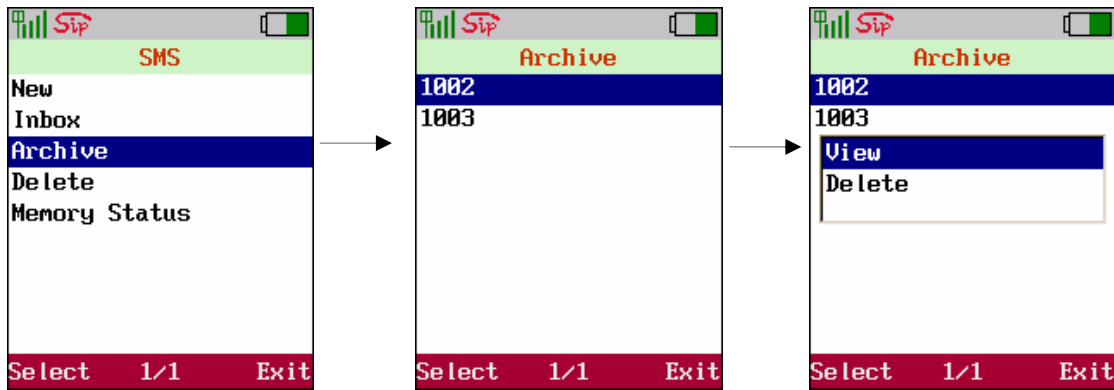


Figure 50. View messages

Delete

Move the highlight bar to [**Delete**] and press the <left soft key> **Select**. It will popup a new screen with the items [**Delete All**], [**Inbox**] and [**Archive**] to select what will be deleted.

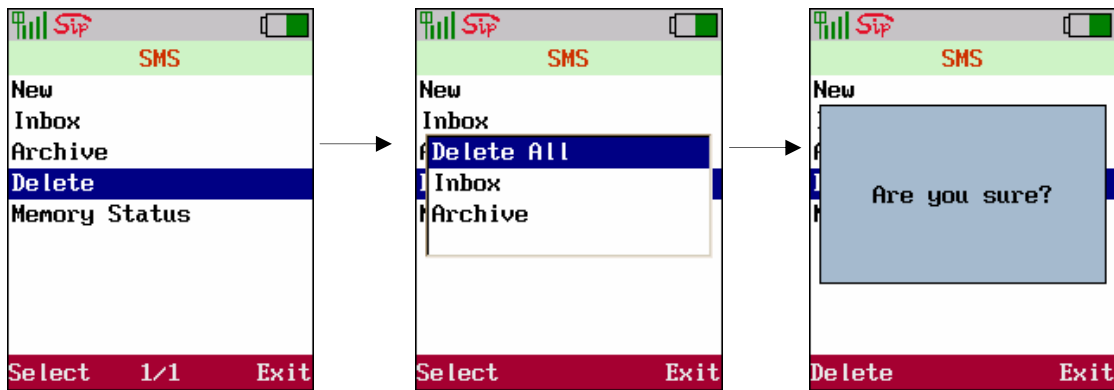


Figure 51. Delete messages

Memory Status

Move the highlight bar to [**Memory Status**] and press the <left soft key> **Select** to show the status of memory space. User is able to select [**Inbox**] or [**Archive**]. Both **Inbox** and **Archive** provide 60 records in maximum.

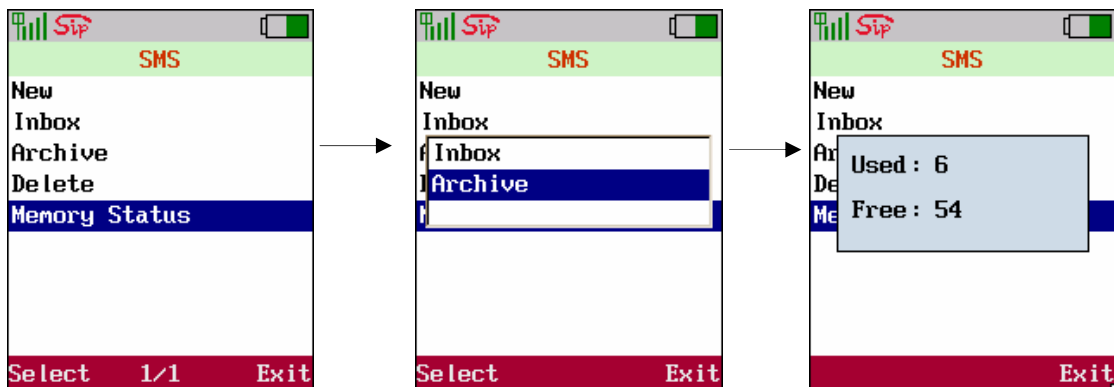


Figure 52. SMS memory status

E-Mail

The system can send and receive E-mail from most popular mail server such as [POP3]and[SMTP]. Sending and Receiving emails are fully requires to inserts mail account.



Figure 53. E-Mail setting

Account

This page shows or inputs display name and mail address which will show [Sender Address] by the receiver mail.

Field	Description
Display Name	Display name which shown as the sender's name.
Mail Address	Mail Address which shown as the sender's mail address.

Table 4. Account setting description



Figure 54. Account setting

POP3 Setting

The **Post Office Protocol - Version 3 (POP3)** is intended to permit a workstation to dynamically access a mail drop on a server.

Field	Description
POP3 Server Address	The address of POP3 server
POP3 User ID	User name for register to the POP3 Server
POP3 password	Password for register to the POP3 Server
POP3 Port	Port no. Use for POP3 protocol

Table 5. POP3 setting description

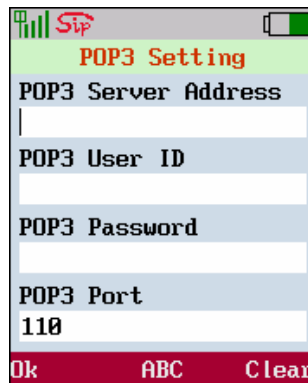


Figure 55. POP3 setting

SMTP Setting

SMTP (Simple Mail Transfer Protocol) is a relatively simple, text-based protocol, where one or more recipients of a message are specified (and in most cases verified to exist) and then the message text is transferred.

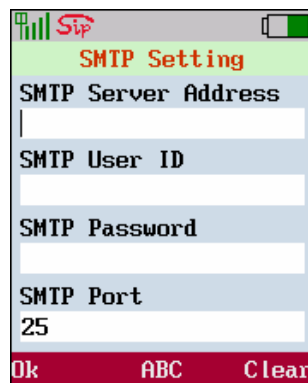


Figure 56. SMTP setting

Advance

Field	Description
APOP	APOP (Authenticated Post Office Protocol) it is similar to the POP protocol except that APOP enables user password to be encrypted while being transmitted over the network. Using POP mail, when user authenticates user's username and password in user e-mail client, user password is sent over the network in plain text.
Reserve Mail	It will reserve the mail in the serve
Reply Address	Reply mail with address
Signature	It will automatically add the signature to the mail when initial a new mail or reply a mail.

Table 6. Advance setting description



Figure 57. Advance setting

Chapter 6

Call Log

Call Log

From the **Call Log** menu user can view all the call history in this phone.



Figure 58. Call Log setting

It is grouped into { **Missed** }, { **Dialed** }, { **Received** } and { **Delete** }



Figure 59. Call Log selections

Chapter 7

Application

Application

The system supports the most continece tool, calendar and calculator. Use the calendar to view the date. Enter the main menu and use joystick to locate [**Application**] icon. Press the <left soft key> **Select** to enter this sub-menu.



Figure 60. Application setting

Calendar

Move the highlight bar to [**Calendar**] and press the <left soft key> **Select** to enter this menu. Click ◀ <Left>/ ▶ <Right> of **Navigation Key** to view pervious or the following month, also user can create a personal memo by selecting the date.

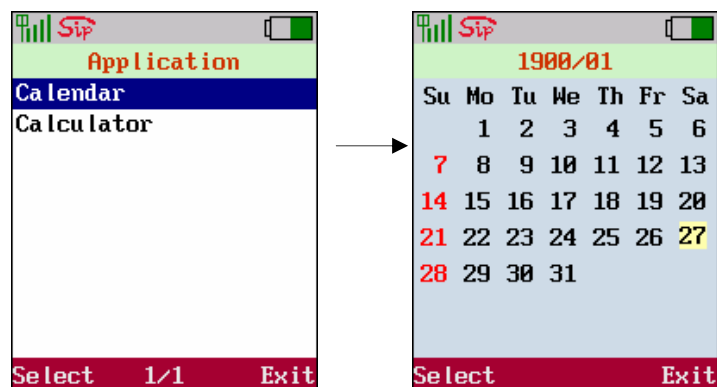


Figure 61. Calendar setting

Memo

Move highlight to [**Memo**] and use left soft key to press <left Soft key> **Select** that will show three functions [**New**], [**View**] and [**Delete**] .

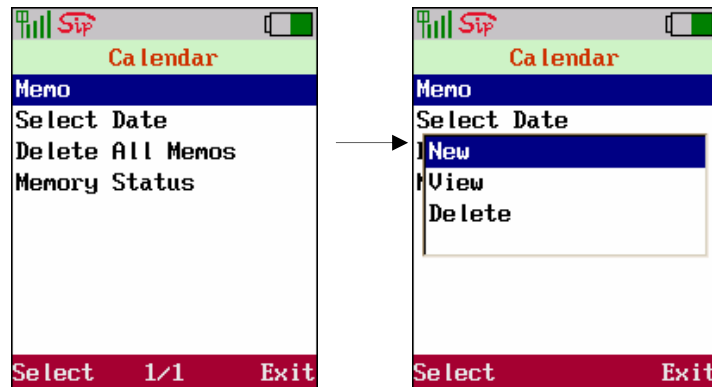


Figure 62. Memo setting

Select Date

The date user wants to create memo.

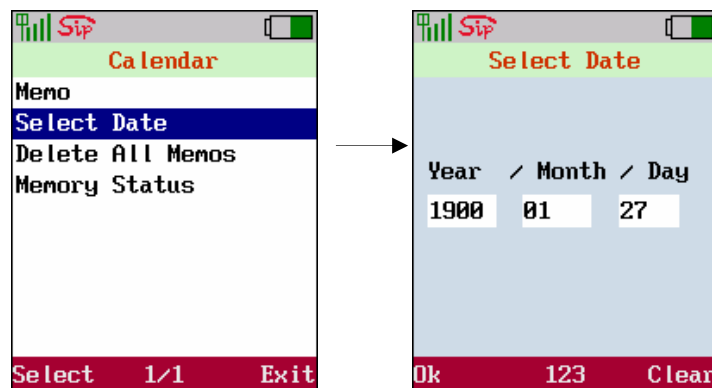


Figure 63. Select date setting

Delete All Memos

In order to delete any date of memo that user had created, move highlight to [**Delete All Memo**] .

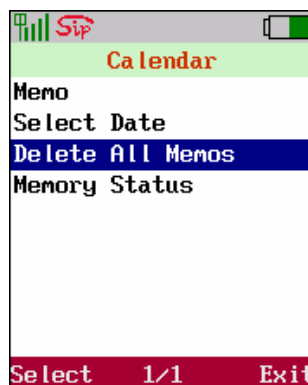


Figure 64. Delete all memos setting

Memory Status

Show the status of memory space.

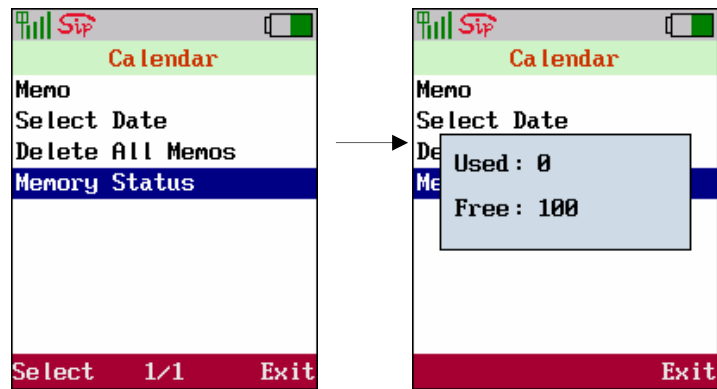


Figure 65. Memory status setting

Calculator

Move the highlight bar to [**Calculator**] and press the <left soft key> **Select** to enter this menu. Please use the joystick as screen shows to calculate the number user needs.

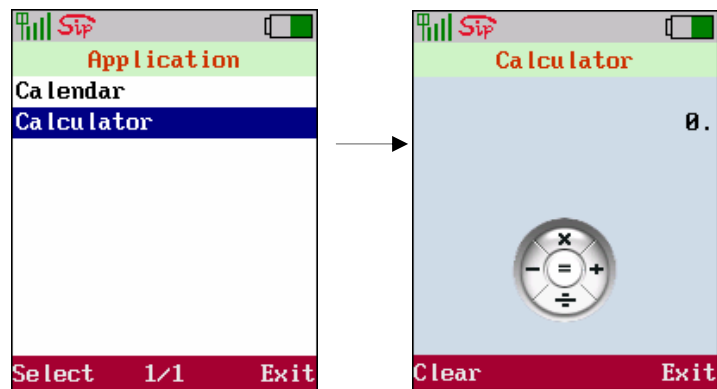


Figure 66. Calculator setting

Chapter 8

Phone Settings

Phone Settings

Phone Settings provides all standard phone functionalities settings.



Figure 67. Phone settings

Time & Date

Move the highlight bar to [**Time & Date**] and press the <left soft key> **Select** to enter this menu. Enter [**NTP**] (**Network Time Protocol**) server IP to have accurate time or enter by manually.

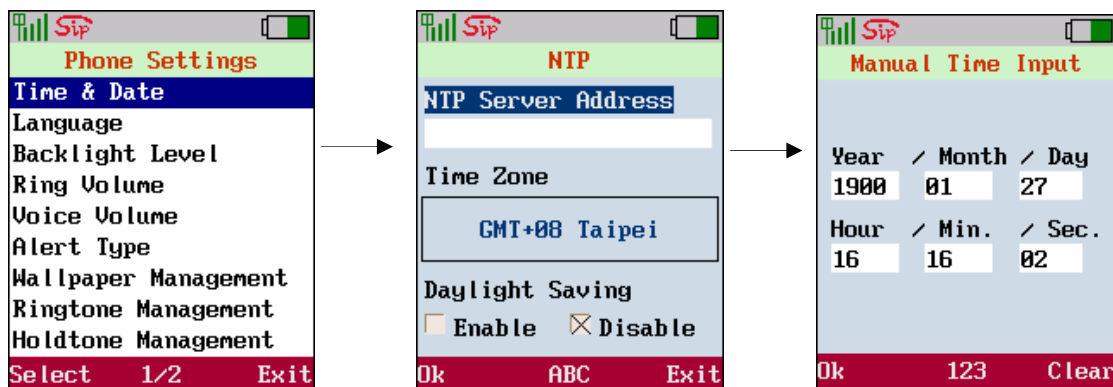


Figure 68. Time & Date setting

Language

Move the highlight bar to [**Language**] and press the <left soft key> **Select** to user suitable languages.

Support Languages: English, Japanese, Traditional Chinese, Simplified Chinese, Korean and Castellano.



Figure 69. Language setting

Backlight Level

Move the highlight bar to [**Backlight Level**] and press the <left soft key> **Select** to enter this menu. Use joystick ◀ <Left>/ ▶ <Right> to adjust the backlight level and press **OK** to save the setting.

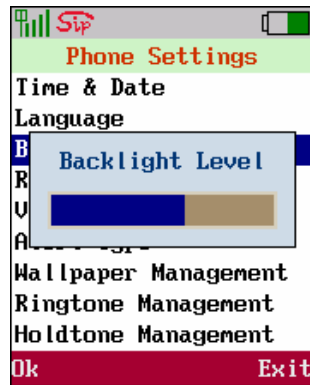


Figure 70. Backlight Level setting

Ring Volume

Move the highlight bar to [**Ring Volume**] and press the <left soft key> **Select** to enter this menu. Use joystick ◀ <Left>/ ▶ <Right> to adjust the sound level then press **OK** to save the setting.

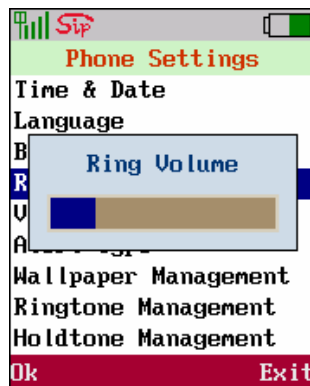


Figure 71. Ring volume setting

Voice Volume

Move the highlight bar to [**Voice Volume**] and press the left soft key **Select** to enter this menu. Use joystick ◀ <Left/> ▶ <Right> to adjust the sound level then press **OK** to save the setting.

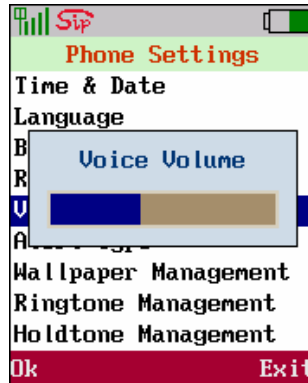


Figure 72. Voice volume setting

Alert Type

The system can setup the incoming call indication types. User is available to set as Vibrate or Ring Types.

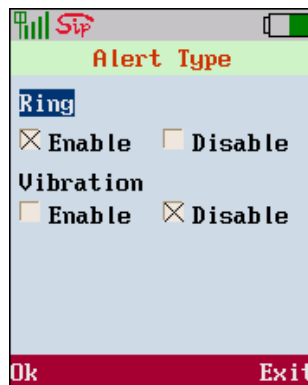


Figure 73. Alert type setting

Wallpaper Management

The system supports selectable wallpaper while in the standby mode, user can select the preferable picture as wallpaper and download photo from the network as well. Move the highlight bar to [**Image Management**] and press the <left soft key> **Select** to enter this menu. Chose the image and press <left Soft key> **Select** to set as wallpaper.

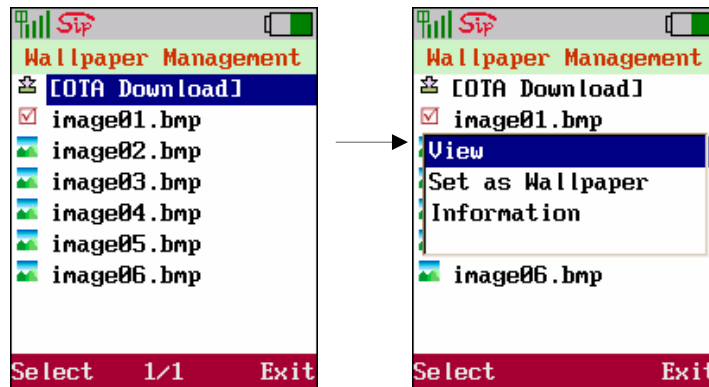


Figure 74.Wallpaper management setting

Note

Wallpaper format: BMP,
Wallpaper Size: 176 x 220(16 bits)

Ring tone Management

The system supports a variable ring tones. For the incoming calls, user may chose preferable melody also providing access download from the network as well. Move the highlight bar to [**Ring tone Management**] and press the <left soft key> **Select** to enter this menu.

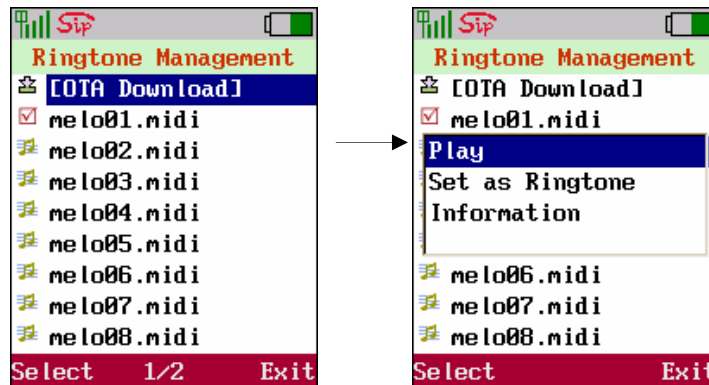


Figure 75.Ring tone management setting

Hold tone Management

The system supports various tones for the condition that the phone is on hold. Move the highlight bar to [**Hold tone Management**] and press the <left soft key> **Select** to enter this menu.

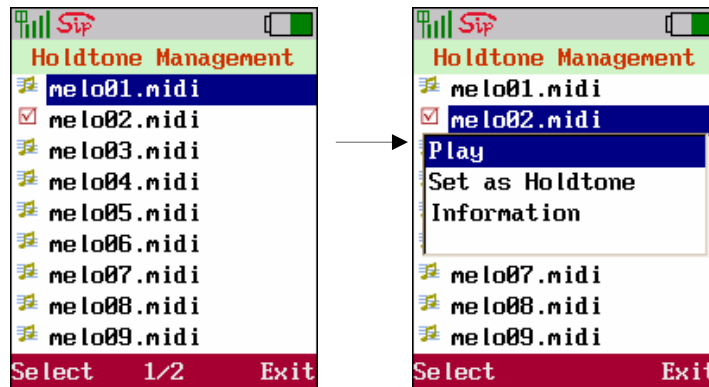


Figure 76. Hold tone management setting

Power save

Move the highlight bar to [**Power Save**] and press the <left soft key> **Select** to enter this menu. There are two items, Normal & Maximum, in the [**Power Save**] setting. Use joystick to select the item you want then press **OK** to save the setting.

“**Normal**” is the default setting. If user wants to save more power, user can just select the “**Maximum**” item to achieve it. Besides, if the “**Maximum**” is selected, the LCD display will be blacked (turned-off) and shown the current time during the stand-by status.

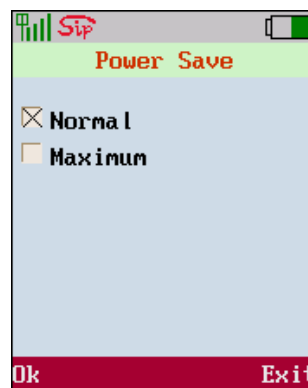


Figure 77. Power save setting

Change Password

Move the highlight bar to [**Change Password**] and press the <left soft key> **Select** to enter this menu. Enter the password to inform the new password.



Figure 78.Change password setting

Speed Dial

The system supports to browse and edit the content of **Speed Dial**, which provides total **20 records** via the handset. Move the highlight bar to [**Speed Dial**] and press the <left soft key> **Select** to enter this menu. There are two items [**Edit**] and [**Browse**] on screen.

Edit

Select [**Edit**] and press the <left soft key> **Select** to edit the records. Enter the number of record (00~19) and the phone number into the blank field.

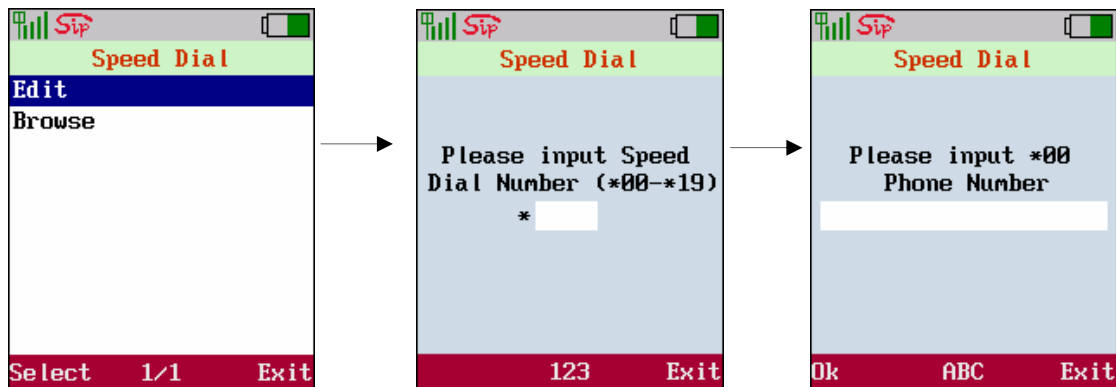


Figure 79.Edit setting

Browse

Select [**Browse**] to browse the records.

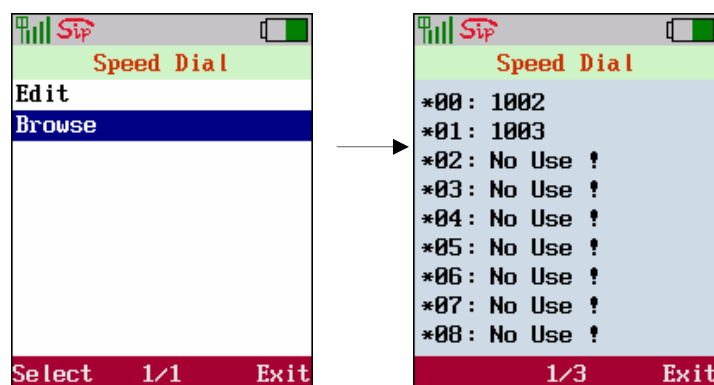


Figure 80.Browse setting

Chapter 9 Information

Information

Information will help user to understand the basic input data of the system such as [IP Address], [Subnet Mask], [Default Gateway], [AP], [Max Rate], [Channel], [SIP ID], [MAC Address] and [Firmware Version] .



Figure 81.Information setting

The information shows [IP status], [WLAN Status], [SIP & MAC Status] .

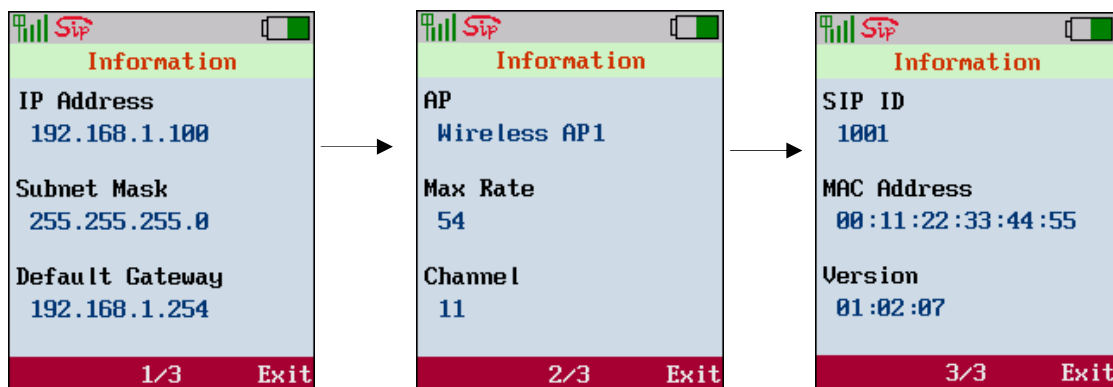


Figure 82. Information screen

Chapter 10

Call Function

Call Function

Call function supports four main items such as, [Do not Disturb], [Call Waiting], [Call Forward], [Anonymous Call] and [Anonymous Reject] .

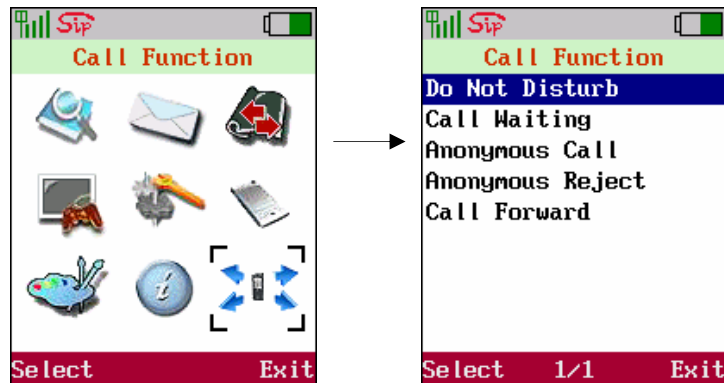


Figure 83. Call function screen

Do Not Disturb

[Do not Disturb] feature enables the system to reject all the phone calls from any others. Move the highlight bar to [Do not Disturb] and press the <left soft key> **Select** to enter this menu. Use joystick to select the [Enable] or [Disable] item then press <left Soft key> **OK** to save the setting.

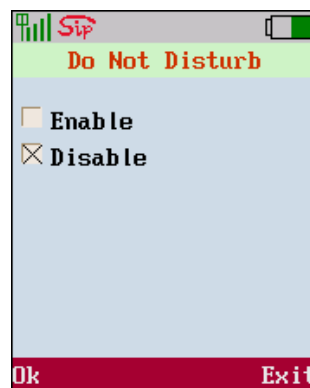


Figure 84. Do not disturb setting

Call Waiting

[Call Waiting] feature enables the system to notify the user by playing the [Remind Tones] when someone calls the user while he/she is already on the line.

Move the highlight bar to [Call Waiting] and press the <left soft key> **Select** to enter this menu. Use joystick to select the [Enable] or [Disable] item then press <left Soft key> **OK** to save the setting.

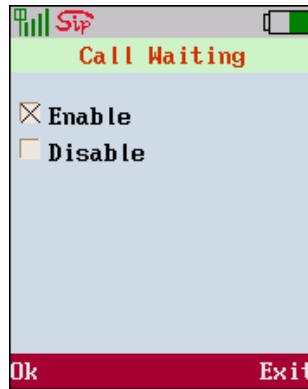


Figure 85. Call waiting setting

Anonymous Call

Making [**Anonymous Call**] means that user makes the call without sending the caller name or number. Move the highlight bar to [**Anonymous Call**] and press the <left soft key> **Select** to enter this menu. This function provides user [**hiding caller ID**], also user can either enable to hide [**Full URI**] or [**Display Name**] .

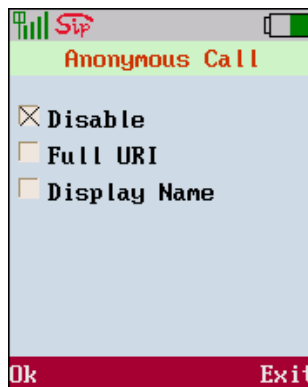


Figure 86. Anonymous call setting

Anonymous Reject

Move the highlight bar to [**Anonymous Reject**] and press the <left soft key> **Select** to enter this menu, this function provides user to reject the incoming call who hiding caller ID, user can either [**Enable**] or [**Disable**] this function.

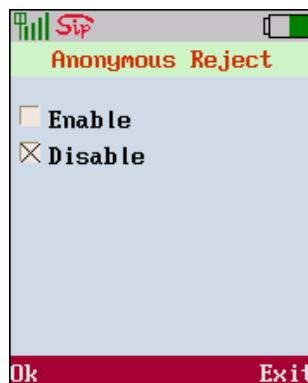


Figure 87. Anonymous reject setting

Call Forward

The [**Call forward**] feature enables the system forward the incoming call to the specified phone number to prevent missing call when user are not available to answer the call.

Move the highlight bar to call Forward and press the <left soft key> **Select** to enter this menu, this menu provide 3 items to setup, such as [**Unconditional**] , [**Busy**] and [**No Answer**] .

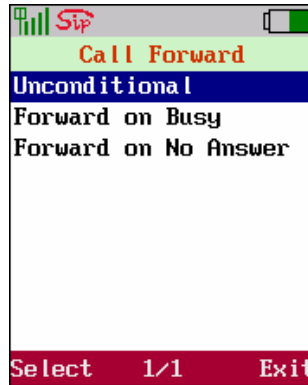


Figure 88. Call forward setting

Unconditional

Use joystick to enable or disable this function, if enabled, please enter the Phone Number or IP address.

Please press the <left soft key> **OK** to store the settings.

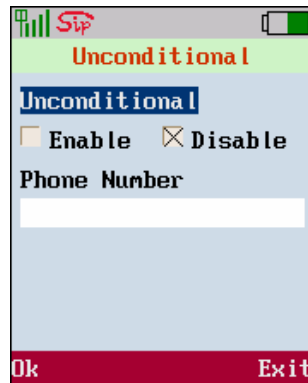


Figure 89. Unconditional setting

Forward on Busy

Use joystick to enable or disable this function

Enable: Enter the phone number or IP address. Press the <left soft key> **OK** to store the settings.

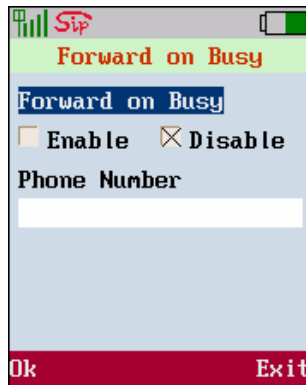


Figure 90. Forward on busy setting

Forward on No Answer

Use joystick to enable or disable this function.

Enable: Enter the phone number or IP address. Press the <left soft key> **Ok** to store the settings.

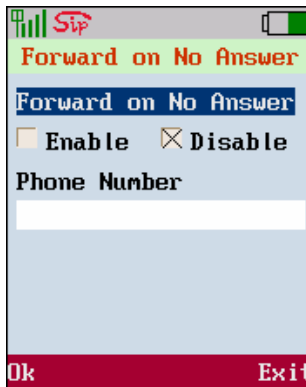


Figure 91. Forward on no answer setting

Using the web configuration

Using the web configuration

The configuration web can be accessed using a web browser.

Accessing Configuration Menu

To start Wi-Fi Phone web configuration, you must have one of these web browsers installed on computer for management

- Microsoft Internet Explorer 6.0 or higher with Java support

Default WLAN interface IP address of Wi-Fi Phone is **192.168.0.1**. You may now open your web browser, and insert **192.168.0.1** in the address bar of your web browser to logon Wi-Fi Phone web configuration page.

Wi-Fi Phone will prompt for logon username/password, please enter: **root / 1234** to continue machine administration.



Figure 92. Prompt screen of VIP-192

Web Login Setting

Figure 93. Main page

Field	Description
User Name	Username for login the web configuration
Password	Password for login the web configuration
NTP Server IP	Network Time Protocol (NTP) is a protocol used to help match user system clock with an accurate time source (eg atomic clock, time server). It is good practice to have all user networked computers synchronized with one server.
Time Zone	Select user time zone. If there is daylight saving in user area, click the check box.
TFTP Server	Enable or Disable TFTP server to allow uploading firmware from a computer to IP phone.
FTP Client	Enable or disable IP phone to download files from FTP server and update the firmware automatically.

Table 7. Main page description

Restore Factory Setting

Click on “**Management**”, Select “**Restore Factory Setting**” and the above screen will display on the screen.



Figure 94. Restore default setting

Field	Description
Restore Factory Setting	Restores all the settings back to factory default settings.

Table 8. Restore factory description

Firmware update

FTP server, login ID, login password and firmware filename are preset when user purchases the phone. These are required to download and update the firmware.

FTP Server :

Login ID : Max. 32 Char.

Login Password : Max. 32 Char.

Firmware Filename : Max. 32 Char.

Submit Reset

Figure 95. Firmware updates setting

Field	Description
FTP Server	FTP Server address
Login ID	Login ID provided by user's supplier.
Login Password	Login password provided by user's supplier.
Firmware Filename	Updated firmware filename. Do not change the file name unless specified by user's supplier.

Table 9. Firmware update description

Network Setting-DHCP

Select DHCP if user has cable Internet.

Figure 96. Network setting-DHCP

Field	Description
DHCP Server	Dynamic Host Configuration Protocol (DHCP) Server address. This IP address information is obtained automatically from user ISP.
DNS Server 1~2	DNS address provided by user's ISP.

Table 10. Network setting-DHCP description

Network Setting-Static IP

Choose Static IP network setting if all Wide Area Network IP is provided to user by ISP.

Figure 97. Network setting-Static IP

Field	Description
IP Address	IP address assigned to user by user's ISP.
Router IP	Router IP addresses.
Subnet Mask	Subnet Mask address.
DNS Server 1~2	DNS server address provided by user's ISP.

Table 11. Network setting-Static IP description

Note

RESTART the system for new settings to take effect after user modifies the IP address.

QoS Setting

QoS Setting	
Voice TOS	<input type="text" value="5"/> [0 - 7]
SIP TOS	<input type="text" value="0"/> [0 - 7]
<input type="button" value="Submit"/> <input type="button" value="Reset"/>	

Figure 98. QoS setting

Field	Description
Voice TOS	Set the type of service for RTP stream.
SIP TOS	Set the type of service for SIP signaling.

Table 12. QoS setting description

SIP Setting

Session Initiation Protocol (SIP) is the most popular Voice over IP standard. It enables two or more people to make phone calls, share multimedia and make multimedia conference over the Internet. Please have an administrator to setup these settings or obtain this information from user SIP service provider.

SIP Phone Setting	
SIP Phone Port Number	<input type="text" value="5060"/> [1024 - 65535]
Registrar Server	
Registrar Server Domain Name/IP Address	<input type="text" value="192.168.1.1"/>
Registrar Server Port Number	<input type="text" value="5060"/> [1024 - 65535]
Authentication Expire Time	<input type="text" value="3600"/> sec. (Default: 3600 sec.) [60 - 9999]
Outbound Proxy Server	
Outbound Proxy Domain Name/IP Address	<input type="text"/>
Outbound Proxy Port Number	<input type="text" value="5060"/> [1024 - 65535]

Figure 99. SIP setting

Field	Description
SIP Phone Port Number	SIP phone port number
Registrar Server Domain Name/IP Address	Registrar server domain name or IP address.
Registrar Server Port Number	Registrar server port number
Authentication Expire Time	The time after which the registration on SIP Registrar expires. The phone must send SIP REGISTER to keep the registration at half of the setting time.
Outbound Proxy Domain Name/IP Address	Outbound proxy domain name or IP address.
Outbound Proxy Port Number	Outbound proxy port number.

Table 13. SIP setting description

Message Server	
MWI Message Server Domain Name/IP Address	<input type="text"/>
MWI Message Server Port Number	5060 [1024 - 65535]
MWI Message Subscribe Expire Time	3600 sec. (Default: 3600 sec.) [60 - 9999]
Voice Message Account	<input type="text"/>

Figure 100. Message server setting

Field	Description
MWI Message Server Domain Name/IP Address	Message server domain name or IP address.
MWI Message Server Port Number	Message server port number.
MWI Message Subscribe Expire Time	The time after which the subscription expires. It is included in SIP SUBSCRIBE and is used to negotiate with Message server.
Voice Message Account	Voice message account name

Table 14. Message server description

Others		
Session Timer	1800	sec.[90 - 99999]
Media Port	41000	[1024 - 65535]
Prack	<input type="radio"/> Disable <input checked="" type="radio"/> Enable	
Session Refresher	<input checked="" type="radio"/> None <input type="radio"/> UAC <input type="radio"/> UAS	
Session Timer Method	<input checked="" type="radio"/> Invite <input type="radio"/> Update	
UDP/TCP	<input checked="" type="radio"/> UDP <input type="radio"/> TCP	
Register with Proxy	<input type="radio"/> Disable <input checked="" type="radio"/> Enable	

Figure 101. Other setting

Field	Description
Session Timer	The time interval in which the phone periodically refresh SIP sessions by sending repeated INVITE requests. These INVITE requests allow the user agent or proxies to determine the status of the SIP session.
Media Port	Real-time Transport Protocol port number. Provides end-to-end transfer of data with real-time audio.
PRACK	PRACK ensures that media information is exchanged and that network checks before connecting the call. Select Enable for a more reliable connection.
Session Refresher	Select None to disable SIP session timer support. Select UAC to initiate SIP request. Select UAS to receive SIP request and then return a response.
Session Timer Method	Select SIP request method. Default method is Invite.
UDP/TCP	Select SIP signal transmission method. Default method is UDP.
Register with Proxy	When “Set messages via Outbound Proxy” is enabled, all the SIP requests including Register will be sent through Outbound Proxy.

Table 15. Other setting description

SIP Account Settings

User may have up to 4 accounts. i.e., the IP phone can receive up to four different phone numbers.

SIP Account Setting	
Default Account	Account 1 <input type="button" value="v"/>
Account 1 Setting	
Account Active	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
Display Name	<input type="text"/>
SIP User Name	<input type="text"/>
Authentication User Name	<input type="text"/>
Authentication Password	<input type="text"/>
Register Status	UnRegister

Figure 102. SIP account setting

Field	Description
Default Account	When user dials a number, the default account is used to dial. User Name of default account is displayed on the receiver's IP phone.
Account Active	Enable or disable this account.
Display Name	Display name on the IP phone.
SIP User Name	SIP user name
Authentication User Name	Username for authentication that is required by SIP Registrar.
Authentication Password	Password For authentication that is required by SIP Registrar.
Register Status	Display if the current phone is registered or unregistered with SIP server.

Table 16. SIP account description

NAT Traversal Settings

STUN Server Setting	
STUN	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
STUN Domain Name/IP Address	<input type="text"/>

Figure 103. STUN server setting

Field	Description
STUN	Simple Traversal of User Datagram Protocol (STUN) through Network Address Translators is a protocol that

	allows applications to determine the types of NATs and firewalls are in between them and the internet. STUN also provides the ability for applications to determine the public IP addresses allocated to them by the NAT.
STUN Domain Name/IP Address	Enter STUN domain name or IP address if STUN is enabled.

Table 17. STUN server description

Manual Config External IP/Port	
User Defined External IP/Port	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
External IP Address	<input checked="" type="radio"/> Manual Set <input type="text" value="0.0.0.0"/> <input type="radio"/> Use Stun get External IP Address <input type="radio"/> Use UPnP get External IP Address
External SIP Port	<input type="text" value="5060"/> [1024 - 65535]
External Media Port	<input type="text" value="41000"/> [1024 - 65535]

Figure 104. Manual config external IP/port setting

Field	Description
User Defined External IP/Port	Enable or disable the settings for configuring the user defined external IP address and port number.
External IP Address	Setup the external IP address manually. Use Stun server to get external IP address. Use UPnP to get external IP address.
External SIP Port	Setup external SIP port
External Media Port	Setup external Media port

Table 18. Manual config external IP/port description

UPnP Setting	
UPnP	<input checked="" type="radio"/> Disable <input type="radio"/> Enable

Figure 105. UPnP setting

Field	Description
UPnP	Enable or disable universal plug and play. Some NAT supports UPnP so STUN is not required and must be disabled.

Table 19. UPnP setting description

NAT KeepAlive Time Settings	
Always send keepalive packet	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
KeepAlive Time	30 (Default: 30 sec.) [10 - 45]

Figure 106. NAT keepalive time setting

Field	Description
Always send keep alive packet	Enable or disable to keep the channel which is created for SIP signaling alive.
Keep Alive time	The time interval that the IP phone always sends the keepalive packet in order to ensure NAT works properly.

Table 20. NAT keepalive time description

Voice Setting

Voice Setting	
Codec (Priority 1)	G.711 u-law ▼
Codec (Priority 2)	G.729A ▼
Codec (Priority 3)	G.723.1 ▼
Codec (Priority 4)	G.711 A-law ▼
RTP Packet Length	G.711 μ -Law 20ms ▼
	G.711 A-Law 20ms ▼
	G.729A 20ms ▼
	G.723.1 30ms ▼
VAD	<input type="radio"/> On <input checked="" type="radio"/> Off
DTMF Method	<input type="radio"/> Out Band <input checked="" type="radio"/> In Band <input type="radio"/> SIP INFO

Figure 107. Voice setting

Field	Description
Codec	Voice Compression Algorithm priority settings. Select from the most used codec to the least used codec.
RTP Packet Length	The payload size for each RTP packet.
VAD	Support VAD for silence suppression. When Enable is selected, it also supports SID frame for CNG.
DTMF Method	Select the method to generate DTMF. Out Band DTMF is based

	on RFC2833.
Payload Type	Setting the payload type for the Out Band DTMF (Default is 101).

Table 21. Voice setting description

Phone Setting

Phone Setting	
Tone Setting	America <input type="button" value="v"/>
Ringer Type	melo01.midi <input type="button" value="v"/>
Hold Type	melo02.midi <input type="button" value="v"/>
Do Not Disturb	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
Call Waiting	<input type="radio"/> Disable <input checked="" type="radio"/> Enable
Anonymous Call	<input checked="" type="radio"/> Disable <input type="radio"/> Full URI <input type="radio"/> Display Name
Anonymous Call Reject	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
Call Forward	<input type="checkbox"/> No Answer <input type="checkbox"/> Busy <input type="checkbox"/> Unconditional

Figure 108. Phone setting

Field	Description
Tone Setting	Select the tone for particular country
Ringer Type	Select the type of ring (1 ~ 15).
Hold Tone	Select the type of hold tone (1 ~ 15).
Do Not Disturb	Reject all incoming calls.
Call Waiting	Enable or disable call waiting.
Anonymous Call	<ol style="list-style-type: none"> 1. If DISABLE is selected, full URI and name are sent to the receiver's phone when the user makes a phone call. The URI and name of the caller are displayed on the receiver's phone. 2. When Full URI is selected, it uses "Anonymous" as its display name and URI when the user makes a phone call. It may display "Anonymous" or nothing on the receiver's phone. 3. When Display Name is selected, only display name is replaced by "Anonymous" when the user makes a phone call. It may display "Anonymous" or nothing on the receiver's phone.
Anonymous Call Reject	Select Enable to reject anonymous calls.

Call Forward	<ol style="list-style-type: none"> 1. Click No Answer to enable call forward to another number when no one answers the phone after 180s (default). The timer can be changed from 0-600s. Refer to section 6.19 to change the timer. 2. Click Busy to enable call forward to another number when user is busy on the phone. 3. Click Unconditional to transfer all incoming calls to another number. <p>Enter the call forward number on the text box.</p>
---------------------	--

Table 22. Phone setting description

Timer	
NTP Recycle Timer	<input style="width: 50px;" type="text" value="1"/> hour [1 - 24] Network Time Adjustment Period
Originating Not Accept Timer	<input style="width: 50px;" type="text" value="180"/> sec. [0 - 600] 0: Disable
Incoming No Answer Timer	<input style="width: 50px;" type="text" value="180"/> sec. [0 - 600] 0: Disable

Figure 109. Time setting

Field	Description
NTP Recycle	NTP recycle time.
Originating Not Accept	The time interval that the caller's phone waits to establish a call. If the receiver fails to answer the phone during this time interval, the caller's phone will automatically disconnect.
Incoming No Answer	The time interval that the receiver's phone will ring. If the receiver fails to answer the phone during this time interval, the phone will automatically disconnect.

Table 23. Time setting description

Call Tracing Log

Call Tracing Log keeps a record of all the phone activities. This log is used by our engineers to troubleshoot hardware problems.

No.	Trace Log
000	!0 SIP Application Release : Sep 3 2007 10:37:24
001	!0 SIP Application running pid 53
002	total if=0
003	!6 Restore Default Setting: (0)
004	!6 PB_ClearAll
005	!6 PB_ClearAll
006	!6 PB_Download: len(4)
007	!6 WriteSpeedDial: 1280
008	!0 FW Version: 01.02.07
009	!0 FW Date : Sep 3 2007 10:37:25
010	!0 Language:(0)

Figure 110. Call tracing log

Phone Book

Phonebook menu allows the user to add, modify and delete phone numbers. To add, type in the name and number then click NEW to add. To modify/delete, select the name from the list and click modify/delete.

Record No:

Maximum Record: 200

Name: Maximum 31 Char.

Number: Maximum 63 Char.

Email: Maximum 63 Char.

Find Dial New Modify Delete Delete All

Phone Book Setting			
No.	Name	Number	Email

Figure 111. Phone book setting

Field	Description
Name	Name that you would like to add.
Number	Phone number that corresponds to the name.
Email	Email address that corresponds to the name.

Table 24. Phone book description

Speed Dial

Speed dial numbers can be accessed from the phone. User can dial *00~*19 then press dial key to perform speed dial.

Speed Dial Setting (Maximum 63 Char.)			
Number 00	<input type="text"/>	Number 01	<input type="text"/>
Number 02	<input type="text"/>	Number 03	<input type="text"/>
Number 04	<input type="text"/>	Number 05	<input type="text"/>
Number 06	<input type="text"/>	Number 07	<input type="text"/>
Number 08	<input type="text"/>	Number 09	<input type="text"/>
Number 10	<input type="text"/>	Number 11	<input type="text"/>
Number 12	<input type="text"/>	Number 13	<input type="text"/>
Number 14	<input type="text"/>	Number 15	<input type="text"/>
Number 16	<input type="text"/>	Number 17	<input type="text"/>
Number 18	<input type="text"/>	Number 19	<input type="text"/>

Figure 112. Speed dial setting

Field	Description
Number 00 ~ 19	Speed dials phone number. 0x is the speed dial number.

Table 25. Speed dial description

Tools

On tools, system user may use the Web interface to export and import phone book contact list and system settings.

PhoneBook Export/Import	
Export PhoneBook	Click to save PhoneBook
Import PhoneBook	<input type="text"/> <input type="button" value="Browse"/>
<input type="button" value="Import PhoneBook"/>	

System Settings Export/Import	
Export System Settings	Click to save System Settings
Import System Settings	<input type="text"/> <input type="button" value="Browse"/>
<input type="button" value="Import System Settings File"/>	

Figure 113. Tools screen

Restart System

Click **Restart** to update all the modifications and reboot the system.



Figure 114. Restart system screen

Voice Communications

The chapter shows you the concept and command to help you configure your Wi-Fi Phone through sample configuration. And provide instruction to make calls to desired destination in Wi-Fi Phone. In this section, we'll lead you step by step to establish your first voice communication via keypad operations.

Peer To Peer (P2P) mode

Assuming there are two VIP-192 in the network and the IP address are 192.168.0.1 and 192.168.0.2

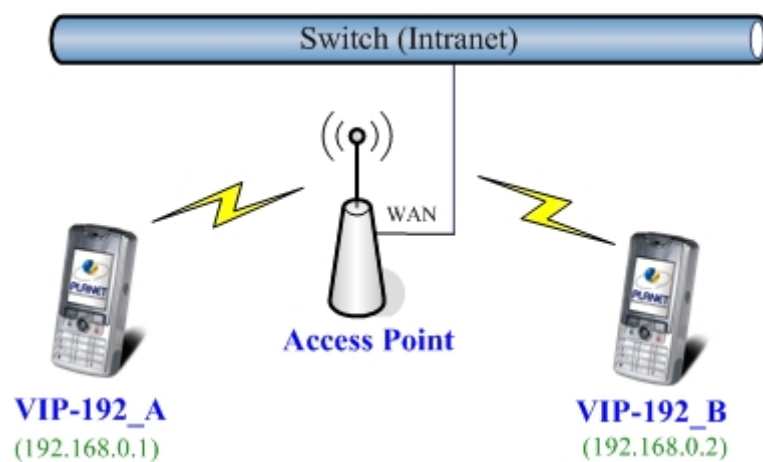



Figure 115. Topology of instruction example - P2P mode

Test the scenario:

1. VIP-192_A press the keypad: **192.168.0.2** and press the <left soft key> **Dial** to connect to VIP-192_B.
2. Then the Wi-Fi Phone in 192.168.0.2 should ring. To press <off hook> (Green)  key or <left soft key> **Talk** to begin conversation.
3. Please repeat the same dialing steps on VIP-192_B to establish the first voice communication from VIP-192_A.

SIP Proxy mode

In the following sample, we'll introduce how to integrate the Wi-Fi Phone with our IP PBX system IPX-1804.

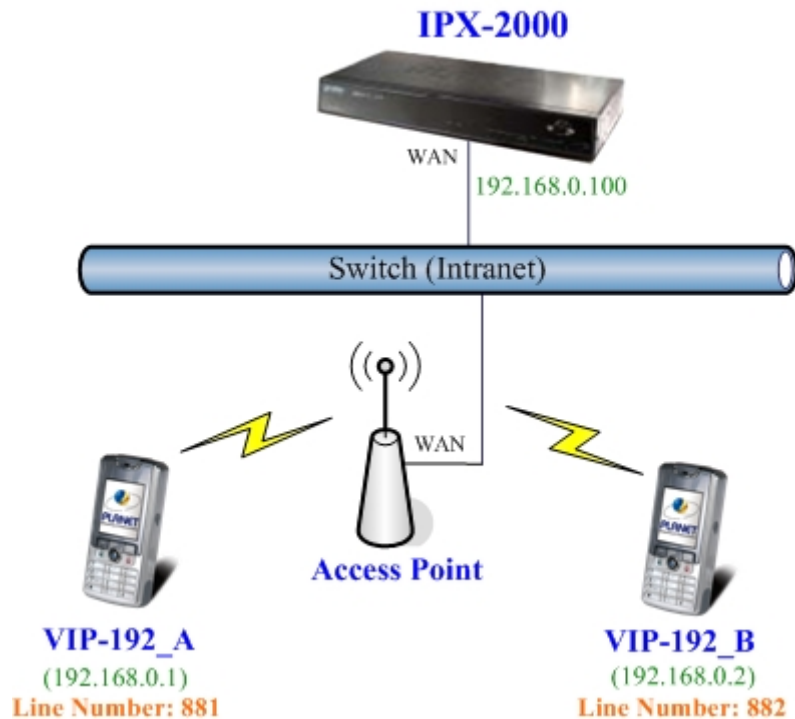


Figure 116. Topology of instruction example - Proxy mode

To connect to a SIP server, you can carry out the following steps:

1. Make sure the VIP-192_A was connected to an Access Point, and set the static IP address as 192.168.0.1
2. Login the VIP-192_A via web browser, and browse to “**SIP Settings**” page. Set the Register Server as **192.168.0.100**, and press the **Submit** button to affect the settings.

SIP Phone Setting	
SIP Phone Port Number	5060 [1024 - 65535]
Registrar Server	
Registrar Server Domain Name/IP Address	192.168.0.100
Registrar Server Port Number	5060 [1024 - 65535]
Authentication Expire Time	3600 sec. (Default: 3600 sec.) [60 - 9999]

Figure 117. SIP setting screen

3. Browse to “**SIP Account Settings**” page and fill in the corresponding information as the followings. Press the **Submit** button to affect the settings, and the “Register Status” field will show Register to mean VIP-192_A has register to SIP server (IPX-1804) successfully.

SIP Account Setting	
Default Account	Account 1 ▾
Account 1 Setting	
Account Active	<input type="radio"/> Disable <input checked="" type="radio"/> Enable
Display Name	881
SIP User Name	881
Authentication User Name	881
Authentication Password	●●●
Register Status	Register

Figure 118. SIP account setting screen

4. To repeat the step 1~3 and set up VIP-192_B for registering to SIP server (IPX-1804).
5. To verify the VoIP communication, please dial the destination number to make call between SIP clients.

For example, VIP-192_A (with number 881) with the keypad number **882** and press the <left soft key> **Dial** to connect to VIP-192_B; or reversely make calls from SIP client (VIP-192_B) to the number **881** (VIP-192_A).

Appendix B

FAQ

Q1: There are no signal
A: 1. Check if there is any available AP. 2. Check if AP is set correctly. 3. Check if AP settings (SSID, WEP and key) of WLAN phone are correct.
Q2: Nothing is displayed on the LCD screen
A: Check if battery is run out of power.
Q3: Why can't I dial my friend's SIP number?
A: 1. Check Registrar Server Domain Name/IP address and Outbound Proxy Domain Name/IP Address (under SIP Settings in Configuration Menu). Make sure you have the right Name or IP Address. 2. Check the LCD display on user's phone to see if there is a name or number displayed on the screen. If the name or number is not displayed, use a web browser and access the configuration menu. Make sure that the Registrar Server Domain Name/IP Address is correct. 3. Check the register status under SIP Account Settings in the configuration menu (from web browser). If your status is unregistered, it means user do not have a SIP account. Contact SIP service provider to get an account.
Q4: How to update Firmware?
A: Please browse Wi-Fi Phone via web browser and browse to " Management -> Firmware update " page for upgrading the firmware. We're suggest to connect Wi-Fi Phone with power adapter and make sure the power are enough when Wi-Fi Phone in the process of upgrading firmware.
Q5: Why do I get "Can't Upgrade Now" screen when I click [Submit] in the configuration menu?
A: Make sure user exit setting mode (phonebook, menu...) before user click [Submit] in the configuration menu.

Appendix C

VIP-192 Specifications

Product	IEEE 802.11b/g SIP Wi-Fi Phone
Model	VIP-192
Hardware	
WLAN	IEEE 802.11b/g
Security	HTTP 1.1 basic/digest authentication for Web setup MD5 for SIP authentication (RFC 2069/ RFC 2617) IEEE 802.1x WEP 64/128 bit encryption WPA, WPA2 (IEEE 802.11i)
Data Rate	1, 2, 5.5, 6, 11, 12, 22,24,54 Mbps
Operating Frequencies	USA/Canada: 2.412 GHz - 2.462 GHz (11 channels) Europe: 2.412-2.472 GHz (13 channels) Japan: 2.412-2.472 GHz and 2.484 GHz (14 channels)
LCD Display	1.8 inch Color LCD, 176 * 220 pixel, 65536 colors, LED Backlight
Protocols and Standard	
Standard	IETF SIP 2.0 (RFC3261), STUN (RFC 3489), UPnP
Voice codec	G.711 μ -law / G.711a-law, G723.1, G.729a/b
Voice Standard	Voice activity detection (VAD) Comfort noise generation (CNG) Acoustic Echo Cancellation (AEC) G.168, Jitter buffer
Protocols	IP / TCP / UDP / DHCP / RTP / RTCP / ICMP / HTTP / SNTP / TFTP / DNS
Functions	
Call Features	Call Hold / Mute / Retrieve / Transfer / Waiting Call Forward (Busy / No Answer / Unconditional) Caller ID Display / Redial Anonymous Call / Anonymous Call Blocking In band DTMF / Out-of-band DTMF(RFC 2833) / SIP INFO Message Waiting Indicator
Phone Functions	Ring tone/Vibrator switch Key lock Pre-dial before sending Handset / Ring Volume adjustment Speed dial (10 records) Phone book (200 records) Call history (Incoming calls / Outgoing calls / Missed calls)
Advanced Applications	Calendar / Calculator / SMS / E-mail / Voice Mail
Network and Configuration	
Access Mode	Static IP, DHCP
Dial Methods	IP call without SIP registration Dial registered number via SIP server URI call by phone book / speed dial
Management	Key & LCD configuration Web browser configuration
Dimension (L x W x H)	105 x 45 x 19 mm
Operating Environment	0~40 degree C, 20~80% humidity
Power Requirement	3.7V, 1400mA (Li-Polymer); one mini-USB connector for charger
EMC/EMI	CE, FCC Part 15 Class B