

User Manual

VoIP Phone

Model: EP-636



Shenzhen HyberTone Technology Co.,Ltd. <u>Http://www.hybertone.com</u> <u>Support@hybertone.com</u> <u>Marketing@hybertone.com</u>

contents

1 Overview	5
1.1 General Information	5
1.2 Compliance	5
1.3 Hardware Characteristics	6
1 4 Software Characteristics	б
1.5 Unpacking the IP Phone Package	б
1.6 Front View	
1.7 Rear View	9
2 Installing the IP Phone	9
2.1 Preparing the IP Phone	9
2.2 Connection Diagrams	10
2.2.1 Home User with ADSL/Cable Broadband Connection (PPPOE)	10
2.2.2 Office User in a LAN Environment	11
2.3 Starting the IP Phone	11
3 Using the IP Phone	12
3.1 Keypad	12
3.1.1 Number Keys	12
3.1.2 Function Keys	13
3.2 Viewing the LCD in Idle State	13
3.3 Call Status Display	13
3.4 How to Make a Call	14
3.4.1 Normal	14
3.4.2 Speakerphone	14
3.4.3 Switching between Normal and Speakerphone	14
3.4.4 Making a Phone Call with the Up/Down Scroll Keys	14
3.4.5 Making a Phone Call via Call List	15
3.4.6 Making a Phone Call via the Phone Book	15
3.5 Answering an Incoming Call	15
3.6 Answering a Waiting Call	16
3.7 Call Hold	16
3.8 Call Conference	16
3.9 Call Transfer	17
3.10 Voice Mail	17
4 Phone Menu	18

•

4.1 Phone Menu Operation	
4.2 Menu Content	
4.2.1 Call List	
4.2.2 Phone Book	
4.2.3 System Tools	
4.2.3.1 Phone Status	
4.2.3.2 SYSTEM VERSION	
4.2.3.3 RING VOLUME	
4.2.3.4 LCD CONTRAST	
4.2.3.5 RESET CONFIG	
4.2.4 DEVICE CONFIG	
4.2.5 VOICE MAIL	
5 Configuration	
5.1 Start Configuration	
5.1.1 To Retrieve an IP Address	
5.1.2 To Login to the Phone	
5.2 Phone Status	
5.2.1 Phone Information	
5.2.2 Network Information	
5.3 Preference	
5.3.1 Language	
5.3.2 User Password	
5.3.3 Administrator Password	
5.3.4 Time Zone	
5.3.5 Auto Dial Time	
5.3.6 Title	
5.3.7 Disable # as Dial Key	
5.3.8 Auto Configurations	
5.3.9 Advance	
5.4 Call Settings	
5.4.1 H.323 Phone	
5.4.1.1 Gatekeeper Mode	
5.4.1.2 Direct Mode	
5.4.1.3 Advance Settings	
5.4.2 SIP Phone	
5.4.2.1 SIP Proxy	
5.4.2.2 SIP Registrar	
5.4.2.3 SIP Phone Number	
5.4.2.4 Display Name	
5.4.2.5 Home Domain	
5.4.2.6 Authentication	

•

3

5.4.4 NAT Traversal	
5.4.4.1 None	
5.4.4.2 Port-forwarding	37
5.4.4.3 Relay Proxy	37
5.5 Phone Settings	
5.5.1 Prefix Dial Timer	
5.5.2 F1 Key Redefine	
5.5.2.1 Prefix	
5.5.2.2 Speed Dial	
5.5.2.3 Calling Function	40
5.5.3 F2 Key Redefine	40
5.5.4 Hold Key Redefine	40
5.5.5 Transfer Key Redefine	40
5.5.6 User Command Timer	40
5.5.7 Enable User Command	40
5.6 Network Configurations	41
5.6.1 LAN Port Configuration	41
5.6.1.1 Obtain an IP Address Automatically	42
5.6.1.2 Specify an IP Address Manually	42
5.6.1.3 PPPOE	42
5.6.1.4 Advance Configurations	42
5.6.2 PC Port Configurations	43
5.6.2.1 Bridge Mode	43
5.6.2.2 Specify an IP Address Manually	43
5.6.2.3 Disable	44
5.6.2.4 Advance Configurations	44
5.6.3 Primary DNS	44
5.6.4 Secondary DNS	44
5.6.5 Timer Server	45
5.7 Phone Book	45
5.7.1 View the Phone Number Record	45
5.7.2 Maintain Phonebook	46
5.8 Online Upgrade	47
5.9 Save Configuration	48

۰

1 Overview

1.1 General Information

EP-636 is a low-priced IP telephone developed by HyberTone Company himself. It is compatible with H.323 V4 and SIP V2, possessing single file of English letters and single file of digital LCD displayer and achieving full dulplex hands-free call. When it is disposed into H.323, EP-636 can cooperate with GK and GW of most H.323. It also has perfect H.450 protocol to complete all telecom value-added services such as call transfer, call forward, call waiting, etc.. Cooperating with soft exchange system, it can totally replace traditional PBX or KEY LINE PHONE. It can also be used as LAN phone or hot-line phone. When it is disposed into SIP, EP-636 can cooperate with most SIP system. Besides having popular g.723 and g.729, it can use low-priced GSM voice compression algorithms. This model is the first-selected one for telecom operators and the main type exported by HyberTone Company.

1.2 Compliance

- Ø SIP 2.0
- Ø H323 V4 Standard
- Ø Transmission Control Protocol/ User Datagram Protocol/ Internet Protocol (TCP/UDP/IP)
- Ø Real Time Protocol (RTP)
- Ø Hyper Text Transfer Protocol (HTTP)
- Ø Address Resolution Protocol (ARP)
- Ø Domain Name System (DNS)
- Ø Dynamic Host Control Protocol (DHCP)
- Ø Network Time Protocol (NTP)
- Ø G.711 a-law and u-law, GSM, G.723, G.729a/b/ab Voice Codec
- Ø Caller ID Display or Block, Call Waiting, Call Hold, Call Transfer, Call Forward, in-band and out-of-band DTMF (RFC2833), and Dial Plans
- Ø Conferencing, hands-free loudspeaker, phonebook, last number redial, call log, volume control, and voicemail message indicator
- Ø BASIC and DIGEST authentication (MD5, MD5-sess)
- Ø Proprietary Firewall-Pass-Through Technology
- Ø Simple Traversal of UDP over NAT (STUN)
- Ø Web-base Management
- Ø PPP over Ethernet (PPPoE)
- Ø PPP Authentication Protocol (PAP)
- Ø Internet Control Message Protocol (ICMP)
- Ø TF TP Client
- Ø User account authentication using MD5
- Ø Out-band DTMF Relay: RFC 2833 and SIP Info

1.3 Hardware Characteristics

- Ø ARM9 133MHZ Processor for high performance
- Ø DSP for voice codec and voice processing
- Ø Two 100BaseT Ethernet ports in comply with IEEE 802.3 for both LAN and PC connection.
- Ø LEDs for Ethernet port status
- Ø 128x64 dot-matrix LCD display for manual access and phone operation.
- Ø Ethernet Bridge
- Ø RAM (16M)
- Ø FLASH (4M)
- Ø Power Adaptor (120V DC/500mA)
- Ø Working Temperature (0-45 degree centigrade)
- Ø Working Humidity (40%-90% not congealed)
- Ø Weight (650g)
- Ø Authentication (FCC CE)

1.4 Software Characteristics

- Ø LINUX OS
- Ø Built-in HTTP, TELNET, COM Port, Phone Manual for accessing internal parameters
- Ø PPPoE dial up
- Ø NAT Broadband Router functions
- Ø DHCP Client
- Ø DHCP Server
- Ø Firmware On-line upgrade
- Ø Phone Book
- Ø Memory Dial
- Ø Caller ID
- Ø Multiple Language Support

1.5 Unpacking the IP Phone Package

Your IP phone box should include the following items:

	(
EP 636 Main Unit	EP-636 Handset
Coiled Phone Cord	One Ethernet Cable (Straight Type)
Power Adaptor: IN: AC100-240V;	IP Phone Warranty Card, User Manual
OUT: DC12V, 500mA	and CD

•

1.6 Front View



Number	Name	Description
1	Main Unit	This is the main unit of the EP-636.
2	Handset	This part is the hardest receiver and microphone, used for phone
		conversation.
3	LCD	This is the LCD of the IP phone.
4	Up/Down	The scroll keys are used to browse the menu list. Press Up key
		to view outgoing calls.
5	OK	This key is used to confirm information input or phone
		operation.
6	ESC	Press this key to exit the current menu selection or entry and
		return to the previous condition.
7	MESSAGE(LED)	It illuminates when there is an unanswered call or voicemail.
8	MENU	Press this key to enter Menu mode.
9	F1(BACKSPACE)	Press this key to move the cursor on the LCD one position
		backward. This key is used for deleting a phone number entry or
		other phone setup entry.
10	F2(CONFERENCE)	Press this key to initiate a three-way conference.
11	PHONEBOOK	Press this key to view and edit the phonebook.
12	Number/Letter key	Refer to Section 3.1.1.
13	HOLD	When endpoint type uses SIP Phone, press this key to hold the
		current call. When endpoint type uses H323 Phone, press this
		key to answer a waiting call or hold the current call and enter

٠

		dial mode.
14	TRANSFER	Press this key to transfer a call to another phone terminal.
15	MUTE	Press this key to mute the voice signal transmitting to the other
		part. LCD shows "Mute" status. Press this key again to resume
		the voice signal transmission.
16	FLASH	When endpoint type use SIP Phone, Press this key to answer a
		waiting call or hold the current call and enter dial mode.
17	REDIAL	Press this key to redial the last outgoing call.
18	MONITOR	Press this key for hands free dial or call monitoring.
19	SPEAKER(LED)	It illuminates while the call is in "speakerphone" status.
20	HOLD (LED)	It illuminates when a call is in hold.

1.7 Rear View

2 Installing the IP Phone

2.1 Preparing the IP Phone

It is important to follow the installation procedures below in order to make sure the correction of operation and to avoid damages to the IP Phone.

- 1) Connect the Coiled Phone Cord to the Handset and to the IP Phone Main Unit as shown in the Front View.
- 2) Plug the AC Power Adaptor supplied to the Power Port of the IP Phone Main Body. Plug the other end of the AC Power Adaptor to a wall outlet. Make sure that the wall outlet voltage matches the specified input voltage on the Adaptor. Incorrect AC Voltage supply may damage the Adaptor or cause the IP Phone not to function properly.
- 3) Connection to the LAN port allows the IP Phone to access the internet. You need to prepare an Ethernet Cable for this connection.

Depending on your network environment, the IP Phone can be set to function as one of the following two modes:

- 1) Non-Router Mode Connect the LAN port to your broadband router or broadband HUB/Switch.
- 2) Router Mode Connect the LAN port to your broadband modem (ADSL/Cable), LAN Hub/Switch or Virtual PC port.

For more detailed information, refer to the connection diagrams as shown below.

2.2 Connection Diagrams

There are mainly two modes of connection: home environment and office environment as follows:

2.2.1 Home User with ADSL/Cable Broadband Connection (PPPOE)



A. LAN Port

This configuration is very typical for home environment whereas a Broadband modem (ADSL or Cable) is installed and PPPOE dialup is used to connect to the ISP. Use Ethernet cable to connect the LAN port of your IP phone to broadband modem (ADSL/Cable), which is connected to internet directly. Configure it into PPPOE.

B. PC Port

Use Ethernet cable to connect the PC port of your IP phone to a PC or Laptop. Configure it into "Obtain a Fixed IP Mode" and enable DHCP service.

2.2.2 Office User in a LAN Environment



A. LAN Port

This is a very typical office environment with a Broadband Router and Switch Hub already installed. Normally, DHCP service of the router is also enabled. Use Ethernet cable to connect the LAN Port of your IP phone to a Router or Switch Hub, which is connected to internet directly. Enable "Obtain an IP Address Automatically".

B. PC Port

Use Ethernet cable to connect the PC port of your IP phone to a PC or Laptop. Bridge Mode is the recommended setting for the IP Phone. In the Bridge Mode, the IP Phone allows a PC connected to the phone to pass through to the network.

Note: NAT Traversal in Call Settings mode has to be enabled.

2.3 Starting the IP Phone

After connecting all the cables and ports, the IP phone LCD will display the following screen:

08:00 AM 01/01 Initializing...

If it's the first time to start the phone, the following screen will appear. The phone is trying to detect your network environment.

```
08:00 AM 01/01
STARTING NETWORK...
```

If your phone is not connected with network, the LCD will display:

```
08:00 AM 01/01
WAN DISCONNECT
```

If your phone is connected with network, the LCD will display the following information orderly instead:

08:00 AM 01/01	08:00 AM 01/01
NETDOWN	UPDATING TIME
08:00 AM 01/01	08:00 AM 01/01
CONNECT SERVER	IP211

Note: the options may be varied in different environment.

3 Using the IP Phone

3.1 Keypad

3.1.1 Number Keys

The following table presents the number keys and their definition. If you need to select numbers, press the number key one time. If you need to select the letters and other symbols displayed on the keys, press the key continuously within 1.5 seconds until the one you need appears.

Key	Representation
0	0, +, -
1	1
2	2, a, b, c, A, B, C
3	3, d, e, f, D, E, F

4	4、g、h、I、G、H、I
5	5, j, k, l, J, K, L
6	6, m, n, ο, Μ, Ν, Ο
7	7、p、q、r、s、P、Q、R、S
8	8, t, u, v, T, U, V
9	9、w、x、y、z、W、X、Y、Z
*	* . , ! ? : Space
#	# @ % &

3.1.2 Function Keys

Refer to the table in Section 1.6 for the description of the function keys.

3.2 Viewing the LCD in Idle State

08:00 AM 01/01	_ → A
IP211	→ В

A. Date and Time

The date and time will then be displayed. At this time the date and time is not correct. Once the IP phone is connected to the internet, it will receive the date and time information from the internet and display the current date and time. There is no need for manual setting of the date and time. If it is showing an incorrect date and time, it means that it have not accessed the internet yet. If the phone settings are correct, it usually can obtain the date and time information within a few minutes.

B. Title

The title displayed on the LCD such as IP211 can be set by the user as he or she likes.

3.3 Call Status Display

Once a call is answered, the LCD displays the information in the table below:

08:00 AM 01/01	→ A
557	ъВ
00:00:01	→ C

A. Date and Time

It is the date and time when the call occurs.

B. Phone Number

It is the phone number of the other side.

C. Duration Time

It displays the period from the time when the connection is successful or the conversation starts to the end of the call.

Once a call is terminated, the LCD displays "Call Ended".

3.4 How to Make a Call

3.4.1 Normal

Pick up the handset. A dial tone is heard from the Handset Receiver. Press the phone number via the number keypad. If you want to delete your input, press "F1". Press "#" or "OK" button

After the call is terminated, place the handset on the cradle to hang up the phone call.



3.4.2 Speakerphone

1) Press "MONITOR" button. A dial tone is heard from the speaker. (This step is optional and can be skipped.)

- 2) Press the phone number via the number keypad
- 3) Press "#" or "OK".
- 4) After the call is terminated, press "MONITOR" to hang up the phone call.



3.4.3 Switching between Normal and Speakerphone

While the IP phone is in normal mode, press "MONOTOR" to switch to speakerphone mode.
 While in speakerphone mode, lift the handset off the cradle to switch to normal mode.

3.4.4 Making a Phone Call with the Up/Down Scroll Keys

1) Pick up the handset or press "MONITOR". (This step is optional and can be skipped. If skipped, the call will be in Speakerphone mode only.)

2) Press to view the outgoing calls' history.

- 3) Highlight the phone number to be dialed out.
- 4) Press "OK".

MONITOR

(OPTIONAL)

3.4.5 Making a Phone Call via Call List

There are three types of phone history: Received Calls, Unanswered Calls, and Outgoing Calls.

1) Pick up the handset or press "MONITOR".

2) Press "MENU" button to view the call list. Press "OK" button.

3) Press "1" to select "MISSED CALLS" history. Press "2" to select "RECEIVED CALLS" history. Press "3" to select "OUTGOING CALLS" history. (You can also press "OK" button to select one item.)

4) Use $\overline{\mathbf{W}}$ to select one phone number to be dialed out.

5) Press "OK" button to dial out the number you want.

3.4.6 Making a Phone Call via the Phone Book

1) Pick up the handset or press "MONITOR".

2) Press "MENU", and use to select "PHONE BOOK". Press "OK". (Or you can press

"PHONEBOOK" button directly.)

3) Press "1" to select "VIEW".

4) Use $\mathbf{\nabla}$ to select one phone number to be dialed out.

5) Press "OK" to dial out the number you want.

3.5 Answering an Incoming Call

1) The IP Phone rings.

2) The caller ID is displayed on the LCD.

3) Pick up the handset or press "MONITOR".



3.6 Answering a Waiting Call

When you are in the process of a call and another call comes in, a short tone sounds in your handset and the LCD displays an incoming call message.

There are two methods for you to select:

(1) First hang up the current call, then picks up the handset and press "FLASH" or "HOLD" key.

(2) Press "FLASH" or "HOLD" key directly during the current conversation.

When endpoint type uses SIP Phone, press "FLASH" key. When endpoint type uses H323 Phone, press "HOLD" key.

3.7 Call Hold

"Call Hold" lets you put a caller on hold for a certain period of time.

1) When you are in the process of a call, if the endpoint type uses H323 Phone, press "HOLD" key to hold the current call and enter dial mode by hearing a dial tone. If the endpoint type uses SIP Phone, press "HOLD" key to hold the current call without hearing a dial tone, or press "FLASH" key to hold the current call and enter dial mode by hearing a dial tone.

2) Enter a new phone number to make another call.

3) After finishing the second call, you can press "HOLD"(H323) or "FLASH" (SIP) again to return to the former call on hold.



Besides, when another call is incoming during the process of your present call, you can also press "HOLD" to put the present call on hold and answer the new incoming call. After pressing "HOLD", you can also do something else such as opening the door, or meeting a guest. Press this key again to return to the former call on hold.

3.8 Call Conference

You can initiate a call conference under the following two circumstances:

When endpoint type uses SIP Phone, press "FLASH" key. When endpoint type uses H323 Phone, press "HOLD" key.

Initiate a Call Conference during a Call



1) Press "FLASH" (SIP) or "HOLD" (H323) to hold the current call in process and to start a new dial tone.

2) Dial a phone number and wait for the called party to answer the call.

3) Press "F2" to enter a three-way conference.

Note: If the call conference initiator hangs up, the call conference will be terminated immediately by hanging up both calls. If one of the called parties hangs up, the three-way conference will be terminated but the call with the other part is not affected.

3.9 Call Transfer

If A and B are in the process of a call, A can transfer A-B call to B-C call. There are two kinds of transfer, which are attended transfer and unattended transfer.

A. Unattended Transfer

When a call is in process and you agree with him/her to have a call transfer, press "TRANSFER", and when you hear dial tone, dial another phone number. When you hear ring tone, just hung up your phone without a conversation with the third party. The detailed steps are described as follows:

1) You and the other party are in the process of a call. After announcing transfer to B, press "TRANSFER".

2) When you hear dial tone, dial the third party's phone number

3) Hang up your phone without announcing transfer to C.



B. Attended Transfer

When a call is in process and you agree with him/her to have a call transfer, press "TRANSFER", and when you hear dial tone, dial another phone number to announce a transfer. If the third party agrees, hang up your phone.

3.10 Voice Mail

In idle state, if there is the function of voice mail, press "OK" to listen to your voicemail messages.

(Or press "MENU" and to select "5. VOICE MAIL" by pressing "OK".)

A. To listen to your voicemail messages

If you have new voice messages, a little envelop will appear in your phone's LCD. Pick up the handset or press "MONITOR", then press "OK", and then follow the guide of the phone to listen to your voice messages.

B. To transfer an incoming call directly to the voicemail system

If you call the other party without an answer, press "OK" to transfer the call into the voice mailbox. Then follow the guide of the phone to send a voice mail.

4 Phone Menu

4.1 Phone Menu Operation

Press "MENU", the screen will display the menu list page by page. Select any item you need by pressing to select it and pressing "OK". If you want to go back to the former screen, press "ESC".

4.2 Menu Content

Note: each item of the menu contents is displayed page by page. The diagram below shows the menu structure.



4.2.1 Call List

A. Press "MENU" and then "OK" to enter the "CALL LIST" menu shown as below.

1.MISSED CALLS 2.RECEIVED CALLS	3.OUTGOING CALLS
---------------------------------	------------------

Select any item by using and then pressing "OK".

1) Select "1.MISSED CALLS" as shown below.

08:00 AM 01/01	
2238128	
John	

2) Press "2" to view the "RECEIVED CALLS".

3) Press "3" to view the "OUTGOING CALLS".

B. The call history of the selected category will be displayed in a chronological order with the

latest called numbers displayed first. Press to move the highlighted number up and down the list. There are 50 numbers stored for each category. Press "OK" to view the action menu for the highlighted number. For example,

1) Select "1" to dial out the displayed number immediately.

1 DIAL	2. TO PHONEBOOK	3 DELETE
I. DIAL	2. TOTHORADOOK	J.DELEIE

2) Select "2" to save the displayed number to phone book memory.

3) Select "3" to delete the number stored.

4.2.2 Phone Book

1) Press "MENU" and select "2. PHONE BOOK" by using and pressing "OK". The following items will be displayed page by page.

1. VIEW 2. ADD NEW

2) Select "1" to view the existing records. If there is no record entered, the LCD displays a "NO NUMBER" message. If there are records in the phone book, the number of each phone record will be displayed as below.

1. 2238128	2. 2550912	3. 2836138

A. Press to browse through the "PHONE LIST".

B. Select "1.2238128" by pressing "OK" to see the operation menu of the number as below. There are three choices: DIAL, EDIT, and DELETE.

1. DIAL	2. EDIT	3. DELETE
---------	---------	-----------

a) Press "1" to dial out the phone number displayed immediately.

b) Press "2" to edit the phone record. You will be prompted to enter the name and the number again.

c) Press "3" to delete the number record.

3) Select "2. ADD NEW" to see the contents to be edited shown as below:

4.2.3 System Tools

Press "MENU" and then select "3. SYSTEM TOOLS" by using and pressing "OK". And you will see the following items.

1. PHONE STATUS	2. SYSTEM VERSION	3. RING VOLUME

4.2.3.1 Phone Status

Select "1" to enter the "PHONE STATUS" menu.

1. LAN PORT	2. PC PORT	3. PHONE NUMBER
-------------	------------	-----------------

1) Select "1" to view the LAN port IP address. If it is configured, the LCD will display

```
192.168.2.211
```

If it is not configured, the LCD will display NOT CONFIGURED

2) Select "2" to view the PC port IP address. If it is configured, the LCD will display

192.168.5.241

NOT CONFIGURED

3) Select "3" to view the phone number such as 2007

4.2.3.2 SYSTEM VERSION

If it is not configured, the LCD will display

Select "2" to see the "SYSTEM VERSION" such as

T32HS-3.05

4.2.3.3 RING VOLUME

Select "3" to see the "RING VOLUME" menu. There are four levels to adjust.

1. OFF	2. LOW	3. MEDIUM	4. HIGH

4.2.3.4 LCD CONTRAST

There are four levels for you to adjust from "*" to "****" by using \heartsuit .

4.2.3.5 RESET CONFIG

Select "4" to see the "RESET CONFIG" menu. You need to input login ID and password. This will reset the internal settings to their default values. Refer to the default setting for the default values. The following parameters will only be affected.

- 1) LAN Port
- 2) PC Port
- 3) Gateway Address
- 4) Primary and Secondary DNSs
- 5) Time Zone
- 6) Endpoint Mode
- 7) H.235 Authentication
- 8) Firewall
- 9) Codec Preference
- 10) FastStart
- 11) Network Tones
- 12) Dialup Network
- 13) DHCP Service
- 14) On-line upgrade

4.2.4 DEVICE CONFIG

Select "4. DEVICE CONFIG" in "MENU" list. You need to input "LODGIN" ID and "PASSWORD" in order to configure the device by menu mode. The ID for user is "user" and the password is "1234". The ID for administrator is "admin" and the password is "dbl#admin".

4.2.5 VOICE MAIL

Select "5. VOICE MAIL" in "MENU" list. And then press "OK" to start this function.

5 Configuration

5.1 Start Configuration

Before starting configuration, you have to do two things: to retrieve an IP address and to log in to the phone.

5.1.1 To Retrieve an IP Address

When you connect to the network, an IP address is the first key to achieve connection in network. In order to access the IP Phone web configuration menu, you must have the phone's IP address, which can be obtained through phone menu following the steps as below:

1) Press "MENU" and then select "3. SYSTEM TOOLS". Press "OK".

2) Select "1. PHONE STATUS" by pressing "OK" ...

3) Select "1. LAN PORT" by pressing "OK" to obtain the LAN port IP address such as 192.168.2.211. If you configure your phone to PPPOE, you have to select "2. PC PORT" to obtain the PC port IP address.



5.1.2 To Login to the Phone

Besides, in order to enter the further step of configuration, you have to log in to the phone including your ID and Password. Once the IP address (for example, 192.168.2.239) is entered in the address bar of the web browser, the computer responds with a login window promptly shown as below. You have to enter your ID and password. The ID for user is "user" and the password is "1234". The ID for administrator is "admin" and the password is "dbl#admin".

Connect to 192.	68.2.239	? 🔀
"Please Login"	3 <u></u>	
User name:		×
Password:	Remember my pass	word

5.2 Phone Status

This chapter describes phone status from phone information and network information. The status window displays the basic information of the system. It is also the first window while logging in to the web configuration utility. You can also bring up this window by clicking "Status" in the left menu bar. The configuration page will be shown as follows.

1		
	Brane	
as	A UOLIC	ono Torminal
	Pho	ne Status
Status	Phone Info	
Preference	Phone Number:	2007
Call Settings	Serial Number:	EP1234567891234
Phone Settings	Firmware Version	T32HS-3.05
Network Configurations	Hardwear Version:	suntra-8790
Dhoon Doole	Network Info	
Online Upgrade	Network Port Configurations:	192.168.2.243
Save Configuration	PC Port Configurations:	
	Dial Up:	
	Default Route:	192 168 2 254
	Name Server:	202.96.128.68

5.2.1 Phone Information

Phone Information includes Phone Number, Serial Number, Firmware Version and Hardware Version.

Phone Number is the telephone number (or extension) you assigned to the IP Phone. It is a sequence of decimal digits that is used for identifying a telephone line in a telephone network. For example, 87957 is a valid phone number.

Each IP Phone comes with a unique Serial Number assigned by the factory. This number is important for centralized configuration, technical support, and warranty repair. This number is printed on the bottom of your IP phone and is associated with your software license. This field is read-only.

The Firmware Version is used to identify the software version.

The Hardware Version is used to identify the hardware prototype.

5.2.2 Network Information

Network information is about the environment in which IP phone works orderly and formally, including LAN Port Configuration, PC Port Configuration, Dial Up, Default Route, and Name Server.

LAN Port Configuration shows the current IP address used by LAN port. The IP Phone LAN port can be configured to obtain its IP address by DHCP or the IP address can be set statically, used mainly while using the phone with a DSL line.

PC Port Configuration shows the current IP address used by PC port. In the Bridge Mode, the IP Phone allows a PC connected to the phone to pass through to the network. No other PC configuration settings are set; the Advanced, Gateway, Primary and Secondary DNS field settings are not required and can be ignored.

Dial Up (PPPOE) shows the status and IP address of your broad band connection. Dial-up networking in the IP Phone has not been enabled. The IP phone is designed to be used over the internet with a broadband connection.

Default Route is the IP address of a router that is used when a device sends a packet to another subnet or when a device sends a packet to an unknown destination.

Each zone is served by at least one **Name Server**, which contains the complete data for the zone. (To make the DNS tolerant of server and network failures, most zones have two or more authoritative servers.) A name server retains the address and routing information for IP users.

5.3 Preference

Click "Preference" on the left menu and the preference configuration page will be displayed as follows.

	Pre	ference	^
Status	Language		
Preference	O Simplified Chinese		
Call Settings	⊙English		
Phone Settings	OGerman		
Network Configurations	OSlovenian		
Phone Book	User Password:	*******	
Online Upgrade	Adminstrator Password:	*********	
Save Configuration	Time Zone:	GMT+8	
	Auto Dial Time:	No Value Set	
	Title:	ip211	
	Disable # as dial key		

5.3.1 Language

Click "Language" to select one language according to your need. For example, if your present language used is English, click "English" in the "Language" menu, and your phone will display all information in English.

5.3.2 User Password

The IP phone supports multiple levels of user administration. The user password is set to allow you to configure the phonebook and other user administrative tasks. The default is "1234".

5.3.3 Administrator Password

The administrator password is set to allow you to modify all configuration items assigned to the IP phone. The default is "dbl#admin".

5.3.4 Time Zone

The IP phone uses Network Time Protocol (NTP) to retrieve date and time information from an NTP server. The time is in GMT \pm offset. For example, Pacific Standard Time is GMT -8, and Pacific Daylight Time is GMT -7.

5.3.5 Auto Dial Time

Auto dial time refers to the time limit of auto dial.

5.3.6 Title

It is the title displayed on the IP phone LCD.

5.3.7 Disable # as Dial Key

If you click this item, when you press "#" key, it will not act as a symbol for ending the entry but as a number input.

5.3.8 Auto Configurations

Auto-configuration is the automatic configuration of devices without manual intervention, without any need for software configuration programs or jumpers. Ideally, auto-configuring devices should just "Plug and Play". Auto configuration has been made common because of the low cost of microprocessors and other embedded controller devices. It includes auto config server and auto config refresh.

5.3.9 Advance...

The network tone is the dial tone one hears when he or she picks up the handset to make a call, and the ring back tone when he or she dial a number. You can select network tones for the IP phone, depending on the country where the phone is located. If you are in China, select "China" as your network tone.

Click "Advance" in the preference configuration page. The network tones configuration page will be displayed as follows.



5.4 Call Settings

This chapter is about the basic settings to set up the internet connection through IP phone, concerning two kinds of endpoint types: H.323 phone and SIP phone. Besides, codec preference and NAT traversal are also included. Click "Call Settings" in the left menu of the configuration page, the "Call Settings" screen will be displayed as follows.

as	y hone	Torminol	<u>^</u>
Status	Endpoint Type	ettings	
Preference	OH323 Phone		
Call Settings	H323 Enpoint Mode		
Phone Settings	OUse a gatekeeper to pla	ace calls	
Network Configurations	Gatekeeper Address:	192.168.2.1	
Phone Book	H323 Phone Number:	2007	
Online Upgrade	Display Name:	No Value Set	
Save Configuration	Uncondictional Forward Number:	No Value Set	
	No Reply Forward Number:	No Value Set	
	Ruger Forward Mumber	Mo Wahas Sat	



5.4.1 H.323 Phone

H.323 is the international standard for multimedia communication over packet-switched networks,

including LANs, and the Internet. It is a standard approved by the International Telecommunication Union (ITU) in 1996 to promote compatibility in videoconference transmissions over IP networks. It is now considered to be the standard for interoperability in audio, video and data transmissions as well as Internet phone and voice-over-IP (VoIP) because it addresses call control and management for both point-to-point and multipoint conferences as well as gateway administration of media traffic, bandwidth and user participation.

If you are the H.323 phone user, you have to refer to the items as follows: Direct Mode, Gatekeeper Mode, and Advance Settings. Refer to the figure above for the configuration page.

5.4.1.1 Gatekeeper Mode

The Gatekeeper (GK) is an H.323 entity on the network that provides address translation and controls access to the network for H.323 terminals, Gateways and MCUs. The Gatekeeper may also provide other services to the terminals, Gateways and MCUs such as bandwidth management and locating Gateways.

If you select the gatekeeper mode, there will be several items needed to be set up as follows: Gatekeeper Address, Phone Number, Display Name, Unconditional Forward Number, No Reply Forward Number, Busy Forward Number and Enable AUTH (Auth ID and Password).

Gatekeeper Address is used for finding the correct gatekeeper. It may be an IP address such as 192.168.2.1 or a domain name like gk.yourisp.com. On the Call Settings screen, enter the gatekeeper address in the "Gatekeeper Address" field.

Phone Number is a sequence of decimal digits that is used for identifying a telephone line in a telephone network. For example, 5551234 is a valid phone number. On the Call Settings screen, enter the phone number in the "Phone Number" field.

Display Name is the parameter name to be displayed on the called IP phone for identification like caller ID such as "John Smith".

Unconditional Forward Number is the number for unconditional forward.

No Reply Forward Number is the number for no reply forward.

Busy Forward Number is the number for busy forward number.

If you click the "**ENABLE AUTH**" field, you will have to configure the Auth ID and Password. A pair of authentication ID and password is usually needed to use the IP phone.

5.4.1.2 Direct Mode

In direct mode, communication between two IP phones can be achieved directly without gatekeeper.

5.4.1.3 Advance Settings

Advance settings include the items as follows: H.323 ID, FastStart, Ras Port, Calling Signaling

Port, Media Control Ports, RTP Ports, RTP QOS, and Transfer Mode. Click "Advance Settings" in the H.323 configuration page, the following screen will be displayed.



H.323 ID is an alphanumeric string representing names, e-mail address, etc. It may be a user name, conference name, e-mail name, or other identifier.

Disable the Fast Start procedure is described in H.225.0. This option is mainly used for testing and solving compatibility problems. If not sure, let this option unselected.

Ras Port is connected to an unreliable channel, which is used to convey the registration, admissions, bandwidth change, and status messages between two H.323 entities.

Call Signaling Port is connected to a reliable channel used to convey the call setup and teardown messages between two H.323 endpoints.

Media control port is the port or port range used by the H.245 media control protocol. Note: the H.245 media control protocol uses TCP.

RTP (Real Time Protocol) Port is the target transport address for the RTP audio stream to be sent to.

RTP QOS is a service field in UDP IP packets carrying a RTP data. Enter RTP QOS if your network supports "DiffServ" and can prioritize the packets to maintain voice quality. It includes three modes: None, IP TOS and DiffServ. As to TOS Value, there are six kinds: Routing, Priority, Immediate, Flash, Flashoverride and Critic/Ecp. Diffserv Class refers to the following items: Best Effort, FWD C1 – from Low Drop to High Drop, FWD C2 – from Low Drop to High Drop, FWD C3 – from Low Drop to High Drop, FWD C4 – from Low Drop to High Drop, and Expedited FWD.

Transfer Mode is set to confirm the way of call transferring.

5.4.2 SIP Phone

SIP (Session Initiation Protocol) is a relatively new Internet standard. It is a simple, low-level protocol for initiating interactive communication sessions between users. These sessions can involve two or more users. Such sessions include voice, video, chat, interactive games, and virtual reality. If you are the SIP phone user, select "SIP Phone" in the configuration page and the SIP phone configuration screen will be displayed.

A			
	hone		
as	H525 Fillers ID Phone	Torminal	
	O SIP Phone		
Status	SIP Proxy:	192.168.2.1	
Preference	SIP Registrar	No Value Set	
Call Settings	SIP Phone Number:	2007	
Phone Settings	Display Name:	No Value Set	
Network Configurations	Home Domain:	No Value Set	
Phone Book	🖬 Enable SIP Auth		
Online Upgrade	SIP AUTH ID:	No Value Set	
Save Configuration	SIP AUTH PASSWORD:	*****	
	Advance Settings		
	Codec Preference		
	Nat Traversal		~

5.4.2.1 SIP Proxy

The SIP Proxy acts as the call manager of all the incoming or outgoing calls to and from the SIP phone. The proxy address is the IP address or domain name of your IP-PBX or VoIP Service Switch. For example, sip.yourisp.com or 192.168.2.197 may be a proxy address.

5.4.2.2 SIP Registrar

SIP Registrar is a SIP server responsible for keeping track of where a user is contactable, and providing that information to callers.

5.4.2.3 SIP Phone Number

The SIP Phone Number is the telephone number (or extension) you assigned to the VoIP SIP Phone such as 123456.

5.4.2.4 Display Name

Display Name is what the call party sees on his phone LCD when you call them such as "John Smith".

5.4.2.5 Home Domain

5.4.2.6 Authentication

Authentication mainly is the identification of the user. The IP messages between two parties use an authentication mechanism based on IDs and passwords. The authentication IDs and passwords are the credentials to determine whether the "IP Proxy" should accept or reject a session invitation.

5.4.2.6 Advance settings

Advance settings include **DTMF Payload Type, Register Expiry, SIP Local Port, SIP Outbound Proxy, SIP Stun Server, SIP Operation Mode, DTMF Relay, Enable Call Forward, RTP Port,** and **RTP QOS**. The configuration screen is shown below.

	SIP (OPTIONS	^
Status	DTMF Payload Type:	No Value Set	
Preference Call Settings Phone Settings Network Configurations Phone Book	Register Expiry: SIP Local Port: SIP Outbound Proxy: SIP Stan Server: SIP Operation Mode: Voice mail number:	No Value Set No Value Set No Value Set No Value Set No Value Set No Value Set	
Online Upgrade Save Configuration	DTMF Type Inband DTMF Outband DTMF Outband DTMF Type		

1		
	hone	
	Outband DTMF Type	
Status	●RFC2833	
Preference	O SIP Info	
Call Settings Phone Settings Network Configurations Phone Book Online Upgrade Save Configuration	 Enable MWI Disable keep alive Disable call wait Forward Type Not Forward Unconditional Forward Forward On Busy Call Forward Number No Value Set 	
	Call Forward Number: No Value Set	



1	Bone	
asy	Diffserv Class	<u> </u>
	O Best effort	
Drafarance	OFWD C1 - low drop	
Coll Settings	OFWD C1 - medium drop	
Dhone Settings	OFWD C1 - high drop	
Network Configurations	OFWD C2 - low drop	
Phone Book	OFWD C2 - medium drop	
Online Upgrade	OFWD C2 - high drop	
Save Configuration	OFWD C3 - low drop	
	OFWD C3 - medium drop	
	OFWD C3 - high drop	
	OFWD C4 - low drop	

DTMF Payload Type is used to carry telephony tones and telephony signals. By using a distinct dynamic RTP payload type in the same RTP stream as the media, it is possible to carry DTMF tones, fax-related tones, standard subscriber line tones, country-specific tones and trunk events.

Register Expiry is the deadline for the validity of your registration. If you miss this date, you will have to register again.

SIP Local Port is the local UDP port used by the SIP client to communicate with SIP proxy and other SIP user agents.

In most cases, the **SIP Outbound Proxy** is placed alongside the firewall and is the way to let SIP traffic pass from the internal network to the Internet. Ask your network administrator for these parameters.

STUN stands for Simple Traversal of UDP over NAT. It is a protocol which enables the SIP phone to detect the presence and type of NAT behind which the phone is placed. SIP Stun Server refers the SIP address of the Stun Server.

Voice Mail Num is the number for voice mail.

SIP Operation Mode is to enable some vendor specific support. Your service provided will provide the appropriate value if needed, otherwise let it be empty.

DTMF Type is used for telephone signaling over the line in the voice frequency band to the call switching center. It includes two types: Inband and Outband (RFC2833 and SIP Info).

Enable MWI.

Disable Keep Alive.

Disable Call Wait.

Forward Type includes three types: Not Forward, Unconditional Forward, and Forward on Busy.

Call Forward Number is the number for call forward.

RTP Port is the target transport address for the RTP audio stream to be sent to.

RTP QOS is a service field in UDP IP packets carrying a RTP data. Enter RTP QOS if your network supports "DiffServ" and can prioritize the packets to maintain voice quality. It includes three modes: **None, IP TOS** and **DiffServ.** As to TOS Value, there are six kinds: Routing, Priority, Immediate, Flash, Flashoverride and Critic/Ecp. Differserv Class refers to the following items: Best Effort, FWD C1 – from Low Drop to High Drop, FWD C2 – from Low Drop to High Drop, FWD C3 – from Low Drop to High Drop, FWD C4 – from Low Drop to High Drop, and Expedited FWD.

5.4.3 Codec Preference

Codec preference is the order of voice codec. The default one is up transmitting, which is the set mode for common users. The below figure is the codec preference configuration page.

		AUDIO C PREFERI	ODEC ENCE	
atus	Disable	Codec	Prefer	rence
ference	[]	alaw	up	down
1 Caller	[]	ulaw	up	down
n Seunds	[]	g729	up	down
ne Settings	[]	g729a	up	down
twork Configurations	[]	g729ab	up	down
ne Book	[]	gsm	up	down
ne Upgrade	[]	g7231	up	down

5.4.4 NAT Traversal

NAT Traversal can make and receive calls through any type of NAT device. Click "NAT Traversal" and the following screen will be displayed.



5.4.4.1 None

None means there is no traversal mechanism supported.

5.4.4.2 Port-forwarding

Port-forwarding is the action of forwarding network ports on the LAN interface to PCs or servers in LAN network. Virtual servers use this technique to allow external users, in most cases via internet, to reach services provided by internal servers such as FTP, HTTP, Telnet, etc.

Port-forwarding Support includes Gateway Address and Echo Server Address. Gateway is a communication device that connects two different networks. Echo server is a standard service implementing the ECHO protocol.

5.4.4.3 Relay Proxy

Relay Proxy is HyberTone's proprietary NAT traversal technology which enables HyberTone's VoIP terminals to achieve successful deployment in most LAN environments. It includes Address, Ports, User Name, and Password.

5.5 Phone Settings

The Phone Settings configuration is shown as below:

as	y hone	Torminal	^
	Prefix Dial Timer	No Value Set	
Preference	🖬 F1 key Redefine		
Call Settings	F1 KEY REDEFINE MOD	E	
Phone Settings	OPrefix		
Network Configurations	PREFIX NUM	No Value Set	
Phone Book	Calling Function Number:	No Value Set	
Online Upgrade	O Speed Dial		
Save Configuration	O Calling Function		
	F2 Key Redefine		
	Hold Key Redefine		~

A			
A Los	yhone		
	Hold Key Redefine		<u>^</u>
Status	Transfer Key Redefine		
Preference	User Command Timer: 🖬 Enable User Command	No Value Set	
Call Settings Phone Settings	Get LAN port IP:	*01	
Network Configurations Phone Book	Set LAN port IP:	*03	
Online Upgrade	Set PC port IP: Get phone number:	*04 *05	
Save Configuration	Transfer Key. Hold Key:	*41 *42	
	Dial From Phone Book: Dial last receive call number:	*50 *51	

۰

- As	hone		
	Dial last receive call number:	*51	^
	Dial last missed call number:	*52	
Status	Dial last dial number:	*53	
Preference	Get last receive number:	*54	
Call Settings	Get last missed call number:	*55	
Phone Settings	Get last dial number:	*56	
Network Configurations	Reset network config	*09987456	
Dhaas Daala	Reset syscfg	*09987654	
Phone Book	Do not disturb:	*80	
Online Upgrade	Disable do not disturb:	*85	
Save Configuration	Disable all caller ID send:	*81	
	Enable all caller ID send:	*82	
	Disable next caller ID send:	*83	
	Enable next caller ID send:	*84	~

5.5.1 Prefix Dial Timer

Prefix dial timer is the time limit of dialing the prefix number. The default is 30 seconds.

5.5.2 F1 Key Redefine

There are three hold key define modes as below.

5.5.2.1 Prefix

Prefix Num refers to the first several numbers of the phone number. For example, if you define it to 123. When you dial a phone number as 12345, you only need to press the F1 key and then dial the back two numbers 45.

Calling Function Num refers to the star command or a phone number you predefine to use in the phone operation. For example, you define it to *42, which you define for call transfer. When you are in the process of a call, press the F1 key and you will send the transfer command.

5.5.2.2 Speed Dial

Speed Dial Num is the number for speed dial. If you define it to 12345, when you want to make a

۰

speed dial to call 12345, you just press the F1 key to make the speed connection.

Calling Function Num refers to the star command or a phone number you predefine to use in the phone operation. For example, you define it to 1234. When you are in the process of a call, press the F1 key and you will send the 1234 number information.

5.5.2.3 Calling Function

Calling Function Num is described as above.

5.5.3 F2 Key Redefine

5.5.4 Hold Key Redefine

5.5.5 Transfer Key Redefine

5.5.6 User Command Timer

User Command Timer is the time limit of inputting the star command.

5.5.7 Enable User Command

Click "Enable User Command", and set the star commands for different functions as shown in the	le
table below. The values in the table are just examples, and you can set them as you like.	

Get LAN Port IP (*01)	Press *01 to get LAN port IP address.
Get PC Port IP (*02)	Press *02 to get PC port IP address.
Set LAN Port IP (*03)	Press *03 to set LAN port IP address.
Set PC Port IP (*04)	Press *04 to set PC port IP address.
Get Phone Number (*05)	Press *05 to get phone number.
Transfer key (*41)	Press *41 to transfer a call.
Hold key (*42)	Press *42 to hold a call.
Dial From Phone Book (*50)	Press *50 to dial from phone book.
Dial Last Receive Call Number (*51)	Press *51 to dial last receive call number.
Dial Last Missed Call Number (*52)	Press *52 to dial last missed call number.
Dial Last Dial Number (*53)	Press *53 to dial last dial number.
Get Last Receive Number (*54)	Press *54 to get last receive number.
Get Last Missed Call Number (*55)	Press *55 to get last missed call number.
Get Last Dial Number (*56)	Press *56 to get last dial number.
Reset Network Config (*09987456)	Press*09987456 to reset network configuration.
RESET Syscfg (*09987654)	Press *09987654 to reset system configuration.

Do Not Disturb (*80)	Press *80 to start the function of "Do Not
	Disturb".
Disable Do Not Disturb (*85)	Press *85 to disable the function of "Do Not
	Disturb".
Disable All Caller ID Send (*81)	Press *81 to disable all caller ID send.
Enable All Caller ID Send (*82)	Press *82 to enable all caller ID send.
Disable Next Caller ID Send (*83)	Press *83 to disable next caller ID send.
Enable Next Caller ID Send (*84)	Press *84 to enable next caller ID send.

5.6 Network Configurations

The Network Configurations screen as follows allows you to set up the IP addresses of the LAN and PC port, Bridge or Router mode (by selecting or deselecting Bridge Mode), default Gateway Address, and Primary and Secondary DNS server IP addresses. It includes LAN Port Configuration and PC Port Configuration.



5.6.1 LAN Port Configuration

The IP phone LAN port can be configured to obtain its IP address by DHCP or the IP address can be set statically (used mainly when using the phone with a DSL line). There are three modes to configure LAN port: Obtain an IP Address Automatically, Specify an IP Address Manually, and PPPOE.

5.6.1.1 Obtain an IP Address Automatically

This selection enables the IP phone to obtain an IP address from the LAN network. When selecting this selection, make sure that the network DHCP server is enabled.

Note that certain broadband service providers may offer a direct LAN connection with DHCP Service. The address obtained from the network may or may not be a public address. Consult your service provider for more information on this. If the IP address obtained is a private address, you will have to use relay proxy server in order to establish VOIP calls. Port forwarding is normally not possible since you have no access to the service provider's router.

5.6.1.2 Specify an IP Address Manually

Either a fixed public IP address or a private IP address can be entered for the LAN port depending on the network service provided.

If a fixed IP service is available, enter the IP address, the subnet mask, the gateway address, the primary DNS, and the secondary DNS which are provided by your network service provider. Make sure that no other device is using the same fixed IP address for internet access. If your PC is using the same fixed IP address for internet access, you need to change it to a private IP address and then connect it to the LAN port of the IP phone. Make sure that the IP phone LAN port and the PC are in the same IP address segment.

5.6.1.3 PPPOE

PPPOE, point-to-point protocol over Ethernet, is a network protocol for encapsulating PPP frames in Ethernet frames. It is used mainly with cable modem and DSL (Digital Subscriber Line) services. Click "PPPOE", and you will see "User Name" and "User Password". Select "PPPOE", if you require the IP phone to dial-up to your ISP directly. This type of dial-up is very popular in the ADSL and AN/PC access service. In this mode, the IP phone will also function as a router for internet sharing.

5.6.1.4 Advance Configurations

Click Advance Configurations and you will see the following items as shown in the below screen:

	Advance	Configuration
Status	Hardware Address:	No Value Set
reference Call Settings	Broadcast Address:	No Value Set
Phone Settings Network Configurations	VLAN ID: VLAN QoS:	No Value Set No Value Set
rnone Book Online Upgrade Save Configuration		

Hardware Address is an address used to enter the MAC address in XX: XX: XX: XX: XX: XX format.

Broadcast Address is an address used to communicate with the other computers connected to the PC side of the SIP Phone.

Click "VLAN Enable", and you will have to input VLAN ID and VLAN QoS.

5.6.2 PC Port Configurations

PC port is configured to make a connection of the network and telephone. There are two modes to configure a PC port: Bridge Mode and Specify an IP Address Manually.

5.6.2.1 Bridge Mode

In the Bridge Mode, the IP Phone allows a PC connected to the phone to pass through to the network. No other PC Configuration settings are set; the Advanced Settings, Gateway, Primary and Secondary DNS field settings are not required and will be ignored.

5.6.2.2 Specify an IP Address Manually

Click "Specify an IP Address Manually", and enter "IP Address" and "Subnet Mask". To Enable DHCP Service, you have to know the starting address, which is used to start the service; and the ending address, which is used to end this service.

5.6.2.3 Disable

Click this item to disable the PC port.

5.6.2.4 Advance Configurations

Click Address Settings and you will see the following items as shown in the below screen: Hardware Address and Broadcast Address.



5.6.3 Primary DNS

DNS is the abbreviation for domain name server, domain name system. A database of Internet names and addresses that translates the names to the official Internet Protocol numbers and vice versa; the distributed name-and-address mechanism used in the Internet. Primary DNS is the primary DNS server IP address. You can obtain this from your ISP (For example: 202.67.156.221). If PPPoE Dialup Networking is used, the Primary DNS will be obtained automatically from the ISP. This entry can be left blank.

5.6.4 Secondary DNS

It is the secondary DNS server IP address that will be used in the event that the primary DNS

server IP address fails or is not available. You can obtain this from your ISP (For example: 202.67.156.222). If PPPoE Dialup Networking is used, the Secondary DNS will be obtained automatically from the ISP. This entry can be left blank.

5.6.5 Timer Server

Time Server is the Network Time Protocol server where the IP Phone retrieves date and time information.

5.7 Phone Book

Users are able to store up to 50 phone numbers by pressing the "Phone Book" button. For each of the 50 phone book numbers, the user can store both a number and name for display. The configuration web of phone book is shown as follows.

	vho	ne			
EQ.3		IP Phot	ie Book	101	
	Name	Number	IP	Email	
Status	APPLE	123	1	1	
Preference					
Call Settings					
hone Settings					
Vetwork Configurations					
'hone Book					
Inline Ungrade					
Sum Configuration					
oave Configuration					
	Pre	¥.	Add	Next	
	<			Lannand	1 13

5.7.1 View the Phone Number Record

In the "Phone Book" window, Name, Phone number, IP and Email are displayed. When there are more than 10 records, use "Prev." and "Next" to view the other records.

5.7.2 Maintain Phonebook

A. To Add a New Record

Press "Add" button to add a new record. Then the screen will be displayed as follows.

A ds	yphon	8
		Phone Book
Status	Name:	Smith
Preference	Number	234
Call Settings	Ivuenoer.	2.54
Phone Settings	IP:	192.168.2.13
Network Configurations	Email	smith@163.com
Phone Book		pris address
Online Upgrade	Save	
Save Configuration		

After entering all items, click the "Save" button to save the information you have entered.

B. To Modify or Delete a Record

Click "Name" to modify the record content. The screen as follows will be displayed.

as	yphon	B Phone Terminel	
		Phone Book	
Status	Name:	APPLE	
Preference	Number	123	
Call Settings	INGENOEL.	125	
Phone Settings	IP:	1	
Network Configurations	Email	1	
Phone Book			
Online Upgrade	Save	DELETE	
Save Configuration			

After entering the items you want to modify, click the "save" button to save your modification. If you want to delete this record, just click the "DELETE" button and this record will be deleted from the phone book menu.

5.8 Online Upgrade

WARNING! Performing an online upgrade is for experienced users or administrators only! Click "Online Upgrade" button in the left menu of the configuration page. Enter the IP address or domain name of the upgrade server and package name (for example, http: //192.168.2.1/update/T32HS-3.05.pkg) and then click "Start".

•

	hone	
0	5 ун 100 о	Phone Torminol nline Upgrade
Status		
Preference	Upgrade Site:	192.168.2.1/update/T32E
Call Settings		Start
Phone Settings		
Network Configurations		
Phone Book		
Online Upgrade		
Same Configuration		

5.9 Save Configuration

When you make any configuration changes to your IP phone, you must save the configuration you have done. Otherwise, your configuration will not take effect. Just click "Save Configuration" in the left menu of the configuration page and you will see the following screen, which means your configuration has been saved.

	abone
dsy	TP Phone Torminel Save Config
Status	Configuration Saved.
Preference	
Call Settings	
Phone Settings	
Network Configurations	
Phone Book	
Online Upgrade	
Constant of the second s	

۰