

This guide instructs the user on ePhone3 V2 features and how to use them.



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Phone settings >> Time/Date	
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Phonebook >> Call List	
Phonebook >> Web Dial	
Phonebook >> Advanced	
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Safety

Please read the following safety notices.

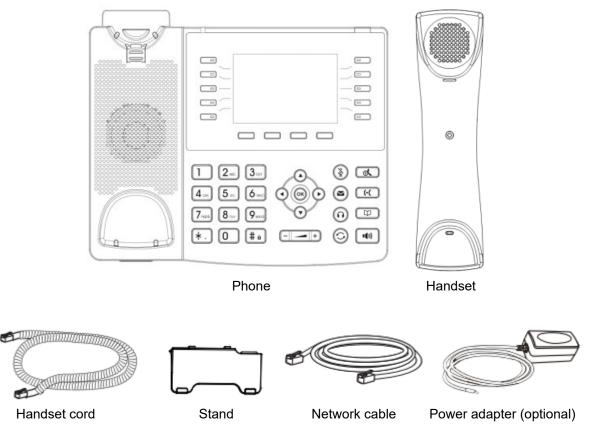
- If using a power supply, please use the power supply offered by ESI. Other power supply may cause damage to the phone, affect the behavior or induce noise.
- Verify that building power is good. Bad power may cause noise, fire or damage.
- Do not damage the power cord. If power cord or plug is damaged, it may cause fire or electric shock.
- Do not expose the phone to extreme forces such as dropping it. Rough handling can damage it.
- This phone is designed for indoor use. Do not install the phone in places where there is direct sunlight. Do not get the phone wet. Do not install the phone in a poorly ventilated area.
- Avoid exposing the phone to high temperature or below 32°F (0°C) or high humidity.
- Do not attempt to open the phone. It could be damaged or induce electric shot. It will void warranty.
- Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the phone. Clean the phone with a soft cloth that has been slightly dampened in a mild soap and water solution.
- Use caution when lightening is in the area.
- Before installing equipment and cabling, be familiar with the facility and any hazards such as electrical wires in the walls.

Overview

Introduction

The ESI ePhone3 V2 Phone is a cost effective feature rich phone that offers HD Audio, echo cancellation and more. It is an ideal choice for day to day office communications.

Packing Contents



Desktop Installation

PoE and external power adapters

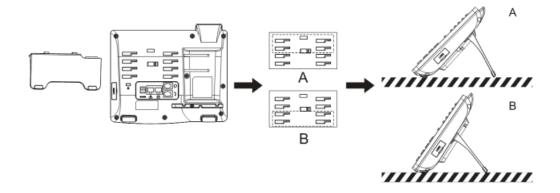
The phone can be powered up two ways, external power adapter or Power over Ethernet (PoE).

With a PoE switch, the phone is provided power through a single Ethernet cable which is also used for data.

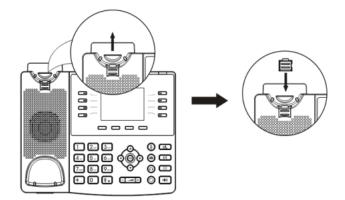
For users who do not have PoE equipment, a traditional power adaptor that plugs into a wall outlet should be used. If the phone is connected to a PoE switch and power adapter at the same time, the power adapter will be used in priority and will switch to PoE if the power adapter fails.

Desktop installation

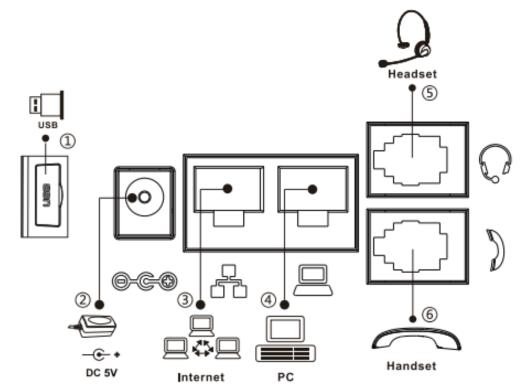
Follow the instructions in the image below to install the phone stand.



Orient handset hook to desired orientation as shown below.



Connect the optional power adapter, network, PC, handset and headset to the appropriate port as shown in the below.



Index	Interface	Description
1	USB Port (on side of phone)	Connect USB Disk for recordings
2	Power Port	Connect Power Adapter
3	Network Port	Connect to LAN or Internet
4	PC Port	Network pass through for Connecting Computer
5	Headset Port	Connecting Headset
6	Handset Port	Connect Handset

lcons

Keypad Icons

Icon	Description
Ċ	Redial
m	Contacts (Phone Book)
	Hands-free speaker
¥⊈	Mute Microphone (During Call). Mute Ring (while phone is idle)
	Volume up / down
©≮.	Hold
0	Headset
M	Voicemail (MWI)
(•(Transfer

Status Prompt and Notification Icons

Screen Icon	Description
>>>>	Call out
(""")	Call in
	Call Hold
	Network Disconnected
12	Open VLAN
	Open VPN
ž	Keypad Locked
(+	Call forward calls
マ	Outgoing calls
હ	Incoming calls
ও স	Missed calls
	SMS
0.0	New voice message waiting

	Do-Not-Disturb inactivated on Phone
(-	Call forward activated
A	Auto-answering activated
	Hands-free (HF) Mode
O	Headphone (HP) Mode
2	Handset (HS) Mode
<u>2</u>	Mute Microphone
0	Voice call quality
Ô	Voice encryption while on a call
HD	High Definition Audio
۲	Record
(L)	SIP Hotspot
≫	Bluetooth
	Wi-Fi
	USB Insert
	USB overload
N	·

Keypad characters

Mode Icon	Text Mode	Key Button	Characters Of Each Press
		1	1
		2	2
		3	3
		4	4
		5	5
409	Numerie	6	6
123	Numeric	7	7
		8	8
		9	9
		0	0
		*	*.+
		#	#
		1	@:;()<>
		2	abc
		3	d e f
		4	ghi
		5	jkl
101053	Lower Case	6	m n o
abc	Alphabets	7	pqrs
		8	t u v
		9	w x y z
		0	(space)
		*	.,*/+-:_=
		#	# ^!&\$%
		1	@:;()<>
		2	АВС
		3	DEF
		4	GHI
		5	JKL
ADC	Upper Case	6	ΜΝΟ
ABC	Alphabets	7	PQRS
		8	TUV
		9	WZYX
		0	(space)
		*	.,*/+-:_=
		#	# ^!&\$%
		1	1
		2	2 a b c A B C
2aB	Mixed type input	3	3 d e f D E F
LOU		4	4 g h l G H l
		5	5 j k I J K L
		6	6 m n o M N O

7	7 p q r s P Q R S
8	8 t u v T U V
9	9 w z y x W Z Y X
0	0
*	.,*/+-:_=
#	# ^!&\$%

DSS key LED state definitions

Туре	LED Light	State
	Off	Line inactive
	Green On	Line ready (Registered)
	Green Blinking	Ringing
Line Key	Red Blinking	Line is trying to register
	Red Blinking	Line error (Registration failure)
	Red On	Dialing/Line in use (Talking)
	Yellow Blinking	Call holding
	Green On	Subscription number is idle.
BLF	Red On	Subscription number is busy.
DLF	Red On	Subscription number is dialing.
	Off	Subscription number is unavailable.
Presence	Green On	Subscription number is idle.
	Red On	Subscription number is busy.
	Red On	Subscription number is dialing.
	Off	Subscription number is unavailable.
DND	Red On	Enable DND
	Off	Disable DND
NA\A/I	Green Blinking	New voice message waiting
MWI	Off	No new voice message

User Introduction

Keypad



Number	The keypad names	Instruction
1	Side Keys	The keys along the side of the display can be programmed to perform various functions.
2	Soft-menu Keys	These four keys provide different functions which correspond to the soft- menu displayed on the screen.
3	Keypad	The 12 standard telephone keys provide the same functionality as standard telephones. Some keys also provide special a function by long-pressing the key. Example: Key # - Long-pressed to lock the phone.
4	Navigate/OK Keys	Navigate keys: Press the up/down navigation key to move the cursor in a list. On some Settings, the user can press the left/right navigation key to change options or move the cursor. OK key: Press OK to confirm an action.
5	Volume Down, Volume Up Key	While the phone is in the idle standby state, press this key to increase or decrease ringing volume. While on a call, press this key to increase or decrease the volume.

6	Mute Key	During a call, the user can press this key to mute the microphone.
7	Hold Key	Press the Hold key during a call to put the call on hold, and press the Hold
	,	key again to resume the call.
8	Voice Mail	Press the Voice Mail key to enter the voicemail list.
9	Transfer Key	Press the Transfer key to transfer a call to another extension.
10	Headset Key	Press Headset key to enable headset.
11	Contacts Key	Press the Contact key to enter contacts, which is also referred to as address
		book and phone book.
12	Redial	Press the Redial key to redial the last number dialed
13	Hands-free Key	Press the Hands-free key to enable speakerphone.

Using Handset / Hands-free Speaker / Headset

- Using Handset To talk over handset, lift the handset and dial the number, or dial the number first, then lift the handset and the number will be dialed.
- Using Hands-free Speaker
 To talk over hands-free speaker, user should press the hands-free key then dial the number, or just dial the number.
- Using Headset To use headset, press the headset key then dial the number, or dial the number then press the headset key.
- Using Line Keys (Defined by DSS Key)
 User can make or answer a call on a specific line using a DSS key that has been programmed as a handsfree key, answer key, etc.



Idle Screen

The image above shows the default standby screen, which is the user interface most of the time.

The upper half of the home screen shows the status and information such as voice messages, missed calls, auto answer, do not disturb, lock status, network connection status, etc.

The lower half of the screen is the function menu keys, through which users can operate the phone. Users can restore the phone to the default standby screen interface by picking up and dropping the handle.

The left and right side of the screen show the side key configurations, which can be customized by the user.

Phone Status

From the phone, press the Menu key then select Status. The phone status includes the following phone information:

- Network status:
 VLAN ID
 IPv4 or IPv6 status
 IP Address
 Network Mode
- Phone Information: Mac Address Phone Model Hardware Version number Software Version number Phone Storage (RAM and ROM) System Running Time
- SIP Account Information: SIP Account
 SIP Account Status (register / uncommitted / registering / time out)
- TR069 Connect Status (Displays only in the phone interface state) The user can view the phone status through the phone interface and the web interface.

To view phone status from the phone, press Menu then select Status.

4	Network	Phone	Account	TR069	Þ
	1. Vlan Id		None		
	2. Mode		DHCP/IPv4		
	3. IPv4		172.16.7.20	9	
	Return			and the second second second	

WEB interface: Refer to **Web Management**. Log in the phone page and navigate to [System] >> [Information] as shown below:

	Information Account	Configurations Upgrade Auto Provision Tools Reboot Pho
> System		
	System Information	
> Network	Model:	ePhone3 v2
	Hardware:	V1.0
> Line	Software:	2.4.7.5
	Uptime:	00:00:44
Phone settings	MEMInfo:	ROM: 29.8/128(M) RAM: 2.2/54(M)
	System time:	08:32 16 SEP THU (SNTP)
› Phonebook	Network	
> Call logs	WAN	
	Network mode:	DHCP
Function Key	Ethernet MAC:	00:30:4d:04:83:44
,	IPv4	
> Application	Ethernet IP:	192.168.254.19
	Subnet mask:	255.255.255.0

Web Management

Phone can be configured and managed from its web interface. Enter the IP address of the phone and log in. The user can find the IP address of the phone by navigating to [Menu] >> [Status] at the phone.

User:	admin
Password:	•••••
Language:	English 🔍
	Login

User must correctly enter the user name and password to log in to the web page. The default user name and password are "admin". For specific details on the web interface, refer to **Web Configurations** section.

Network Configurations

The phone requires an IP network to operate. From the phone, go to [Menu] >> [Advanced Settings] >> [Network] >> [Network].

The default password for advanced settings is 123.

NOTICE! If user sees WAN Disconnected' icon flashing in the middle of screen, it means the network cable is not correctly connected to the device's network port. Check that the cable is connected correctly between the phone and to the network switch.

The phone supports three types of networks; IPv4, IPv6, and IPv4&IPv6 There are three common IP configuration modes for IPv4:

- DHCP (Dynamic Host Configuration Protocol) The phone will automatically retrieve its network configuration from a DHCP server. Users do not need to configure any parameters manually. This is recommended for the most users. This is the phones default network setting.
- Static IP Configuration This option allows user to configure each IP parameters manually, including IP Address, Subnet Mask, Default Gateway, and DNS servers. This method requires network knowledge to implement.
- PPPoE This option is often used to connect the phone to a broadband modem or router. To establish a PPPoE connection, user should configure username and password provided by the service provider.

The device is default configured in DHCP mode.

There are two common IP configuration modes for IPv6

- DHCP (Dynamic Host Configuration Protocol) The phone will automatically retrieve its network configuration from a DHCP server. Users do not need to configure any parameters manually. This is recommended for the most users. This is the phones default network setting.
- Static IP Configuration This option allows user to configure each IP parameters manually, including IP Address, Subnet Mask, Default Gateway, and DNS servers. This method requires network knowledge to implement. Refer to **Network Settings** for details.

SIP Configurations

A line must be configured properly for telephony service. When the phone line is configured, the phone will register to the service provider with the server's address and user's authentication as stored in the configurations.

The user can configure the interface at the phone or the webpage, and input the corresponding information at the registered address, registered user name, registered password, SIP user and registered port respectively, which are provided by the SIP server administrator.

Phone interface: To manually configure a line, the user can long press a line key, or configure a line.
 Go to [Menu] >> [Advanced] >> [Accounts] >> [SIP n]. When done configuring the line, select OK to save the configuration.

NOTICE! User must enter correct password to access Advanced settings. The default password is 123.

4225 18:07 1. Registration Enabled \$3 2. Server Address 172.16.1.2 3. Auth. User ***** 4. Auth. Password 4225 SIP User Return Left Right OK

The Basic parameters of the SIP line are shown in the picture below.

• WEB interface: After logging into the phone page, enter [Line] >> [SIP] and select the line to configure from the drop down list. Enter SIP register information and click Apply to complete registration as shown in the example below. Don't forget to check 'Activate'.

Line 4225@SIP1						
Register Settings >>						
Line Status:	Registered	Activate:				
Username:	4225	Authentication User:				
Display name:	4225	Authentication Password:	••••			
Realm:		Server Name:				
SIP Server 1:		SIP Server 2:				
Server Address:	172.16.1.2	Server Address:				
Server Port:	5060	Server Port:	5060			
Transport Protocol:	UDP 💌	Transport Protocol:	UDP 💌			
Registration Expiration:	3600 second(s)	Registration Expiration:	3600 second(s)			
Proxy Server Address:		Backup Proxy Server Address:				
Proxy Server Port:	5060	Backup Proxy Server Port:	5060			
Proxy User:						
Proxy Password:						

Basic Function

Making Phone Calls

Default Line

The device provides 8 lines of service. If two lines are configured, user can make or receive phone calls on either line. If default line is configured by user, there will be a default line for making outgoing calls indicated in the top left corner of the screen. To change the default line, user can press left/right navigator keys to switch between two lines

Enable or disable default line: From the phone, press [Menu] >> [Features] >> [General] >> [Default Line] and toggle to Enabled or Disabled. Press OK to save.

From the Web Interface go to [Phone Settings] >> [Features], and check or uncheck [Enable Default Line].



• Dialing Methods

User can dial a number by,

- Entering the number directly.
- Selecting a phone number from Local Contacts. Refer to Local Contacts.
- Selecting a phone number from Cloud Contacts. Refer to **Cloud Phonebook**.
- Selecting a phone number from Call Logs (Refer to Call Log.
- Press Redial to dial the last dialed number.
- Dialing Number then Open Audio

To make a phone call, user can dial a number by one of the above methods. When the dialed number is completed, user can press [Dial] key on the soft-menu, or press hand-free key to turn on the speaker or headphone, or lift the handset to call out with the current line, or user can press line key (Configured by DSS Keys) to call out with specified line.

() 1003	10 : 48		
1003@Sl		Voice Mail	
SIP2	100	Headset	
SIP3	1000		
SIP4	1000	Record	
SIP5	1000	1 2	
Dial	Save	Delete	End

• Go offhook then Dial the Number

Go offhook by lifting the handset, or pressing the hands-free speaker key, or pressing the headset key, or pressing a line key, and then dial the number with one of the above methods. When number has been dialed, user can press [Dial] key or [OK] key to call out, or the number will be dialed automatically after timeout.

4 » 1003	10 : 48		
1003@Sl		Voice Mail	
SIP2	100	Headset	
SIP3	1000		
SIP4	1000	Record	
SIP5	1000	1 2	
Dial	Save	Delete	End

Cancel Call

While calling the number, user can disconnect the call by placing back the handset, pressing the hands-free key or by pressing the End key.



Answering Calls

When there is an incoming call while the device is idle, the user will see the incoming call on the screen as shown below.

4 » 1003			11:04
1003@SI			Voice Mail
SIP2		1000 1000	Headset
SIP3			
SIP4		(((((((((((((((((((((((((((((((((((((((Record
SIP5			1 2
Answer		Fwd	Reject

User can answer the call by lifting the handset, by pressing the headset key, by pressing the hands-free speaker key, or by pressing the Answer key. To reject the incoming call, press Reject key.

Talking

When the call is connected, user will see a talking mode screen as the following figure.



Number	Name	Description
1	Default line	The line that is currently in use by the phone.
2	Voice channel	The voice channel mode being used (handset, handsfree, headset).
3	Current call	The call that is currently in progress.
4	Call status	Shows the calls that are on a line.
5	Call Duration	The duration of the current call.
6	Speech quality	Displays the current voice quality of the call.

Make / Receive Second Call

The device can support up to two concurrent calls. When there is already a call established, user can still answer another incoming call on either line or make a second call on either line.

• Second Incoming Call

When there is another incoming call during a phone call, this call will be waiting for user to answer. User will see the call message in the middle of current screen. The device will not be ringing but playing call waiting tone in the audio channel of the current call and the LED will be flashing in green. User can accept or reject the call the same way as a normal incoming call. When the waiting call is answered, the first call will be placed on hold automatically.

\$ 1003			12 : 18
1003@SI		al.	Voice Mail
SIP2		00 00:09	9 Headset
SIP3		00 00.00))
SIP4	10	01	Record
SIP5			1 2
Xfer	Answer	Reject	End

• Second Outgoing Call

To make a second call, press Xfer or Conf key to make a new call on the default line or press the line key to make new call on specific line. Then dial the number the same way as making a phone call. Another alternative for making second call is to press DSS Keys or dial out from the configured Keys (BLF/Speed Dial).

• Switching between Two Calls

When there are two calls established, user will see a dual calls screen as the following picture.

() » 1003	12:25			
1003@SI			0	Voice Mail
SIP2				Headset
SIP3		102):04	
SIP4	1	002	5:04	Record
SIP5				1 2
Hold	Xfer	Conference	e	End

Press up/down navigator keys to switch between callers. Press the Resume key to pick up the caller.

• Ending One Call

Hang up the current call by pressing the End key. The phone will return to single call mode in holding state.

Ending the Call

End a call by hanging up the handset, pressing the hands-free key or by pressing the End key.

Redial

- Redial the last outgoing number: When the phone is in standby mode, press the redial key and the phone will call the last outgoing number.
- Call any number with the redial key: Enter the number, press the redial key, and the phone will call the number.
- Press the redial key to view call records:

Log into the phone web page and go to [Phone Settings] >> [Features] >> [Redial Settings]. Check Redial Enter CallLog. Now user can press the Redial key to enter the call records page when the phone is idle.

Re	lial Settings >>				
	Enable Call Completion:			Enable Auto Redial:	
	Auto Redial Interval:	30	(1~180)second(s)	Auto Redial Times:	5 (1~100)
	Redial Enter CallLog:	~			

Dial-up Query

Dial-up inquiry function is enabled by default. Go offhook and enter two or more numbers. The dial interface will automatically try to match the numbers dialed. Use the up/down navigation keys to select the number, press the Dial key to dial the number.

Auto-Answering

When enabled, any incoming call will be automatically answered (not including call waiting). Autoanswering can be enabled on line by line basis.

The user can enable the automatic answer function at the phone interface or the webpage interface.

Phone interface:

While the phone is idle, press [Menu] >> [Features] >> [Auto Answer].

Scroll to a line and press OK to select the line. Use the left/right navigation keys to enable/disable auto answer, then scroll down to the next line and set the Auto Answer Delay. Default is 5 seconds. When done, press [OK] key to save.

The icon in the upper right corner of the screen A indicates that auto answer is enabled.

	1003				15:49
	1. Auto Ansv	ver E	Enabled		$\langle \rangle$
	2. Auto Ansv	ver Delay	5		
	Return	Left		Right	OK
	1003	8	APR TI	HU	^ѧ'⊋
	1003 1003@SI		аркт 5 : 4	_	A ' ⊒ Voice Mail
1		1	5:4	17	
, ,	1003@SI	1	5:4	17	Voice Mail
, , ,	1003@SI SIP2	1	5 : 4 ES	17 i	Voice Mail
	1003@SI SIP2 SIP3	1	5 : 4 ES	17	Voice Mail Headset

WEB interface:

Log in the phone web page, enter [Line] >> [SIP] >> select a SIP line from the drop down list >> [Basic settings], check Enable Auto Answering. Set Auto Answer Delay and click Apply.

Lin	e 4225@SIP1			
Reg	ister Settings >>			
Bas	ic Settings >>			
_ [Enable Auto Answering:		Auto Answering Delay:	5 (0~120)second(s)
	Call Forward Unconditional:		Call Forward Number for Unconditional:	
	Call Forward on Busy:		Call Forward Number for Busy:	
	Call Forward on No Answer:		Call Forward Number for No Answer:	
	Call Forward Delay for No Answer:	5 (0~120)second(s)	Transfer Timeout:	0 second(s)
	Conference Type:	Local 💌	Server Conference Number:	

Callback

A Callback key, like the Redial key, will dial back the number of the last call. If there is no call history, pressing the Callback key will result with the message "can't process".

• Set the callback key through the phone interface:

From the phone, press [Menu] >> [Basic] >> [Keyboard] >> [DSS Key Settings, or Soft DSS Key Settings]. Select the function key to program, set key Type to Key Event, set key to Call Back, enter the key name and press OK to save.

Dsskey			16 : 14
1. Side Dsskey	1-8		<>
2. Type	Key E	event	<>
3. Key	Call E	Back	$\langle \rangle$
4. Name			
5. Dss Theme	Gree	n	$\langle \rangle$
Return L	_eft	Right	OK

 Set the callback key through the web interface: Log in to the phone web page. Go to [Function Key] >> [Side Key] or [Softkey]. Select a function key to program, set the type as Key Event, and set the subtype as the Call Back, as shown below:

	Page1					Delete Add	New Page
Key	Туре	Name	Value	Subtype	Line	Media	PickUp Number
F 1	Line			None 👻	4225@SIP1 💌	DEFAULT -	
F 2	Line			None 👻	171@SIP2 💌	DEFAULT -	
F 3	Line			None 👻	SIP3 💌	DEFAULT -	
F 4	Key Event 💌		12	Call Back 🗨	4225@SIP1 🚽	DEFAULT -	*8
F 5	None 💌			None 🚽	AUTO 🚽	DEFAULT -	
F 6	None 💌			None 🚽	AUTO 👻	DEFAULT -	

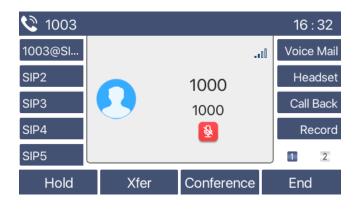
Mute

Press the mute key W during a call to disable the microphone so that the local voice is not heard. Normally, mute mode is automatically turned off at the end of a call. User can also press mute to silence the ringtone when there is an incoming call.

Mute mode can be enabled in all call modes (handset, headset or hands-free).

Mute the Call

• During the conversation, press the mute key Ψ on the phone. A red mute icon is displayed on the phone screen, as shown in the figure below:



• Cancel mute: Press Mute key 🖞 again to turn off mute. The red mute icon will no longer be displayed on the call screen.

Ringing Mute

• Mute: Press the mute key $rac{W}{W}$ when the phone is in standby mode:

The top right corner of the phone will show a mute speaker icon . The status lamp in upper right corner of phone will blink red when there is an incoming call. The phone will display the incoming call but will not ring.



 Cancel ring tone mute: On the standby or incoming call screen, press the mute key again to cancel ring tone mute. The mute speaker icon will no longer show in upper right corner and the phone will ring as normal when there is an incoming call.

Call Hold/Resume

Press the Hold key to put a call on hold. The Hold key will change to a Resume key. Press the Resume key to retrieve the call.



DND

User can enable Do-Not-Disturb (DND) feature on the phone to reject incoming calls (including call waiting). DND can be enabled on a line by line basis.

Enable/Disable DND for all lines and all calls :

- From the phone:
 - o Press DND key to enable the DND. All calls will go to voicemail.
 - Press DND key again to disable DND. All calls will ring to the phone.



Enable/disable Do Not Disturb on a specific line:

- From the phone menu:
 - Press [Menu] >> [Features] >> [DND].
 - For DND Mode, use the left/right navigation keys to select Line. Use the up/down navigation keys to scroll down to DND Timer and enable or disable the timer. Select which line to place into DND, toggle State to Enabled and press [OK] to save1

The user will see the DND icon turn red, and the sip-line will be in DND.

	15:00
Line	<>
Disabled	<>
SIP1	<>
Disabled	<>
Left Right	ОК
	Disabled SIP1 Disabled

The user can also use the DND timer by using the left/right navigator keys to enable DND Timer. After enabling the DND timer, set the DND Start Time and DND End Time then press OK to save. DND will automatically activate at the designated time and the DND icon will turn red.

DND		15:00
1. DND Mode	Line	<
2. DND Timer	Enabled	<>
3. DND Start Time	15 : 00	
4. DND End Time	17:30	
5. Line	SIP1	<₽
Return Le	ft Right	ОК

• WEB interface: Go to [Phone setting] >> [Features] >> [DND settings]. Set the DND Option (off, phone, line). Enable DND Timer, if needed. Set DND Start Time and DND End Time, if needed, and click Apply.

	Features	Media Settings	MCAST	Action
› System				
> Network	Basic Settings	>>		
	Tone Settings >	>>		
> Line	DND Settings >	>		
	DND Option	1:	Off 🗸	
Phone settings	Enable DND) Timer:		
	DND Start 1	Time:	15 🗸 0	*
> Phonebook	DND End Ti	me:	17 🗸 30	~

To enable DND for a specific Line route on the web page go to [Line] >> [SIP], select a [Line] from the drop down list >> [Basic settings], check Enable DND and click Apply.

Subscribe For Voice Message:		Voice Message Number:	
Voice Message Subscribe Period:	3600 (60~999999)second(s)	Enable Hotline:	
Hotline Delay:	0 (0~9)second(s)	Hotline Number:	
Dial Without Registered:		Enable Missed Call Log:	
DTMF Type:	AUTO	DTMF SIP INFO Mode:	Send 10/11
Request With Port:		Enable DND:	
Use STUN:		Use VPN:	

Call Forward

Call forward diverts an incoming call to a specific number based on conditions and configurations. User can configure the call forward settings of each line.

There are three types of Call Forwarding,

- Unconditional Forward any incoming call to the configured number.
- Busy Forward Forward incoming call when user is on phone.
- No Answer Forward incoming call if user does not answer within a configured delay time.

Phone interface: Default standby mode:

 Press [Menu] >> [Features] >> [Call Forward], select a line using up/down navigation keys and press OK.

Call Forward			10:09
1. 4225			
2. SIP2			
3. SIP3			
4. SIP4			
5. SIP5			
Return	Up	Down	ОК

• Select the call forward type by pressing the up/down navigation keys and press [OK].

4225			10:09
1. Uncondition	onal		_
2. Busy Forw	vard		
3. No Answer			
Return	Up	Down	ОК

• Select enable/disable by pressing the left/right navigation keys.

Unconditional			15 : 10
1. Unconditional	Enab	led	$\langle \rangle$
2. Forward to			
3. On Code			
4. Off Code			
Determine		Dist	01
Return	Left	Right	OK

• Use the up/down navigation keys to enter the required information in the remaining fields. When finished, press the [OK] key to save changes.

WEB interface:

- Enter [Line] >> [SIP], Select a [Line] >> [Basic settings].
- Check Call Forward Unconditional, Call Forward on Busy, or Call Forward on No Answer.
- Set Call Forward Delay for No Answer and Call Forward Number.
- Click Apply.

	Auto Answering Delay:	5 (0~120)second
[]	Call Forward Number for Unconditional:	
	Call Forward Number for Busy:	
	Call Forward Number for No Answer:	
5 (0~120)second(s)	Transfer Timeout:	0 second(s)
Local 💌	Server Conference Number:	
	5 (0~120)second(s)	Call Forward Number for Unconditional: Call Forward Number for Busy: Call Forward Number for No Answer: 5 (0~120)second(s) Transfer Timeout: Server Conference

Call Transfer

When the user is talking with a remote party and wishes to transfer the call to another remote party, there are three way to transfer the call, blind transfer, attended transfer and Semi-Attended transfer.

- Blind transfer: No need to negotiate with the other side, directly transfer the call to the other side.
- Semi-Attended transfer: When you hear the ring back, transfer the call to the other party.
- Attended transfer: When the caller answers the call, transfer the call to the other party.

For more transfer settings, refer to **Line >> Dial Plan**.

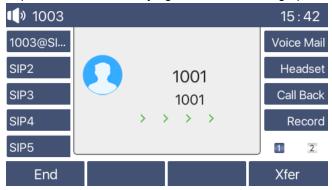
Blind transfer

During a call, press Transfer key or Xfer soft key on the phone, enter the number to transfer to, press the Transfer key again *w* and hang up.



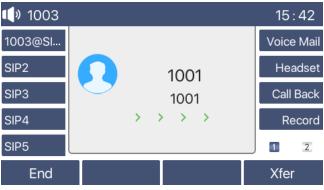
Semi-Attended transfer

During the call, press the Transfer key is or Xfer soft key on the phone, enter the number to transfer to. When ringback is heard, press the Transfer key again is and hang up.



Attended transfer

Attended transfer is also known as "courtesy mode", which is to transfer the call by calling the other party and waiting for the other party to answer the call then announcing that a call will be transferred to them. While on a call, press the Transfer key, wait for the other party to answer, announce the call then hang up.



Transfer to Voicemail

To transfer a call directly into another person's voicemail box, press the Trsf VM key, dial the destination or press the DSS key, and while hearing the VM greeting press Transfer to complete the transfer.



Call Waiting

- Enable call waiting: new calls can be accepted during a call.
- Disable call waiting: new calls will be automatically rejected and a busy tone will play.
- Enable call waiting tone: when a new call is received while on a call, user will hear a beep, which indicates an incoming call.

The user can enable/disable the call waiting at the phone interface and the web interface.

• Phone interface: Press [Menu] >> [Features] >> [Call waiting] >> [Call Waiting Settings]. Use navigation keys to enable Call Waiting and Waiting Tone.

Call Waiting Sett	ings		15:52
1. Call Waiting	Enab	led	$\langle \rangle$
2. Waiting Tone	Enab	led	$\langle \rangle$
Return	Left	Right	ОК
Return	Len	Right	OK

• WEB interface: Enter [Phone Settings] >> [Features] >> [Basic Settings], enable/disable call waiting by checking or unchecking Enable Call Waiting. Go to [Phone Settings] >> [Features] >> [Tone Settings], enable/disable call waiting tone by checking or unchecking Enable Call Waiting Tone.

Bas	ic Settings >>				
	Enable Call Waiting:			Enable Call Transfer:	
	Semi-Attended Transfer:	V		Enable 3-way Conference:	
	Enable Auto on Hook:	\checkmark		Auto HangUp Delay:	3 (0~30)second(s)
	Ring From Headset:	Disabled 🖉	•	Enable Auto Headset:	
	Enable Silent Mode:			Disable Mute for Ring:	
Bas	ic Settings >>				
Ton	e Settings >>				
	Enable Holding Tone:			Enable Call Waiting Tone:	
	Play Dialing DTMF Tone:	\checkmark		Play Talking DTMF Tone:	

Conference

.

Local Conference

To conduct local conference, log in the phone webpage and enter [Line] >> [SIP], select a line, >> [Basic settings]. The conference type is set as local (the default is local mode), as shown in the figure.

Bas	c Settings >>			
	Enable Auto Answering:		Auto Answering Delay:	5 (0~120)second(s)
	Call Forward Unconditional:		Call Forward Number for Unconditional:	
	Call Forward on Busy:		Call Forward Number for Busy:	
	Call Forward on No Answer:		Call Forward Number for No Answer:	
	Call Forward Delay for No Answer:	5 (0~120)second(s)	Transfer Timeout:	0 second(s)
	Conference Type:	Local 💌	Server Conference Number:	

Two ways to create a local conference:

- Dial a number or select it from Contacts and wait for called party to pick up.
- When call is established, press the Conference key and dial the next number to add to the conference.
- When call is answered, press Conference key again and all three parties will be connected to the conference.

1 003		16 : 46	() 1003	16 : 4	6
1003@SI	0	Voice Mail	1003@SI Conf(2)	00:08 Voice M	1ail
SIP2	1000	Headset	SIP2 1000	Heads	set
SIP3	1000 U0:20	Call Back	SIP3	Call Ba	ack
SIP4	1001	Record	SIP4	Reco	ord
SIP5		1 2	SIP5		2
Hold	Xfer Conference	End	Hold	Split End	

Note: During the conference, press the Split soft key to split the conference. Use the up/down Navigation keys and Resume soft key to toggle between the two conference members, User can also put users in the conference on Hold or press End to end the call with one of the conference members.

Network Conference

Users need server support for network conference.

Log in the phone web page, enter [Line] >> [SIP], select a line, >> [Basic settings], set the conference type as server mode (default is local mode), set the server conference room number (consult your system administrator), as shown in the figure:

Bas	ic Settings >>			
	Enable Auto Answering:		Auto Answering Delay:	5 (0~120)second(s)
	Call Forward Unconditional:		Call Forward Number for Unconditional:	
	Call Forward on Busy:		Call Forward Number for Busy:	
	Call Forward on No Answer:		Call Forward Number for No Answer:	
	Call Forward Delay for No Answer:	5 (0~120)second(s)	Transfer Timeout:	0 second(s)
	Conference Type:	Server 💌	Server Conference Number:	1234

Method to join a network conference:

- Call number of network conference room, enter the password then all enter the conference room.
- Two phones have established common calls. Press the conference key to invite new members to the conference. Follow the voice prompt to operate.

Note: The upper limit of the number of participants in the network conference varies according to the server.

Call Park

Call Park requires server support. Consult system administrator for support. While on a call, if it is not convenient to answer an incoming call, press the configured park key to hold the call. After a successful park, user can resume the call by pressing the configured park key.

Set the call park button:

Phone interface: long press a function key to enter the function key Settings interface, or go to [Menu]
 >> [Basic] >> [Keyboard], select and enter a key category (DSS key, Soft DSS key). Set the key function type as Memory Key and subtypes as Call Park, enter server call park number, set up corresponding SIP lines.

Dsskey			15 : 59
1. Side Dsskey	1-1		$\langle \rangle$
2. Type	Mem	ory Key	$\langle \rangle$
3. Line	Auto		\Diamond
4. Subtype	Call F	Park	$\langle \rangle$
5. Name			
Return	eft	Right	ОК

• WEB interface: log in the web page, enter the [Function Key] >> [Side Key], select a DSS key, set the key type as Memory Key, set the subtype as Call Park, set the Value as the call park number of the server, and set the corresponding SIP line.

	Osskey Setti	-	Iode Make a New	Cal	Apply						
		ge2			- • •					Add	New Page
Key	Type	_	Name	Value	Subtype		Line		Media		PickUp Number
- 1	Memory Key	-		1234	Call Park	T	4225@SIP1	V	DEFAULT	•	
2	Line				None	Ŧ	SIP2	T	DEFAULT	Ŧ	
- 3	Line	•			None	-	SIP3	V	DEFAULT	-	
4	None	-			None	Ŧ	AUTO	Ŧ	DEFAULT	-	
- 5	None	•			None	Ŧ	AUTO	-	DEFAULT	-	
- 6	None	-			None	Ŧ	AUTO	-	DEFAULT	-	
7	None	-			None	-	AUTO	-	DEFAULT	-	
8	None	-			None	Ŧ	AUTO	-	DEFAULT	-	
9	None	-			None	Ţ	AUTO	Ţ	DEFAULT	Ţ	

Pick Up

Pick Up requires server support. Consult system administrator for support.

A user can use the Pick Up function to answer incoming calls from other users. The phone can pick up incoming calls by configuring DSSkey for BLF and setting the Pick Up code.

Phone interface: press [Menu] >> [Basic] >> [Keyboard] >> [DSS Key Settings], select the function key to configure.

- Set the line, function key type as Memory Key, subtype as BLF/NEW CALL, set subscribed Telephone number, and pickup Number code. Press OK to save.
- A call comes in to the Telephone number that is in the subscribed to the pickup number and the phone rings.
- Press the DSS key to pick up the call.

Dsskey		16 : 00
3. Line	SIP1	$\langle \rangle$
4. Subtype	BLF/New Call	<>
5. Name		
6. Tel		
7. Pickup Number	*8	
Return 123	B Delete	OK

WEB interface: Log in the phone webpage, enter the [Function Key] page, select a DSSkey, set the key type as Memory Key, the subtype as BLF/NEW CALL, and set the corresponding SIP line and pick up codes. Click Apply to save.

Side [Osskey Settings							
[Osskey Transfer M	ode Make a Nev	v Call 💌					
				Apply				
[Page1 Page2						Delete Add I	New Page
Кеу	Туре	Name	Value	Subtype	Line		Media	PickUp Number
F 1	Memory Key 💌		1234	BLF/NEW CALL	4225@SIP1	•	DEFAULT 💌	

Anonymous Call

Anonymous Call

Phone interface: The phone can be set up to hide the calling number and the calling name.

- Go to [Menu] >> [Advanced Settings] >> [Accounts] >>select a SIP line to configure >> [Advanced].
- Enter relevant information. Select an anonymous call standard (RFC3323 and RFC3325).



Web page:

- Go to [Line] >> [SIP], select a line to configure from the drop down list >> [Advanced Settings].
- Select an Anonymous Call Standard.

SIP Encryption:			RTP Encryption(SRTP):	Disabled 💌 🕜
Enable Session Timer:			Session Timeout:	0 second(s) 🕜
Enable BLF List:			BLF List Number:	3
Response Single Codec:			BLF Server:	?
Keep Alive Type:	UDP 💌 🕜		Keep Alive Interval:	30 second(s) 🕜
Keep Authentication:			Blocking Anonymous Call:	
User Agent:	•		Specific Server Type:	COMMON 💌 🕜
SIP Version:	RFC3261 💌 🕜	ſ	Anonymous Call Standard:	RFC3323 💌 🕜
Local Port:	5060	• -	Ring Type:	Default 💌 🕜
Enable user=phone:			Use Tel Call:	
Auto TCP:			Enable PRACK:	
Auto TCP: Enable Rport:			Enable PRACK:	

The following is a transcript of an anonymous call received by the phone.

	All	In	Out		Miss
3	anonymous	anon	ymous	21 Oct	10:58
હ	anonymous	anon	ymous	21 Oct	10:58
3	anonymous	anon	ymous	21 Oct	10:58
×	63	63		21 Oct	10:57
3	63	63		21 Oct	10:57

Ban Anonymous Call

The phone can be set to prohibit anonymous calls, so that anonymous calls to the number will be directly rejected.

Phone interface:

- Go to [Menu] >> [Features] >> [Ban anonymous call].
- Use left/right navigation keys to select a Line.
- Use left/right navigation keys to enable the State.

Ban Anonymou	16 : 04	
1. Line	SIP1	$\langle \rangle$
2. State	Enabled	$\langle \rangle$
Return	Enter Switcl	h OK

Web page:

- Go to [Line] >> [SIP] >> [Advanced Settings], select a Line from the drop down list.
- Check Blocking Anonymous Call.

SIP Encryption:		RTP Encryption(SRTP):	Disabled 💌 🕜
Enable Session Timer:		Session Timeout:	0 second(s) 🕜
Enable BLF List:		BLF List Number:	()
Response Single Codec:		BLF Server:	0
Keep Alive Type:	UDP 🗨 🧭	Keep Alive Interval:	30 second(s) 🕜
Keep Authentication:		Blocking Anonymous Call:	

Hotline

The phone supports hotline dialing. After setting up the hotline dialing, go offhook and the phone will automatically call according to the hotline delay time.

Phone interface:

- Go to [Menu] >> [Features] >> [Advanced] >> [Hotline] and select which sip line to configure.
- Use the left/right navigation keys to enable Hot Line.
- Set the hotline Number.
- Set the Hot Line Delay.

Hot Line			10 : 55	5 4225 10			
1. 4225				1. Hot Line	Enal	bled	0
2. SIP2				2. Number			
3. SIP3				3. Hot Line Del	ay O		
4. SIP4							
5. SIP5							
Return	Up	Down	ОК	Return	Left	Right	ОК

Web interface:

- Go to [Line] >> [SIP], select a line to configure from the drop down list >> [Basic Settings].
- Check Enable Hotline.
- Enter Hotline Number.
- Enter Hotline Delay.

Line 258@SIP1	•		
Register Settings >>			
Basic Settings >>			
Enable Auto Answering:		Auto Answering Delay:	5 (0~120)second(s) 🔗
Call Forward Unconditional:		Call Forward Number for Unconditional:	
Call Forward on Busy:		Call Forward Number for Busy:	
Call Forward on No Answer:		Call Forward Number for No Answer:	0
Call Forward Delay for No Answer:	5 (0~120)second(s) 💡	Transfer Timeout:	0 second(s) 🕜
Conference Type:	Local 💌 🥝	Server Conference Number:	
Subscribe For Voice Message:		Voice Message Number:	
Voice Message Subscribe Period:	3600 (60~999999)second(s)	Enable Hotline:	
Hotline Delay:	0 (0~9)second(s) 🗿	Hotline Number:	
Dial Without Registered	: 🔲 🕜	Enable Missed Call Log:	✓
DTMF Type:	AUTO 💌 🤡	DTMF SIP INFO Mode:	Send 10/11 🔍 🕜
Request With Port:	V (?)	Enable DND:	
Use STUN:		Use VPN:	☑ ?

Emergency Call

The emergency call function is used to call an emergency call number when the keypad is locked.

• To configure the emergency call number, log in the phone web page, enter the [Phone Settings] >> [Features]>> [Basic Settings], and enter an Emergency Call Number. If more than one emergency call number needs to be set, use a comma ", " to separate the numbers.

Allow IP Call:	☑ 🥝	P2P IP Prefix:	•	
Caller Name Priority:	LocalContact-NetContact-SIP DisplayName	Emergency Call Number:	110	0
Search path:	LDAP 🗨 🕜	LDAP Search:	LDAP 1 💌 🔇	
Caller Display Type:	Normal 🗨 🕜			
Restrict Active URI Source IP:		Push XML Server:		?
Enable Pre-Dial:	☑ ⊘	Enable Multi Line:	☑	
Line Display Format:	xxx@SIPn 💌 🕜	Contact As White List Type:	NONE 🔽 🕜	
Block XML When Call:	Enable 💌 🥝	SIP Notify:	Enable 🗨 🕜	
Call Number Filter:				

• When the phone keypad is locked, user can call the emergency call number without unlocking the phone, as shown in the figure: Dial the emergency number then press Dial.

		,	
1003	9 AF	¥₽	
1003@SI		Voice Mail	
SIP2	(i)	Headset	
SIP3	Emerge	Call Back	
SIP4	1	Record	
SIP5		1 2	
Return	123	Delete	Dial

Advance Function

BLF (Busy Lamp Field)

Configure the BLF Functionality

Web interface: log in the phone web page, enter the [Function key] >> [Side Key or Softkey], select a DSS key, set the function key type as Memory Key. Choose a subtype among BLF/NEW CALL, BLF/BXFER, BLF/AXFER, BLF/CONF. For BLF/DTMF, set the value as the number to be subscribed. Set the corresponding SIP line. The pickup number is provided by the server. Click Apply to save. For usage, refer to **Pick up**.

Side Dsskey Settings							
Dsskey Transfer Mode Make a New Call							
		ĺ	Apply				
Page1 Page2					Dele	te Add N	lew Page
Кеу Туре	Name	Value	Subtype	Line		Media	PickUp Number
F 1 Memory Key 💌		133	BLF/NEW CALL	4225@SIP1	DEFA	AULT 💌	

Phone interface: Long press a function key to enter the function key or go to [Menu] >> [Basic] >>
[Keyboard] >> [DSS Key Settings or Soft DSS Key Settings].Set the Type as Memory Key and a
subtype as BLF/NEW CALL, BLF/BXFER, BLF/AXFER, BLF/CONF, BLF/DTMF. Set the Tel value,
which is the subscription number. Set the SIP line. Press OK to save.

Dsskey		16 : 22
1. Side Dsskey	1-1	•
2. Type	Memory Key	<>
3. Line	SIP1	\bigcirc
4. Subtype	BLF/New Call	$\langle \rangle$
5. Name		
Return I	_eft Right	OK

Subtype	Standby is described	Calling is described
	Press the BLF key while on	When this BLF key is pressed while talking to
BLF/NEW CALL	standby to dial the subscriber	another user, you create a new call along
	number.	with the subscribed number.
	Press the BLF key while on	When this BLF key is pressed while talking to
BLF/BXFER	standby to dial the subscriber	another user, you blind transfer the call to the
	number.	subscribed number.
	Press the BLF key while on	When this BLF key is pressed while talking to
BLF/AXFER	standby to dial the subscriber	another user, you attendance transfer the call
	number.	to the subscribed number.
	Press the BLF key while on	When this BLF key is pressed while talking to
BLF/Conference	standby to dial the subscriber	another user, you invite the subscriber
	number.	number to join the meeting.
	Press the BLF key while on	When this BLF key is pressed while talking to
BLF/DTMF	standby to dial the subscriber	another user, the phone automatically sends
	number.	the DTMF that corresponds to the BLF key
		number.

Use the BLF Function

BLF, also known as a "busy lamp field," notifies the user of the status of the subscribed object and is used by the server to pick up the call. BLF helps you monitor other peoples status (idle, ringing, talking, off).

BLF function:

- Monitor the status of subscribed phones.
 When the subscription state of the number is changed (idle, ringing, talking), the function key LED status will have a corresponding change. Refer to LED Definition for LED states and meanings.
- Call the subscribed number. When the phone is in standby mode, press the configured BLF key to call out the subscribed number.
- Transfer calls to the subscribed number.
 The BLF key can be used for blind rotation, attention-rotation and semi-attention-rotation of the current call, and can also invite the subscribed number to join the call and send DTMF, etc. Refer to BLF function key table.
- Pick up incoming calls from subscribed number.
 When the subscription number telephone rings, the BLF LED.will turn red. At this point, press the BLF key to answer the incoming call from the subscribed number. Refer to **BLF LED** table.

BLF List

BLF List Key puts the number to be subscribed into a group on the server side, and the phone uses the URL of this group for unified subscription. The specific information, number, name and status of each number can be resolved based on the notify sent from the server. A Memory Key is then set as the BLF List Key. If the state of the subscription object changes later, the corresponding led light state will change. Configure BLF List function: log into the phone web page, enter [Line] >> [SIP], select a line to configure, >> [Advanced settings], check Enable BLF List, and configure the BLF List number.

Enable Session Timer: 🛛 🔲	Session Timeout:	0 second(s)
Enable BLF List: 📃	BLF List Number:	
Response Single Codec: 📃	BLF Server:	
Keep Alive Type: UDP 💌	Keep Alive Interval:	15 second(s)
Keep Authentication:	Blocking Anonymous Call:	
RTP Encryption(SRTP): Disabled		

Using the BLF List function: when the configuration is completed, the phone will automatically subscribe to the contents of the BLF List group. Users can monitor, call and transfer the corresponding number by pressing the BLF List key.

Fund	ction Key Settir	igs						
	Dsskey Transfer	Mode Make	a New C 🔻	Dsskey Home	Page: None 🔻			
	Apply							
	Page1 Page	2				Delete	Add New Page	
Key	Туре	Name	Value	Subtype	Line	Media	PickUp Number	Icon Color
DSS								
Key 1	BLF List Key 🔻			None 🔻	8325@SIP1 V	DEFAULT 🔻		Default Green 🔻
DSS								
Key	None 🔻	1		None 🔻	AUTO 🔻	DEFAULT 🔻		Default Green 🔻
2								
DSS	None -			None -	AUTO			Default Groom -
Key 3	None •			None 🔻	AUTO 🔻	DEFAULT 🔻		Default Green 🔻
DSS								
Key	None 🔻			None 🔻	AUTO 🔻	DEFAULT 🔻		Default Green 🔻
4								

Record

Record a conversation while on a call.

Local Recording (USB flash drive required)

When using local recording, it is necessary configure recording on the phone web page.

- Begin by inserting a USB drive into the USB port on the phone.
- Web interface: Go to [Application] >> [Manage recording].
- Select Recording Type as Local.
- Set which Voice Codec to use.
- Click Apply.
- Go to [Function Key] >> [Side Key or Softkey] and configure a key Type as Key Event and Subtype as Record.

Record Setting Enable Record: Record Type: Voice Codec:	Cocal			
		Apply		
Recording List				
Ir	ndex		File Name	File Size
				Delete

Local recording steps:

- Make a call and press the key that was configured as a record key.
- End the recording by pressing the record key again or by hanging up.

View local recording:

From the Phone:

- Select [Menu] >> [Application] >> [USB] >> [Browse Audio].
- You will see a list of recordings. From here you can select a recording using the Navigation up/down keys and press Play to listen to the recording.

From the phone web page:

- Enter [Application] >> [Manage Recording].
- View the recording file. From here you can delete the recording file by selecting it and clicking Delete.

Listen to the recording

- Select [Menu] >> [Application] >> [USB] >> [Browse Audio].
- You will see a list of recordings. Select a recording using the Navigation up/down keys and press Play.

Server Recording

When using the network server to record, go to phone web page and navigate to [Application] >> [Manage recording]. Select Type as Network, select a Voice Codec, enter Server Address and Server port as shown in the image below:

Reco	ord Setting					
	Enable Record: Record Type: Voice Codec:	Network PCMU	T			
	Server Address:	0.0.0.0	Apply	Server Port:	10000	
Reco	ording List					
		Index		File Name		File Size
						Delete

SIP INFO Record

Register the phone with a server that supports SIP INFO recording. After registering the account, go to [Application] >> [Manage recording], check Enable Record, set Record Type to SIP INFO and click Apply.

Reco	ord Setting				
	Enable Record: Record Type:	Sip Info	▼ Apply		
Reco	ording List				
		Index		File Name	File Size
					Delete

Agent

When multiple people use a phone for Agent services at different times, they can quickly register their SIP account on the same server. The Agent functions of the phone can be divided into Normal and Hotel Guest. The Hotel Guest mode requires server support.

Normal Mode:

To configure agent function from the phone, go to [Menu] >> [Features] >> [Agent]. The password to enter the agent page is default 123.

The SIP server needs to be configured before the account can be configured.

5. CallLog

Return



Save All

Delete

123

 $\langle \rangle$

Logon

Parameter	Description
Normal	
Number	Set the proxy account number.
User	Set the proxy account number to verify the user name.
Password	Set the proxy account number to verify the password.
Line	Select the SIP line.
CallLog	Users can choose to save all or delete all.
Hotel Guest	
Number	Set the proxy account number.
Password	Set the proxy account number to verify the password.
Line	Select the SIP line.
CallLog	Users can choose to save all or delete all.
Status	Consists of Logon, Logoff, Unavailable, Available, Wrap-up.

Using agent functions:

- When the phone has been configured on SIP server, enter the correct number, user name and password, press Logon and the phone will register to the SIP server.
- After registration, click Logout and the phone will delete the user name and password and log out of the SIP account.
- Click Unregister, the phone will retain the user name and password and log out of the SIP account.



Intercom

When Intercom is enabled, phone will automatically connect to incoming calls through the hands free speaker.

Phone interface:

- Press [Menu] >> [Features] >> [Intercom].
- Enable all Intercom settings that apply by using the left/righ navigation keys to toggle each selection from Disabled to Enabled.

Web interface:

- Set up Intercom on all applicable phones by going to [Phone Settings] >> [Intercom Settings] and check all applicable intercom settings. Click Apply to save.
- Go to [Function Key] and configure a key. Set type as Key Event and subtype as Intercom.

Press the intercom key and dial another extension that has intercom enabled. The other extension will play a barge in tone and connect automatically.

Note that the extension that you are barging into must have intercom enabled.

Intercom Settings >>

Enable Intercom:	V	
Enable Intercom Tone:		

Enable Intercom Mute: Enable Intercom Barge:

Parameter	Description				
Enable Intercom	When intercom is enabled, the device will accept the incoming call request with a SIP				
	header of Alert-Info instruction to automatically answer the call after specific delay.				
Enable Intercom	Enable mute mode during the intercom call				
Mute					
Enable Intercom	If the incoming call is intercom call, the phone plays the intercom tone				
Tone	In the incoming call is intercom call, the phone plays the intercom tone				
Enable Intercom	The phone auto answers the intercom call during a call. If the current call is intercom				
Barge	call, the phone will reject the second intercom call				

MCAST

The multicast feature allows user to make a broadcast call to people who are in a multicast group. User can configure a multicast DSS Key on the phone, which allows user to send a Real Time Transport Protocol (RTP) stream to the pre-configured multicast address without involving SIP signaling. You can also configure the phone to receive an RTP stream from a pre-configured multicast listening address without involving SIP signaling. Up to 10 multicast listening addresses can be entered.

2 0 3 0 4 0 5 0 6 0 7 0 8 0 9 0	MC/	ST Listening						
Enable Prio Chan: Image: Second S		Priority:		1				
Enable Emer Chan: Name Host:port Channel 1 0 0 2 0 0 3 0 0 4 0 0 5 0 0 6 0 0 7 0 0 9 0 0 10 0 0		Enable Page Priorit	y:					
Index/Priority Name Host:port Channel 1		Enable Prio Chan:						
1 0 2 0 3 0 4 0 5 0 6 0 7 0 8 0 9 0 10 0 Apply		Enable Emer Chan:						
2 0 3 0 4 0 5 0 6 0 7 0 8 0 9 0 10 0 Apply		Index/Priority		Name	Host:port		Channel	
3 0 4 0 5 0 6 0 7 0 8 0 9 0 10 0 Apply 0		1					0	-
4 0 5 0 6 0 7 0 8 0 9 0 10 0		2					0	-
5 0 6 0 7 0 8 0 9 0 10 0		3					0	-
6 0 7 0 8 0 9 0 10 0 MCAST Dynamic 60 Apply -		4					0	-
7 0 8 0 9 0 10 0 MCAST Dynamic Auto Exit Expires: 60		5					0	•
8 0 9 0 10 0 Apply		6					0	-
9 0 10 0 Apply MCAST Dynamic Auto Exit Expires: 60 Apply		7					0	-
10 0 0		8					0	-
Apply MCAST Dynamic Auto Exit Expires: 60 Apply							0	-
MCAST Dynamic Auto Exit Expires: 60 Apply		10					0	-
Auto Exit Expires: 60 Apply				Apply				
Apply	MC/	ST Dynamic						
Index Priority MCAST Ip Port		Auto Exit Expires:						
		Index	Priority	MCAST Ip		Port		

Parameters	Description
Priority	Define the priority of the active call, 1 is the highest priority, 10 is the lowest.
Enable Page Priority	The voice call in progress shall take precedence over all incoming paging calls.
Name	Listened multicast server name
Host:port	Listened multicast server's multicast IP address and port.

To set up a function key for multicast:

- Log into phone web interface.
- Go to [Function Key] >> [Side Key or Softkey], select MCAST Paging or MCAST Listening, set the multicast address Value, and select the codec.
- Click Apply.
- Go to [Phone Settings] >> [MCAST] and set the Name and Host:port of the receiving multicast.
- From the phone, press the DSS key that was set as a Multicast key.
- Receive end will receive multicast call and play multicast automatically.

SCA (Shared Call Appearance)

SCA function requires server support.

- Configuring the phone
 - When registering with the BroadSoft server, the phone can register the account created previously on multiple terminals. To configure the phone from the web page, go to [Line] >> [SIP], select a line and enter Register Settings information and SIP Server 1 information. Select Activate and click Apply to save.

	Registered	Activate:	
Username:	123	Authentication User:	123
Display name:	123	Authentication Password:	•••
Realm:		Server Name:	
Transport Protocol:	UDP 💌	Transport Protocol:	UDP 💌
Registration Expiration:	3600 second(s)	Registration Expiration:	3600 secon
Proxy Server Address:		Backup Proxy Server Address:	
Proxy Server Port:	5060	Backup Proxy Server Port:	5060
Proxy User:			

After the phone registers with the BroadSoft server, a server type needs to be set. Specifically, log in to the webpage of the phone, choose [Line] >> [SIP] >> [Advanced Settings] and set Specific Server Type to BroadSoft, as shown in the following figure.

SIP Encryption:		RTP Encryption(SRTP):	Disabled 🔍 🕜
Enable Session Timer:		Session Timeout:	0 second(s) 🕜
Enable BLF List:		BLF List Number:	Ø
Response Single Codec:		BLF Server:	Ø
Keep Alive Type:	UDP 🗨 🕜	Keep Alive Interval:	30 second(s) 📀
Keep Authentication:		Blocking Anonymous Call:	
User Agent:		Specific Server Type:	BroadSoft 💌 🥝
User Agent: SIP Version:	(2) (2) (2) (2) (2) (2) (2) (2) (2) (2)	Specific Server Type: Anonymous Call Standard:	BroadSoft 💌 🛛
2			
SIP Version:	RFC3261 🗸 🕜	Anonymous Call Standard:	None 🗸 🕜
SIP Version: Local Port:	RFC3261 • 0 5060 0	Anonymous Call Standard: Ring Type:	None 👽 🥝 Default 💌 🥝

If a phone needs to enable the SCA function, log in to the phone webpage, go to [Line] >> [SIP]
 >> [Advanced Settings], and select Enable SCA. If SCA is not enabled, the registered line is the private line.

DNS Mode:	A 💌 🕜	Enable Long Contact:	?
Enable Strict Proxy:	☑ 📀	Convert URI:	☑ 🕜
Use Quote in Display Name:		Enable GRUU:	
Sync Clock Time:		Enable Use Inactive Hold:	
Caller ID Header:	PAI-RPID-FF	Use 182 Response for Call waiting:	
Enable Feature Sync:		Enable SCA:	
CallPark Number:		Server Expire:	☑ 🕜
TLS Version:	TLS 1.0 💌 🥝	uaCSTA Number:	
Enable Click To Talk:		Enable ChangePort:	
Flash Mode:	Normal 💌	Flash Info Content-Type:	
Flash Info Content- Body:		PickUp Number:	
JoinCall Number:		Intercom Number:	
Unregister On Boot:		Enable MAC Header:	
Enable Register MAC Header:		BLF Dialog Strict Match:	
PTime(ms):	Disabled 💌	Enable Deal 180:	
Session Timer T1:	500 (500~10000)millisecond 🥝	Session Timer T2:	4000 (2000~40000)millisecond 🍘
Session Timer T4:	5000 (2500~60000)millisecond 💡		

After an account is configured and successfully registered, you can configure lines whose DSS Key is Shared Call Appearance on the Function Key page to facilitate viewing the call status of the group. Each line key represents a call appearance. Understand the call status by referring to **LED DEFINITION** table. To facilitate private hold, configure keys whose DSS Key is Private Hold on the Function Key page. Pay attention that the public hold key is the softkey-hold key during a call.

Function Key Settings

	Dsskey Trar	nsfer I	Mode Make a	a New C 🔻	Dsskey Home Apply	e F	Page: None ▼	•			
	Page1 F	Page2							Delete	Add New Page	
Key	Туре		Name	Value	Subtype		Line		Media	PickUp Number	Icon Color
DSS Key 1	Key Event	Ŧ			Private Hold	Ŧ	8325@SIP1	¥	DEFAULT V		Default Green 🔻
DSS Key 2	None	•			None	¥	AUTO	¥	DEFAULT V		Default Green 🔻
DSS Key 3	None	•			None	¥	AUTO	۷	DEFAULT V		Default Green 🔻
DSS Key 4	None	•			None	¥	AUTO	¥	DEFAULT V		Default Green 🔻

 Each phone registered with the BroadSoft server should be configured as above, then the SCA function can be used. LED Status

To facilitate viewing the call status of a group, configure the DSS Key as SCA. The following table describes the line LEDs in different states.

State&Direction	Local	Remote
Idle	Off	Off
Seized	Steady green	Steady red
Progressing (outgoing call)	Steady green	Steady red
Alerting (incoming call)	Fast blinking green	Fast blinking green
Active	Steady green	Steady red
Public Held (hold)	Slow blinking green	Slow blinking red
Held-private (private hold)	Slow blinking yellow	Steady red
Bridge-active (Barge-in)	Steady green	Steady red
Bridge-held	Steady green	Steady red

• Shared Call Appearance(SCA)

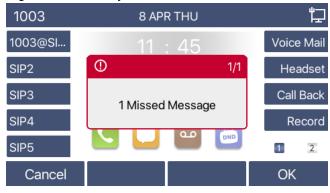
See the following scenarios to help facilitate understanding of the feature. In the following scenarios, the manager and secretary are registered to the same SCA account.

- Scenario 1: When this account receives an incoming call, the phones of both the manager and the secretary will receive the call and ring. If the manager is busy, the manager can reject the call and the manager's phone stops ringing but the secretary's phone keeps ringing until the secretary rejects/answers the call or the call times out.
- Scenario 2: When this account receives an incoming call, if the secretary answers the call first and the manager is required to answer the call, the secretary can press the Public Hold key to hold this call and notify the manager. The manager can press the line key corresponding to the Shared Call Appearance to answer the call.
- Scenario 3: The manager is on an important call with a customer and needs to leave their office for a moment. If the manager does not want others to retrieve this call, the manager can press the Private Hold key.
- Scenario 4: The manager is in a call with a customer and requires the secretary to join the call to take notes. The secretary can press the corresponding SCA line key to barge into this call.

Message

SMS (Short Message Service)

If the service of the line supports SMS, when the other end sends a text message to the number, the user will receive the SMS message on the standby screen.



Send messages:

- From the phone, go to [Menu] >> [Message] >> [SMS].
- Select New Message
- Type a message using the keypad, press Send, then enter a "To" number and press OK to send.

View SMS:

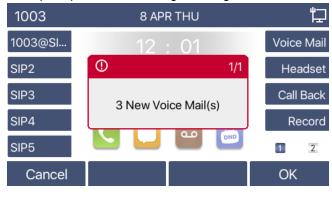
- From the phone, go to [Menu] >> [Message] >> [SMS].
- Use the up/down navigation keys to select Inbox.
- Press [OK] to enter the SMS inbox interface.
- Select the unread message and press [OK] or [View] to read the unread message.

Reply to SMS:

- Use the navigation keys to select the message.
- Press [OK] or [View] to view the message.
- Press the [Reply] key, type your reply and press Send.

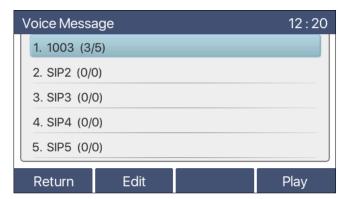
MWI (Message Waiting Indicator)

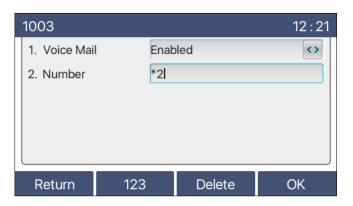
If the line service supports voice message feature, when the user is not available to answer the call, the caller can leave a voice message on the server to the user. User will receive voice message notification from the server and device will prompt a voice message waiting icon on the standby screen.



The Voice message icon on the home screen will also show the number of messages missed. To enable Voice Mail:

- Press the Voice Mail key.
- Use the up/down navigation keys to select the appropriate line and press OK.
- Use the left/right navigation keys to toggle Voice Mail from Disabled to Enabled.
- Enter the code that will allow the phone to access the server voicemail.
- Press OK to save.





To listen to a voice message:

- Press the Voice Mail key.
- Use the up/down navigation keys to select the line and press Play.
- In the following picture, (3/5) represents 3 new voice messages, and 5 total voice messages.

\	/oice Messa	age	12 : 20
	1. 1003 (3/	5)	
	2. SIP2 (0/0))	
	3. SIP3 (0/0	D)	
	4. SIP4 (0/0))	
	5. SIP5 (0/0))	
	Return	Edit	Play

SIP Hotspot

SIP accounts can be expanded using SIP hotspot, a simple but practical function that can implement group ringing.

Call example: Phone (A) is set up as a Hotspot and phones (B) and (C) are set up as clients. When someone calls phone (A), phones (A), (B), and (C) all ring. When any phone answers the call, other phones stop ringing. The call can be answered by only one phone. When phone (B) or (C) initiates a call, the SIP number registered to phone (A) is the calling number.

To create a SIP hotspot, at least one SIP account must be configured and registered before proceeding. To create a SIP account from the web interface, go to [Line] >> [SIP] and fill in the appropriate information.

	SIP SIP Hots	spot Dial Plan	Action Plan	Basic Settings	RTCP-XR	
> System						
› Network	Line 1003@SIP· 🗸					
	Register Settings >>					
> Line	Line Status:	Registered	Activa	te:	✓	
	Username:	1003	Auther	ntication User:	1003	
> Phone settings	Display name:	1003	Auther	ntication Password:	•••••	
	Realm:		Server	Name:	1003	
> Phonebook						
	SIP Server 1:		SIP S	erver 2:		
> Call logs	Server Address:	192.168.5.150	Server	Address:		
	Server Port:	5060	Server	Port:	5060	
Function Key	Transport Protocol:	UDP 🗸	Transp	ort Protocol:	UDP 🗸	
	Registration Expiration:	3600 second(s)	Regist	ration Expiration:	3600	second(s)
Application						
	Proxy Server Address:	192.168.5.150	Backu	p Proxy Server Addre		
> Security	Proxy Server Port:	5060	Backu	p Proxy Server Port:	5060	
	Proxy User:					
> Device Log	Proxy Password:					

There are two hotspot modes, Client and Hotspot.

- If your phone is set up as a "Hotspot", the device table will display as Client Table, devices that can connect to your phone.
- If your phone is set up as a "Client", the device table will display as Hotspot Table, devices to which your phone can connect.

Parameters	Description
Enable hotspot	Set it to Enabled to enable the feature.
Mode	Choose whether the phone will be a hotspot client or server."
	Choose Broadcast or Multicast. If you want to limit the broadcast packets, use
Monitor Type	Broadcast. If client chooses Broadcast, the SIP hotspot phone must be broadcast.
Monitor Address	This is the address of broadcast. Hotspot server and hotspot client must be the
Monitor Address	same.
Local Port	This is the port number used for access.

SIP hotspot server:

As the hotspot server, the default extension number is 0. When the phone is used as the client, the extension number is increased from 1 (example:1003-1). You can view the extension number Alias through the [SIP Hotspot] page.

	SIP	SIP Hotspot Dia	l Plan Actio	n Plan Basic Se	ettings RTCP-XR	
› System						
	Client Table					
> Network	IP		MAC		Alias	Line
Line	192.168.5.10		00:30:4d:03:e2:e5		1	
· Line	SIP Hotspot Setting	5				
> Phone settings	Enable Hotspot:		nabled 🗸			
· Thore seeings	Mode:		lotspot V			
> Phonebook	Monitor Type:		roadcast 🗸			
	Monitor Address:	2	24.0.2.0			
› Call logs	Local Port:	1	6360			
	Name:	S	IP Hotspot			
› Function Key	Ring Mode:	A	∥ ✓			
	Line Settings					
> Application	Line 1:	Enabled V	Ext Prefix	(1)		
	Line 2:	Enabled V	Ext Prefix			

Configure SIP hotspot client:

To set as a SIP hotspot client, no SIP account needs to be set. The Phone set will automatically obtain and configure a SIP account. On the SIP Hotspot page, set Mode to Client. The values of other options are the same as those of the hotspot.

	SIP	SIP Hotspot	Dial Plan	Action Plan	Basic Settings	RTCP-XR	
› System							
	Hotspot Table						
> Network	IP	Serve	r name	Online Status	Connection Status A	lias Line	
• Line	192.168.5.1	0 SIP H	otspot	OffLine	Connected		Disconnect
	SIP Hotspot Set	tings					
› Phone settings	Enable Hots	pot:	Enabled ¥				
	Mode:		Client 🗸				
> Phonebook	Monitor Typ	e:	Broadcast 🗸]			
	Monitor Add	ress:	224.0.2.0				
> Call logs	Local Port:		16360				
	Name:		SIP Hotspot				
› Function Key	Line Settings						
	Line 1:			Enab	led 🗸		
Application	Line 2:			Enab	led 🗸		

Call extension number:

- The hotspot server and the client can dial each other through the single digit extension number.
- For example, extension 1 dials extension 0.

Phone Settings

Basic Settings

Language

The phone only supports English.

Time & Date

Users can set the phone time through the phone interface and web interface.

• Phone interface: When the phone is in the default state, press [Menu] >> [Basic] >> [Time & Date]. Use the up/down navigation keys to edit parameters. Press [OK] to save.



Parameters	Description
Mode	SNTP/Manual SNTP: Enable network time synchronization via SNTP protocol, default enabled. Manual: User can modify time and date manually.
SNTP Server	SNTP server address
Time zone	Select the time zone
Time format	Select time format from one of the following: 1 JAN, MON 1 January, Monday JAN 1, MON January 1, Monday MON, 1 JAN Monday, 1 January MON, JAN 1 Monday, January 1 DD-MM-YY DD-MM-YYY MM-DD-YY MM-DD-YYY YY-MM-DD YYYY-MM-DD
12-Hour Clock	Display the clock in 12-hour format
Daylight Saving Time	Enable or Disable the Daylight Saving Time

• Web interface: Go to [Phone Settings] >> [Time/Date] , as shown below:

Network Time Server Settings				
Time Synchronized via SNTP				
Time Synchronized via DHCP				
Time Synchronized via DHCPv6				
Primary Time Server	pool.ntp.org]	
Secondary Time Server	pool.ntp.org]	
Time zone	(UTC-6) Manitoba,Easter Is	slands,Mexic 🗸	-	
Resync Period	60	second(s)		
Time/Date Format				
12-hour clock				
Time/Date Format	DD MMM WW 🗸	8 APR THU		
Daylight Saving Time Settings				
Location	None	~		
DST Set Type	Automatic 🗸]		
Fixed Type	Disabled 🗸]		
Offset	0	Minute		
	Start		End	
Month	January 🗸]	January	~
Week	First Week 🗸]	First Week	~
Weekday	Sunday 🗸]	Sunday	~
Hour(s)	0 🗸]	0	~
	Apply			
Manual Time Settings				

Screen Settings

The user can set the phone screen parameters through both of the phone interface and web interface.

• Phone interface: When the phone is in the default standby state, go to [Menu] >> [Basic] >> [Screen] to edit the screen parameters. After editing, click [OK] to save as shown in the figure:

Screen Setting		16 : 39
1. :klight Active Level	12	<>
2. Backlight Inactive	4	<>
3. Backlight Time	45	<>
4. Screensaver	Disabled	$\langle \rangle$
Return Left	Right	ОК

• Web interface: Go to [Phone Settings] >> [Advanced]. Edit the screen parameters, and click Apply to save.

Screen Configuration	
Backlight Active Level:	12 (1~16)
Backlight Inactive Level:	4 (0~16)
Backlight Time:	45 (0~120)second(s)
Screensaver	Disabled 💌
	Apply

- Backlight Active Level: Set the Backlight Active Level (brightness) from 1 to 16. Use navigation keys
 [<] or [>] to adjust brightness level.
- Backlight Inactive Level: Set the Backlight Inactive Level (idle brightness) from 0 to 16. Use Navigation keys [<] or [>] adjust brightness level.
- Backlight Timer: Set the Backlight Timer. Timer range is Always On, Custom, 15 seconds, 30 seconds, 1 minute, 2 minutes, 5 minutes, 10 minutes, 30 minutes, 1 hour, 2 hours, 3 hours, 6 hours, 15 hours.
- Screensaver: The screen saver can be Enable and Disabled: Enabled by default.
- Click Apply to save.

Ring Settings

When the phone is in the default standby mode,

- Press [Menu] >> [Basic] >> [Ring].
- Adjust Headset or Handsfree ring volume using the left / right navigation keys and press OK to save.
- Scroll to Ring Type, press left / right navigation keys to change the ring type.
- Press OK to save.

Voice Volume

When the phone is in the default standby mode,

- Press [Menu] >> [Basic] >> [Voice Volume].
- Adjust Handset, Headset and Handsfree volume with the left / right navigator keys.
- Press OK to save.

Greeting Words

When the phone is in the default standby mode,

- Press [Menu] >> [Basic] >> [Greeting Words].
- Edit the Greetings Words and press OK to save.

NOTICE! The welcome message can only be displayed in the upper left corner of standby screen when this option is disabled.

Reboot

When the device is in the default standby mode,

- Press [MENU] >> [BASIC] >> [Reboot System].
- Press OK. A prompt message will read, "Reboot Now?"
- Press OK to reboot the phone or Cancel.

Phone Book

Local Contact

User can save contact information in the phonebook and dial contact phone numbers from the phonebook. To open the phone book, press Contacts key or Contact soft key while phone is idle. By default the phonebook is empty. User can add contacts to the phone book manually or from call logs.



When there are contact records in the phone book, the contact records will be arranged in alphabetical order. User may browse the contacts with up/down navigator keys. User may check the contact information by pressing [OK] key.

Add / Edit / Delete Contact

To add a new contact, press contacts key then press [Add] key to enter the Add Contacts screen and enter the contact information as shown below,

- Contact Name
- Tel. Number
- Mobile Number
- Other Number
- Line
- Ring Tone
- Contact Group
- Photo

Add Contacts			16 : 41
1. Name	I		
2. Office Numb	ber		
3. Mobile			
4. Other Numb	er		
5. Line	Auto		\Diamond
Return	Abc	Delete	OK

Edit a contact by selecting the contact then pressing [Option] >> [Edit].

To delete a contact, select the contact to be deleted, press [Option] >> [Delete] and confirm with [OK].

Add / Edit / Delete Group

User can create groups, edit the group name, add or remove contacts in the group, and delete a group.

- To add a group, press [Contact] >> [Add Group].
- To delete a group, press [Option] >> [Delete].
- To edit a group, press [Edit].
- The Number behind the group name means the total number of contacts within a group.

Local Conta	cts		16 : 42
1. All Conta	cts (2)		
2. A (0)			
Return	Search	Add Group	OK

Browse and Add / Remove Contacts in Group

User can browse contacts in a group pressing the Contacts key or Contact soft key.



When user is browsing contacts of a group, user can also add contacts to that group by pressing [Add] then pressing [OK] to save the contact. The contact will also be added to the local phonebook. User can delete contact from group by selecting [Option] >> [Delete].

Add Contacts			16 : 44
1. Name	I		
2. Office Number			
3. Mobile			
4. Other Number			
5. Line	Auto		$\langle \rangle$
Return	Abc	Delete	OK

Blocked List

A number added to the Blacklist will be automatically rejected. User can still call a block listed Number.

Phone interface: There are multiple ways to add a number to Block List.

- Option 1: A number can be added by going to [Menu] >> [PhoneBook] >> [Bocked List] >> [Add].
- Option 2: Select a number from the phone book (both local and network), press Options then select Add to Blocked List.
- Option 3::Select any number in the call log then press Options, then select Add to Blocked List.

Blocked List 1						
1. 9725555	5555					
Return	Option	Add	Dial			

Web interface: There are various ways to add number to the blacklist on web page.

- Option 1: Go to [Phonebook] >> [Call list] >> [Restricted Incoming Calls] and Click Add.
- Option 2: Go to [Phonebook] >> [Contacts]. Select any number in the phone book (both local and network) then click Add to Blacklist.
- Option 3: Go to [Call logs]. Select any number in the call log and Click Add to Blacklist.

Rest	ricted Incoming Calls	bbA	Delete Delete All
		Caller Number	Line
		123	ALL
		135	ALL

Cloud Phone Book

Configure Cloud Phone book

Cloud phonebook allows user to download a phonebook from a cloud server. This method ensures that all office personnel are using a phonebook from a single source and saves the effort of creating and maintaining individual contact lists.

NOTICE! The cloud phonebook is ONLY temporarily downloaded to the phone each time it is opened to ensure the user gets the latest phonebook. However, downloading may take a couple seconds depending on network conditions. Therefore, it is highly recommended that important contacts are stored locally to the phone to save download time.

Phone interface: Press [Menu] >> [PhoneBook] >> [Cloud Contacts].

Cloud Contacts		16 : 45
1. note		
Return	Option	OK

Downloading Cloud Phone book

In Cloud Contacts screen, open a cloud phone book by pressing [OK]. The phone will start downloading the phone book. The user will be prompted with a warning message if the download fails.

Once the cloud phone book is downloaded completely, the user can browse the contact list and dial the contact number the same as in the local phonebook.

Cloud Contacts 16 : 4	5 Cloud Contacts 16 : 52
1. note	1. 1
O	2. X3S
	3. 10
Downloading	4. 11
	5. 12
Return Option OK	Return Search Option Dial

Call Log

The phone stores call records.

- Press [CallLog] to open the call record and view all incoming calls, outgoing calls and missed calls.
- Browse the call logs with up/down navigation keys.
 - Each call log record shows the call type, call party number and name'. User can view call log details by pressing [OK], dial the number by pressing [Dial], or add the call log number to phonebook by pressing [Option] >> [Add to Contacts].
 - Delete a call log by pressing [Delete] and clear all call logs by pressing [Options], [Delete All].

4	All	In	Out	Miss	P
	63	63	28	Oct 10:39	
•	\$ 93	93	28	Oct 10:39	
	63	63	28	Oct 10:38	
•	\$ 9527	9527	28	Oct 10:38	
•	9257	9257	28	Oct 10:38	
R	eturn	Option	Delete	Dial	

Users can filter the call records of specific call types to narrow down the scope of search records, and select a call record type by using the left / right navigation keys.

- Missed Call Log



- Incoming Call Log
- Forward Call Log

	All In		Out	Miss	Þ
	543	543	0	6 Aug 16:16	
•	543	543	0	6 Aug 15:51	
•	55	55	0	6 Aug 15:51	
•	544	654	4 00	6 Aug 15:46	
\$	545	654	5 O	6 Aug 14:10	
R	eturn	Option	Delete	Dial	

Function Key

Users can use the page switch key (side key 10) to switch DSS display pages quickly. In addition, the user can also long press each DSS key to modify the corresponding key Settings.

Dsskey		16 : 54
1. Side Dsskey	1-1	$\langle \rangle$
2. Туре	Key Event	<>
3. Key	Call Back	$\langle \rangle$
4. Name		
5. Dss Theme	Green	$\langle \rangle$
Return L	eft Right	сок

The DSS Key can be configured as follows,

- Memory Key
 - Voice mail/Speed Dial/Intercom/BLF/Presence/Call Park/Call Forward.
- Line
- Key Event
 - /Lock/VoiceMail/Directory/Join/CallLog/Flash/Memo/MWI/DND/Hold/Transfer/Phonebook/Redial/ Pickup/Call Forward (to specified line)/Headset/ SMS/Release
- DTMF
- BLF List Key
- Multicast Paging and Listening
- Action URL
- XML Browser

Webpage interface: [Function key] >> [Side Key or Softkey].

Fun	ction Key Settin	igs									
	Dsskey Transfer	Mode Make a	a New C 🔻	Dsskey Home	e P	Page: None 🔻					
				Apply							
	Page1 Page	2					Delete	ŀ	dd New Page		
Key	Туре	Name	Value	Subtype		Line	Media		PickUp Number	Icon Color	
DSS					_						
Key	Line v			None	•	8325@SIP1 •	DEFAULT	۲		Default Green 🔻	l
DSS											
Key	Line 🔻			None	•	SIP2 V	DEFAULT	۳		Default Green 🔻	l
2											
DSS					_						
Key	None •			None	۲	AUTO 🔻	DEFAULT	•		Default Green 🔻	l
3											
DSS					_						
Key	None 🔹			None	•	AUTO 🔻	DEFAULT	•		Default Green 🔻	
4											1

For more information refer to Function Key and LED Definition.

Wi-Fi

The phone supports wireless Internet access and requires the use of a USB Wi-Fi adapter. There are two methods for connecting to a Wi-Fi network, selecting from a list of detected Wi-Fi networks and manual configuration of a Wi-Fi network.

Note: Be aware that, when a Wi-Fi dongle is plugged in, the phone will release the wired LAN IP address

Selecting from a list of detected Wi-Fi networks.

- While the phone is idle, insert Wi-Fi adapter into USB port on the side of the phone. The port is covered by a rubber plug.
- From the phone, go to Menu >> Basic >> WLAN and toggle WLAN to Enabled.
- Press OK
- Phone will search for Wi-Fi sources.
- After successfully finding Wi-Fi sources, the phone will present them on the WLAN screen. Scroll down to **4. Available Network** and press OK to view available networks.
- Select a wireless network and press Link
- The phone will ask for the network password. Enter network Password and press OK to connect to that network. When successfully connected a check mark will appear beside then network, and a Wi-Fi symbol will appear in the upper right corner of the home screen as shown in the images below.
- User can view available networks at any time by going to [Menu] >> [Basic] >> [WLAN] >> [Available Networks or Known Networks].

Available Network	08:35	1003	11 MA	Y TUE	(îr
🛜 ESI	✓	1003@Sl	08		Voice Mail
🛜 Survey	â	SIP2		-	Headset
🛜 Zyxel_Wi-Fi	â	SIP3	1e	si I	Call Back
🛜 eSIP Master	â	SIP4			Record
🗢 vidiu	â	SIP5			1 2
Return Detail Sca	n Unlink	CallLog	Contact	DND	Menu

Manual configuration of a Wi-Fi network.

- From the phone navigate to **Menu > Basic > WLAN** and toggle WLAN to Enabled.
- Scroll to 3. Known Network and press Enter or OK.
- You are at the Known Network screen. Press Add to add a network.
- Enter the following information:
 - Toggle Security Mode to the desired mode using the Navigation keys
 - Enter SSID
 - Enter **WPA Shared Key (password)**
- Press OK.
- You are now back at the Known Network screen. Make sure the desired network is selected and press Link.

A green check mark \checkmark will appear to the right of the selected network when connected. The home screen will show a Wi-Fi icon in the upper right corner.

If phone fails to connect to WIFI, go to **Known Network**, select **Option > 1. Edit**, re-enter Wi-Fi credentials, press **OK** then press **Link**.

If phone still fails to connect to Wi-Fi, power cycle phone.

Headset Wired Headset

- The phone supports a wired headset with an RJ9 connector.
- After connecting the headset to the phone, the Headset DSS key will light green.
- The headset answering mode and ring tone can be set through the phone interface or web interface.
 Web interface: Go to [Phone settings] >> [Features] >> [Basic Settings] and enable Ring From
 - Web interface: Go to [Phone settings] >> [Features] >> [Basic Settings] and enable Ring From Headset.
 - Phone interface: Go to [Menu] >> [[Features] >> [General] >> and enabler [Ring From Headset].

Bas	ic Settings >>			
	Enable Call Waiting:		Enable Call Transfer:	
	Semi-Attended Transfer:		Enable 3-way Conference:	
	Enable Auto on Hook:		Auto HangUp Delay:	3 (0~30)second(s)
	Ring From Headset:	Disabled 💌	Enable Auto Headset:	
	Enable Silent Mode:		Disable Mute for Ring:	

EHS Headset

To enable EHS from the phone, go to [Menu] >> [Features] >> [Advanced] >> [EHS]. Use the left/right navigation keys to toggle EHS from Disabled to Enabled and press OK.

EHS			11 : 45		
1. EHS	Enab	Enabled			
Return	Left	Right	ОК		

Bluetooth Headset

The ePhone3 supports a Bluetooth headset via the ESI Bluetooth adapter.

Bluetooth device compatibility

	ePhone3 v2	ePhone4x v2	ePhoneX-1 Built-in BT	ePhone8 Built-in BT	ePhone3	ePhone4x
BT 1.0 & 1.0B	Yes	Yes	Yes	Yes	N/A	N/A
BT 1.1	Yes	Yes	Yes	Yes	N/A	N/A
BT 1.2	Yes	Yes	Yes	Yes	N/A	N/A
BT 2.0	Yes	Yes	Yes	Yes	N/A	N/A
BT 2.1	Yes	Yes	Yes	Yes	N/A	N/A
BT 3.0	Yes	Yes	No	Yes	N/A	N/A
BT 4.0	Yes	Yes	No	Yes	N/A	N/A
BT 4.1	No	No	No	Yes	N/A	N/A
BT 4.2	No	No	No	Yes	N/A	N/A

Bluetooth for ESI ePhones – Supported Bluetooth Versions

Note: Bluetooth is backwards compatible. Therefore devices that support BT v4.2 will actually support headsets that use an older BT version. The difference between Bluetooth versions comes down to speed. Therefore the closer the phone and headset BT version are to v4.2 the higher the bandwidth. This allows for faster data with less lag and quicker response times between devices.

Advanced

Line Configurations

• From the phone, press [Menu] >> [Advanced] >> [Accounts], select a line account and press OK.

4225			11 : 15
1. Basic			
2. Advanced			
			_
Return	Up	Down	ОК

- Select [Basic] and press OK.
- Toggle Registration to Enabled by using the left/right navigation keys.
- Enter account information and press OK to save.

4225		11 : 15
1. Registration	Enabled	0
2. Server Address	172.16.1.2	
3. Auth. User		
4. Auth. Password		
5. SIP User	4225	
	A Dista	014
Return Le	ft Right	ОК

The same can be done from the web portal by going to [Line] >> [SIP].

Network Settings

From the phone, go to [Menu] >> [Advanced] >> [Network] >> [Network].

Network

• IP Mode

There are 3 IP Mode options, IPv4, IPv6 and IPv4 & IPv6.

Use the left/right navigation keys to select a mode and press OK to save.

WAN Port			15 : 17
1. IP Mode			
2. IPv4			
3. IPv6			
Return	Up	Down	ОК
Recurr	Οp	Down	

• IPv4

In IPv4 mode, there are 3 connection options: DHCP, PPPoE and Static IP.

When using DHCP mode, phone will get the IP address from DHCP server (router).

- Use DHCP DNS: It is enabled by default. When enabled, phone will get DNS address from DHCP server.
- Use DHCP time: It is disabled by default. When enabled, phone will get DNS address from DHCP server.

Network		15 : 16
1. Connection Mode	DHCP	<>
2. Use DHCP DNS	Enabled	<>
3. Use DHCP Time	Disabled	$\langle \rangle$
Return Lef	t Right	OK

When using PPPoE, phone will get the IP address from PPPoE server.

- Username: PPPoE user name.
- Password: PPPoE password.

Network			15 : 15
1. Connection Mode	PPPo	ρE	$\langle \rangle$
2. Username	user	123	
3. Password	****	****	
Return Lef	t	Right	OK

When using Static IP mode, user must configure the IP address manually.

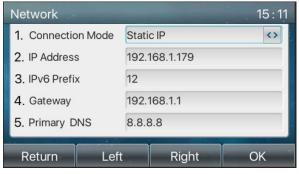
- IP Address: Phone IP address.
- Mask: subnet mask of your LAN.
- Gateway: The gateway IP address.
- Primary DNS: Primary DNS address. The default is 8.8.8.8, Google DNS server address.
- Secondary DNS: Phone will use secondary DNS when primary DNS is not available.

Network		15 : 14
1. Connection Mode	Static IP	$\langle \rangle$
2. IP Address	192.168.1.179	
3. Mask	255.255.255.0	
4. Gateway	192.168.1.1	
5. Primary DNS	8.8.8.8	
Return Lef	t Right	OK

• IPv6

In IPv6, there are 2 connection modes, DHCP and Static.

- o DHCP: Phone will retrieve IP information from a DHCP server automatically.
- Static IP: Phone IP information must be configured manually.



QoS & VLAN

• LLDP

Link Layer Discovery Protocol (LLDP) is a vendor independent link layer protocol used by network devices for advertising their identity, capabilities to neighbors on a LAN segment.

Phone can use LLDP to find the VLAN switch or other VLAN devices.

• CDP

CDP (Cisco Discovery Protocol) is a not-for-profit charity that runs the global disclosure system for investors, companies, cities, states and regions to manage their environmental impacts. According to the CDP, Cisco devices can share the OS version, IP address, hardware version and so on.

WAN VLAN

Use navigation keys to enable/disable.

• LAN VLAN

Use navigation keys to enable/disable.

Parameters	Description
LLDP setting	
Report	Enable or Disable LLDP
Interval	LLDP requests interval time
QoS	
QoS Mode	Enable or Disable QoS, configure SIP DSCP and Audio DSCP
WAN VLAN	
WAN VLAN	Enable or Disable WAN VLAN and configure WAN VLAN
LAN VLAN	
LAN VLAN	Enable or Disable LAN VLAN and configure LAN VLAN
CDP	
CDP	Enable or Disable CDP. Set CDP interval time

VPN

Virtual Private Network (VPN) allows the phone to create a tunneling connection to a server and becomes part of the server's network. The network transmission of the phone may be routed through the VPN server.

For some users, especially enterprise users, a VPN connection may need to be established before activating a line of service. The device supports two VPN modes, Layer 2 Transportation Protocol (L2TP) and OpenVPN.

The VPN connection must be configured and started (or stopped) from the device web portal. The phone only supports non-encrypted basic authentication and non-encrypted data tunneling. For users who need data encryption, use OpenVPN.

L2TP

To establish an L2TP connection, log into the phone web portal, and go to [Network] >> [VPN]. In VPN Mode, check the "Enable VPN" option and select "L2TP", then fill in the L2TP server address,

Authentication Username, and Authentication Password in the L2TP section. Click Apply. The phone will try to connect to the L2TP server. This can also be done from the phone by going to Menu >> Advanced >> Network >> VPN.

When the VPN connection is established, the VPN IP Address should be displayed in the VPN status. There may be a delay in the connection being established. User may need to refresh the page to update the status.

Once the VPN is configured, the phone will connect with the VPN automatically until user disables it. Sometimes, if the VPN connection does not establish immediately, user can reboot the phone and check if VPN connected after reboot.

- OpenVPN
 - To establish an OpenVPN connection, get the following authentication and configuration files from the OpenVPN hosting provider and name them as follows,

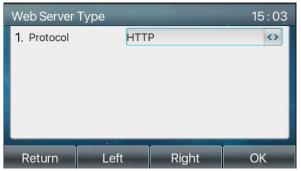
OpenVPN Configuration file:	client.ovpn
CA Root Certification:	ca.crt
Client Certification:	client.crt
Client Key:	client.key

- Log in to the phone web page.
- Go to [Network] >> [VPN] >>[OpenVPN Files], and select OpenVPN Configuration file.
- Upload the files to the phone.
- o Check "Enable VPN"
- Select "OpenVPN" in VPN Mode.
- Click "Apply" to enable OpenVPN connection.

Once configured, the phone will connect with the VPN automatically until user disables it.

Web Server Type

Configure the Web Server mode to be HTTP or HTTPS and will be activated after the reboot. Then user could use http/https protocol to access pone web page.



Set Passwords

Menu Password:

When the phone is in the default standby mode,

• Select [Menu] >> [Advanced setting] >> [Security] >> [Menu Password], enter Current password, New password, Confirm password and press [OK].

As default, the Advance setting password is 123.

Menu password grants permission to access the advanced setting.

Menu Passw	/ord		14 : 59
1. Current pa	assword		
2. New pass	word		
3. Confirm p	assword		
Return	123	Delete	OK

Keyboard Password:

Keyboard password is used to unlock the phone once it's locked.

- Select [Menu] >> [Advanced setting] >> [Security] >> [Keyboard Password].
- Use the left/right navigation keys to toggle Keyboard Status lock to All, Menu or DSSKey.
- Set KeyLock Timout
- Press OK to save.

Keyboard Pass	word	14 : 57
1. Keyboard Stat	us Disabled	$\langle \rangle$
-		
Return	Left Right	ОК

• Once keyboard lock is set, long press # to lock the phone. A lock icon will appear in the top right corner of the screen. Phone will prompt "Enter Password" when any key is pressed.

1003	9 AP	R FRI	%‡
1003@Sl	05	54	Voice Mail
SIP2	(i)		Headset
SIP3	Enter Pa	ssword	
SIP4		I	
SIP5			1 2
Return	123	Delete	ОК

Keyboard Lock Settings can also be set from the phone web page by going to [Phone Settings] >> [Advanced] >> [Keyboard Lock Settings].

Keyboard Lock Settings	
Keyboard Password:	•••
Keyboard Time:	0
Enable Keyboard Lock:	
	Apply

Maintenance

Configure phone web interface access: From the phone, go to [Menu] >> [Advanced] >> [Maintenance].

Maintenance	Э		14 : 54
1. Auto Provision			
2. TR069			
5			
Dat			OK
Return	Up	Down	OK

From the phone Web page: Login and go to [System] >> [Auto provision].

Basic Settings				
CPE Serial Number:	00100400FV020010000000a859fd14cd			
Authentication Name:	admin			
Authentication Password:	••••			
Configuration File Encryption Key:				
General Configuration File Encryption Key:				
Download Fail Check Times:	1			
Update Contact Interval:	720 (0,>=5)Minute			
Save Auto Provision Information:				
Download CommonConfig enabled:				
Enable Server Digest:				
Display Provision Prompt:	Disable All Provision Prompt			
DHCP Option >>				
DHCPv6 Option >>				
SIP Plug and Play (PnP) >>				
Static Provisioning Server >>				
Autoprovision Now >>				
TR069 >>				

The options are SIP PnP, DHCP options, Static Provisioning Server, TR069. If all of the 4 methods are enabled, the priority from highest to lowest will be **PNP>DHCP>TR069>Static Provisioning**.

Description Phone serial number The user name of provision server The password of provision server If the phone configuration file is encrypted, user will add the encryption key here. If the common configuration file is encrypted, user will add the encryption key here.
The user name of provision server The password of provision server If the phone configuration file is encrypted, user will add the encryption key here. If the common configuration file is encrypted, user will add the encryption
The password of provision server If the phone configuration file is encrypted, user will add the encryption key here. If the common configuration file is encrypted, user will add the encryption
If the phone configuration file is encrypted, user will add the encryption key here. If the common configuration file is encrypted, user will add the encryption
key here. If the common configuration file is encrypted, user will add the encryption
If the common configuration file is encrypted, user will add the encryption
kov boro
key here.
If download fails, phone will retry with the configured times.
Phone will update the phonebook at the configured interval time. If it is 0, the feature is disabled.
When checked, the phone will save the HTTP/HTTPS/FTP user name
and password. If the provision URL is kept, the information will be kept.
When checked, the phone will download the common configuration file.
When this feature is enabled, if the configuration of server is changed, phone will download and update.
Option
Configure DHCP option. DHCP option supports three methods to get the provision URL, DHCP custom option / DHCP option 66 / DHCP option 43. The default is Option 66.
Custom Option value is allowed from 128 to 254. The option value must be same as server define.
Use Option120 to get the SIP server address from DHCP server.
Check this option to enable PNP. If PnP is enabled, phone will send a SIP SUBSCRIBE message with broadcast method. Any server that supports this feature will respond and send a Notify with URL to phone. Phone can get the configuration file with the URL.
Broadcast address. Default is 224.0.0.0.
PnP access port
PnP protocols are TCP or UDP.
PnP message interval.
Provisioning server address. Support both IP address and domain address.
The configuration file name. If it is left empty, phone will request the common file and device file which is named as its MAC address. The file name can be a common name, \$mac.cfg, \$input.cfg. The file format supports CFG/TXT/XML.
Transferring protocol type. Supports FTP, TFTP, HTTP and HTTPS
Configuration file update interval time. Default is 1, means phone will check the update every 1 hour.

The transfer protocols available are FTP, TFTP, HTTP, HTTPS.

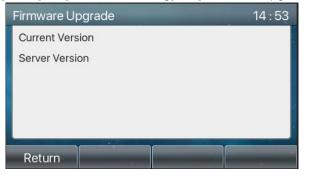
	Provision Mode.
Update Mode	1. Disabled.
	2. Update after reboot.
	3. Update after time interval.
TR069	
Enable TR069	Select to enable TR069
ACS Server Type	There are 2 Server Type options, Common and CTC.
ACS Server URL	ACS server address
ACS User	ACS server username (can be up to is 59 character)
ACS Password	ACS server password (can be up to is 59 character)
Enable TR069 Warning	If TR069 is enabled, there will be a prompt tone when connecting.
Tone	In 1 Roos is enabled, there will be a prompt tone when connecting.
TLS Version	TLS version (TLS 1.0, TLS 1.1, TLS 1.2)
INFORM Sending Period	INFORM signal interval time. It ranges from 1s to 999999s
STUN Server Address	Configure STUN server address
STUN Enable	Enable STUN server for TR069

Firmware Upgrade

• Web page: Log in to the phone web page and go to [System] >> [Upgrade].

Software upgrade				
	Current Software Version:	1.0.4		
	System Image File:		Select	Upgrade
Upgrade Server				
	Enable Auto Upgrade:			
	Upgrade Server Address1:			
	Upgrade Server Address2:			
	Update Interval:	24	hour	
		Apply		
Firmware Informat	ion			
	Current Software Version:	1.0.4		
	Server Firmware Version:			
	Upgrade			
	New Firmware Information:			
Ring Upgrade				
	Load Server File:		Select	(*.wav) Upload

• Phone interface: Go to [Menu] >> [Advanced setting] >> [Firmware Upgrade].



Parameter	Description
Upgrade server	
Enable Auto Upgrade	If there is a new version txt and new firmware on the server, the phone
	will show a prompt upgrade message after Update Interval.
Upgrade Server Address1	Set available upgrade server address.
Upgrade Server Address2	Set available upgrade server address.
Update Interval	Set Update Interval.
Firmware Information	
Current Software Version	It will show Current Software Version.
Server Firmware Version	It will show Server Firmware Version.
Upgrade button	If there is a new version txt and new firmware on the server, the page will display version information and the upgrade button will become available; Click Upgrade button to upgrade the new firmware.
New Firmware Information	When there is a corresponding TXT file and version on the server side, the TXT and version information will be displayed under the new version description information.

- The file requested from the server is a TXT file called vendor_model_hw10.txt.Hw followed by the hardware version number, it will be written as hw10 if no difference on hardware. All Spaces in the filename are replaced by underline.
- The URL requested by the phone is HTTP:// server address/vendor_Model_hw10.txt: The new version and the requested file should be placed in the download directory of the HTTP server.
- TXT file format must be UTF-8
- vendor_model_hw10.TXT
 Version=1.6.3 #Firmware
 Firmware=xxx/xxx.z #URL, Relative paths are supported and absolute paths are possible, distinguished by the presence of protocol headers.
 BuildTime=2018.09.11 20:00
 Info=TXT|XML

Xxxxx Xxxxx Xxxxx

- Xxxxx
- After the update interval arrives, if the server has available files and versions, the phone will prompt that a firmware upgrade is available. Click OK to view the version information and upgrade.

Factory Reset

While the phone is in default standby mode:

- Press [Menu] >> [Advanced Settings], enter password and press [OK]. Default password is 123.
- Select [Factory reset].
- Use the left/right navigation keys to select all configurations that are to be factory reset.
- Press [OK] to factory reset phone. The phone will restart automatically after clearing the selected configurations.

Web Configurations

Web Page Authentication

The user can manage the phone from the phone web page. User must have user name and password to log into the web page.

User:	
Password:	
Language:	English 🗸
	Login

System >> Information

User can view the system information of the device including,

- Model
- Hardware Version
- Software Version
- Uptime
- Network Mode
- MAC Address
- IP address
- Subnet Mask
- Default Gateway
- SIP User information
- SIP account status (Registered / Unapplied / Trying / Timeout)

System >> Account

On this page the user can change the password for the web login page.

Users with administrator rights can also add or delete users, manage users, and set permissions and passwords for new users.

System >> Configurations

On this page, users with administrator privileges can view, export, or import the phone configuration, or restore the phone to factory Settings.

- Clear Configurations
 Select the module in the configuration file to clear.
 SIP: account configuration.
 AUTOPROVISION: automatically upgrades the configuration
 TR069:TR069 related configuration
 MMI: MMI module, including authentication user information, web access protocol, etc.
 DSS Key: DSS Key configuration
- Clear Tables Select the local data table to be cleared, all tables are selected by default.
- Reset Phone The phone data will be cleared, including configuration and database tables.

System >> Upgrade

Upgrade the phone software version, customized ringtone, background, DSS Key icon, etc. Ring tone support ".wav" format.

System >> Auto Provision

The Auto Provision settings help IT manager or service provider to easily deploy and manage the phones in mass volume. For Auto Provision details, refer to **Auto Provision**.

System >> Tools

Tools provided in this page help users to identify and troubleshoot issues. Refer to **Trouble Shooting** for more detail.

System >> Reboot Phone

Restart the phone without factory resetting.

Network >> Basic

This page allows users to configure network connection types and parameters

The device supports coexistence of Wi-Fi and Ethernet, and users can log in to the web page with any configured network address

Network Adapter		
Network Adapter Priorit		
WI-Fi Ethernet		
	Apply	
Net Type Ethernet V		
Network Mode		
Network Mode:	IPv4 Only 🗸	
IPv4 Network Status		
IP:	192.168.2	
Subnet mask:	255.255.255.0	
Default gateway:	192.168.2. 4	
MAC:	00:30:4d:0	
IPv4 Settings		
Static IP 〇	DHCP 🔍	PPPoe O
Enable Vendor Identifier:	Disabled V	
Vendor Identifier:	Estech	
DNS Server Configured by:	DHCP 🗸	
Primary DNS Server:	192.168.21	
Secondary DNS Server :		
DNS Domain:		
	Apply	

Parameter	Description
Network Adapter	Network adapter priority can be set by selecting a network and clicking the up
Network Adapter	or down to move that network up or down in the list.
Net Type	Network Type can be set to Ethernet or Wi-Fi.
Network Mode	Network Mode can be selected from the drop down list. The options are IPv4
	Only, IPv6 Only, or IPv4 & IPv6.
IPv4 Network Status	This shows the status of the network connection.
IPv4 Settings	Set to Static IP, DHCP or PPPoE.

Network >> Service Port

This page provides settings for Web page login protocol, protocol port settings and RTP port.

Service Port Settings	
Web Server Type:	HTTP V
Web Logon Timeout:	15 (10~30)Minute
web auto login:	
HTTP Port:	80
HTTPS Port:	443
RTP Port Range Start:	10000 (1025~65530)
RTP Port Quantity :	1000 (10~1000)
	Apply

Parameter	Description
Mah Sariyar Tyma	Reboot is required for this option to take effect after settings. Optionally, the
Web Server Type	web page login is HTTP/HTTPS.
Web Logon Timeout	Default is 15 minutes. The timeout will automatically log out the user.
Web auto login	After the timeout, user does not need to enter a user name password.
HTTP Port	Default is 80. User can set ports other than 80 for better security.
	Such as :8080, webpage login: HTTP://ip:8080
HTTPS Port	Default is 443.
RTP Port Range Start	The value range is 1025 to 65530. The value of the RTP port starts from the
	initial value set. For each call, the value of voice port adds 2.
RTP Port Quantity	Number of calls.

Network >> VPN

Users can configure a VPN connection on this page. Refer to **VPN** section for more details.

Network >> Advanced

Advanced network Settings are typically configured by the IT administrator to improve the quality of the phone service.

Line >> SIP

Configure Line service on this page. Select a line then configure its parameters listed below.

Parameters	Description
Register Settings	
Line Status	Displays the current line status at page loading. To get the up to date line status, user must refresh the page manually.
Activate	Select to activate the line
Username	Enter the username of the service account.
Authentication User	Enter the authentication user of the service account
Display Name	Enter the display name to be sent in a call request.
Authentication Password	Enter the authentication password of the service account
Realm	Enter the SIP domain if requested by the service provider
Server Name	Input server name.
SIP Server 1	
Server Address	Enter the IP or FQDN address of the SIP server
Server Port	Enter the SIP server port, default is 5060
Transport Protocol	Set up the SIP transport line using TCP, UDP or TLS.
Registration Expiration	Set SIP expiration date.
SIP Server 2	
Server Address	Enter the IP or FQDN address of the SIP server
Server Port	Enter the SIP server port, default is 5060
Transport Protocol	Set up the SIP transport line using TCP, UDP or TLS.
Registration Expiration	Set SIP expiration time in seconds.
Proxy Server Address	Enter the IP or FQDN address of the SIP proxy server.
Proxy Server Port	Enter the SIP proxy server port, default is 5060.
Proxy User	Enter the SIP proxy user.
Proxy Password	Enter the SIP proxy password.
Backup Proxy Server Address	Enter the IP or FQDN address of the backup proxy server.
Backup Proxy Server Port	Enter the backup proxy server port, default is 5060.
Basic Settings	
Enable Auto Answering	When enabled, the incoming calls will be answered automatically after the delay time
Auto Answering Delay	Set the delay for incoming call before the call is automatically answered
Call Forward Unconditional	When enabled, all incoming calls will be forwarded to the number specified in the next field
Call Forward Number for Unconditional	Set the number of unconditional call forward
Call Forward on Busy	Enable call forward on busy, when the phone is busy, any incoming call will be forwarded to the number specified in the next field.
Call Forward Number for Busy	Set the number of call forward on busy.
Call Forward on No Answer	Enable call forward on no answer, when an incoming call is not answered within the configured delay time, the call will be forwarded to the number specified in the next field.
Call Forward Number for No Answer	Set the number of call forward on no answer.
Call Forward Delay for No	Set the delay time before an un-answered gets forwarded.

Answer	
Transfer Timeout	Set the timeout of call transfer process.
	Set the type of call conference. Local=set up call conference by the
Conference Type	device itself. Supports two remote parties maximum, Server=set up call
	conference by dialing to a conference room on the server
Server Conference Number	Set the conference room number when conference type is set to Server
	Enable the device to subscribe a voice message waiting notification, if
Subscribe For Voice	enabled, the device will receive notification from the server if there is
Message	voice message waiting on the server
Voice Message Number	Set the number for retrieving voice message
Voice Message Subscribe	
Period	Set the interval of voice message notification subscription
	Enabling hotline configuration, the device will dial to the specific number
Enable Hotline	immediately at audio channel opened by off-hook handset or hands-free
	speaker or headphone
Hotline Delay	Set the delay for hotline before the system automatically dials
Hotline Number	Set the hotline dialing number
Dial Without Registered	Set call out by proxy without registration
Enable Missed Call Log	If enabled, the phone will save missed calls to the call history record.
DTMF Type	Set the DTMF type to be used for the line
DTMF SIP INFO Mode	Set the SIP INFO mode to send '*' and '#' or '10' and '11'
Enable DND	Enable Do-not-disturb. Any incoming call to this line will be rejected
Use VPN	Enable to allow the line to use VPN route
Use STUN	Set the line to use STUN for NAT traversal
Enable Failback	Enable this option to switch back to primary server when it is available.
	A Register message is used to periodically detect the time interval for
Failback Interval	the availability of the main Proxy.
Signal Failback	Multiple proxy cases, whether to allow the invite/register request to also
Signal Failback	execute failback.
Signal Batry Counta	The number of attempts that the SIP Request considers proxy
Signal Retry Counts	unavailable under multiple proxy scenarios.
Codooo Sottingo	Set the priority and availability of the codecs by adding or removing
Codecs Settings	them from the Enabled Codecs list.
Advanced Settings	
	When this setting is enabled, the features in this section will not be
Lies Fasture Cada	handled by the device itself but by the server instead. In order to control
Use Feature Code	the enabling of the features, the device will send feature code to the
	server by dialing the number specified in each feature code field.
Enable DND	Set the feature code to dial to the server
DND Disabled	Set the feature code to dial to the server
Enable Call Forward	Set the facture and to dial to the compare
Unconditional	Set the feature code to dial to the server
Disable Call Forward	Cat the facture and to dial to the company
Unconditional	Set the feature code to dial to the server
Enable Call Forward on	Cat the facture and to dial to the company
Busy	Set the feature code to dial to the server
Disable Call Forward on	
Busy	Set the feature code to dial to the server
Enable Call Forward on No	
Answer	Set the feature code to dial to the server
Disable Call Forward on No	Set the feature code to dial to the server
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Answer	
Enable Blocking	
Anonymous Call	Set the feature code to dial to the server
Disable Blocking	
Anonymous Call	Set the feature code to dial to the server
Call Waiting On Code	Set the feature code to dial to the server
Call Waiting Off Code	Set the feature code to dial to the server
Send Anonymous On Code	Set the feature code to dial to the server
Send Anonymous Off Code	Set the feature code to dial to the server
RTP Encryption	Enable RTP encryption such that RTP transmission will be encrypted
	Enable the call session timer. The call session will end if there is no new
Enable Session Timer	session timer event update received after the timeout period
Session Timeout	Set the session timer timeout period
Enable BLF List	Enable/Disable BLF List
	BLF List allows one BLF key to monitor the status of a group. Multiple
BLF List Number	BLF lists are supported.
	If enabled, the phone will use a single codec in response to an incoming
Response Single Codec	call request
	The registered server will receive the subscription package from
	ordinary application of BLF phone.
BLF Server	Enter the BLF server, if the sever does not support subscription
	package, the registered server and subscription server will be
	separated.
	Set the line to use dummy UDP or SIP OPTION packet to keep NAT
Keep Alive Type	pinhole opened
Keep Alive Interval	Set the keep alive packet transmission interval
Keep Authentication	Keep the authentication parameters from previous authentication
Blocking Anonymous Call	Reject any incoming call that does not present caller ID
User Agent	Set the user agent, the default is Model number and Software Version.
Specific Server Type	Set the line to collaborate with specific server type
SIP Version	Set the SIP version
Anonymous Call Standard	Set the standard to be used for anonymous calls
Local Port	Set the local port
Ring Type	Set the ring tone type for the line
Enable user=phone	Sets user=phone in SIP messages.
Use Tel Call	Set use tel call
	Use TCP protocol to guarantee usability of transport for SIP messages
Auto TCP	above 1500 bytes
Enable Rport	Set the line to add Rport in SIP headers
Enable PRACK	Set the line to support PRACK SIP message
DNS Mode	Select DNS mode, A, SRV, NAPTR
Enable Long Contact	Allow more parameters in contact field per RFC 3840
	Enables the use of strict routing. When the phone receives packets from
Enable Strict Proxy	the server, it will use the source IP address, not the address in via field.
Convert URI	Convert not digit and alphabet characters to %hh hex code
Use Quote in Display	
Name	Adds quotes in display name, i.e. "123" vs 123
Enable GRUU	Support Globally Routable User-Agent URI (GRUU)
Sync Clock Time	Time Sync with server
-	With the post-call hold capture package enabled, you can see in the
Enable Inactive Hold	INVITE package taht SDP is inactive.
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Caller ID Header	Set the Caller ID Header	
Use 182 Response for Call		
waiting	Set the device to use 182 response code at call waiting response	
Enable Feature Sync	Feature Sync with server	
Enable SCA	Enable/Disable SCA (Shared Call Appearance)	
CallPark Number	Set the CallPark number.	
Server Expire	Set the timeout to use the server.	
TLS Version	Choose TLS Version.	
uaCSTA Number	Set uaCSTA Number.	
Enable Click To Talk	With the use of a special server, click to call out directly after enabling.	
Flash mode	Chose Flash mode, normal or SIP info.	
Flash Info Content-Type	Set the SIP info content type.	
Flash Info Content-Body	Set the SIP info content body.	
PickUp Number	Set the scramble number when Pickup is enabled.	
JoinCall Number	Set JoinCall Number.	
Intercom Number	Set Intercom Number.	
Unregister On Boot	Select to enable logout function.	
Enable MAC Header	Open user registration with IP package and user agent MAC.	
Enable Register MAC	Open user agent registration with MAC.	
Header		
BLF Dialog Strict Match	Whether to enable accurate matching of BLF sessions.	
PTime(ms)	Set Ptime field interval	
SIP Global Settings		
Strict Branch	Set to strictly match the Branch field.	
Enable Group	Set to enable group.	
Enable RFC4475	Set to enable RFC4475.	
Enable Strict UA Match	Enable strict UA matching.	
Registration Failure Retry	Set the registration failure retry time.	
Time		
Local SIP Port	Set the local SIP port.	

Line >> SIP Hotspot Refer to SIP Hotspot section.

Line >> Dial Plan

Basic Settings

Basic Settings	
	Press # to invoke dialing
	Dial Fixed Length 11to Send
	Send after10 second(s)(3~30)
	Press # to Do Blind Transfer
	Blind Transfer on Onhook
	Attended Transfer on Onhook
	Attended Transfer on Conference Onhook
	Enable E.164
	Apply

Parameters	Description
Press # to invoke dialing	The user dials the other party's number and then adds the # number to dial out
Dial Fixed Length	The number entered by the user is automatically dialed out when it reaches a fixed length
Timeout dial (send after x seconds)	The system dials automatically after timeout
Press # to Do Blind Transfer	The user enters the number to be transferred and then presses the
	"#" key to transfer the current call to a third party
Blind Transfer on Onhook	After the user enters the number, hang up the phone to transfer the
	current call to a third party.
Attended Transfer on Onhook	Hang up the phone when other end answers to transfer the current
Allended Transier on Onnook	call to a third party.
Attended Transfer on	During a three-way call, hang up the phone and the remaining two
Conference Onhook	parties remain on the call.
Enable E.164	Refer to E.164 standard specification

Dial Plan Add:

Digit Map:			0				
Apply to Ca	I: Outgoing Ca	all 🗨 🕜	Match to Send:	No 💌 🕜			
Line:	SIP DIALPER	R 💽 🕜	Destinat	tion:	0	Port:)
Alias(Option	al): No Alias 💌	0	Phone Number		0	Length: 🧧)
Suffix:			0				
				Add			
	0						
Plan Option			De	lete Modif	v		
Plan Option					·		
	al Plan Table	0			·		

Parameters	Description				
	There are two types of matching: Full Matching or Prefix Matching. In Full matching,				
	the entire phone number is entered and then mapped per the Dial Peer rules.				
Dial rule	In prefix matching, only part of the number is entered followed by T. The mapping				
	with then take place whenever these digits are dialed. Prefix mode supports a				
	maximum of 30 digits.				
Note: Two different	t special characters are used.				
x Matches any si	ingle digit that is dialed.				
[] Specifies a rar	nge of numbers to be matched. It may be a range, a list of ranges separated by				
commas, or a list of digits.					
Destination	Set Destination address. This is for IP direct.				
Port	Set the Signal port. Default is 5060 for SIP.				
Alias	Set the Alias. This is the text to be added, replaced or deleted.				
Note: There are fou	ur types of aliases.				
all: xxx – xxx will re	eplace the phone number.				
add: xxx – xxx will	add: xxx – xxx will be dialed before any phone number.				
del –The characters will be deleted from the phone number.					
rep: xxx – xxx will be substituted for the specified characters.					
Suffix	Characters to be added at the end of the phone number. It is an optional item.				
Longth	Set the number of characters to be deleted. For example, if this is set to 3, the				
Length	phone will delete the first 3 digits of the phone number. It is optional.				

This feature allows the user to create rules to make dialing easier. There are several different options for dial rules. The examples below will show how this can be used.

Example 1: All Substitution -- Assume that it is desired to make a direct IP call to IP address 172.168.2.208. Using this feature, 123 can be substituted for 172.168.2.208.

Index	Digit Map	Call	Match to Send	Line	Alias Type:Number(length)	Suffix	Media
1	"123"	Out	No	SIP DIALPEER(172.16.1.15:5560)			Defau

User-defined Dial Plan Table 🕜

Example 2: Partial Substitution -- To dial a long distance call requires dialing area code 010 before the local phone number. Using this feature 1 can be substituted for 010. For example, to call 62213123 would only require dialing 162213123 instead of 01062213123.

User	-defined	Dial Plan Ta	ble 🕜				
	Index	Digit Map	Call	Match to Send	Line	Alias Type:Number(length)	Suffix Media
	1	"1T"	Out	No	ESI@SIP1	rep:010(1)	Default

Example 3: Addition -- Two examples are shown. In the first case, it is assumed that 0 must be dialed before any 11 digit number beginning with 13. In the second case, it is assumed that 0 must be dialed before any 11 digit number beginning with 135, 136, 137, 138, or 139. Two different special characters are used.

x -- Matches any single digit that is dialed.

[] – Brackets specify a range of numbers to be matched. It may be a range, a list of ranges separated by commas, or a list of digits.

Line >> Action Plan

1. When an IP phone calls a phone, an action plan can be put in place to handle the call.

2. When SIP calls, multicast calls or intercom calls are made, the device converts calls that conform to the number rules into group calls.

Parameter	Description
Number	Auxiliary phone number
Туре	When connected
Direction	For call mode, incoming/outgoing/both
Line	Select outgoing lines.
Username	User name
Password	Password
URL	Mcast Address
UNL	(mcast://IP:port)
User Agent	Set user agent information

Line >> Basic Settings

Set up the register global configuration.

Parameters	Description
STUN Settings	
Server Address	Set the STUN server address
Server Port	Set the STUN server port, default is 3478
Binding Period	Set the STUN binding period which can be used to keep the NAT pinhole
Binding Fenod	opened.
SIP Waiting Time	Set the timeout of STUN binding before sending SIP messages
SIP P2P Settings	
Enable Auto Answering	Set phone to auto answer an incoming call after auto answer delay time
Auto Answering Delay	Set the delay time
DTMF Type	Set DTMF type
DTMF SIP INFO Mode	Set to send 10/11 or */#
Enable Preview	Enable preview
Use VPN	Select to use VPN

Line >> RTCP-XR

RTCP-XR mode is based on RFC3611 (RTP Control Extended Report), which can measure and evaluate network packet loss, delay and voice quality by sending RTCP-XR packets.

Parameters	Description
VQ RTCP-XR Settings	
VQ RTCP-XR Session Report	VQ report on whether session mode is enabled or not.
VQ RTCP-XR Interval Report	Whether to turn on Interval mode for VQ report sending.
Period for Interval Report(5~99)	The time interval at which VQ reports are sent periodically.
Warning threshold for Moslq(15~40)	When the phone calculated the Moslq value x10 below the set
	threshold, a warning is issued.
Critical threshold for Moslq(15~40)	When the phone calculates the Moslq value x10 below the set
	threshold, the critical report is issued.
Warning Threshold for	When the one-way delay of the phone is greater than the set
Delay(10~2000)	threshold, warning is issued.
Critical Threshold for Delay(10~2000)	When the phone computes that the one-way delay is greater
Childar Threshold for Delay(10-2000)	than the set threshold, the critical report is issued.
Display Report options on phone	Whether to display VQ report data for the last call through the
	phone.
Display Report Options on web	Whether to display the VQ report data for the last call through
	the web page.

Phone settings >> Features

Configuring phone features.

Parameters	Description
Basic Settings	
Enable Call Waiting	Enable this setting to allow user to take second incoming call during an established call. Default enabled.
Enable Call Transfer	Enable Call Transfer.
Semi-Attended Transfer	Enable Semi-Attended Transfer
Enable 3-Way Conference	Enable 3-way conference
Enable Auto On hook	The phone will hang up and return to idle automatically after call
Auto HangUp Delay	Specify Auto Onhook time delay, the phone will hang up and return to idle automatically after call
Ring from Headset	Enable Ring from Headset by selecting it, the phone plays ring tone from headset.
Enable Auto Headset	Enable this feature to enable headset auto answer.
Enable Silent Mode	When enabled, the ring volume is muted. User can use the volume keys and mute key to unmute.
Disable Mute for Ring	When enabled, user cannot mute the phone
Enable Default Line	If enabled, user can assign default SIP line for dialing out rather than SIP1.
Enable Auto Switch Line	Enable phone to select an available SIP line as default automatically
Default Ext Line	Select the default line to use for outgoing calls
Ban Outgoing	When enabled, user cannot dial out to any number.
Hide DTMF	Configure the hide DTMF mode.
Enable CallLog	Select whether to save the call log.
Enable Restricted Incoming List	Enable restricted call list.
Enable Allowed Incoming List	Enable the allowed call list.
Enable Restricted Outgoing List	Enable the restricted allocation list.
Enable Country Code	When selected, the country code is enabled.
Country Code	Enter the country code.
Area Code	Enter the area code.
Enable Number Privacy	Enable number privacy.
Match Direction	Matching direction. There are two rules, from right to left and from left to right.
Start Position	Enable number privacy after the start of the defined position.
Hide Digits	Turn on number privacy to hide the number of digits.
Allow IP Call	If enabled, user can dial out with IP address
P2P IP Prefix	Prefix a point-to-point IP call.
Caller Name Priority	Change caller ID display priority.
Emergency Call Number	Set Emergency Call Number. This number can be dialed even when the keyboard is locked. Dial the number and press the dial key.
Search path	Select the search path for contacts.
LDAP Search	Select an LDAP for searching contacts
Restrict Active URI Source IP	Set the device to accept Active URI command from specific IP address.
Push XML Server	Configure the Push XML Server, when phone receives request, it will

	determine whether to display corresponding content on the phase
	determine whether to display corresponding content on the phone which is sent by the specified server.
	Disabled. User enters number and audio channel will open
	automatically.
Enable Pre-Dial	Enabled. User enters number without opening audio channel
	automatically.
	If enabled, up to 10 simultaneous calls can exist on the phone. If
Enable Multi Line	disabled, up to 2 simultaneous calls can exist on the phone.
Line Display Format	Custom line format: Options are SIPn, SIPn: xxx, xxx@SIPn
Contact As White List Type	Options are NONE, BOTH, DND White List, FWD White List
Block XML When Call	Disable XML push on call.
	When enabled, the phone displays the information when it receives the
SIP notify	relevant notify content.
Tone Settings	
Enable Holding Tone	When enabled, a tone plays when call is on hold
Enable Call Waiting Tone	When enabled, a tone plays when a call is waiting to be answered
Play Dialing DTMF Tone	Play DTMF tones on the phone when dialing digits. Default enabled.
	Play DTMF tone on the phone when user presses digits during talking.
Play Talking DTMF Tone	Default enabled.
DND Settings	
DND Option	Select an option to take effect on the line, on the phone, or off.
Enable DND Timer	Enable DND Timer, If enabled, DND is automatically turned on from
	the start time to the off time.
DND Start Time	Set DND Start Time
DND End Time	Set DND End Time
Intercom Settings	
	When intercom is enabled, the phone will accept the incoming call
Enable Intercom	request with a SIP header of Alert-Info instruction to automatically
	answer the call after a delay.
Enable Intercom Mute	Enable mute mode during the intercom call
Enable Intercom Tone	If the incoming call is an intercom call, the phone will play an intercom tone
Enable Intercom Barge	The phone auto answers the intercom call during a call. If the current call is intercom call, the phone will reject the second intercom call.
Redial settings	
Enable Call Completion	Enable call completion
Enable Auto Redial	Redial the last number dialed automatically
Auto Redial Interval	Set a time interval to redial
Auto Redial Times	Set a number of times to attempt redial
Redial enter CallLog	Enter redial attempts into the call log
Response Code Settings	
DND Response Code	Set the SIP response code on call rejection while DND is enabled
Busy Response Code	Set the SIP response code on line busy
Reject Response Code	Set the SIP response code on call rejection
Password Dial Settings	
	Enable Password Dial by selecting it. When the number that is entered
	begins with the password profix, the following N numbers ofter the
	begins with the password prefix, the following N numbers after the
Enable Password Dial	password prefix will be hidden as *. N stand for the value which was
Enable Password Dial	password prefix will be hidden as *. N stand for the value which was enter in the Password Length field. Example: Set the password prefix
Enable Password Dial	password prefix will be hidden as *. N stand for the value which was

Encryption Number Length	Configure the Encryption Number length				
Password Dial Prefix	Configure the prefix of the password call number				
Power LED					
Common	Standby power lamp state. Off when set to off. On is always bright red. Off by default.				
SMS / Voice mail	This sets the status of power lamp when there is unread short message/voice message. Options are off/on/slow blink/fast blink. Default is slow blink.				
Missed call	This sets the state of the power lamp when there is a missed call. Options are off/on/slow blink/fast blink. Default is slow blink.				
Talk/Dial	The power lamp options are off and on. Off is off. On is always bright red. Default is off.				
Ringing	Power lamp status when there is an incoming call, including off/on/slow blink/fast blink. Default is fast blink.				
Mute	Power lamp status in mute mode, including off/on/slow flash/quick flash, off by default.				
Hold/Held	The power lamp states are off/on/slow blink/fast blink. Default is off.				
DssKey Settings	Set the BLF LED status and Line LED status. Options are on/off/slow blink/fast blink.				
Notification Popups					
Display Missed Call Popup	Display a popup when a call is missed. Popup shows the number of missed calls.				
Display Voice Mail Popup	Display a popup when there is a message waiting. Popup shows the number of messages waiting.				
Display SMS Popup	Display a popup when an SMS message is waiting to be read.				
Display Other Popup	Display a popup when the handset is not fully set on cradle, when registration fails, when IP acquisition fails, when TR069 connection fails, and other abnormalities.				

Phone settings >> Media Settings

Change voice Settings.

Parameters	Description				
	Select voice codec:				
Codecs Settings	G.711A/U,G.722,G.729, G.726-16,G726-24,G726-32,G.726-40,				
-	G.723,ILBC,Opus				
Enable / Disable Codecs	Select a codec				
Media Settings					
Handset Volume	Set the Handset volume to 1~9				
	Configure default ringtones. If no special ringtone is set for the phone				
Default Ring Type	number, the default ringtone will be used.				
Speakerphone Volume	Set the hands-free volume to 1-9.				
Headset Ring Volume	Set the volume of the headset ringtone to 1~9.				
Headset Volume	Set the volume of the headset to 1~9.				
Speakerphone Ring Volume	Set the volume of hands-free ringtone to 1~9.				
G.723.1 Bit Rate	5.3kb/s or 6.3kb/s is available.				
DTMF Payload Type	Enter the DTMF payload type, the value must be 96~127.				
Headset Mic Gain	Set the MIC gain to fit different models of headsets.				
Handset Mic Gain	Set the handset MIC gain.				
Handsfree Mic Gain	Set the handsfree MIC gain.				
Opus Payload Type	Set Opus load type, range 96~127.				
	Set Opus sampling rate, including opus-nb (8KHz) and opus-wb				
OPUS Sample Rate	(16KHz).				
ILBC Payload Type	Set the ILBC Payload Type, the value must be 96~127.				
ILBC Payload Length	Set the ILBC Payload Length				
	When there is a new voice message, the phone will start a special dial				
Enable Voice Mail Tone	tone.				
Enable VAD	Enable or disable voice activity detection.				
Onhook Time	Configure a minimum response time				
EHS Type	EHS headset is available after enabling.				
Enable Hookflash	Enable or disable hookflash by checking the box.				
RTP Control Protocol(RTCP)	Settings				
CNAME user	Set CNAME user				
CNAME host	Set CNAME host. Local IP address is set as the default				
RTP Settings					
RTP keep alive	Hold the call and send the packet after 30s				
BTD Balay	Forward an RTP stream from a source to either a multicast or multiple				
RTP Relay	unicast destinations				
Alert Info Ring Settings					
Value	Set the value to specify the ring type.				
Line	Set which line to assign the value				
Ring Type Select a ring type value to None, Default, or 1 through 7					

Phone settings >> MCAST

This feature allows user to a broadcast call to people who are in multicast group. User can configure a multicast DSS Key on the phone, which allows user to send a Real Time Transport Protocol (RTP) stream to the pre-configured multicast address without involving SIP signaling. User can also configure the phone to receive an RTP stream from pre-configured multicast listening address without involving SIP signaling. User can specify up to 10 multicast listening addresses.

Parameters	Description
Priority	Define the priority of the active call, 1 is the highest priority, 10 is the lowest.
Enable Page Priority	The voice call in progress shall take precedence over all incoming paging calls.
Name	Listened multicast server name
Enable Prio Chan	Enable priority channel
Enable Emer Chan	Enable emergency channel
Host: port	Listened multicast server's multicast IP address and port.
Channel	Select a channel that m multicast group will join
MCAST Dynamic	Set an expire time

Phone settings >> Action

Action URL Event Settings

Action URL's are used for IPPBX systems to submit phone events.

Phone settings >> Time/Date

The user can configure the time Settings of the phone on this page.

Parameters	Description				
Network Time Server Settings					
Time Synchronized via SNTP	Enable time-sync through SNTP protocol				
Time Synchronized via DHCP	Enable time-sync through DHCP protocol				
Primary Time Server	Set primary time server address				
	Set secondary time server address, when primary server is not				
Secondary Time Server	reachable. The phone will try to connect to secondary time server to				
	get time synchronization.				
Time Zone	Select the time zone				
Resync Period	Time of re-synchronization with time server				
Time/Date Format	Select the time/date display format				
12-Hour Clock	Select check box to set the time display in 12-hour mode				
Daylight Saving Time Settings					
Location	Choose your location. Phone will set daylight saving time				
Location	automatically based on the local				
DST Set Type	Choose DST Set Type. If Manual, user will need to set the daylight				
Bor Set Type	savings start time and end time.				
	Daylight saving time rules are based on specific dates or relative				
Fixed Type	rule dates for conversion. Display in read-only mode in automatic				
	mode.				
Offset	Set the offset minutes when DST starts				
Month start	The DST start month				
Week start	The DST start week				
Weekday start	The DST start weekday				
Hour(s) start	The DST start hour				
Month end	The DST end month				
Week end	The DST end week				
Weekday end	The DST end weekday				
Hour(s) end	The DST end hour				
Manual Time Settings	Set time manually				

Phone settings >> Time plan This page allows user to set a timed reboot, timed upgrade or timed forward for the phone.

Phone settings >> Tone

This page allows users to configure a phone prompt.

User can either select the country area or customize the area. If the area is selected, it will display the following information directly. If Custom is selected, user can modify the button tone, call back tone and other information.

Select Your Tone:	United States	-
Dial Tone:	350+440/0	
Ring Back Tone:	440+480/2000,0/4000	
Busy Tone:	480+620/500,0/500	
Congestion Tone:		
Call waiting Tone:	440/300,0/10000,440/300,0/10000,0/0	
Holding Tone:		
Error Tone:		
Stutter Tone:		
Information Tone:		
Dial Recall Tone:	350+440/100,0/100,350+440/100,0/100,350+440/100,0/100,350+440/0	
Measage Tone:		
Howler Tone:		
Number Unobtainable Tone:	400/500,0/6000	
Warning Tone:	1400/500,0/0	
Record Tone:	440/500,0/5000	
Auto Answer Tone:		

Phone settings >> Advanced

User can configure the advanced configuration settings on this page.

- Screen Configuration.
 - Backlight Active Level
 - o Backlight Inactive Level
 - o Backlight Time
 - o Screensaver
 - Timeout to Screensaver
- Power Saving

Enable or disable power saving mode. Disabled by default.

- LCD Menu Password Settings.
 Set a Menu password. The password is 123 by default.
- UI Preference Customize the colors of the user interface.
- Keyboard Lock Settings. These settings will allow user to lock the phone manually by long pressing the lock key (# key) or to have the phone lock automatically after a set time.
- Greeting Words

The greeting message will display on the top left corner of the LCD screen when the phone is idle, which is limited to 16 characters.

Phonebook >> Contact

User can add, delete, or edit contacts in the phonebook in this page. User can browse the phonebook and sort by name, phone, or filter contacts by group.

To add a new contact, click Add new contact, enter contact information and click "Add".

To edit a contact, click Edit to the right of the contact. Edit the contact information and click OK to save. To delete one or more contacts, check the box in front of the contacts to be deleted and click "Delete".

Add multiple contacts into a group by selecting the group in the dropdown options in front of "Add to Group" at the bottom of the contact list. Note that a group must be added from the phone interface first. Select contacts with checkbox and click "Add to Group" to add selected contacts into the group. Similarly, user can select multiple users and add them into blacklist by clicking "Add to Blacklist".

Phonebook >> Cloud phonebook

Cloud Phonebook

User can configure up to 8 cloud phonebooks. Each cloud phonebook must be configured with an URL where an XML phonebook is stored. The URL may be based on HTTP/HTTPs or FTP protocol with or without authentication. If authentication is required, user must configure the username and password. To configure a cloud phonebook, enter the following information.

- Phonebook name (required)
- Phonebook URL (required)
- Authentication name (optional)
- Authentication password (optional)

LDAP Settings

The cloud phonebook allows user to retrieve contact list from a LDAP Server through LDAP protocols. User must configure the LDAP Server information and Search Base to be able to use it on the phone. If the LDAP server requests an authentication, user should also provide username and password. To configure a LDAP phonebook, the following information should be entered,

- Display Title (required)
- Server Address (required)
- Server Port (required)
- Search Base (required)
- Username (optional)
- Password (optional)

Note! Refer to the LDAP technical documentation before creating the LDAP phonebook and phonebook server.

After setting up the XML Voip directory or LDAPfrom the phone Web page,

- Select [Phone book] >> [Cloud phone book] >> [Cloud phone book] to select the type.
- Click the drop down list to select XML/LDAP and download the contact for browsing.

Cloud	Cloud phonebook							
XML XML1 XML2 XML3 XML4 BACK								
Add to phonebook Add to Blacklist Add to Whitelist Previous Page: Next 								
	Index Nar							
						10 💌 Entries per page		
Manag	e Cloud Phonebooks							
Index	Cloud phonebook name	Cloud phonebook URL	Calling Line	Search Line	Authentication Name	e Authentication Password		
1	1	phonebook/group_007.xml	AUTO 🖵	AUTO .	🖌 admin	••••		
2			AUTO 🖵	AUTO -	-			
3			AUTO 🖵	AUTO	-			
4			AUTO 🖵	AUTO	-			
	Apply							

Phonebook >> Call List

- Restricted Incoming Calls: This is similar to a blacklist. Add the number to the blacklist, and the user will no longer receive calls from the stored number until the user removes it from the list. Users can add specific Numbers to the blacklist or add specific prefixes to the blacklist to block calls with all Numbers with this prefix.
- Allowed Incoming Calls:
 When DND is enabled, the incoming call number can still be called.
- Restricted Outgoing Calls: Adds a number that restricts outgoing calls and cannot be called until the number is removed from the table.

Phonebook >> Web Dial

Use web pages for call, reply, and hang-up operations.

Phonebook >> Advanced

Users can export the local phone book in XML, CSV, and VCF format and save it on the local computer. Users can also import contacts into the phone book in XML, CSV, and VCF formats.

Attention! If the user imports the same phone book repeatedly, the same contact will be ignored. If the name is the same but the number is different, the contact is created again.

Users can delete groups or add new groups on this page. Deleting a contact group does not delete contacts in that group.

Call Logs

The user can browse the complete call record in this page. The call record can be sorted by time, call number, contact name or line, and the call record can be screened by call record type (incoming call, outgoing call, missed call, forward call).

The user can also save the number in the call record to his/her phone book or add it to the blacklist/whitelist.

Users can also dial the web page by clicking on the number in the call log.

Users can also download call records conditionally and save them locally.

Function Key >> Side Key

Side Key is a Key on both sides of the screen that functions as a shortcut Key. Each key can be customized in the phone webpage.

DSSkey Transfer Mode: Make a New Call, Blind Transfer, Attended Transfer, Conference Call, Play DTMF.

The side keys can be set as on the web page as shown below.

Parameters	Description
	BLF (New Call/BXFE /AXFER): It is used to prompt user the state of the subscribe extension, and it can also pick up the subscribed number, which help user monitor the state of subscribe extension (idle, ringing, a call). There are 3 types for one-touch BLF transfer method.
	p.s. User should enter the pick-up number for specific BLF key to fulfill the pick-up operation.
Memory Key	Presence: Compared to BLF, the Presence is also able to view whether the user is online.
	Note: You cannot subscribe the same number for BLF and Presence at the same time
	Speed Dial: You can call the number directly which you set. This feature is convenient for you to dial the number which you frequently dialed.
	Intercom: This feature allows the operator or the secretary to connect the phone quickly;
	it is widely used in office environments.
Line	It can be configured as a Line Key. User is able to make a call by pressing Line Key.
Kasa Essant	User can select a key event as a shortcut to trigger.
Key Event	For example: MWI / DND / Release / Headset / Hold / etc.
DTMF	It allows user to dial or edit dial number easily.
URL	Open the specific URL directly.
Multicast	Configure the multicast address and audio codec. User presses the key to initiate the multicast.
Action URL	The user can use a specific URL to make basic calls to the phone.
XML browser	Users can set the DSS Key for specific URL download and other operations.

Function Key >> Softkey

The User Settings mode and display style, display page.

Parameter	Description				
Softkey Mode	Selections are Disabled and More. Default is Disabled				
Softkey Exit Style	Softkey Exit on Left or Right				
Screen					
	2aB/Delete/Exit/Call Back/Dial/Join/Voice Mail (MWI)/Local				
Call Dialer	Contacts/Pickup/Call Log/Missed/Clear/In/Dialed/Pause/ Next line/Prev				
	line/Headset/Audio/Remote XML/DSS Key				
Conference	Hold/Split/End/Release/Mute/DSS Key/Headset				
	Call Log/Menu/Local Contacts/DND/Prev Account/Next				
Desktop	Account/Blacklist/Call Back/Call Forward/ In/Lock/Memo/				
Deskiop	Missed/Voice Mail (MWI)/Dialed/Reboot/Redial/Remote XML/SMS/				
	Headset/Status/DSS Key				
	2aB/Delete/Exit/Forward/Local Contacts/Call Log				
Divert Dialer	/Clear/Missed/Dialed/Headset/Audio/Remote XML				
	/DSS Key/ In/Send				
Ending					
	Dial/2aB/Delete/Exit/Call Back/Local Contacts/Redial/Clear				
Predictive Dialer	/Pickup/Voice Mail (MWI)/Join/Call Log/Release/Missed/Pause/Dialed/				
	Headset/Audio/Remote XML/DSS Key/In/Next line				
	/Prev line/Save				
Ringing	Answer/Forward/Reject/Mute/Release/Headset/DSS key				
	Hold/Transfer/Conference/End/Mute/Release/New Call/				
Talking	Local Contacts/Listen/Call Log/Next call/Prev call/RTP				
	Private/Headset/DSS Key				
Transfer Alerting	End/Transfer/Headset/Release/DSS Key				
Transfer Dialer	Delete/Exit/2aB/Dial/Local Contacts/Transfer/ In				
	Call Log/Clear/Missed/Dialed/Pause/Headset/Remote XML/DSS Key				
Trying	End/Release/Headset/DSS Key				
Waiting	Hold/Transfer/Conference/End/Answer/Forward/Mute/Next call/New				
wanny	call/Prev call/Reject/Release/Headset/Listen/DSS Key				

Function Key >> Advanced

• Global Key Settings

Select the function of the memory key while on a call. Selections are None, Call Hold, and Hangup. The configured memory key has a call path. If the global configuration is maintained, pressing the memory key again will maintain the call path. If configured to hang up, pressing the memory key again will hang up the call.

Global Key Settings	
Select MemoryKey Action:	None 💌 🥝
	Apply

• Programmable key Settings

The navigation keys can be programmed to perform other functions. The keys can be set to perform a different function from the Desktop, Dialer, while in call, or with a long press. Select a function from the drop down list and click Apply.

Application >> Manage Recording

Manage audio recordings. Refer to **Record** for details of recording.

Security >> Web Filter

The user can set up a configuration management phone that only allows devices with a specific network segment IP access.

Web Filter Table		
Start IP Address	End IP Address	Option
Web Filter Table Settings		
Start IP Address	End IP Address	Add
Web Filter Setting		
Enable Web Filter 🔲	Apply	
Web Filter Table 🍘		
Start IP Address	End IP Address	Option
192.168.1.1	192, 168, 254, 254	Modify
196.199.1.1	106.100.604.604	Delete

Configure the starting IP address within the start IP, end the IP address within the end IP, and click [Add] to take effect. A large network segment can be set, or it can be divided into several network segments to add. If the user wants to delete segment, select the initial IP of the network segment to be deleted and click [Delete] to take effect.

Enable web page filtering: select Enable Web Filter and click the Apply to take effect.

Note: If the device you are accessing is in the same network segment as the phone, do not configure the filter segment of the web page to be outside your own network segment. Otherwise you will not be able to log in the web page.

Security >> Trust Certificates

Enable/Disable permission certificate, common name validation and certificate mode. Upload and delete certificates.

Perm	nission Certif	icate				
			Disabled			
			All Certificates	•		
Impo	ort Certificate	25				
	Load Server	File		Select	Upload	
Certi	ficates List					
1	Common Name Validation Disabled Certificate mode All Certificates Apply					
						Delete

Security >> Device Certificates

Select the device certificates as default or custom certificate. Upload and delete certificates.

Device Certificates 🕜				
Device Certificates	Default Certificates Default Certificates Custom Certificates	 (existence) 		
Import Certificates 💡				
Load Server File		Select Upload		
Certification File 💡				
File Name	Issued To	Issued By	Expiration	File Size
				Delete

Security >> Firewall

Firewall Type							
	Enable Input Ru	es: 🗖			Enable Output	Rules: 🔲	
			Ар	ply			
Firewall Input Rule Tab	le						
Index Deny/Permit	Protocol Src /	Address S	irc Mask	Src Port Range	Dst Address	Dst Mask	Dst Port Range
Firewall Output Rule Ta	ble						
Index Deny/Permit	Protocol Src.	Address S	rc Mask	Src Port Range	Dst Address	Dst Mask	Dst Port Range
Firewall Settings							
Input/Output Input	Src Addr	ess		Dst Add	dress		
Deny/Permit Deny	Src Mas	sk		Dst M	ask		Add
Protocol	Src Port R	ange		Dst Port	Range	-	
Rule Delete Option							
Input/Output		Input 💌	Ind	ex To Be Deleted	d 🗌		Delete

The user can set firewall rules from the phone web GUI. Using these Settings can prevent some malicious network access, or restrict internal user access to some resources of the external network, which can improve security.

This phone firewall supports two types of rules, input rules and output rules. Each rule is assigned an ordinal number, allowing up to 10 for each rule.

Considering the complexity of firewall settings, the following is an example to illustrate:

Parameter	Description
Enable Input Rules	Indicates that the input rule application is enabled.
Enable Output Rules	Indicates that the output rule application is enabled.
Input/Output	To select whether the currently added rule is an input or output rule.
Deny/Permit	To select whether the current rule configuration is disabled or allowed;
Protocol	There are three types of filtering protocols: TCP UDP ICMP.
Src Port Range	Filter port range
	Source address can be host address, network address, or all addresses
Src Address	0.0.0.0; It can also be a network address similar to *.*.*.0, such as:
	192.168.1.0.
	The destination address can be either the specific IP address or the full
Dst Address	address 0.0.0.0; It can also be a network address similar to *.*.*.0, such as:
	192.168.1.0.
	This is the source address mask. When configured as 255.255.255.255, it
Src Mask	means that the host is specific. When set as 255.255.255.0, it means that a
	network segment is filtered.
	This is the destination address mask. When configured as 255.255.255.255, it
Dst Mask	means that the host is specific. When set as 255.255.255.0, it means that a
	network segment is filtered.
Dst Port Range	Filter port range.

After setting, click [Add] and a new item will be added in the firewall input rule, as shown in the figure below:

Fire	wall Inj	put Rule Ta	ble 🕜						
	Index D	eny/Permit	Protocol	Src Address	Src Mask	Src Port Range	Dst Address	Dst Mask	Dst Port Range
	1	deny	udp	192.168.1.0	192.168.1.154	0-9	255.255.255.0	255.255.255.0	0-9

Then click [Apply].

In this way, when the device is running: ping 192.168.1.118, the packet cannot be sent to 192.168.1.118 because the output rule is forbidden. However, the other IP of the ping 192.168.1.0 network segment can still receive the response packet from the destination host normally.

Rule Delete Option 🕜			
Input/Output	Input 🔻	Index To Be Deleted	Delete

Select the list you want to delete and click [Delete] to delete the selected list.

Device Log >> Device Log

When a problem is encountered, user can collect the device log and use the log to diagnose a problem. Refer to **Get Log Information** section.

Trouble Shooting

The user can try the following methods to restore normal operation to the phone or collect relevant information.

Get Phone System Information

Users can view phone information from the phone by pressing the [Menu] >> [Status]. The following information will be provided:

Network information.

Phone information: Model, software and hardware version, etc.

Account: Is the line registered, attempting to register, etc.

Reboot Phone

Reboot the phone from the phone by going to [Menu] >> [Basic] >> [Reboot System]. Confirm the action by pressing [OK]. An alternative method is to unplug phone power, wait 30 seconds then plug it back in.

Reset Phone to Factory Default

Resetting phone to Factory Default will erase all of the user's configuration, preferences, database and profiles and restore the phone back to factory default.

To perform a factory reset, press [Menu] >> [Advanced]. Input the password to enter the Advanced options, then choose [Factory Reset] and press [OK]. The phone will reboot to a clean factory default state.

Screenshot

If there is a problem with the phone, a screenshot may help identify the problem. To obtain screen shots, log into the phone webpage and go to [System] >> [Tools], and click Save BMP to capture an image of the main screen.

Packet Capture		
Start	stop	
Screenshot		
Main Screen:	Save BMP	
Watch Dog		
Enable Watch Dog:	Apply	

Network Packets Capture

Sometimes it is helpful to capture the network packets of the phone for troubleshooting a problem. To capture network packets of the phone, log into the phone web portal, go to [System] >> [Tools] >> [Packet Capture] and click [Start]. A pop-up message will ask user to save the capture file. User will then duplicate the issue then click [Stop] when done. The network packets will be saved to a file for analysis.

Packet Capture	stop	
Screenshot		
Main Screen:	Save BMP	
Watch Dog		
Enable Watch Dog:		
	Apply	

Get Log Information

Log information is helpful when encountering an exception problem. In order to get the log information of the phone, log in the phone web page and go to [Device Log]. Click the [Start], duplicate the issue, click [End], and [Save] the file for analysis of the problem.

Common mour	
Trouble Case	Solution
Phone will not boot up	The phone is powered by an external power supply via power adapter or by a PoE switch. Use the power adapter provided by ESI or a PoE switch that meets power requirements and check that the device is well connected to power source. If "POST MODE" appears on phone screen, the phone system image is damaged.
Phone will not register to a service provider	Check that phone is well connected to the network. The network Ethernet cable should be connected to the I [Network] port, NOT the I [PC] port. If the cable is not well connected to the network, the icon II, [WAN disconnected] will be flashing in the middle of the screen. Check that the device has an IP address. Check system information, if the phone displays "Negotiating", the phone does not have an IP address. Check that the network configurations are correct. If network connection is good, check line configurations again. If all configurations are correct, contact support for assistance.
No Audio or Poor Audio in Handset	Check that handset is connected to handset () port and NOT headset () port. Network bandwidth and delay may not be suitable for audio call at the moment.
Poor Audio or Low Volume in Headset	There are two Headset wiring types on the market. Verify that the headset you are using is compatible. Network bandwidth and delay may be not suitable for audio call at the moment.
Audio is chopping at far-end in Hands- free speaker mode	This is usually due to loud volume feedback from speaker to microphone. Lower the speaker volume until the chopping goes away.

Common Trouble Cases