

# X303-2 Wire

# **User Manual**

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## 3 Safety Instruction

### **3.1 Safety Instruction**

Please read the following safety notices before installing or using this unit. They are crucial for the safe and reliable operation of the device.

- Please use the external power supply that is included in the package. Other power supply may cause damage to the phone and affect the behavior or induce noise.
- Before using the external power supply in the package, please check the home power voltage. Inaccurate power voltage may cause fire and damage.
- Please do not damage the power cord. If power cord or plug is impaired, do not use it because it may cause fire or electric shock.
- Do not drop, knock or shake the phone. Rough handling can break internal circuit boards.
- This phone is designed for indoor use. Do not install the device in places where there is direct sunlight. Also do not put the device on carpets or cushions. It may cause fire or breakdown.
- Avoid exposure the phone to high temperature or below  $0^{\circ}$ C or high humidity.
- Avoid wetting the unit with any liquid.
- Do not attempt to open it. Non-expert handling of the device could damage it. Consult your authorized dealer for help, or else it may cause fire, electric shock and breakdown.
- Do not use harsh chemicals, cleaning solvents, or strong detergents to clean it. Wipe it with a soft cloth that has been slightly dampened in a mild soap and water solution.
- When lightning, do not touch power plug, it may cause an electric shock.
- Do not install this phone in an ill-ventilated place. You are in a situation that could cause bodily injury. Before you work on any equipment, be aware of the hazards involved with electrical circuitry and be familiar with standard practices for preventing accidents.

#### 3.2 FCC

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.

- Increase the separation between the equipment and receiver.

-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

-Consult the dealer or an experienced radio/TV technician for help

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

## 4 Overview

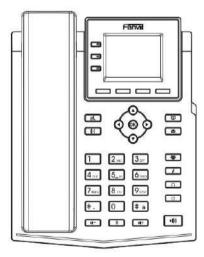
#### 4.1 Overview

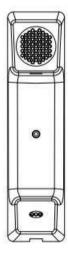
The J303-2/J304-2 phone models upgrade the power and network supply mode based on the original IP phone, utilizing a 2-wire connection. They feature high-definition voice, 2.4-inch and 2.8-inch color main screens, four SIP accounts, support for 2-Wire power and network supply, multi-party conference calls, and other rich functions; as well as the capability to connect to EHS wireless headsets and other expansion functions. They can meet different enterprise application scenarios and provide a high-quality user experience.

For corporate users, the device is a high-cost performance office equipment that offers convenient operation while being environmentally friendly. For home users, the device is a very efficient communication tool. Users can flexibly configure and define the functions of DSS keys, saving space and cost. For enterprise and home users seeking high quality and efficiency, it will be a very ideal choice.

To help interested users better understand the product details, this user manual can serve as a reference guide for using the device. This document may not apply to the latest version of the software. If you have any questions, you can use the help prompt interface that comes with the device phone.

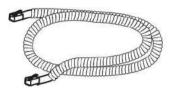
## **4.2 Packing Contents**

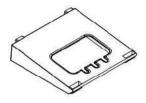




J303-2 Wire IP Phone

Handset



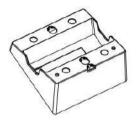




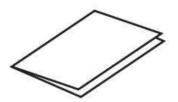
Receiver cable

Stand

2-Wire Cord



Hanging bracke (Need another purchase)



Quick Installation Guide

## **5 Desktop Installation**

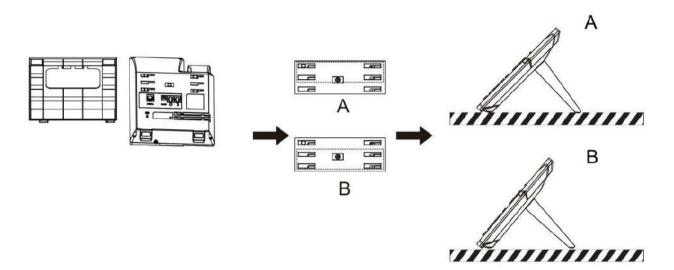
## 5.1 PoE and the use of external power adapters

The device supports two power supply methods: an external power adapter and a 2-Wire POE (Power Over Ethernet) switch power supply mechanism.

The 2-Wire POE power supply method saves space and the cost of additional power outlets. The phone can be powered and data can be transmitted by connecting it with a single 2-Wire to a 2-Wire POE switch.

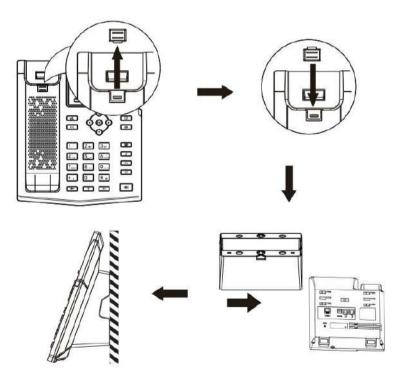
## 5.2 Desktop and wall mounted method

The device supports two installation modes, desktop and wall mounted. If the phone is on the desktop, please follow the instructions in the picture below to install the phone.



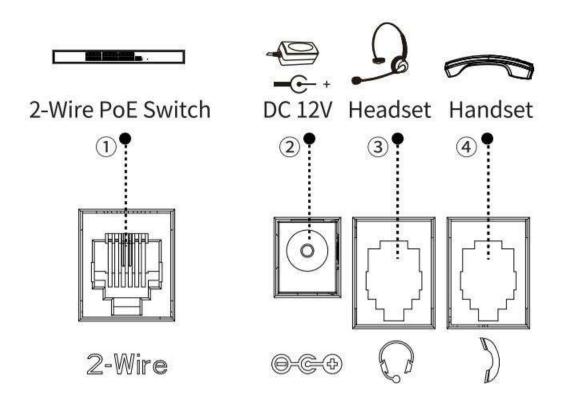
Picture 1 - Device installation

If the phone is mounted on the wall, please follow the instructions below to install it.



Picture 2 - Wall-mounted installation

Connect the power adapter, network, PC, phone and earphone to the appropriate port as shown in the picture below.



Picture 3 - Connecting to the Device

Index	Interface	Description	Note
	1) 2-Wire Port	Connect to a 2-Wire POE switch to provide	1
	2-Wile Polt	power and network to the phone	1
2	Power Port	Connecting Power Adapter	1
3	Headset Port	Connecting Headset	1
4	Handset Port	Connecting Microphone Receiver	1

## 6 Appendix Table

## 6.1 Appendix I - Icon

lcon	Description	
U	Redial	
Ê	Phone Book	
•••••>))	Hands-free (HF) speaker	
Æ	Mute Microphone (During Call)	
<b>it-</b>	Volume down	
i <b>(</b> +	Volume up	
æ	Hold	
0	Headset	
$\geq$	MWI	
봗	Conference	
•(	Transfer	
i	Status key	

#### Table 2 - Keypad Icons

#### Table 3 - Status Prompt and Notification Icons

Screen Icon	Description
>>>>	Call out
((()))	Call in
	Call Hold
₩₹	Network Disconnected
<u>†⊻</u> ]	Open VLAN
	Open VPN
×.	Keypad Locked
(+	Call forward calls

<b>V</b> .	Outgoing calls	
ধ	Incoming calls	
×	Missed calls	
	SMS	
200 <sup>2</sup>	New voice message waiting	
	Do-Not-Disturb inactivated on Phone	
<b>C-</b>	Call forward activated	
A	Auto-answering activated	
<b>(</b> )	Hands-free (HF) Mode	
$\bigcirc$	Headphone (HP) Mode	
	Handset (HS) Mode	
2	Mute Microphone	
0	The Voice quality of calling	
Û	The Voice encryption of calling	
HD	Speech High Definition	
۲	Record	
( <sub>1</sub> 2)	SIP Hotspot	

#### Table 4 - DSSKEY Icon

DSSKEY Icon Side key Icon Description
---------------------------------------

G	ھ	BLF/New call	
Q	ę	BLF/XFER	
<b>O</b>	er	BLF/AXFER	
•	2	BLF/Conference	
	ų.	BLF/DTMF	
Ω	2	Presence	
•	9	Voice Message	
	e.	Speed Dial	
B	Ē	Intercom	
۲	6	Call Park	
G	¢-	Call Forward	
O	Ø	Keyevent	
ø	ø	URI	
	di sumati di sumati di sumati	BLF List	
	<b>1</b>	MCAST Paging	
	Ι	None for Memory Key	
	2	None for DSSKEY	
	2	Line Key	
	1	DTMF	

## 6.2 Appendix II - Keyboard character query table

Mode Icon	Text Mode	Key Button	Characters Of Each Press	
		1	1	
		2	2	
		3	3	
		4	4	
		5	5	
122	Numeric	6	6	
100	Numeric	7	7	
		8	8	
		9	9	
		0	0	
		*	*.+	
		#	#	
		1	@:;()<>[]{}	
	Lower Case Alphabets	2	abc	
		3	def	
		4	g h i	
		5	jkl	
abc		6	m n o	
		7	pqrs	
		8	tuv	
		9	w x y z	
		0	(space)	
		*	.,*/+-:_='?\"	
		#	# ^!&\$%£¥¤~j¿§	
		1	@:;()<>[]{}	
		2	ABC	
ABC		3	DEF	
	Upper Case	4	GHI	
	Alphabets	5	JKL	
		6	ΜΝΟ	
		7	PQRS	
		8	TUV	

#### Table 5 - Look-up Table of Characters

		9	WZYX
		0	(space)
		*	.,*/+-:_='?\"
		#	# ^!&\$%£¥¤~¡¿§
		1	@:;()<>[]{}
		2	ABCabc
		3	DEFdef
		4	GHlghi
		5	JKLjkl
Abc	letter case	6	M N O m n o
ADC		7	PQRSpqrs
		8	TUVtuv
		9	WZYXwzyx
		0	(space)
		*	.,*/+-:_='?\"
		#	# ^!&\$%£¥¤~¡¿§
		1	1
		2	2 a b c A B C
		3	3 d e f D E F
		4	4 g h l G H l
		5	5 j k I J K L
2aB	Mixed type input	6	6 m n o M N O
		7	7
		8	8 t u v T U V
		9	9 w z y x W Z Y X
		0	0
		*	.*:/@[],+='?\" ()<>{}
		#	# ^!&\$%£¥¤~¡¿§

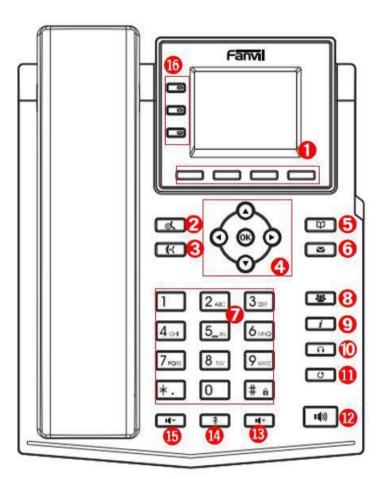
## Appendix III –LED Definition

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.	
	Red On	Subscription number is dialing.	
	Off	Subscription number is unavailable.	
	Green On	Subscription number is idle.	
Presence	Red On	Subscription number is busy.	
Presence	Red On	Subscription number is dialing.	
	Off	Subscription number is unavailable.	
	Red On	Enable DND	
DND	Off	Disable DND	
MWI	Green Blinking	New voice message waiting	
	Off	No new voice message	

#### Table 6 - DSS KEY LED State

## 7 Introduction to the User

## 7.1 Instruction of Keypad



X303-2 Wire

Picture 4 - Keypad layout

Table 7 - Instruction of Keypad

Number	The keypad	Instruction	
names			
	Soft-menu	These four buttons provide different functions corresponding to the	
	Buttons	soft-menu displayed on the screen.	
		Press the "Hold" key during the call, the user can hold the call, and press	
② Hold Key		it again to cancel the holding and restore the normal call state.	
		Press the "Transfer" button, the user can transfer the current call to other	
3	Transfer Key	numbers.	

-			
4	Navigate/OK Keys	The user can press the up/down navigation key to change the line or move the cursor in the screen list. On some Settings and text editing pages, the user can press the left/right navigation key to change options or move the cursor in the screen list to the left/right. OK key: Default is equivalent to soft button confirmation; user can customize the function.	
5	Phonebook key	Press the "Phonebook" button, and the user enters the interface of contact	
6	Voicemail key	Press the "Voicemail" key, the user can enter voicemail interface or listen to the voicemail	
7	Standard Telephone Keys	The 12 standard telephone keys provide the same function as standard telephones, but further to the standard function, some keys also provide special function by long-pressing the key, Key # - Long-pressed to lock the phone.	
8	Conference	Press the "Conference" button, the user can initiate a three-party conference.	
9	Status key	The user can press this key to view the status information of the device	
10	Headset Key	Press the "Headset" button and the user can open the headset channel	
1	Redial	Press the Redial key to redial the last number dialed	
12	Hands-free Key	The user can press this key to open the audio channel of the speakerphone.	
13	Volume Up Key	In the standby state, ring and ring configuration interface, press this button to increase the ring volume; Press this button to increase the volume on the call or volume adjustment screen.	
0	Mute Key	During a call, the user can press this key to mute the microphone.	
0	Volume Down Key	In the standby state, ring and ring configuration interface, press this button to reduce the ring volume; Press this button to lower the volume on the call or volume adjustment screen.	
Ø	Side Key	Long press the side key to enter the settings interface and set the required functions.	

## 7.2 Using Handset / Hands-free Speaker / Headphone

#### Using Handset

To talk over handset, user should lift the handset off the device and dial the number, or dial the number first, then lift the handset and the number will be dialed. User can switch audio channel to handset by lifting the handset when audio channel is turned on in speaker or headphone.

#### Using Hands-free Speaker

To talk over hands-free speaker, user should press the hands-free button then dial the number, or dial the number first then press the hands-free button. User can switch audio channel to the speaker from handset by pressing the hands-free button when audio channel is opened in handset.

#### Using Headphone

To use headphone, by default, user should headset button which is defined by DSS key to turn on the headphone. Same as handset and hands-free speaker, user can dial the number before or after the headphone is turned on.

#### Using Line Keys (Defined by DSS Key)

User can use line key to make or answer a call on specific line. If handset has been lifted, the audio channel will be opened in handset. Otherwise, the audio channel will be opened in hands-free speaker or headphone.

## 7.3 Idle Screen



Picture 5 - Screen layout/default home 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 of the device, information and data that can be edited (such as voice messages, missed calls, auto answer, do not disturb, lock status, network connection status, etc.).

The lower half of the area are the function menu keys, which are also the first layer of 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 part of the area shows default configuration of Side keys, which dynamically display the configuration of SIP information, message, headset, etc., which can be customized by users. The icon description is described in <u>6.1 appendix I.</u>

In some screens, there are many items or long text to be displayed which could not fit into the screen. They will be arranged in a list or multiple lines with a scroll bar. If the user sees a scroll bar, he can use up/down navigator buttons to scroll the list. By long-pressed the navigator keys, user can scroll the list or items in a faster speed.

Ietwork	Phone	Acco	TR069	
1. Vlan Id		None		
2. Mode	DHCP/IPv4			
3. ETHIP	172.16.7.90			
Return			-	

Picture 6 - Scroll icon

## 7.4 Phone Status

The phone status includes the following information about the phone:

- Network Status:
  - VLAN ID

IPv4 or IPv6 status

IP Address

Network Mode

• The Phone Device Information:

Mac Address

Phone Mode

Hardware Version number

Software Version number

Phone Storage (RAM and ROM)

System Running Time

• SIP Account Information:

SIP Account

SIP Account Status (register / uncommitted / trying / 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.

• Phone interface: When the phone is in standby mode, press **[Menu]** >> **[Status]** and select the option to view the corresponding information, as shown in the figure:

<ul> <li>Itwork</li> </ul>	Phone	Acco	TR069 🕨	
1. Vlan Id		None	]	
2. Mode		DHCP/	/IP∨4	
3. ETHIP		172.16.7.94		
Return		-		

Picture 7 - The Phone status

WEB interface: Refer to <u>7.5 Web management</u> to log in the phone page, enter the [System] >>
 [Information] page, and check the phone status, as shown in the figure:

	正任使用版从部码,谓更换 <del>Fox</del> v 建稿 (admin ) v @Mith#								
	65	RIPA:E	306 <b>2</b> 15	升级	00005	解助工具	±ean		
> 系统									
1000 - <b>200</b> 000	系统信息								
) 開始	型号:		IP Phone						
	硬件版本:		V1.0						
> 666	软件版本:		0.0.19						
	Uboot版本:		V1.0						
> 电话设置	运行时间:		00:08:	57					
	内存信息:		ROM: 0.9	/16(M) RAM:	0.4/49(M)				
• 485A	减统时间:		15:46 10月 9日 (日) (SNTP)						
> 通信记录	网络								
	WAN								
> taint	连网方式:		DHCP						
Contraction of the second s	以太网MAC:		00:a8:59	:f4:ad:41					
1 200	IPv4								
・適用	CL太网(Pr		172.16.7	187					
	子网编码:		255.255.	255.0					
÷ <u>\$</u> ±	阅关:		172.16.7	.1					
• 设备日志	语言质量状态								
	开始时间:			停止时间:					
	本地用户:			远误用户:					
	本t图IP:			运阀IP:					
	本地第日:			运转第日:					
				当的	软件版本: 0.0.19				

Picture 8 - WEB phone status

## 7.5 Web Management

Phone can be configured and managed on the web page of the phone. The user needs to enter the IP address of the phone in the browser and open the web page of the phone firstly. The user can check the IP address of the phone by pressing [Menu] >> [Status].

User:		
Password:		
Language:	English 🗸	
	Login	

Picture 9 - Landing page

Users must correctly enter the user name and password to log in to the web page. The default user name and password are "admin". For the specific details of the operation page, please refer to page <u>11 Web</u> <u>configuration</u>.

## 7.6 Network Configurations

The device relies on IP network connection to provide service. Unlike traditional phone system based on a circuit switched wire technology, IP devices are connected to each other over the network and exchange data in packet basis based on the devices' IP address.

To enable this phone, you must first correctly configure the network configuration. To configure the network, users need to find the phone function menu button [**Menu**] >> [**Systems**] >> [**Network**] >> [**Network**]. The default password for Systems is "123".

# Note! If the user sees a "Network Disconnected" icon at the top of the screen, it means that the 2-Wire POE switch is not connected to the network. Please check whether the Ethernet cable has connected the 2-Wire POE switch to the network switch, router, or modem properly.

The device supports three types of networks, IPv4/IPv6/IPv4&IPv6

There are three common IP configuration modes about IPv4

- Dynamic Host Configuration Protocol (DHCP) This is the automatic configuration mode by getting network configurations from a DHCP server. Users don't need to configure any parameters manually. All configuration parameters will be getting from DHCP server and applied to the device. This is recommended for the most users.
- Static IP Configuration This option allows user to configure each IP parameters manually, including IP Address, Subnet Mask, Default Gateway, and DNS servers. This is usually used in a technical environment of network users.
- PPPoE This option is often used by users who connect the device 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 three common IP configuration modes about IPv6

- DHCP This is the automatic configuration mode by getting network configurations from a DHCP server.
   Users need not to configure any parameters manually. All configuration parameters will be getting from DHCP server and applied to the device. This is recommended for most users.
- Static IP configuration this option allows users to manually configure each IP parameter, including IP address, mask, gateway, and primary and secondary domains. This usually applies to some professional network user environments.

Please see <u>10.7.2.1 network Settings</u> for detailed configuration and use.

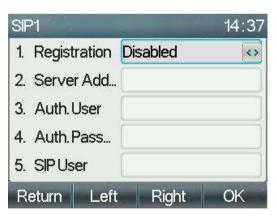
## 7.7 SIP Configurations

A line must be configured properly to be able to provide telephony service. The line configuration is like a virtualized SIM card on a mobile phone which stores the service provider and the account information used for registration and authentication. When the device is applied with the configuration, it will register the device to the service provider with the server's address and user's authentication as stored in the configurations. The user can conduct line configuration on the interface of the phone or the webpage, and input the corresponding information at the registered address, registered user name, registered password and SIP user and registered port respectively, which are provided by the SIP server administrator.

Phone interface: To manually configure a line, the user can press the line key for a long time, or press the button in the function menu [Menu] >> [Systems] >> [Accounts] >> [Line n] configuration, click ok to save the configuration.

## NOTICE! User must enter correct PIN code to be able to Systems to edit line configuration. (The default PIN is 123)

The parameters and screens are listed in below pictures.



#### Picture 10 - Phone line SIP address and account information

• WEB interface: After logging into the phone page, enter [Line] >> [SIP] and select SIP for configuration, click apply to complete registration after configuration, as shown below:

A COMPANY AND A	and the many second			-
Line Status:	Registered	1.111	Activate:	
Username:	5566	0	Authentication User:	
Display name:		0	Authentication Password:	
Realm:		0	Server Name:	
SIP Server 1:			SIP Server 2:	
Server Address:	172.16.1.2	0	Server Address:	
Server Port:	5060	0	Server Port:	5060
Transport Protocol:	UDP 🗸 🕜		Transport Protocol:	UDP 🗸 🕜
Registration Expiration:	3600 second(s)	0	Registration Expiration:	3600 second(s)
Proxy Server Address:		0	Backup Proxy Server Address:	

Picture 11 - Web SIP registration

## 8 Basic Function

## 8.1 Making Phone Calls

#### Default Line

The phone provides 4 SIP line services. If both 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 to be used for making outgoing call which is indicated on the top left corner. To change the default line, user can press left/right navigator buttons to switch between two lines. Enable or disable default line, user can press [Menu] >> [Features] >> [General] >> [Default Line] or configure from Web Interface (Web / PHONE / Features / Basic Settings).



Picture 12 - Default line

#### Dialing Methods

User can dial a number by,

- Entering the number directly
- Selecting a phone number from phonebook contacts (Refer to 10.2.1 Local contacts)
- Selecting a phone number from cloud phonebook contacts (Refer to <u>10.2.3 Cloud Phone Book</u>)
- Selecting a phone number from call logs (Refer to <u>10.3 Call Log</u>)
- Redialing the last dialed number

#### Dialing Number then Opening Audio

To make a phone call, user can firstly dial a number by one of the above methods. When the dialed number is completed, user can press [**Dial**] button on the soft-menu, or press hand-free button 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.



Picture 13 - Enable voice channel dialing

#### Opening Audio then Dialing the Number

Another alternative is the traditional way to firstly open the audio channel by lifting the handset, then turn on the hands-free speaker or headphone by pressing hands-free button, or line key, and then dial the number with one of the above methods. When completing the number dial, user can press [**Dial**] button or [**OK**] button to call out, or the number can also be dialed out automatically after timeout.



Picture 14 - Open the voice channel and dial the number

#### Cancel Call

While calling the number, user can stop the audio channel by putting back the handset or pressing the hands-free button to drop the call.



#### Picture 15 - Call number

## 8.2 Answering Calls

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



Picture 16 - Answering calls

User can answer the call by lifting the handset, open headphone or speaker phone by pressing the hands-free button, or the [Answer] button. To divert the incoming call, user should press [**Divert**] button. To reject the incoming call, user should press [**Reject**] button.

#### 8.2.1 Talking

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



Picture 17 - Talking interface

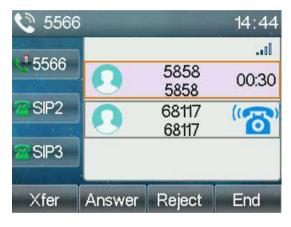
Number	Name	Description			
1	Voice channel	The icon shows the voice channel mode being used.			
2	Default line	The line currently used by the phone.			
3	The number of the far	The number of the person on the other and of the call			
3	end	The number of the person on the other end of the call.			
4	The name of the far	The name of the norman on the other and of the call			
	end	The name of the person on the other end of the call.			
5	Call duration	The duration of a call after it has been established.			

#### 8.2.2 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 lines or make a second call on either lines.

#### Second Incoming Call

When there is another incoming call during talking 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 as same as normal incoming call. When the waiting call is answered, the first call will be held on automatically.



Picture 18 - The second call interface

#### Second Outgoing Call

To make a second call, user may press [Xfer] / [Conf] button 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). When the user is making a second call with the above methods, the first call could be held on manually or will be held on automatically at second dial.

#### Switching between Two Calls

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



#### Picture 19 - Two way calling

User can press up/down navigator buttons to switch screen page, and switch call focus by pressing [**Resume**] button.

#### Ending One Call

User may hang up the current talking call by closing the audio channel or press [**End**] button. The device will return to single call mode in holding state.

### 8.3 End of the Call

After the user finishes the call, the user can put the handle back on the phone, press the hands-free button or Softkey [**End**] key to close the voice channel and end the call.

Note!When the phone is reserved, the user must press the [resume] resume key to return to the call state to ending the call

### 8.4 Redial

- Redial the last outgoing number:
   When the phone is in standby mode, press the redial button and the phone will call out the last outgoing number.
- Call out any number with the redial key:

Enter the number, press the redial key, and the phone will call out the number on the dial.

• Press the redial key to enter the call record:

Log in the phone page, enter [**Phone Settings**] >> [**Features**] >> [**Redial Settings**], check **Redial** to enter the call record page, press the redial button when standby to enter the call record page, and press again to call out the current located number.

	Features Media Settings	MCAST	Action	Time/Date	Time Plan	Tone	Advanced
> System							
> Network	Basic Settings >>						
P INCLUMENT.	Tone Settings >>						
> Line	DND Settings >>						
Phone settings	Intercom Settings >>						
	Redial Settings >>						
> Phonebook	Enable Call Completion:			e Auto Redial:	0		
> Call logs	Auto Redial Interval: Redial Enter CallLog:	30 (1~180)	second(s) Auto F	Redial Times:	5 (1	~100)	
	Response Code Settings >>						
Function Key	Password Dial Settings >>						
Application	Power LED >>						
	DssKey Setting >>						
> Security	Notification Popups >>						
> Device Log			Apply	]			

Picture 20 - Redial set

# 8.5 Dial-up Query

The phone is defaulted to turn on the dial-up inquiry function, dial-out, enter two or more numbers. The dial interface will automatically match the call records, contacts in the number list. Use the navigation key and up and down keys to select the number, press the call out key or wait for time out.

## 8.6 Auto-Answering

User may turn on the auto-answering mode on the device and any incoming call will be automatically answered (not including call waiting). The auto-answering can be enabled on line basis.

The user can start the automatic answer function in the telephone interface or the webpage interface.

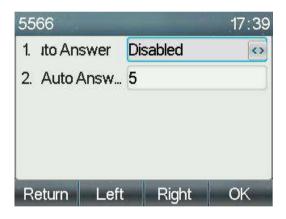
• Phone interface:

Press [Menu] >> [Features] >> [Auto Answer] button;

Press the button to select the line, use the left/right navigation key to turn on/off the auto answer option, and set the auto answer time to 5 seconds by default.

After completion, press [OK] key to save;

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



Picture 21 - Line 1 enables auto-answering



Picture 22 - The line has enabled auto-answering

#### • WEB interface:

Log in the phone page, enter [Line] >> [SIP], select [SIP] >> [Basic settings], start auto-answering, and click apply after setting the automatic answering time.

ister Settings >>				
ic Settings >>				
Enable Auto Answering:		Auto Answering Delay:	5	(0~120)second
Call Forward Unconditional:	0	Call Forward Number for Unconditional:		0
Call Forward on Busy:		Call Forward Number for Busy:		0
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:		0

Picture 23 - Web page to start auto-answering

# 8.7 Callback

The user can dial back the number of the last call. If there is no call history, press the [**Callback**] button and the phone will say "can't process".

• Set the callback key through the phone interface:

Under standby, press [Menu] >> [Basic Settings] >> [Keyboard Settings] >> [Function key] or [ Keyboard Settings ] >> [ Soft function key] choose to set up the function keys, key type, type selection function name select callback function, input the callback key name, press [ OK ] key to save.

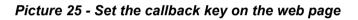


Picture 24 - Set the callback key on the phone

• Set the callback key through the web interface:

Log in the phone page, enter the [Function Key] >> [Side Key] or [Function Key] >> [Function Key] page, select the function Key, set the type as the function Key, and set the subtype as the callback, as shown in the figure:

System											
Network	Side	e Dsskey Se	ttings								
		Dsskey Tra	nsfer Mode	Make a	New C 🛩	Dsskey Home	Page	e: None 🗸			
Line		Dsskey Lon	g Press:	Short F	Press/Lc 🗸						
						Apply					
Phone settings	DE24C										
	Key			Name	Value	Subtyp		Line		PickUp Number	Icon Color
Phonebook	F 1					Call Back		AUTO	×		Default Green 🗸
Card and a second s	F 2	Line	~			None		151@SIP2	~		Default Green 🗸
		I Taken	~			None	V	SIP3	~		Default Green 🗸
	F 3	Line									
	F 3	I Line				Apply	Ť.				
Call logs	F.3					Apply					
Call logs	F 3	Line				Apply					
Call logs	F 3					Apply					



# 8.8 Mute

You can turn on mute mode during a call and turn off the microphone so that the local voice is not heard. Normally, mute mode is automatically turned off at the end of a call. You can also turn on mute on any screen (such as the free screen) and mute the ringtone automatically when there is an incoming call.

Mute mode can be turned on in all call modes (handles, headphones or hands-free).

### 8.8.1 Mute the Call

• During the conversation, press the mute button on the phone: the mute button on the phone will turn on the red light.

Red mute icon is displayed in the call interface, as shown in the figure:



Picture 26 - Mute the call

• Cancel mute: press 🖗 cancel mute on the phone again. The mute icon is no longer displayed in the call screen. The red light is off by mute button.

### 8.8.2 Ringing Mute

• Mute: press the mute button when the phone is in standby mode:  $\Psi$ 

The top right corner of the phone shows the bell mute icon  $\mathbb{M}$ , Mute button red light is always on, when there is an incoming call, the phone will display the incoming call interface but will not ring.



Picture 27 - Ringing mute

Cancel ring tone mute: On the standby or incoming call screen, press the mute button again  $\frac{2}{3}$  or volume up 4 cancel ring tone mute, no longer shows mute icon in upper right corner after cancel. The phone mute icon is off .

## 8.9 Call Hold/Resume

The user can press the [Hold] button to maintain the current call, and this button will become the [Resume] button, and the user can press the "resume" button to restore the call.



Picture 28 - Call hold interface

# 8.10 DND

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

Enable/Disable phone all lines DND, the methods as the following:

- Phone interface: Default standby mode,
  - 1) Press [DND] button to enter the DND setting interface, select line or phone to enable DND.
  - 2) Press [**DND**] button to enter the DND setting interface and disable DND.

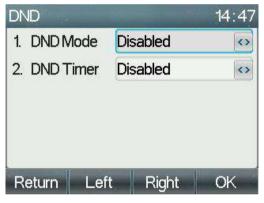


Picture 29 - Enable DND

If the user wants to enable/disable the uninterrupted function on a specific line, the user can set the uninterrupted function on the page of configuring the line.

- 1) Press [Menu] >> [Features] >> [DND] button, Enter the [DND] to edit the interface.
- 2) Click the left/right navigation button to select the line to adjust the mode and state of "do not disturb", and then press the [**OK**] button to save.

The user will see the DND icon turn red, and the sip-line has enabled the mode of "DND".



Picture 30 - DND setting interface

The user can also use the DND timer. After the setting, the DND function will automatically turn on and the DND icon will turn red when ringing.

DND	14:	48
1. DND Mode	Phone	<>
2. DND Timer	Enabled	<>
3. DND Start T	15 : 00	
4. DND End Ti	17 : 30	
Return Left	Right OK	3

Picture 31 - DND timer

• WEB interface: Enter [Phone setting] >> [Features] >> [DND settings], set the DND type (off, phone, line), and DND timing function.

	Features Media Sett	ngs MCAST	Action	Time/Date	Time Plan	Tone
) System						
> Network	Basic Settings >> Tone Settings >>					
> Line	DND Settings >>					
> Phone settings	DND Option: Enable DND Timer:					
> Phonebook	DND Start Time: DND End Time:	15     ✓     0       17     ✓     30	~			
> Call logs	Intercom Settings >> Redial Settings >>					
Function Key	Response Code Settings >>					
Application	Password Dial Settings >>					
> Security	Power LED >> DssKey Setting >>					

Picture 32 - DND Settings

The user turns on the DND for a specific route on the web page: Enter [Line] >> [SIP], select a [Line] >> [Basic settings], and enable DND.

Subscribe For Voice Message:		Voice Message Number:	1	0
Voice Message Subscribe Period:	3600 (60~999999)second(s)	Enable Hotline:		
Hotline Delay:	0 (0~9)second(s) 🕜	Hotline Number:	1	0
Dial Without Registered:		Enable Missed Call Log:		
DTMF Type:	AUTO 🗸 🥝	DTMF SIP INFO Mode:	Send 10/11 🗸 🥝	
Request With Port:	0	Enable DND:		
Use STUN:		Use VPN:	0 0	
Enable Failback:	0	Signal Failback:		
Failback Interval:	1800 second(s) 🥝	Signal Retry Counts:	3 (1~10)	

Picture 33 - Line DND

# 8.11 Call Forward

Call forward is also known as 'Call Divert' which is to divert the incoming call to a specific number based on the conditions and configurations. User can configure the call forward settings of each line. There are three types,

- **Unconditional Call Forward –** Forward any incoming call to the configured number.
- Call Forward on Busy When user is busy, the incoming call will be forwarded to the configured

number.

- Call Forward on No Answer When user does not answer the incoming call after the configured delay time, the incoming call will be forwarded to the configured number.
- Phone interface: Default standby mode
  - Press [Menu] >> [Features] >> [Call Forward] button, select the line by up/down navigation key, press [OK] button to set call forward.

Features		14:49
1. Call Forward		
2. Auto Answer		
3. Call Waiting		
4. DND		
5. Intercom		
Return Up	Down	ОК

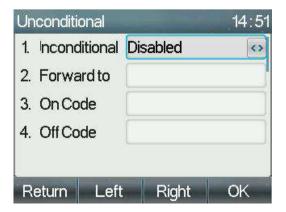
Picture 34 - Select the line to set up call forwarding

2) Select the call forward type by pressing the up/down navigation button. Click [**OK**] to configure call forwarding and delay time.

5566	-	14:50
1. Unconditional		
2. Busy Forward		
3. No Answer		
Return Up	Down	OK

Picture 35 - Select call forward type

3) Select enable/disable by pressing the left/right navigation button.



#### Picture 36 - Enable call forwarding and configure the call forwarding number

- 4) Browse the parameters set by the up/down navigation key and enter the required information. When finished, press the [**OK**] button to save the changes.
- WEB interface: Enter [Line] >> [SIP], Select a [Line] >> [Basic settings], and set the type, number and time of forward forwarding.

	SIP SIP Hots	spot Dial Plan	Action Plan Basic Settings	RTCP-XR
System				
Network	Line 6660@SIP1 V			
> Line	Register Settings >> Basic Settings >>			
	Enable Auto Answering:	D	Auto Answering Delay:	5 (0~120)second(s)
Phone settings	Call Forward Unconditional:		Call Forward Number for Unconditional:	
Phonebook	Call Forward on Busy:		Call Forward Number for Busy:	
	Call Forward on No Answer:	0	Call Forward Number for No Answer:	
Call logs	Call Forward Delay for N Answer:	0 5 (0~120)second	d(s) Transfer Timeout:	0 second(s)
	Conference Type:	Local 🗸	Server Conference Number:	1

#### Picture 37 - Set call forward

## 8.12 Call Transfer

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

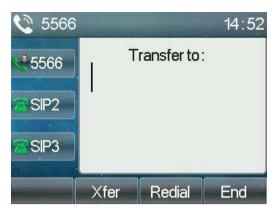
- Blind transfer: No need to negotiate with the other side, directly transfer the call to the other side.
- Semi-Attended transfer: When you hear the ring back, transfer the call to the other party.
- Attended transfer: When the caller answers the call, transfer the call to the other party.

Note! For more transfer Settings, please refer to 12.6 Line >> Dial Plan

### 8.12.1 Blind transfer

During the call, the user presses the function menu button [**Transfer**] or the transfer button on the phone Enter the number to transfer or press the contact button or the history button to select the number, press the

transfer key again or blind transfer is successful and hang up.



Picture 38 - Transfer interface

## 8.12.2 Semi-Attended transfer

During the call, the user presses the function menu button [transfer] or the transfer button is on the phone to input the number to be transferred or press the contact button or the historical record button to select the number, and then press the call button. When the third party is not answered, press the transfer on the call interface to make the semi-attendance transfer or press the end button to cancel the semi-attendance transfer.



Picture 39 - Semi-Attended transfer

### 8.12.3 Attended transfer

Attendance 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.

The same procedure to calling. In dual call mode, press the "transfer" button to transfer the first call to the second call.

5566 🔇			14:53
1 FEOD			al
5566		68117	m
		68117	<u> </u>
CSIP2	0	5858	00:04
		5858	
CSIP3			
Hold	Xfer	Conf	End

Picture 40 - Attended transfer

## 8.13 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 be prompted.
- Enable call waiting tone: when you receive a new call on the line, the tone will beep.
- The user can enable/disable the call waiting function in the phone interface and the web interface.
- Phone interface: Press [Menu] >> [Features] >> [Call waiting], the navigation key and left/right button enable/disable call waiting and call waiting tone. Press [Menu] >> [Features] >> [Call waiting], the navigation key and left/right button enable/disable call waiting and call waiting tone.

Features	14:54
1. Call Forward	
2. Auto Answer	
3. Call Waiting	
4. DND	
5. Intercom	
Return Up Dow	/n OK

Picture 41 - Call waiting setting

WEB interface: Enter [Phone Settings] >> [Features] >> [Basic Settings], enable/disable call waiting and call waiting tone.

Enable Call Waiting:	<b>2</b> 🕜	Enable Call Transfer:	<b>2 0</b>
Semi-Attended Transfer:		Enable 3-way Conference:	
Enable Auto on Hook:	20	Auto HangUp Delay:	3 (0~30)second(s)
Ring From Headset:	Disabled 🗸 🥝	Enable Auto Headset:	
Enable Silent Mode:		Disable Mute for Ring:	

Picture 42 - Web call waiting setting

one Settings >>		
	Enable Call Waiting Tone:	0
Enable Holding Tone: 🛛 🗹 🕜	Enable Call Walting Tone:	

#### Picture 43 - Web call waiting tone setting

# 8.14 Conference

### 8.14.1 Local Conference

To conduct local conference, the user needs to log in the webpage and enter [Line] >> [SIP] >> [Basic settings]. The meeting mode is set as local (the default is local mode), as shown in the figure:

	SIP SIP Hots	spot Dial Plan	Action Plan	Basic Settings	RTCP-XR	
› System						
> Network	Line 8660@SIP1 v					
> Line	Register Settings >> Basic Settings >>					
> Phone settings	Enable Auto Answering:		Auto A	Answering Delay:	5 (0-	120)second(s)
7 Phone setungs	Call Forward Unconditional:			orward Number for iditional:		
> Phonebook	Call Forward on Busy:		Call Fo Busy:	orward Number for		
	Call Forward on No Answer:	0		orward Number for		
→ Call logs	Call Forward Delay for N Answer:	° 5 (0~120)			0 sec	ond(s)
> Function Key	Conference Type:	Local V	Serve Numb	r Conference er:		

Picture 44 - Local conference setting

Two ways to create a local conference:

1) The device has two channels of communication. Press the conference button on the call interface. When selecting the conference number, select the other number that already exists to establish the local tripartite meeting. When the equipment is in a tripartite meeting, you can call all the way, answer the meeting, and join the 4-Way conference. Similarly, they can join 5-Way conference and 6-Way

conference.



Picture 45 - Local conference (1)

2) If the device has a call all the way, press the conference key in the call interface, enter the number to join the meeting and press the call; After the opposite end is answered, press the conference button again to set up the local tripartite conference. In the same way, joining the five-party meeting and the six-party meeting can be joined:



Picture 46 - Local conference (2)

Note: During the conference, press the split button to split the conference and press the end button to end the call.

### 8.14.2 Network Conference

Users need server support for network conference.

Log in the web page, enter [Line] >> [SIP] >> [Basic settings], set the conference mode as server mode (default is local mode), set the server conference room number (please consult your system administrator),

#### as shown in the figure:

egister Settings >>						
asic Settings >>						
Enable Auto Answering:			Auto Answering Delay:	5	(0~120)se	cond(s)
Call Forward Unconditional:			Call Forward Number for Unconditional:	[		0
Call Forward on Busy:			Call Forward Number for Busy:			0
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)	0
Conference Type:	Server 🗸 🔮	3	Server Conference Number:	1234		0

Picture 47 - Network conference

Method to join a network conference:

- Multi-party call number of network conference room and enter the password then all enter the conference room.
- The two phones have established common calls. Press the conference button 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.

### 8.15 Call Park

Call park requires server support. Consult your system administrator for support.

When you are on the call, if it is not convenient to answer the phone at this time, you can press the configured park button to hold the call; After a successful park, you can resume the call by pressing the configured park button on other devices.

Set the call park button:

- Phone interface: long press a function key to enter the function key Settings interface, or through the
  [Menu] >> [Basic Settings] >> [Keyboard Settings] enter the settings interface of function keys, and
  set the key function type as memory and subtypes as call park, reside values for the server calls park
  number, set up corresponding SIP lines.
- WEB interface: log in the phone page, enter the [Function Key] >> [Side Key] page, select a DSSkey, set the function key type as memory key, the subtype as call park, and the value as the call park number of the server, and set the corresponding SIP line.



Picture 48 - Phone set call park

F 2     Line     V     None     V     161@SIP2     V     Default Green       F 3     Line     V     None     V     SIP3     V     Default Green		S	ide Key	Softkey	Advanced				
Line       Dsskey Transfer Mode       Make a New C ×       Dsskey Home Page: None ×         > Line       Dsskey Long Press:       Short Press/L ×       Apply         > Phone settings       Key       Type       Name       Value       Subtype       Line       PickUp Number       Icon Color         Phonebook       F 1       Memory Key ×       5599       Call Park ×       AUTO ×       Default Green         F 2       Line       None       161@SIP2 ×       Default Green         F 3       Line       None       SIP3 ×       Default Green	› System								
<ul> <li>&gt; Line</li> <li>&gt; Phone settings</li> <li>&gt; Phonebook</li> <li>Key Type Name Value Subtype Line PickUp Number Icon Color</li> <li>&gt; Phonebook</li> <li>F 1 Memory Key × 5599 Call Park × AUTO × Default Green</li> <li>F 2 Line × Default Green</li> <li>F 3 Line × Default Green</li> </ul>	Network	Side	Dsskey Set	tings					
<ul> <li>&gt; Phone settings</li> <li>&gt; Phone book</li> <li>Key Type Name Value Subtype Line PickUp Number Icon Color</li> <li>F 1 Memory Key V</li> <li>5599 Call Park V AUTO V</li> <li>Default Green</li> <li>F 2 Line V</li> <li>None V 151@SIP2 V</li> <li>Default Green</li> <li>F 3 Line V</li> </ul>	+ Line						None 🗸		
Phonebook     F1     Memory Key     5599     Call Park     AUTO     Default Green       F2     Line     None     151@SIP2     Default Green       F3     Line     None     SIP3     Default Green						Apply			
F 2     Line     None     151@SIP2     Default Green       F 3     Line     None     SIP3     Default Green	> Phone settings	44					1.470/F		
F3 Line V None V SIP3 V Default Green					100000		sectors.	Concerning and the second second	Icon Color Default Green V
		F1	Memory Key	y 🗸	100000	Call Park 🗸	AUTO	~	
		F 1 F 2	Memory Key	× •	100000	Call Park V	AUTO 151@SIP2	×	Default Green 🗸

Picture 49 - WEB set call park

# 8.16 Pick Up

Pick up requires server support. Consult your system administrator for support.

You 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 Settings] >> [Keyboard Settings] >> [DSS Key Settings], select the function key to set.

- Set the line, function key type as memory key, subtype as BLF/NEW CALL, set subscription number, and pick up code.
- Other phones call the subscription number, and the opposite end is in the incoming ring.
- Press the DSS key to pick up the phone.
- The caller picks up the call and speaks to it.

WEB interface: Log in the phone webpage, enter the [**Function Key**] >> [**Side Key**] page, select a DSSkey, set the memory key type as memory key, the subtype as BLF/NEW CALL, and set the corresponding SIP line and pick up codes.



Picture 50 - Phone pick up setting

	Si	de Key	Softk	ey )	Advanced					
> System										
> Network	Side	Dsskey Set		-						
› Line		Dsskey Tran Dsskey Long			a New C ❤ Press/Lc ❤	Dsskey Home Pag	a: None ∨			
> Phone settings	Key	Туре		Name	Value	Subtype	Line		PickUp Number	Icon Color
> Phonebook	F1	Memory Ke		Hunne -	5599	BLF/NEW CAL		~	*87	Default Green V
Phonebook	F 2	Line	~				151@SIP2	~		Default Green 🗸
› Call logs	F 3	Line	~			None 🗸	SIP3	~		Default Green 🗸
<ul> <li>Function Key</li> <li>Application</li> </ul>						Apply				

Picture 51 - WEB pick up setting

# 8.17 Anonymous Call

### 8.17.1 Anonymous Call

The phone can set up anonymous calls to hide the calling number and the calling name.

- You can see anonymity in the context of [Menu] >> [Systems] >> [Accounts] >> [Advanced].
- The default is none, which is off, and RFC3323 and RFC3325 are optional.
- Select any one to open the anonymous call.



Picture 52 - Enable anonymous call

- On the web page [Line] >> [SIP] >> [Systems] can also open the mode of anonymous calls.
- Setting to enable anonymous calls also corresponds to the SIP line. That is, the setting under the SIP1 page can only take effect on the SIP1 line.

SIP Encryption:			RTP Encryption(SRTP):	Disabled 💌 🥝	
Enable Session Timer:			Session Timeout:	0 seco	nd(s)
Enable BLF List:			BLF List Number:		
Response Single Codec:	0		BLF Server:		
Keep Alive Type:	UDP 💌 🕜		Keep Alive Interval:	30 seco	nd(s)
Keep Authentication:			Blocking Anonymous Call:		
Reep Addrendcadon.			blocking Anonymous can.		
		0	Specific Server Type:		
User Agent:	RFC3261 💌 😵	0		COMMON  COMMON	
User Agent: SIP Version:		0	Specific Server Type:	COMMON 💌 📀	
User Agent: SIP Version: Local Port:	RFC3261 💌 😵		Specific Server Type: Anonymous Call Standard:	COMMON 👻 🥝 RFC3323 👻 🎯	
User Agent: SIP Version: Local Port: Enable user=phone: Auto TCP:	RFC3261 💌 🥝		Specific Server Type: Anonymous Call Standard: Ring Type:	COMMON V 0 RFC3323 V 0 Default V 0	

Picture 53 - Enable Anonymous web page call

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

	In	Out	Miss 🕨
🔇 nony	mous nor	nymous '	1 Sep 15:19
10159	101	59 (	01 Sep 15
1245	124	5 (	01 Sep 15
🈢 1278	127	8 (	01 Sep 15
🤇 5858	585	58 (	01 Sep 15
Return	Option	Delete	Dial

Picture 54 - Anonymous call log

### 8.17.2 Ban Anonymous Call

The device can be set to prohibit anonymous calls, that is anonymous calls to the number will be directly

rejected.

- In the phone [Menu] >> [Features] >> [Ban anonymous call], click to enter and all SIP lines will be displayed.
- Click Softkey [Switch] or [<] [>] to switch the SIP line and enable anonymous call.



Picture 55 - Anonymous calls are not allowed on the phone

- On the web page [Line] >> [SIP] >> [Systems], also can disable anonymous calls.
- The setup to disable anonymous calls also corresponds to the SIP line. That is, the setting under the SIP1 page can only take effect on the SIP1 line.

SIP Encryption:		0	RTP Encryption(SRTP):	Disabled	💌 🕜
Enable Session Timer:	<b>[</b> ]]	0	Session Timeout:	0	second(s) 🦸
Enable BLF List:		0	BLF List Number:		
Response Single Codec:		0	BLF Server:		
Keep Alive Type:	UD	> 💽 🕜	Keep Alive Interval:	30	second(s) 🦸
Keep Authentication:		0	Blocking Anonymous Call:		

### Picture 56 - Page Settings blocking anonymous call

## 8.18 Hotline

The device supports hotline dialing. After setting up the hotline dialing, directly pick up the handset, hands-free, earphone, etc., and the phone will automatically call according to the hotline delay time.

- In the phone [Menu] >> [Features] >> [Advanced] >> [Hotline], click to enter and all SIP lines will be displayed.
- Then set the hotline for each SIP line, which is off by default.
- Open the hotline, set the hotline number, set the delay time of the hotline.

15:21
$\langle \rangle$
]
ОК

Picture 57 - Phone hotline setting interface

- On the website [Line] >> [SIP] >> [Basic Settings], can also set up a hotline.
- The setup hotline also corresponds to the SIP line. That is, the hotline set in the SIP1 webpage can only be activated in the SIP1 line.

Subscribe For Voice Message:			Voice Message Number:			0
Voice Message Subscribe Period:	3600 (60~999999)se	econd(s)	Enable Hotline:			
Hotline Delay:	0	(0~9)second(s) 🥝	Hotline Number:			0
Dial Without Registered:			Enable Missed Call Log:	<b>2 0</b>		
DTMF Type:	AUTO	✓ Ø	DTMF SIP INFO Mode:	Send 10/11	v 🕜	
Request With Port:	<b>Ø</b>		Enable DND:			
Use STUN:			Use VPN:	20		
Enable Failback:	<b>2 0</b>		Signal Failback:			
Failback Interval:	1800	second(s) 🕜	Signal Retry Counts:	3	(1~10)	

Picture 58 - Hotline set up on webpage

# 8.19 Emergency Call

The emergency call function is used to et the corresponding emergency call number on the phone after enabling the keypad lock. You can also call emergency services when your phone is locked.

 Configure the emergency call number: log in the phone page, enter the [Phone Settings] >> [Function Settings]>> [Basic Settings]page, set up the emergency call code, if you need to set up more than one emergency call code, please use ", "to separate.

Allow IP Call:	<b>Ø</b>	P2P IP Prefix:	
Caller Name Priority:	LocalContact-NetContact-SIP DisplayName	Emergency Call Number:	110
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:	20
Line Display Format:	xxx@SIPn 🗸 🥝	Contact As White List Type:	NONE 🗸
Block XML When Call:	Enable 🗸 🥝	SIP Notify:	Enable 🗸 🕜
Call Number Filter:		Auto Resume Current:	
Call Timeout:	120 (1~3600)second(s) 📀	Ring Timeout:	120 (1~3600)second(s) 2
Enable Push XML Auth:		Display BLF PickUp Popup:	
Play BLF PickUp Tone:		Ring Type For BLF PickUp:	1.wav 🗸 🥝
Ring Priority:	Priority 🗸 🥝		

Picture 59 - Set up an emergency call number

2) When the phone set the keyboard lock, you can call the emergency call number without unlocking, as shown in the figure:



Picture 60 - Dial the emergency number

# 9 Advance Function

# 9.1 BLF (Busy Lamp Field)

### 9.1.1 Configure the BLF Functionality

Page interface: log in the phone page, enter the [Function key] >> [side key] page, select a DSS key, set the function key type as memory key, choose subtype among BLF/NEW CALL, BLF/BXFER, BLF/AXFER, BLF/CONF, set BLF/DTMF value as the number to be subscribed, set the corresponding SIP line. The pickup number is provided by the server. The specific usage refers to 8.16 Pick up.

› System										
> Network	Side	Dsskey Set		Malas	a New C 🗸	Dsskey Home Pa	Tat News			
› Line		Dsskey Iran			Press/Lc 🗸	Apply	Je: None	~		
› Phone settings	Key	Туре		Name	Value	Subtype	Lii	e	PickUp Number	Icon Color
Phonebook	F 1	Memory Key	~		5599	BLF/NEW CAL			*87	Default Green
- Lenging and the	F 2	Line	~			None	- 151@SI			Default Green
	F 3	Line	~			None	siP3	~		Default Green
› Call logs										

Picture 61 - Web page configuration BLF function key

Phone interface: long press a function key to enter the function key Settings interface, or go to the
[Menu] >> [Basic Settings] >> [Keyboard Settings] to enter [Soft function key] to set the settings
interface, set the key function types as memory keys and a subtype of BLF/NEW CALL, BLF/BXFER,
BLF/AXFER, BLF/CONF, BLF/DTMF. The values is the subscription number, and set up corresponding
SIP lines.



Picture 62 - Phone configuration BLF function key Table 9 - BLF Function key subtype parameter list

Subtype	Standby is described	Calling is described
BLF/NEW	Pressing the BLF key while standby to	When you press this BLF key while talking to
CALL	dial the subscriber number.	another user, you create a new call along with the
		subscribed number.
BLF/BXFE	Pressing the BLF key while standby to	When you press this BLF key while talking to
R	dial the subscriber number.	another user, you blind transfer the call to the
IX		subscribed number.
BLF/AXFE	Pressing the BLF key while standby to	When you press this BLF key while talking to
R	dial the subscriber number.	another user, you attendance transfer the call to
		the subscribed number.
BLF/Confer	Pressing the BLF key while standby to	When you press this BLF key while talking to
	dial the subscriber number.	another user, you invite the subscriber number to
ence		join the meeting.
	Processing the PLE key while standby to	When the BLF key is pressed while talking to
BLF/DTMF	Pressing the BLF key while standby to dial the subscriber number.	another user, the phone automatically sends the
		DTMF corresponding to the BLF key number.

## 9.1.2 Use the BLF Function

The BLF, also known as a "busy light 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 the other person's status (idle, ringing, talking, off). BLF function:

- Monitor the status of subscribed phones.
- Call the subscribed number.
- Transfer calls/calls to the subscribed number.
- Pickup incoming calls from subscribed number.
- 1) Monitors the status of subscribed phones.

Configuration BLF function keys, when the subscription of the number of the state (idle, ringing, talking) is changed, the LED lights of function key will have corresponding change, see <u>appendix III 6.3 LED</u> to get to know each other under different status leds.

2) Call the subscribed number.

When the phone is in standby mode, press the configured BLF key to call out the subscribed number.

3) Transfer calls to the subscribed number.

Refer to <u>Table 9.1.1-blf function key</u> subtype parameter list, the BLF key can be used for blind rotation, attention-rotation and semi-attention-rotation of the current call, and also can invite the subscribed number to join the call and send DTMF, etc.

4) Pickup incoming calls from subscribed phones.

When configuring BLF function key, configure the pickup number.

When the subscription number telephone rings, refer to appendix III 6.3, BLF LED will turn red at this time. At

this point, press the BLF button to answer the incoming call from the subscribed number.

## 9.2 BLF List

BLF List Key is to put the number to be subscribed into a group on the server side, and the phone uses the URL of this group to make unified subscription. The specific information, number, name and status of each number can be resolved based on notify sent from the server. The unoccupied 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 be changed.

Configure BLF List function: log in the phone page, enter the [Line] >> [SIP] >> [Systems] page, open the BLF List, and configure the BLF List number.

	SIP SIP Hots	spot Dial Plan	Action Plan	Basic Settings	RTCP-XR	
> System	Advanced Settings >>					
	Use Feature Code:					
> Network	Enable DND:		Transfer and the second	)isabled:	-	
	Enable Call Forward Unconditional:			e Call Forward ditional:		
> Line	Enable Call Forward on		Disabl	e Call Forward on Busy		
	Busy; Enable Call Forward on			e Call Forward on No	-	
> Phone settings	No Answer:		Answe			
	Enable Blocking Anonymous Call:		Disable Call:	e Blocking Anonymous		
Phonebook	Call Waiting On Code:		Call W	aiting Off Code:		
Phonebook	Send Anonymous On Code:		Send 4	Anonymous Off Code:		
An experience of the second	00000					
> Call logs						
> Call logs	Enable Session Timer:	0	Sessio	n Timeout:	1800	seco
	Enable Session Timer: Enable BLF List:			n Timeout: st Number:	1800	sec
<ul> <li>Call logs</li> <li>Function Key</li> </ul>				st Number:	1900	sec
> Function Key	Enable BLF List:		BLF Li BLF Se	st Number:	1800	43070
	Enable BLF List: Response Single Codec:		BLF Lis BLF Se Keep /	st Number: erver:		43070
<ul> <li>Function Key</li> <li>Application</li> </ul>	Enable BLF List: Response Single Codec: Keep Alive Type:		BLF Li BLF Se Keep A Blockin	st Number: erver: Mive Interval:		40000
> Function Key	Enable BLF List: Response Single Codec: Keep Alive Type: Keep Authentication:		BLF Li BLF Se Keep A Blockin	st Number: erver: Mive Interval: ng Anonymous Call:		4
Function Key     Application	Enable BLF List: Response Single Codec: Keep Alive Type: Keep Authentication: RTP Encryption(SRTP): Proxy Require:		BLF Li: BLF Se Blockii Enable	st Number: erver: Nive Interval: ng Anonymous Call: e OSRTP:	15	4000
<ul> <li>Function Key</li> <li>Application</li> <li>Security</li> </ul>	Enable BLF List: Response Single Codec: Keep Alive Type: Keep Authentication: RTP Encryption(SRTP): Proxy Require: User Agent:	UDP V Disabled V	BLF Li: BLF Se Blockii Enable Specifi	st Number: arver: Mive Interval: ng Anonymous Call: e OSRTP: ic Server Type:	15	+
<ul> <li>Function Key</li> <li>Application</li> <li>Security</li> </ul>	Enable BLF List: Response Single Codec: Keep Alive Type: Keep Authentication: RTP Encryption(SRTP): Proxy Require:		BLF Li: BLF Se Blockii Enable Specifi	st Number: erver: Mive Interval: ng Anonymous Call: e OSRTP: ic Server Type: mous Call Standard:	15	seco

#### Picture 63 - Configure the BLF List functionality

Use 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.

	Si	ide Key	S	oftkey	Advanced						
> System											
> Network		Dsskey Set									
> Line		Dsskey Tran Dsskey Long			ress/Lc ♥	Dsskey Home	Page	t None ♥			
> Phone settings	Key	Туре		Name	Value	Subtyp		Line		PickUp Number	Icon Color
	F 1	Memory Ke	~	Nditte	5599				~	*87	Default Green V
> Phonebook	F 2	BLF List Ke				None		AUTO	v		Default Green 🗸
> Call logs	F 3	Line	~			None		SIP3	~		Default Green 🗸
Function Key						Apply					
Application											
> Security											

Picture 64 - BLF List number display

# 9.3 Record

The device supports recording during a call.

### 9.3.1 Server Record

When using the network server to record, it is necessary to open the recording in the phone web page [**Application**] >> [**Manage recording**]. The type is selected as network, and the address and port of the recording server are filled in and the voice coding is selected. The web is as follows:

Enable Record:			
Record Type:	Network 🗸		
Voice Codec:	G729 🗸		
Server Address:	0.0.0.0	Server Port:	10000

Picture 65 - Web server recording

### 9.3.2 SIP INFO Record

The phone is registered with a server that supports SIP INFO recording. After registering the account, check the recording module of [**Application**] >> [**Manage recording**] to open the recording, and the recording type is SIP INFO.

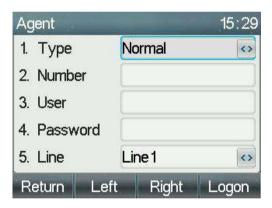
Enable Record:		
Record Type:	Sip Info	~

Picture 66 - Web SIP info recording

# 9.4 Agent

Agent (Agent function) of the phone can be realized: when multiple people use a device for Agent services at different times, he or she can quickly register his or her 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:

Configure agent function: set a DSSkey as agent, press the function key or enter the [Menu] >> [Features] >> [Agent] to enter the agent page. The SIP server needs to be configured before the account can be configured.



Picture 67 - Configure the agent account in normal mode

Agent		15:29
1. Type 2. Number	Hotel Guest	\$
3. Password		
4. Line	Line1	<>
5. CallLog	Save All	$\langle \rangle$
Return Le	ft Right I	_ogon

Picture 68 - Configure the proxy account-hotel Guest mode

Table 10 - Agency mode

Parameter	Description
Normal mode	
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 types, or delete.
Hotel Guest mod	le
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 types, or delete.

Using agent functions:

- 1) When he phone has been configured on SIP server, fill in the correct number and user name password, click login and then the phone can be registered to the SIP server;
- 2) After registration, click logout and the phone can delete the user name and password, and log out of the SIP account.
- 3) Click Unregister and the phone retains the user name and password, and logs out of the SIP account.



Picture 69 - Agent logon page

# 9.5 Intercom

When the Intercom is enabled, it can automatically receive calls from the intercom.

Basic Settings >>		
Tone Settings >>		
DND Settings >>		
Intercom Settings >>		
Enable Intercom:	Enable Intercom Mute:	
Enable Intercom Tone:	Enable Intercom Barge:	

#### Picture 70 - Web Intercom configure

### Table 11 - Intercom configure

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	
Enable Intercom	Enable Intercom Barge by selecting it, the phone auto answers the intercom call
Barge	during a call. If the current call is intercom call, the phone will reject the second
Daige	intercom call

## 9.6 MCAST

This feature allows user to make some kind of 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. You can also configure the phone to receive an RTP stream from pre-configured multicast listening address without involving SIP signaling. You can specify up to 10 multicast listening addresses.

	Features Media Se	ttings MCAST	Action	Time/Date	Time Plan	Tone	Advanc
System							
Vetwork	MCAST Settings MCAST Send DTMF Mod	le:	In-band 🗸				
ine	MCAST Listening		Apply				
Phone settings	Sip Priority:	1 v	Mcast Time:	Listening Renew	0		
honebook	Enable Page Priority; Enable Prio Chan: Enable Emer Chan:						
all logs	Index/Priority	Name		Host:port		Channel	
	1					• ~	
unction Key	2					0 ~	-
	3					0 <b>~</b>	
pplication	5					0 ~	
	6					0 ~	
ecurity	7					0 ~	
	8					0 ~	
evice Log	9					0 ~	
	10					0 ~	

Picture 71 - Multicast Settings Page

#### Table 12 - MCAST Parameters on Web

Parameters	Description
Normal Call 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.

#### Multicast:

- Go to web page of [Function Key] >> [Function Key], select the type to multicast, set the multicast address, and select the codec.
- Click Apply.
- Set up the name, host and port of the receiving multicast on the web page of [Phone Settings] >>
  [MCAST].
- Press the DSSKY of Multicast Key which you set.
- Receive end will receive multicast call and play multicast automatically.

# 9.7 SCA (Shared Call Appearance)

Users need the support of server end to use SCA function. You can refer to

- 1) Configure on Phone
- When registering with the BroadSoft server, a Phone can register the account created previously on multiple terminals.

egister Settings >> (	Created SCA accounts Registered	The user name and primary account c Activate:	and the second
Usemame:	123	Authentication User:	123
Display name:	123	Authentication Password:	•••
Realm:		Server Name:	
Server Address: Server Port:	<b>17216112</b> 5060	Server Address: Server Port:	5060
			5060
Server Port: Transport Protocol:	5060 UDP	Server Port: Transport Protocol:	UDP 💌
Server Port:	5060	Server Port:	UDP 💌
Server Port: Transport Protocol:	5060 UDP	Server Port: Transport Protocol:	UDP 💌
Server Port: Transport Protocol: Registration Expiration:	5060 UDP	Server Port: Transport Protocol: Registration Expiration:	UDP 💌
Server Port: Transport Protocol: Registration Expiration: Proxy Server Address:	5060 UDP 💌 3600 second(s)	Server Port: Transport Protocol: Registration Expiration: Backup Proxy Server Address:	UDP 💌

Picture 72 - Register BroadSoft account

After the phone set registers with the BroadSoft server, a server type needs to be set. Specifically, log in to the webpage of the phone set, choose [Line] >> [SIP] >> [Systems] 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:	
Response Single Codec:		BLF Server:	
Keep Alive Type:	UDP 💌 🕜	Keep Alive Interval:	30 second(s)
Keep Authentication:		Blocking Anonymous Call:	
User Agent:	<b>Ø</b>	Specific Server Type:	BroadSoft 💌 🕜
SIP Version:	RFC3261 💌 🔮	Anonymous Call Standard:	None 💌 🥝
Local Port:	5060	Ring Type:	Default 🖃 🕜
Enable user=phone:		Use Tel Call:	
Auto TCP:		Enable PRACK:	

Picture 73 - Set BroadSoft server

 If a phone needs to enable the SCA function. Specifically, log in to the webpage of the phone set, choose [Line] >> [SIP] >> [Systems], 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-F	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 🥝		

#### Picture 74 - Enable SCA

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 <u>6.3 Appendix III –LED</u>. 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.

Dsskey	Transfer Mode Long Press: y Lable Length	5	a New C ♥ Press/Lc ♥ ult ♥	Apply	Page: None 🗸			
Key	Type		Name	Value	Subtype	Line		PickUp Number
A Second Se Second Second Seco		<u>~</u> [	Name	Value	-	Line AUTO	~	PickUp Number
Key L	Key Event	• [ • [	Name	Value		AUTO	~ ~	PickUp Number

Picture 75 - Set Private Hold Function Key

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

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

the LEDs of lines 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	

#### Table 13 - LED Status of SCA

#### 3) Shared Call Appearance(SCA)

The following lists a couple of instances to facilitate understanding.

In the following scenarios, the manager and secretary register the same SCA account and the account is configured based on the preceding steps.

Scenario 1: When this account receives an incoming call, the phone sets 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 set stops ringing but the secretary's phone set 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 SCA to answer the call. Scenario 3: The manager is in an important call with a customer and needs to leave for a while. 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 make records. The secretary can press the corresponding SCA line key to barge in this call.

## 9.8 Message

### 9.8.1 **SMS**

If the service of the line supports the function of the short message, when the other end sends a text message to the number, the user will receive the notification of the short message and display the icon of the new SMS on the standby screen interface.



Picture 76 - SMS icon

Send messages:

- Go to [Menu] >> [Message] >> [SMS].
- Users can create new messages, select lines and send numbers.
- After editing is completed, click Send.

View SMS:

- Use the navigation keys to select the standby icon [message]
- After selecting, press the navigation key [**OK**] to enter the SMS inbox interface.
- Select the unread message and press [OK] to read the unread message.

Reply to SMS:

- Use the navigation keys to select the standby icon [Message].
- After selecting, press the navigation key [**OK**] to enter the SMS inbox interface.
- Select the message you want to reply to, select Softkey's [**Reply**], edit it, and click Send.

### 9.8.2 MWI (Message Waiting Indicator)

If the service of the lines 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.



Picture 77 - New Voice Message Notification

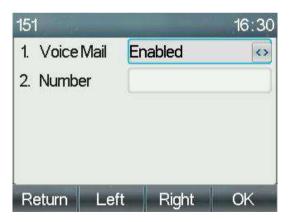
To listen to a voice message, the user must first configure the voicemail number. After the voicemail number is configured, the user can retrieve the voicemail of the default line.

When the phone is in the default standby state,

- The Side Key is pre-installed with a voice message shortcut key [MWI] key.
- Press [**MWI**] to open the voice message configuration interface, and select the line to be configured by pressing the up/down navigation buttons.
- Press the [Edit] button to edit the voice message number. When finished, press the [OK] button to save the configuration.
- In the following picture, "2" in front of line brackets represents unread voice messages, and "2" represents the total number of voice messages.

Voice Message	16:29
1. 151 (2/2)	
2. SIP2 (0/0)	
3. SIP3 (0/0)	
4. SIP4 (0/0)	
Return Edit	Play

Picture 78 - Voice message interface



Picture 79 - Configure voicemail number

# 9.9 SIP Hotspot

SIP hotspot is a simple but practical function. With simple configurations, the SIP hotspot function can implement group ringing. SIP accounts can be expanded.

The users can set functions as a SIP hotspot and other phones set (B and C) function as SIP hotspot clients. When somebody calls phone set A, phone sets A, B, and C all ring at the same time. When any phone set answers the call, other phone sets stop ringing. The call can be answered by only one phone set. When B or C initiates a call, the SIP number registered by phone set A is the calling number. To set a SIP hotspot, register at least one SIP account.

ster Settings >>					
Line Status:	Registered		Activate:		
Username:	258	0	Authentication User:		
Display name:	258	0	Authentication Password:		]
Realm:		0	Server Name:		٦
Server Port: Transport Protocol:	5060 UDP 🗨 🕜	0	Server Port: Transport Protocol:	5060 UDP 👻 🥝	
and the second	And a second sec	~			
Registration Expiration:	3600 second(s)	U	Registration Expiration:	3600 second(s	;)
		0	Backup Proxy Server Address:	0	
Proxy Server Address:					
	5060	0	Backup Proxy Server Port	5060	_
Proxy Server Address: Proxy Server Port: Proxy User:	5060	0	Backup Proxy Server Port:	5060	

Picture 80 - Register SIP account

### Table 14 - SIP hotspot Parameters

Parameters	Description
	If your phone is set to "SIP hotspot server", Device Table will display as Client
Device Table	Device Table which connected to your phone.
	If your phone is set to "SIP hotspot client", Device Table will display as Server
	Device Table which you can connect to.
SIP hotspot	·
Enable hotspot	Set it to be Enable to enable the feature.
Mode	Choose hotspot, phone will be a "SIP hotspot server"; Choose Client, phone will be
Wode	a "SIP hotspot Client"
	Either the Multicast or Broadcast is ok. If you want to limit the broadcast packets,
Monitor Type	you'd better use broadcast. But, if client choose broadcast, the SIP hotspot phone
	must be broadcast.
Monitor Address	The address of broadcast, hotspot server and hotspot client must be same.
Remote Port	Type the Remote port number.

Configure SIP hotspot server:

IP	MAC	Alias	Line
172.16.7.224	00:01:05:06:07:a2	1	1
SIP Hotspot Settings			
Enable Hotspot:	Enabled 💌		0
Mode:	Hotspot 👻		0
Monitor Type:	Broadcast 💌		0
Monitor Address:	224.0.2.0		0
Local Port:	16360		0
Name:	SIP Hotspot		0
Line Settings			
Line 1:	Enabled 💌		
Line 2:	Enabled 💌		

Picture 81 - SIP hotspot server configuration

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 tab page, set Mode to Client. The values of other options are the same as those of the hotspot.

IP	Server name	Online Status	5 Connection Status	Alias	Line	
172.16.7.224	SIP Hotspot	OnLine	Connected	1	0	Disconne
SIP Hotspot Settings						
Enable Hotspot:	[	nabled 💌				0
Mode:	[	ilient				0
Monitor Type:	[	roadcast 💌				0
Monitor Address:	2	24.0.2.0				0
Local Port:	1	6360				0
Name:	2	IP Hotspot				0
Line Settings						Y
Line 1:	[	nabled 💌				
Line 2:	5	nabled 💌				

Picture 82 - SIP hotspot client configuration

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, you can view the extension number through the [**SIP Hotspot**] page. Call extension number:

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

# **10 Phone Settings**

# 10.1 Basic Settings

### 10.1.1 Language

The user can set the phone language through the phone interface and web interface.

Phone end: After resetting the factory settings, the user needs to set the language; when setting the language during standby, go to [Menu] >> [Basic] >> [Language] Settings, as shown in the figure.



Picture 83 - Phone language setting

• Web interface: Log in to the phone webpage and set the language in the drop-down box at the top right corner of the page, as shown in the figure:

			Default pas	sword is in	use. Please chang	C English 🛩	
	Information Account	Configurations Upgrade	Auto Provision	Tools	Reboot Phone	Englein 中文 繁禧中文 Pyccixix	Keep Online
				10013		Italiano Deutsch	-
System						Français עברית Español	
> Network	Syslog Enable Syslog:					Català Euskera Galego	
) Line	Server Address: Server Port:	0.0.0.0 514				Turkçe Slovenian česká Nederlands	
> Phone settings	APP Log Level: Export Log:					한국어 Shpaincaka Portugués	
1 Phonebook	LAN Packet Capture	Apply					
> Call logs	Start	stop					
> Function Key	Screenshot Main Screen:	Seve BMP					
Application	Watch Dog						
> Security	Enable Watch Dog:	Apply					
> Device Log	Diagnostics Command Option: IP Address: Diagnostics Result:	PING V	Start	stop	*		
							-

#### Picture 84 - Language setting on Web page

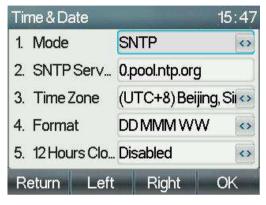
• The function box on the right side of the web interface language setting box is "Synchronize language to phone"; if selected, the phone language will be synchronized with the webpage language. If it is not

selected, it will not be synchronized.

#### 10.1.2 **Time & Date**

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

Phone end: When the phone is in the default standby state, press the [Menu] >> [Basic] >> [Time & Date], use the up/down navigation button to edit parameters, press the [OK] to save after completion, as shown in the figure:



Picture 85 - Set time & date on phone

Web end: Log in to the phone webpage and enter [Phone Settings] >> [Time/Date], as shown in the figure:

Time Synchronized via SNTP	
Time Synchronized via DHCP	
Time Synchronized via DHCPv6	
Primary Time Server	0.pool.ntp.org
Secondary Time Server	time.nist.gov
Time zone	(UTC+8) Beijing,Singapore,Perth,Irkuts V
Resync Period	9600 second(s)
12-hour clock Time/Date Format	DD MMM WW
ylight Saving Time Settings	
lynght odving Thile octungs	
Location	None 🗸

#### Picture 86 - Set time & date on webpage

#### Table 15 - Time Settings Parameters

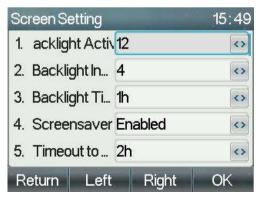
Parameters	Description
Mode	Auto/Manual

	Auto: Enable network time synchronization via SNTP protocol, default enabled.
	Manual: User can modify data manually.
SNTP Server	SNTP server address
Time zone	Select the time zone
	Select time format from one of the followings:
	■ 1 JAN, MON
	■ 1 January, Monday
	JAN 1, MON
	■ January 1, Monday
	■ MON, 1 JAN
	Monday, 1 January
Time format	MON, JAN 1
	Monday, January 1
	DD-MM-YY
	DD-MM-YYYY
	MM-DD-YY
	MM-DD-YYYY
	■ YY-MM-DD
	■ YYYY-MM-DD
Separator	Choose the separator between year and moth and day
12-Hour Clock	Display the clock in 12-hour format
Daylight Saving Time	Enable or Disable the Daylight Saving Time

### 10.1.3 Screen

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

• Phone: 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:



Picture 87 - Set screen parameters on phone

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

#### 10.1.3.1 Brightness and backlight

- Set the brightness level in use from 1 to 16, [<] or [>] switch brightness level.
- Set the brightness level in the energy-saving mode from 0 to 16, [<] or [>] switch the brightness level.

Set the backlight time, the default is 1 minute, you can turn off or choose constant light, custom, 15s, 30s, 45s, 1min, 5min, 10min, 30min, 1h, 2h, 3h, 6h, 15h. The screen saver can be turned on or off by default.

#### 10.1.3.2 Screen Saver

- Press [Screen Settings] to find the [Screen protection] button, press [left] / [right] button to open/close the screen protection, set the timeout time, the default is 2h, after completion, press [OK] button to save.
- Web interface: enter [Phone Settings] >> [Advanced], edit screen parameters, and click submit to save.

Backlight Active Level:	12 (1~16)	•
Backlight Inactive Level:	4 (0~16)	0
Backlight Time:	1min 🗸	
Customer Backlight Time:	60 (1~54000)second(s)	
Screensaver	Enabled V	0
Timeout to Screensaver:	2h 🗸	0
Customer Time Value:	7200 (15~21600)second(s)	

Picture 88 - Page screen Settings

• After saving, return to standby mode and enter the screen saver after 2h, as follows:



Picture 89 - Phone screen saver

### 10.1.4 Ring

When the device is in the default standby mode,

- Press soft-button [Menu] till you find the [Basic] item.
- Enter [Basic] item till you find [Ring] item.

- Enter [**Ring**] item and you will find [**Headset**] or [**Handsfree**] item, press left / right navigator keys to adjust the ring volume, save the adjustment by pressing [**OK**] when done.
- Enter [**Ring type**] item, press left / right navigator keys to change the ring type, save the adjustment by pressing [**OK**] when done.

### 10.1.5 Voice Volume

When the device is in the default standby mode,

- Press soft-button [Menu] till you find the [Basic] item.
- Enter [Basic] item till you find [Voice Volume] item.
- Enter [Voice Volume] item and you will find [Headset], [Handsfree] and [Headset] item.
- Enter [Headset] or [Handsfree] or [Headset] item, press Left / Right navigator keys to adjust the audio volume for different mode.
- Save the adjustment by pressing [OK] when done.

### 10.1.6 **Greeting Words**

When the device is in the default standby mode,

- Press soft-button [Menu] till you find the [Basic] item.
- Enter [Basic] item till you find [Greeting Words] item.
- Press [OK] to enter the setting interface to edit the Greetings Words.
- Save the adjustment by pressing [OK] when done.

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

#### 10.1.7 **Reboot**

When the device is in the default standby mode,

- Press soft-button [Menu] till you find the [Basic] item.
- Enter [Basic] item till you find [Reboot] item.
- Press [OK] a prompt message, "restart now," prompts the user.
- Press [OK] to restart the phone or [Cancel].
   The phone is in standby mode,
- The configurable [OK] key is the restart key. Press [OK], a prompt message, "restart now" prompts the user.
- Press [OK] to restart the phone or [Cancel] to exit.

# 10.2 Phone Book

### 10.2.1 Local Contact

User can save contacts' information in the phone book and dial the contact's phone number(s) from the phone book. To open the phone book, user should press soft-menu button [**Contact**] in the default standby screen or keypad.

By default the phone book is empty, user may add contact(s) into the phone book manually or from call logs.

Contact		15:52		
1. Local Contacts				
2. Blocked List (1)	)			
3. Allowed List (0	))			
4. Cloud Contact	s			
5. LDAP				
Return Up	Down	OK		

Picture 90 - Phone book screen

Note!Phone user account can store contact information, different models and specifications.

<ul> <li>acts</li> </ul>			×
Jam		2525	
Return	Option	Add	Dial

Picture 91 - Local Phone book

When there are contact records in the phone book, the contact records will be arranged in the alphabet order. User may browse the contacts with up/down navigator keys. The record indicator tells user which contact is currently focused. User may check the contact's information by pressing [**OK**] button.

#### 10.2.1.1 Add / Edit / Delete Contact

To add a new contact, user should press [Add] button to open Add Contact screen and enter the contact information of the followings,

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

Add Conta	acts	-	15:53
1. Name 2. Office	Num		
3. Mobile	2		j
4. Other	Num		
5. Line	А	uto	<
Return	Abc	Delete	OK

Picture 92 - Add New Contact

User can edit a contact by pressing [Option] >> [Edit] button.

To delete a contact, user should move the record indicator to the position of the contact to be deleted, press [**Option**] >> [**Delete**] button and confirm with [**OK**].

### 10.2.1.2 Add / Edit / Delete Group

By default, the group list is blank. User can create his/her own groups, edit the group name, add or remove contacts in the group, and delete a group.

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



Picture 93 - Group List

#### 10.2.1.3 Browse and Add / Remove Contacts in Group

User can browse contacts in a group by opening the group in group list with [OK] button.

All Con.	Group1	1.1.1.1.1.1.1.1	
<u> </u> lucy		2536	
Return	Option	Add	Dial
Return	Option	Add	Dial

Picture 94 - Browsing Contacts in a Group

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

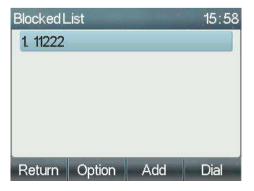
Add Contacts			15:56
1. Name			
2. Office Num			
3. Mobile			
4. Other Num			
5. Line	A	uto	<
Return abo		Delete	OK

Picture 95 - Add Contacts in a Group

### 10.2.2 Blacklist

The device Support blacklist, such as the number added to the blacklist, the number of calls directly refused to the end, the end of the phone shows no incoming calls. (Blacklisted Numbers can be called out normally)

- There are multiple ways to add a number to Blacklist on X210 device. It can be added directly on [Menu] >> [Contact] >> [BlockedList].
- Select any number in the phone book (both local and network) for configuration addition.
- Select any number in the call log for configuration addition.



Picture 96 - Add BlockedList

- There are various ways to add number to the blacklist on web page, which can be added in the [Phone book] >> [Call list] >> [Restricted Incoming Calls].
- Select any number in the phone book (both local and network) for configuration addition.
- Select any number in the call log for configuration addition.

Rest	tricted Incoming Calls				
			Add	Delete	Delete All
		Caller Number		Į	Line
		11222			ALL

Picture 97 - Web BlockedList

# 10.2.3 Cloud Phone Book

### 10.2.3.1 Configure Cloud Phone book

Cloud phonebook allows user to configure the device by downloading a phonebook from a cloud server. This is convenient for office users to use the phonebook from a single source and save the effort to create and maintain the contact list individually. It is also a useful tool to synchronize his/her phonebook from a personal mobile phone to the device with Cloud Phonebook Service and App which is to be provided publicly soon. *NOTICE! The cloud phonebook is ONLY temporarily downloaded to the device each time when it is opened on the device to ensure the user get the latest phonebook. However, the downloading may take a couple seconds depending on the network condition. Therefore, it is highly recommended for the users to save important contacts from cloud to local phonebook for saving download time. Open cloud phonebook list, press [Menu] >> [PhoneBook] >> [Cloud Contacts] in phonebook screen. TIPS! The first configuration on cloud phone should be completed on Web page by selecting [PhoneBook] >> [Cloud Contacts]. The setting of addition/deletion on device could be done after the first setting on Web page.* 

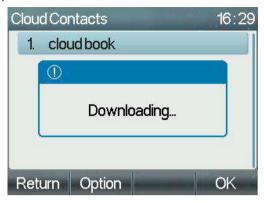


Picture 98 - Cloud phone book list

#### 10.2.3.2 Downloading Cloud Phone book

In cloud phone book screen, user can open a cloud phone book by pressing [**OK**] / [**Enter**] button. The device 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 same as in local phonebook.



Picture 99 - Downloading Cloud Phone book

Cloud	d Coi	ntacts		16:01
1.	1.2		4211	
2.	1.3		8211	
3.	1.4		4211	
4.	100		4212	
5.	101		4214	
Retu	ırn	Search	Option	Dial

Picture 100 - Browsing Contacts in Cloud Phone book

# 10.3 Call Log

The phone can store the call record (the quantity of storage varies according to different specifications). The user can press [**CallLog**] to open the call record and check the records of all incoming calls, outgoing calls and missed calls.

In the call logs interface, user may browse the call logs with up/down navigator keys.

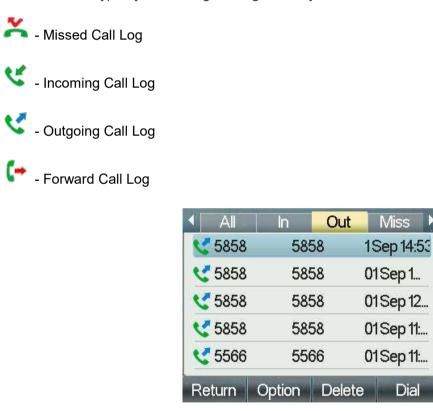
Each call log record is presented with 'call type' and 'call party number / name'. User can check further call log detail by pressing [**OK**] button and dial the number with [**Dial**] button, or add the call log number to phonebook with pressing [**Option**] >> [**Add to Contact**].

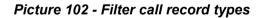
User can delete a call log by pressing [Delete] button and clear all call logs by pressing [Delete All] button.

< A	JI	In	Out	Miss	
268117		681	117	Sep 15:42	
<b>C</b> 68117		681	117	01 Sep 15	
88117		681	117	01 Sep 15	
Ҳ anonymo		io and	onym	01 Sep 15	
88117		681	117	01 Sep 15	
Retur	n C	ption	Delete	e Dia	al

Picture 101 - Call Log

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





Miss

Dial

#### **Function Key** 10.4

[+

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

Dsskey	16:08
1. Side Dsskey	1-1 📀
2. Type	Key Event 💀
3. Key	Private Hold 💿
4. Name	[ ]
5. Dss Theme	Green
Return Left	Right OK

### Picture 103 - DSS LCD key Page Configuration Screen

The DSS Key could be configured as followings,

- Memory Key
  - Speed Dial/Intercom/BLF/Presence/Call Park/Call Forward (to someone)
- Line
- Key Event
  - MWI/DND/Hold/Transfer/Phonebook/Redial/Pickup/Call Forward (to specified line)/Headset/ SMS/Release
- DTMF
- Action URL
- BLF List Key
- Multicast
- Action URL
- XML Browser

#### Webpage interface: [Function key] >> [Side key].

Dsskey	Transfer Mode Long Press: / Lable Length	Short F	Press/Lc ♥ t ♥	Dsskey Home P					
			Marian	Value	Subtype		Line		PickUp Number
Key	Туре		Name	value	Subtype		Line	e	FICKOP Number
1.1.25	Type Key Event	•	Name	Value	Private Hold	~	AUTO	~	нскор матрет
Key 1 2	100		Name		1				Pickop Number

Picture 104 - DSS settings

Moreover, user also can add the user-defined title for the DSS Keys, which is configured as Memory Key / Line / URL / Multicast / Prefix.

More detailed information refers to 12.23 Function Key and 6.3 Appendix III -LED Definition .

# 10.5 Headset

### 10.5.1 Wired Headset

- The device supports wired earphone with RJ9 interface, which can play incoming call sound and talk with earphone.
- After the phone is connected to the headset, the default DSS key of headset will be green light which indicating that the headset can be used normally.
- On the webpage [**Phone settings**] >> [**Features**], you can set the headset answering function, and the ring tone for headset.



Picture 105 - Headset function settings

### 10.5.2 EHS Headset

Phone into [Menu] >> [Features] >> [Advanced], Select [EHS], can open EHS Headset (default closed EHS Headset).

EHS			16:11
1. EHS	Er	abled	<>
Detum	1 - 64	Dielet	OK
Return	Left	Right	OK

Picture 106 - EHS Headset setting

# 10.6 Advanced

# 10.6.1 Line Configurations



Picture 107 - SIP address and account information

Save the adjustment by pressing [**OK**] when done.

Users who want to configure more options should use web management portal to modify or Systems in accounts on the individual line to configure those options.

5566			16:12
1. Basic			
2. Advan	ced		
Return	Up	Down	OK

Picture 108 - Configure Advanced Line Options

### 10.6.2 Network Settings

#### 10.6.2.1 Network Settings

#### IP Mode

There are 3 network protocol mode options, IPv4, IPv6 and IPv4 & IPv6.

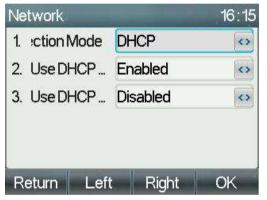
User could select available mode via "<" or ">". The selected IP mode will be activated after pressing [OK] button.

WANPort	-		16:15
1. IP Mode	Э		
2. IPv4			
3. IP∨6			
Return	Up	Down	OK

Picture 109 - Network mode Settings

#### ■ IPv4

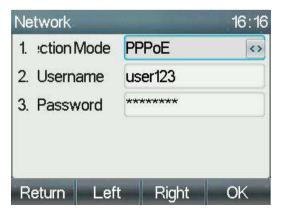
In IPv4 mode, there are 3 connection mode options: DHCP, PPPoE and Static IP.



Picture 110 - DHCP network mode

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

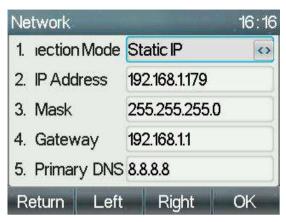
- Use DHCP DNS: It is enabled as default. "Enable" means phone will get DNS address from DHCP server and "disable" means not.
- Use DHCP time: It is disabled as default. "Enable" to manage the time of get DNS address from DHCP server and "disable" means not.



Picture 111 - PPPoE network mode

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

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



Picture 112 - Static IP network mode

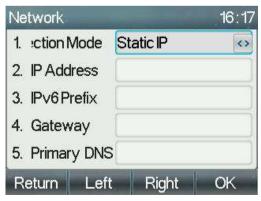
When using Static IP mode, user must configure the IP address manually.

- IP Address: Phone IP address.
- Mask: sub mask of your LAN.
- Gateway: The gateway IP address. Phone could access the other network via it.
- Primary DNS: Primary DNS address. The default is 8.8.8.8, Google DNS server address.
- Secondary DNS: When primary DNS is not available, Secondary DNS will work.

#### ■ IPv6

In IPv6, there are 2 connection mode options, DHCP and Static IP.

- DHCP configuration refers to IPv4 introduction in last page.
- Static IP configuration is almost same as IPv4's, except the IPv6 Prefix.
- IPv6 Prefix: IPv6 prefix, it is similar with mask of IPv4.



Picture 113 - IPv6 Static IP network mode

### 10.6.2.2 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 could use LLDP to find the VLAN switch or other VLAN devices and use LLDP learn feature to apply

the VLAN ID from VLAN switch to phone its self.

CDP

Cisco Discovery Protocol. CDP 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 could share the OS version, IP address, hardware version and so on.

Parameters	Description				
LLDP setting					
Report	Enable LLDP				
Interval	LLDP requests interval time				
Learning	apply the learned VLAN ID to the phone configuration				
QoS					
QoS Mode	S Mode configure SIP DSCP and audio DSCP				
WAN VLAN					
WAN VLAN	WAN port VLAN configuration				
LAN VLAN					
LAN VLAN LAN port VLAN configuration					
CDP					
CDP	CDP enable/disable , CDP interval time				

#### Table 16 - QoS & VLAN

#### 10.6.2.3 VPN

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

For some users, especially enterprise users, a VPN connection might be required to be established before activate a line registration. 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.

■ L2TP

# NOTICE! The device only supports non-encrypted basic authentication and non-encrypted data tunneling. For users who need data encryption, please use OpenVPN instead.

To establish a L2TP connection, users should log in to the device web portal, open webpage [**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. Press "Apply" then the device will try to connect to the L2TP server.

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

Once the VPN is configured, the device will try to connect with the VPN automatically when the device boots up every time until user disable it. Sometimes, if the VPN connection does not establish immediately, user may try to reboot the device and check if VPN connection established after reboot.

#### OpenVPN

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

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

User then upload these files to the device in the web page [**Network**] >> [**VPN**], select OpenVPN Files. Then user should check "Enable VPN" and select "OpenVPN" in VPN Mode and click "Apply" to enable OpenVPN connection.

Same as L2TP connection, the connection will be established every time when system rebooted until user disable it manually.

#### 10.6.2.4 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.



Picture 114 - The phone configures the web server type

### 10.6.3 Set The Secret Key

When the device is in the default standby mode,

- Select [Menu] >> [System], and enter it via [Confirm] or [OK] button.
- As default, the Advance setting password is 123.
- User will see the follow page after menu System Security.

Menu Password	-	16:20
<ol> <li>Current pass</li> <li>New passw</li> <li>Confirm pas</li> </ol>		
Return 123	Delete	OK

Picture 115 - Keypad lock password

Menu password is the permission for accessing the System.

- [**Current password**] is the password user configured before. If no configuration before, the default password is 123.
- [New password] is the new password user to use.
- After configuring the menu password, it will work immediately.
- Keyboard password is used to unlock the phone once it's locked.

Keyboard Pass	word	16:21
1. pard Status	All	$\bigcirc$
2. KeyLock Ti	15	
Return Lef	it Right	ОК

Picture 116 - Set keyboard lock password

User could set all keys,menu,Dss key,disabled.

- Enter [Keyboard password] setting by pressing [confirm] or [OK] button after password entered. If no menu password configuration before, it is 123 as default.
- If the menu password is correct, phone will go to keyboard password interface. As default, the keyboard password is disabled. When it is set, the keyboard will be locked after timeout.
- If user does not configure the keyboard lock time, (it is 0 as default). Long pressing "#" will lock the phone. There will be a lock icon in the top of LCD. Phone will reminder "Enter Password" after pressing any keys.



Picture 117 - Phone keypad lock password input interface

Keyboard Password:	•••
Keyboard Time:	0
Keyboard Lock Type:	All Keys 🗸
	Apply

Picture 118 - Web keyboard lock password Settings

### 10.6.4 Maintenance

Phone Webpage: Login and go to [System] >> [Auto provision].

				Default pass	word is in	use. Please change E	nglish 🗸 🏹 Logout (admin) 🦿 Keep Online
	Information	Configurations	Upgrade	Auto Provision	Tools	Reboot Phone	
P System							i
> Network	Basic Settings CPE Serial Number:		00100400FV02001	1000000a859f4ad41			
) Line	Authentication Name: Authentication Password:						
> Phone settings	Configuration File Encryption General Configuration File En						
Phonebook	Download Fail Check Times: Update Contact Interval: Save Auto Provision Informat	on:	[1 [720	(0,>=5)Minute			
> Call logs	Download CommonConfig en: Enable Server Digest:						
Function Key	Display Provision Prompt: Provision Config Priority:		Disable All Provision Normal	n Prompt →			
Application	DHCP Option >>						
Security	DHCPv6 Option >>						
> Device Log	SIP Plug and Play (PnP) >> Static Provisioning Server >>						
	Autoprovision Now >>						
	TR069 >>						

Picture 119 - Page auto provision Settings

LCD: [Menu] >> [System] >> [Maintenance] >> [Auto Provision].

Auto Provision		16:24
1. IPv4 DHCP Opti	on	
2. IPv6 DHCP Option	on	
3. SIP Plug and Pla	у	
4. Static Provisioni	ing Server	
Return Up	Down	OK

Picture 120 - Phone auto provision settings

The devices support SIP PnP, DHCP options, Static provision, TR069. If all of the 4 methods are enabled, the priority from high to low as below:

### PNP>DHCP>TR069> Static Provisioning

Transferring protocol: FTP, TFTP, HTTP, HTTPS

Parameters	Description	
Basic settings		
CPE Serial Number	Display the device SN	
Authentication Name	The user name of provision server	
Authentication Password	The password of provision server	
Configuration File	If the device configuration file is encrypted , user should add the encryption	
Encryption Key	key here	
General Configuration File	If the common configuration file is encrypted, user should add the encryption	
Encryption Key	key here	
Download Fail Check	If there download is foiled, phone will retry with the configured times	
Times	If there download is failed, phone will retry with the configured times.	
Update Contact Interval	Phone will update the phonebook with the configured interval time. If it is 0,	
	the feature is disabled.	
Save Auto Provision	Save the HTTP/HTTPS/FTP user name and password. If the provision URL	
Information	is kept, the information will be kept.	
Download Common	Whether phone will download the common configuration file	
Config enabled	Whether phone will download the common configuration file.	
Enchle Conver Direct	When the feature is enable, if the configuration of server is changed, phone	
Enable Server Digest	will download and update.	
DHCP Option		
Ontion Value	Confiugre DHCP option, DHCP option supports DHCP custom option	
Option Value	DHCP option 66   DHCP option 43, 3 methods to get the provision URL. The	

#### Table 17 - Auto Provision

	default is Option 66.
	Custom Option value is allowed from 128 to 254. The option value must be
Custom Option Value	same as server define.
Enable DHCP Option 120	Use Option120 to get the SIP server address from DHCP server.
SIP Plug and Play (PnP)	
	Whether enable PnP or not. If PnP is enable, phone will send a SIP
Enable SIP PnP	SUBSCRIBE message with broadcast method. Any server can support the
	feature will respond and send a Notify with URL to phone. Phone could get
	the configuration file with the URL.
Server Address	Broadcast address. As default, it is 224.0.0.0.
Server Port	PnP port
Transport Protocol	PnP protocol, TCP or UDP.
Update Interval	PnP message interval.
Static Provisioning Serve	)r
Server Address	Provisioning server address. Support both IP address and domain address.
	The configuration file name. If it is empty, phone will request the common file
	and device file which is named as its MAC address.
Configuration File Name	The file name could be a common name, \$mac.cfg, \$input.cfg. The file
	format supports CFG/TXT/XML.
Protocol Type	Transferring protocol type , supports FTP、 TFTP、 HTTP and HTTPS
l la dete laten vel	Configuration file update interval time. As default it is 1, means phone will
Update Interval	check the update every 1 hour.
	Provision Mode.
Lindata Mada	1. Disabled.
Update Mode	2. Update after reboot.
	3. Update after interval.
TR069	
Enable TR069	Enable TR069 after selection
ACS Server Type	There are 2 options Serve type, common and CTC.
ACS Server URL	ACS server address
ACS User	ACS server username (up to is 59 character)
ACS Password	ACS server password (up to is 59 character)
Enable TR069 Warning	If TR069 is enabled, there will be a prompt tone when connecting.
Tone	
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 999s
STUN Server Address	Configure STUN server address
STUN Enable	To enable STUN server for TR069

# 10.6.5 Firmware Upgrade

• Web page: Login phone web page, go to [System] >> [Upgrade].

	Current Software Version:	0.0.16	
	System Image File:		Select Upgrade
Upgrade Serv	er		
	Enable Auto Upgrade:		
	Upgrade Server Address1:		
	Upgrade Server Address2:		
	Update Interval:	24	Hour(s)
		Apply	
Firmware Inf	ormation		
	Current Software Version:	0.0.16	
	Server Firmware Version:		
	Upgrade		
	New Firmware Information:		

Picture 121 - Web page firmware upgrade

• LCD interface: go to [Menu] >> [System] >> [Firmware Upgrade] .



Picture 122 - Firmware upgrade information display

#### Table 18 - Firmware upgrade

Parameter	Description	
Upgrade server		
	Enable automatic upgrade, If there is a new version txt and new	
Enable Auto Upgrade	software firmware on the server, 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.	
	If there is a new version txt and new software firmware on the server,	
[] Ingrada] buttan	the page will display version information and upgrade button will	
[Upgrade] button	become available; Click [Upgrade] button to upgrade the new	
	firmware.	
NI · · · · · · · · · · · · · · · · · · ·	When there is a corresponding TXT file and version on the server	
New version description	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, as shown in the figure:

名称	日期	类型	大小标	记
fanvil_J303_hw1_0.txt	2022/9/1 13:59	文本文档	1 KB	
fanvil_J303_hw1_1.txt	2022/9/1 13:59	文本文档	1 KB	
fanvil_J303_hw1_2.txt	2022/9/1 13:59	文本文档	1 KB	
fanvil_J303_hw1_3.txt	2022/9/1 13:59	文本文档	1 KB	
J303-fanvil-release-ff01	2022/9/1 14:07	360压缩	13,075 KB	

#### Picture 123 - Firmware upgrade file directory

- TXT file format must be UTF-8
- vendor\_model\_hw10.TXT The file format is as follows:

Version=0.0.19 #Firmware

Firmware=xxx/xxx.z #URL, Relative paths are supported and absolute paths are possible, distinguished by the presence of protocol headers.

BuildTime=2022.10.09

Info=TXT|XML

Xxxxx Xxxxx Xxxxx

Xxxxx

• After the interval of update cycle arrives, if the server has available files and versions, the phone will prompt "Firmware Upgrade". Click [OK] to check the version information and upgrade.

## 10.6.6 Factory Reset

The phone is in default standby mode.

- Press [Menu] to find [Systems], and press [OK].
- Press [Systems] to enter the password (default password is 123) to enter the interface.
- Press the [Restore factory Settings] button to select the file to be cleared.
- Press [**OK**] to clear after completion. When you select clear configuration file and clear all, the phone will restart automatically after clearing.
- 2) In standby, press and hold the **[OK]** button for 6S to perform the reset operation

# **11 Web Configurations**

# 11.1 Web Page Authentication

The user can log into the web page of the phone to manage the user's phone information and operate the phone. Users must provide the correct user name and password to log in.

# 11.2 System >> Information

User can get the system information of the device in this page including,

- Model
- Hardware Version
- Software Version
- Uptime

And summarization of network status,

- Network Mode
- MAC Address
- IP
- Subnet Mask
- Default Gateway

Besides, summarization of SIP account status,

- SIP User
- SIP account status (Registered / Unapplied / Trying / Timeout )

# 11.3 System >> Account

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

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

# 11.4 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 Data Tables

Select the local data table to be cleared, all selected by default.

#### Reset Phone

The phone data will be cleared, including configuration and database tables.

# 11.5 System >> Upgrade

Upgrade the phone software version, customized ringtone, background, DSS Key icon, etc., can also be upgraded to delete the file. Ring tone support ".wav" format.

# 11.6 System >> Auto Provision

The Auto Provision settings help IT manager or service provider to easily deploy and manage the devices in mass volume. For the detail of Auto Provision, please refer to this link Auto Provision Description.

# 11.7 System >> Tools

Tools provided in this page help users to identify issues at trouble shooting. Please refer to <u>13 Trouble</u> <u>Shooting</u> for more detail.

# 11.8 System >> Reboot Phone

This page can restart the phone.

# 12 Network >> Basic

This page allows users to configure network connection types and parameters.

# 12.1 Network >> Service Port

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

/eb Server Type:	HTTP V	
eb Logon Timeout:	15	(10~30)Minute
eb auto login:		
TTP Port:	80	
TTPS Port:	443	
TP Port Range Start:	10000	(1025~65530)
TP Port Quantity :	1000	(10~1000)

Picture 124 - Service Port Settings

Parameter	Description
Web Server Type	Reboot to take effect after settings. Optionally, the web page login is
	HTTP/HTTPS.
Web Logen Timoout	Default as 15 minutes, the timeout will automatically exit the login page,
Web Logon Timeout	need to login again.
Web auto login	After the timeout does not need to enter a user name password, will
Web auto login	automatically login to the web page.
	The default is 80. If you want system security, you can set ports other than
HTTP Port	80.
	Such as :8080, webpage login: HTTP://ip:8080
HTTPS Port	The default is 443, the same as the HTTP port.
DTD Dort Dongo Stort	The value range is 1025 to 65535. The value of RTP port starts from the
RTP Port Range Start	initial value set. For each call, the value of voice and video port is added 2.
RTP Port Quantity	Number of calls.

#### Table 19 - Service port

# 12.2 Network >> VPN

Users can configure a VPN connection on this page. See <u>10.7.2.3 VPN</u> for more details.

# 12.3 Network >> Advanced

Advanced network Settings are typically configured by the IT administrator to improve the quality of the phone service. For configuration, query the <u>10.7 advanced</u> Settings.

# 12.4 Line >> SIP

Configure the Line service configuration on this page.

Parameters	Description	
Register Settings		
Line Status	Display the current line status at page loading. To get the up to date line	
	status, user has to refresh the page manually.	
Activate	Whether the service of the line is activated	
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 or 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 or UDP or TLS.	
Registration Expiration	Set SIP expiration date.	
SIP 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	Enter the ID or EODN address of the bestwin provides region	
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		

Table 20 - Line configuration on the web page

Enable Auto Answering	Enable auto-answering, the incoming calls will be answered automatically after the delay time
Auto Answering Delay	Set the delay for incoming call before the system automatically answered it
Call Forward	Enable unconditional call forward, all incoming calls will be forwarded to the
Unconditional	number specified in the next field
Call Forward Number for	
Unconditional	Set the number of unconditional call forward
	Enable call forward on busy, when the phone is busy, any incoming call will
Call Forward on Busy	be forwarded to the number specified in the next field.
Call Forward Number for Busy	Set the number of call forward on busy .
	Enable call forward on no answer, when an incoming call is not answered
Call Forward on No	within the configured delay time, the call will be forwarded to the number
Answer	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	
Answer	Set the delay time of not answered call before being forwarded.
Transfer Timeout	Set the timeout of call transfer process.
	Set the type of call conference, Local=set up call conference by the device
Conference Type	itself, maximum supports two remote parties, 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 be 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 voice
Message	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 turn on
	hands-free speaker or headphone
Hotline Delay	Set the delay for hotline before the system automatically dialed it
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 into the call history record.

	Set the DTMF type to be used for the line	
	Set the SIP INFO mode to send '*' and '#' or '10' and '11'	
DTMF SIP INFO Mode		
Enable DND	Enable Do-not-disturb, any incoming call to this line will be rejected	
	automatically	
Subscribe For Voice	Enable the device to subscribe a voice message waiting notification, if	
Message	enabled, the device will receive notification from the server if there is voice	
5	message waiting on the server	
Use VPN	Set the line to use VPN restrict route	
Use STUN	Set the line to use STUN for NAT traversal	
Enable Failback	Whether to switch to the primary server when it is available.	
Failback Interval	A Register message is used to periodically detect the time interval for the	
	availability of the main Proxy.	
	Multiple proxy cases, whether to allow the invite/register request to also	
Signal Failback	execute failback.	
	The number of attempts that the SIP Request considers proxy unavailable	
Signal Retry Counts	under multiple proxy scenarios.	
	Set the priority and availability of the codecs by adding or remove them	
Codecs Settings	from the list.	
Video Codecs	Select video code to preview video.	
Systems		
	When this setting is enabled, the features in this section will not be handled	
	by the device itself but by the server instead. In order to control the	
Use Feature Code	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	
Disable DND	Set the feature code to dial to the server	
Enable Call Forward		
Unconditional	Set the feature code to dial to the server	
Disable Call Forward		
Unconditional	Set the feature code to dial to the server	
Enable Call Forward on		
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		
	Set the feature code to dial to the server	
No Answer		

Enable Blocking	
Anonymous Call	Set the feature code to dial to the server
Disable Blocking	Cat the facture and to dial to the comver
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	Set the feature code to dial to the server
Code	Set the reactive code to that to the server
Send Anonymous Off	Set the feature code to dial to the server
Code	Set the reactive code to that to the server
SIP Encryption	Enable SIP encryption such that SIP transmission will be encrypted
RTP Encryption	Enable RTP encryption such that RTP transmission will be encrypted
	Set the line to enable call ending by session timer refreshment. The call
Enable Session Timer	session will be ended if there is not new 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 Number	BLF List allows one BLF key to monitor the status of a group. Multiple BLF
	lists are supported.
Response Single Codec	If setting enabled, the device will use single codec in response to an
	incoming call request
	The registered server will receive the subscription package from ordinary
BLF Server	application of BLF phone.
	Please enter the BLF server, if the sever does not support subscription
	package, the registered server and subscription server will be separated.
Keep Alive Type	Set the line to use dummy UDP or SIP OPTION packet to keep NAT
	pinhole opened
Keep Alive Interval	Set the keep alive packet transmitting interval
Keep Authentication	Keep the authentication parameters from previous authentication
Blocking Anonymous Call	Reject any incoming call without presenting caller ID
User Agent	Set the user agent, the default is Model with 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
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

	1
Auto TCP	Using TCP protocol to guarantee usability of transport for SIP messages 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
Enchla Strict Drown	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	Whether to add quote in display name, i.e.
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 that in the
Enable Inactive Hold	INVITE package, SDP is inactive.
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 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 the Pickup is enabled.
JoinCall Number	Set JoinCall Number.
Intercom Number	Set Intercom Number.
Unregister On Boot	Whether to enable logout function.
Enable MAC Header	When opening the registration, are IP package and user agent with MAC.
Enable Register MAC Header	When opening the registration, is user agent with MAC.
BLF Dialog Strict Match	Whether to enable accurate matching of BLF sessions.
PTime(ms)	Set whether to bring ptime field, default no.

SIP Global Settings	
Strict Branch	Set up to strictly match the Branch field.
Enable Group	Set open group.
Enable RFC4475	Set to enable RFC4475.
Enable Strict UA Match	Enable strict UA matching.
Registration Failure Retry	Cat the registration failure rate time
Time	Set the registration failure retry time.
Local SIP Port	Modify the phone SIP port.

# 12.5 Line >> SIP Hotspot

Please refer to 9.9 SIP Hotspot.

# 12.6 Line >> Dial Plan

7	Press # to invoke dialing	
	Dial Fixed Length	to Send
	Send after 10	second(s)(3~30)
	Press # to Do Blind Transfe	er
	Blind Transfer on Onhook	
	Attended Transfer on Onho	ok
	Attended Transfer on Confe	erence Onhook
	Enable E.164	

### Picture 125 - Dial plan settings

### Table 21 - Phone 7 dialing methods

Parameters	Description
Press # to invoke dialing	The user dials the other party's number and then adds the # number
Fress # to invoke dialing	to dial out;
Dial Fixed Length	The number entered by the user is automatically dialed out when it
	reaches a fixed length
Timeout dial	The system dials automatically after timeout
Droco # to Do Dlind Transfer	The user enters the number to be transferred and then presses the
Press # to Do Blind Transfer	"#" key to transfer the current call to a third party
Dlind Transfer on Onhook	After the user enters the number, hang up the handle or turn off the
Blind Transfer on Onhook	hands-free function to transfer the current call to a third party.

	Hang up the handle or press the hands-free button to realize the
Attended Transfer on Onhook	function of attention-transfer, which can transfer the current call to a
	third party.
Attended Transfer on	During a three-way call, hang up the handle and the remaining two
Conference Onhook	parties remain on the call.
Enable E.164	Please refer to e. 164 standard specification

### Add dialing rules:

l Plan Add						
Digit Map:						
Apply to C	all:	Outgoing (	Call 🗸 🕜			
Match to S	end:	No 🗸 🤇				
Line:		SIP DIALF	eer 🗸 🕜			
Destination	n:					
Port:		[				
Alias(Optic	onal):	No Alias 🗸	• 0			
Phone Nun	nber:					
Length:						
Suffix:						
				Add		
l Plan Optic	on 🕜					
~				Delete	Modify	
er-defined [	Dial Plan Tabl	le 🕜				
Index	Digit Map	Call	Match to Send	Line	Alias Type:Number(length)	Suffix

Picture 126 - Custom setting of dial - up rules

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
Dial rule	Peer rules.
Diai Tule	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 differer	t special characters are used.
■ x Matches	any single digit that is dialed.
■ [] Specifies	s a range 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, and the default is 5060 for SIP.
Alias	Set the Alias. This is the text to be added, replaced or deleted. It is an optional
Allas	item.
Note: There are fo	our types of aliases.
■ all: xxx – xxx	will replace the phone number.
■ add: xxx – xx	x will be dialed before any phone number.
■ del –The chai	racters 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.
Length	Set the number of characters to be deleted. For example, if this is set to 3, the
Lengui	phone will delete the first 3 digits of the phone number. It is an optional item.

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 can make a direct IP call to IP address 172.168.2.208. Using this feature, 123 can be substituted for 172.168.2.208.

alt Man	r-H	Match to Dand	tine	Allac Turas Alumbar (leasth)	Cuffly Mad
al	t Map	t Map Call	t Map Call Match to Send	t Map Call Match to Send Line	It Map Call Match to Send Line Alias Type:Number(length)

Picture 127 - Dial rules table (1)

**Example 2**: Partial Substitution -- To dial a long distance call to Beijing 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.

Index	Digit Map	Call	Match to Send	Line	Alias Type:Number(length)	Suffix	Media
1	"1T"	Out	No	Fanvil@SIP1	rep:010(1)		Défaul

Picture 128 - Dial rules table (2)

**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.

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

# 12.7 Line >> Action Plan

1. When a IP phone calls a phone, the bound IP camera synchronously transmits video to the other phone (video is supported);This feature is only supported by X6U.

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 (support video)
Туре	Support video display on call.
Direction	For call mode, incoming/outgoing call displays video
Line	Set up outgoing lines.
Username	Bind the user name of the IP camera.
Password	Bind IP camera password.
URL	Video streaming information;Mcast Address
URL	(mcast://IP:port)
User Agent	Set user agent information

#### Table 23 - IP camera

# 12.8 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
The TLS authentication	
TLS Certification File	Upload or delete the TLS certification file used for encrypted SIP
	transmission.

Table 24 - Set the line global configuration on the web page

# 12.9 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 Moolg(15, 40)	When the phone calculated the Moslq value x10 below the
Warning threshold for Moslq(15~40)	set threshold, a warning was issued.
Critical threshold for Moolg(15, 40)	When the phone calculates the Moslq value x10 below the
Critical threshold for Moslq(15~40)	set threshold, the critical report is issued.
Warning Threshold for Delay(10~2000)	When the one-way delay of the phone is greater than the
Warning Theshold for Delay(10-2000)	set threshold, warning is issued.
Critical Threshold for Dolay/(10-2000)	When the phone computes that the one-way delay is
Critical Threshold for Delay(10~2000)	greater than the set threshold, the critical report is issued.
Display Papart Options on web	Whether to display the VQ report data for the last call
Display Report Options on web	through the web page.

#### Table 25 - VQ RTCP-XR Settings

# **12.10** Phone settings >> Features

Configuration phone features.

Parameters	Description
Basic Settings	
Enable Cell Waiting	Enable this setting to allow user to take second incoming call during an
Enable Call Waiting	established call. Default enabled.
Enable Call Transfer	Enable Call Transfer.
Semi-Attended Transfer	Enable Semi-Attended Transfer by selecting it
Enable 3-Way Conference	Enable 3-way conference by selecting it
Enable Auto Onhook	The phone will hang up and return to the idle automatically at hands-free
	mode
	Specify Auto Onhook time, the phone will hang up and return to the idle
Auto Onhook Time	automatically after Auto Hand down time at hands-free mode, and play
	dial tone Auto Onhook time at handset mode
Ding for Hoodoot	Enable Ring for Handset by selecting it, the phone plays ring tone from
Ring for Headset	handset.

Table 26 - General function Settings

Auto Headset	Enable this feature, headset plugged in the phone, user press 'answer'
	key or line key to answer a call with the headset automatically.
Enable Silent Mode	When enabled, the phone is muted, there is no ringing when calls, you
	can use the volume keys and mute key to unmute.
Disable Mute for Ring	When it is enabled, you can't 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
Pop Outgoing	If you select Ban Outgoing to enable it, and you cannot dial out any
Ban Outgoing	number.
Hide DTMF	Configure the hide DTMF mode.
Enable CallLog	Select whether to save the call log.
Enable Restricted Incoming	Whether to enable restricted call list.
List	
Enable Allowed Incoming	Whether to enable the allowed call list
List	Whether to enable the allowed call list.
Enable Restricted Outgoing	Whether to enable the restricted allocation list.
List	
Enable Country Code	Whether the country code is enabled.
Country Code	Fill in the country code.
Area Code	Fill in the area code.
Enable Number Privacy	Whether to enable number privacy.
Match Direction	Matching direction, there are two kinds of rules from right to left and from left to right.
Start Position	Open number privacy after the start of the hidden location.
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
Search path	Select the search path.
LDAP Search	Select from with one LDAP for search
	Configure the Emergency Call Number. Despite the keyboard is locked,
Emergency Call Number	you can dial the emergency call number
Restrict Active URI Source	Set the device to accept Active URI command from specific IP address.
IP	More details please refer to this link

Configure the Push XML Server, when phone receives request, it will determine whether to display corresponding content on the phone which sent by the specified server or not.           Enable Pre-Dial         Disable this feature, user enter number will open audio channel automatically. Enable the feature, user enter the number without opening audio channel.           Enable Multi Line         If enabled, up to 10 simultaneous calls can exist on the phone, and if disabled, up to 2 simultaneous calls can exist on the phone.           Line Display Format         Custom line format: SIPn/SIPn: xxx/xxx@SIPn           Contact As White List Type         NONE/BOTH/DND White List/WDW White List           Block XML When Call         Disable XML push on call.           SIP notify         When enabled, the phone displays the information when it receives the relevant notify content.           Tone Settings         Play DTMF tone on the device when user pressed a phone digits at dialing, default enabled.           Play DIMF Tone         Play DTMF tone on the device when user pressed a phone digits during taking, default enabled.           DND Settings         DND Settings           DND Settings         Enable DND Timer           DND Settings         When intercom is enabled, the DND is automatically turned on from the start time to the of time.           DND Settings         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 I		
sent by the specified server or not.           Enable Pre-Dial         Disable this feature, user enter number will open audio channel automatically. Enable the feature, user enter the number without opening audio channel.           Enable Multi Line         If enabled, up to 10 simultaneous calls can exist on the phone, and if disabled, up to 2 simultaneous calls can exist on the phone.           Line Display Format         Custom line format: SIPh/SIPn: xxx/xxx@SIPn           Contact As White List Type         NONE/BOTH/DND White List/FWD White List           Block XML When Call         Disable XML push on call.           SIP notify         When enabled, the phone displays the information when it receives the relevant notify content.           Tone Settings         Tone Settings           Enable Holding Tone         When turned on, a tone plays when call waiting           Play DIMF Tone         Play DTMF tone on the device when user pressed a phone digits at dialing, default enabled.           Play Taiking DTMF Tone         Play DTMF tone on the device when user pressed a phone of close.           Enable DND Timer         Enable DND Time, if enabled, the DND is automatically turned on from the start time to the off time.           DND Start Time         Set DND End Time           DND End Time         Set DND End Time           Intercom Settings         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 afte		Configure the Push XML Server, when phone receives request, it will
Disable this feature, user enter number will open audio channel automatically.           Enable Pre-Dial         Disable the feature, user enter the number without opening audio channel.           Enable Multi Line         If enabled, up to 10 simultaneous calls can exist on the phone, and if disabled, up to 2 simultaneous calls can exist on the phone.           Line Display Format         Custom line format: SIPn/SIPn: xxx/xx@SIPn           Contact As White List Type         NONE/BOTH/DND White List/FWD White List           Block XML When Call         Disable XML push on call.           SIP notify         When enabled, the phone displays the information when it receives the relevant notify content.           Tone Settings         Enable Holding Tone           Play Dialing DTMF Tone         When turned on, a tone plays when the call is held           Play Dialing DTMF Tone         Play DTMF tone on the device when user pressed a phone digits at dialing, default enabled.           DND Settings         Play DTMF tone on the device when user pressed a phone digits during taking, default enabled.           DND Start Time         Select to take effect on the line or on the phone or close.           Enable DND Timer         Enable DND Timer, if enabled, the DND is automatically turned on from the start time to the off time.           DND End Time         Set DND End Time           Intercom Settings         When intercom is enabled, the device will accept the incoming call request with a SIP header of Alert-Info in	Push XML Server	determine whether to display corresponding content on the phone which
Enable Pre-Dial       automatically.         Enable Pre-Dial       automatically.         Enable Multi Line       If enabled, up to 10 simultaneous calls can exist on the phone, and if disabled, up to 2 simultaneous calls can exist on the phone.         Line Display Format       Custom line format: SIPn/SIPn: xxx/xxx@SIPn         Contact As White List Type       NONE/BOTH/DND White List/FWD White List         Block XML When Call       Disable XML push on call.         SIP notify       When enabled, the phone displays the information when it receives the relevant notify content.         Tone Settings       Enable Holding Tone         Enable Holding Tone       When turned on, a tone plays when the call is held         Enable Call Waiting Tone       Play DTMF tone on the device when user pressed a phone digits at dialing, default enabled.         Play Dialing DTMF Tone       Play DTMF tone on the device when user pressed a phone digits during taking, default enabled.         Play Talking DTMF Tone       Enable DND Timer, if enabled, the DND is automatically turned on from the start time to the off time.         DND Option       Select to take effect on the line or on the phone or close.         Enable DND Timer       Enable DND Timer, if enabled, the DND is automatically turned on from the start time to the off time.         DND Start Time       Set DND End Time         Intercom Settings       Enable Intercom is enabled, the device will accept the incoming cal		sent by the specified server or not.
Enable the feature, user enter the number without opening audio channel.           Enable Multi Line         If enabled, up to 10 simultaneous calls can exist on the phone, and if disabled, up to 2 simultaneous calls can exist on the phone.           Line Display Format         Custom line format: SIPn/SIPn: xxx/xxx@SIPn           Contact As White List Type         NONE/BOTH/DND White List/FWD White List           Block XML When Call         Disable XML push on call.           SIP notify         When enabled, the phone displays the information when it receives the relevant notify content.           Tone Settings         Enable Holding Tone           Enable Holding Tone         When turned on, a tone plays when the call is held           Enable Call Waiting Tone         Play DTMF tone on the device when user pressed a phone digits at dialing, default enabled.           Play Talking DTMF Tone         Play DTMF tone on the device when user pressed a phone digits during taking, default enabled.           DND Settings         Enable DND Timer           Enable DND Timer         Enable DND Timer, If enabled, the DND is automatically turned on from the start time to the off time.           DND Settings         Vhen 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 Mute         Enable Intercom Sarge by selecting it, the phone auto answers the intercom call during call. If the current call is intercom call, th		Disable this feature, user enter number will open audio channel
Enable Multi LineIf enabled, up to 10 simultaneous calls can exist on the phone, and if disabled, up to 2 simultaneous calls can exist on the phone.Line Display FormatCustom line format: SIPn/SIPn: xxx/xxx@SIPnContact As White List TypeNONE/BOTH/DND White List/FWD White ListBlock XML When CallDisable XML push on call.SIP notifyWhen enabled, the phone displays the information when it receives the relevant notify content.Tone SettingsWhen turned on, a tone plays when the call is heldEnable Holding ToneWhen turned on, a tone plays when call waitingPlay DTMF TonePlay DTMF tone on the device when user pressed a phone digits at dialing, default enabled.Play Talking DTMF TonePlay DTMF tone on the device when user pressed a phone digits during taking, default enabled.DND SettingsPlay DTMF tone on the device when user pressed a phone digits during taking, default enabled.DND OptionSelect to take effect on the line or on the phone or close.Enable DND TimerEnable DND Timer, If enabled, the DND is automatically turned on from the start time to the off time.DND Start TimeSet DND Start TimeDND End TimeWhen 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 IntercomFlable Intercom Gall the incoming call is intercom call, the phone plays the intercom toneEnable Intercom MuteEnable Intercom Barge by selecting it, the phone plays the intercom tone intercom call during a call. If the current call is intercom call, the phone will reject the sec	Enable Pre-Dial	automatically.
Enable Multi Line       disabled, up to 2 simultaneous calls can exist on the phone.         Line Display Format       Custom line format: SIPn/SIPn: xxx/xxx@SIPn         Contact As White List Type       NONE/BOTH/DND White List/FWD White List         Block XML When Call       Disable XML push on call.         SIP notify       When enabled, the phone displays the information when it receives the relevant notify content.         Tone Settings       Enable Holding Tone         Enable Call Waiting Tone       When turned on, a tone plays when the call is held         Play Dating DTMF Tone       Play DTMF tone on the device when user pressed a phone digits at dialing, default enabled.         Play Talking DTMF Tone       Play DTMF tone on the device when user pressed a phone digits during taking, default enabled.         DND Settings       Enable DND Timer         DND Option       Select to take effect on the line or on the phone or close.         Enable DND Timer       Enable DND Timer, If enabled, the DND is automatically turned on from the start time to the off time.         DND Settings       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 Intercom Call       Enable Intercom call         Enable Intercom Mute       Enable mute mode during the intercom call, the phone plays the intercom tone intercom call weige by selecting i		Enable the feature, user enter the number without opening audio channel.
disabled, up to 2 simultaneous calls can exist on the phone.         Line Display Format       Custom line format: SIPn/SIPn: xxx/xxx@SIPn         Contact As White List Type       NONE/BOTH/DND White List/FWD White List         Block XML When Call       Disable XML push on call.         SIP notify       When enabled, the phone displays the information when it receives the relevant notify content.         Tone Settings       Enable Holding Tone         Enable Holding Tone       When turned on, a tone plays when the call is held         Enable Call Waiting Tone       Play DTMF tone on the device when user pressed a phone digits at dialing, default enabled.         Play Talking DTMF Tone       Play DTMF tone on the device when user pressed a phone digits during taking, default enabled.         DND Settings       Enable DND Timer, if enabled, the DND is automatically turned on from the start time to the off time.         DND Start Time       Set DND End Time         Intercom Settings       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 Intercom Barge         Enable Intercom Barge       Enable Intercom call, the phone auto answers the intercom call wing a call. If the current call is intercom call, the phone will reject the second intercom call	Enable Multi Line	If enabled, up to 10 simultaneous calls can exist on the phone, and if
Contact As White List Type         NONE/BOTH/DND White List/FWD White List           Block XML When Call         Disable XML push on call.           SIP notify         When enabled, the phone displays the information when it receives the relevant notify content.           Tone Settings         Enable Holding Tone         When turned on, a tone plays when the call is held           Enable Call Waiting Tone         When turned on, a tone plays when call waiting           Play Dialing DTMF Tone         Play DTMF tone on the device when user pressed a phone digits at dialing, default enabled.           Play Talking DTMF Tone         Play DTMF tone on the device when user pressed a phone digits during taking, default enabled.           DND Settings         Enable DND Timer           Enable DND Timer         Enable DND Timer, If enabled, the DND is automatically turned on from the start time to the off time.           DND Start Time         Set DND End Time           Intercom Settings         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 Mute         Enable Intercom Barge           Enable Intercom Barge         Enable Intercom Barge by selecting it, 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		disabled, up to 2 simultaneous calls can exist on the phone.
Block XML When Call       Disable XML push on call.         SIP notify       When enabled, the phone displays the information when it receives the relevant notify content.         Tone Settings       Enable Holding Tone         Enable Call Waiting Tone       When turned on, a tone plays when the call is held         Play Dialing DTMF Tone       Play DTMF tone on the device when user pressed a phone digits at dialing, default enabled.         Play Talking DTMF Tone       Play DTMF tone on the device when user pressed a phone digits during taking, default enabled.         DND Settings       Play DTMF tone on the device when user pressed a phone digits during taking, default enabled.         DND Option       Select to take effect on the line or on the phone or close.         Enable DND Timer       Enable DND Timer, If enabled, the DND is automatically turned on from the start time to the off time.         DND Settings       Set DND End Time         DND End Time       Set DND End Time         Intercom Settings       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 Mute       Enable mute mode during the intercom call         Enable Intercom Barge       If the incoming call is intercom call, the phone plays the intercom tone         Enable Intercom Barge       Enable Intercom Barge by selecting it, the phone auto answers the intercom call uring a call	Line Display Format	Custom line format: SIPn/SIPn: xxx/xxx@SIPn
SIP notify       When enabled, the phone displays the information when it receives the relevant notify content.         Tone Settings       Enable Holding Tone       When turned on, a tone plays when the call is held         Enable Call Waiting Tone       When turned on, a tone plays when call waiting         Play Dialing DTMF Tone       Play DTMF tone on the device when user pressed a phone digits at dialing, default enabled.         Play Talking DTMF Tone       Play DTMF tone on the device when user pressed a phone digits during taking, default enabled.         DND Settings       Play DTMF tone on the device when user pressed a phone digits during taking, default enabled.         DND Settings       Enable DND Timer         DND Option       Select to take effect on the line or on the phone or close.         Enable DND Timer       Enable DND Timer, If enabled, the DND is automatically turned on from the start time to the off time.         DND Settings       Set DND Start Time         DND End Time       Set DND End Time         Intercom Settings       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 Mute       Enable mute mode during the intercom call         Enable Intercom Barge       If the incoming call is intercom call, the phone plays the intercom tone         Enable Intercom Barge       Enable Intercom Call       If the o	Contact As White List Type	NONE/BOTH/DND White List/FWD White List
SIP notify       relevant notify content.         Tone Settings         Enable Holding Tone       When turned on, a tone plays when the call is held         Enable Call Waiting Tone       Play DTMF tone on the device when user pressed a phone digits at dialing, default enabled.         Play Daling DTMF Tone       Play DTMF tone on the device when user pressed a phone digits during taking, default enabled.         Play Talking DTMF Tone       Play DTMF tone on the device when user pressed a phone digits during taking, default enabled.         DND Settings       Play DTMF tone on the device when user pressed a phone digits during taking, default enabled.         DND Option       Select to take effect on the line or on the phone or close.         Enable DND Timer       Enable DND Timer, If enabled, the 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 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 Tone       If the incoming call is intercom call         Enable Intercom Tone       If the incoming call is intercom call.         Enable Intercom Barge       Enable Intercom Barge by selecting it, the phone auto answers the intercom call during a call. If the current call is intercom call, the phone will reject the second	Block XML When Call	Disable XML push on call.
Tone Settings         Enable Holding Tone       When turned on, a tone plays when the call is held         Enable Call Waiting Tone       When turned on, a tone plays when call waiting         Play Dialing DTMF Tone       Play DTMF tone on the device when user pressed a phone digits at dialing, default enabled.         Play Talking DTMF Tone       Play DTMF tone on the device when user pressed a phone digits during taking, default enabled.         DND Settings       Play DTMF tone on the device when user pressed a phone digits during taking, default enabled.         DND Option       Select to take effect on the line or on the phone or close.         Enable DND Timer       Enable DND Timer, If enabled, the 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 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 Mute       Enable mute mode during the intercom call         Enable Intercom Tone       If the incoming call is intercom call, the phone plays the intercom tone         Enable Intercom Barge       Enable Intercom Barge by selecting it, 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		When enabled, the phone displays the information when it receives the
Enable Holding Tone       When turned on, a tone plays when the call is held         Enable Call Waiting Tone       When turned on, a tone plays when call waiting         Play Dialing DTMF Tone       Play DTMF tone on the device when user pressed a phone digits at dialing, default enabled.         Play Talking DTMF Tone       Play DTMF tone on the device when user pressed a phone digits during taking, default enabled.         DND Settings       Play DTMF tone on the device when user pressed a phone digits during taking, default enabled.         DND Option       Select to take effect on the line or on the phone or close.         Enable DND Timer       Enable DND Timer, If enabled, the DND is automatically turned on from the start time to the off time.         DND Start Time       Set DND End Time         Intercom Settings       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 Mute       Enable mute mode during the intercom call         Enable Intercom Tone       If the incoming call is intercom call, the phone plays the intercom tone         Enable Intercom Barge       Enable Intercom call during a call. If the current call is intercom call, the phone will reject the second intercom call		relevant notify content.
Enable Call Waiting Tone       When turned on, a tone plays when call waiting         Play Dialing DTMF Tone       Play DTMF tone on the device when user pressed a phone digits at dialing, default enabled.         Play Talking DTMF Tone       Play DTMF tone on the device when user pressed a phone digits during taking, default enabled.         DND Settings       Play DTMF tone on the device when user pressed a phone digits during taking, default enabled.         DND Settings       Enable DND Timer         Enable DND Timer       Enable DND Timer, If enabled, the 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 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 Mute       Enable mute mode during the intercom call         Enable Intercom Tone       If the incoming call is intercom call, the phone plays the intercom tone         Enable Intercom Barge       Enable Intercom call during a call. If the current call is intercom call, the phone will reject the second intercom call         Response Code Settings       Enable Intercom call	Tone Settings	
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dialing, default enabled.         Play Talking DTMF Tone       Play DTMF tone on the device when user pressed a phone digits during taking, default enabled.         DND Settings       DND Option         Select to take effect on the line or on the phone or close.         Enable DND Timer       Enable DND Timer, If enabled, the DND is automatically turned on from the start time to the off time.         DND Settings       Set DND Start Time         DND End Time       Set DND End Time         Intercom Settings       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 Mute       Enable mute mode during the intercom call         Enable Intercom Barge       If the incoming call is intercom call, 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		Play DTMF tone on the device when user pressed a phone digits at
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Itaking, default enabled.         DND Settings         DND Option       Select to take effect on the line or on the phone or close.         Enable DND Timer       Enable DND Timer, If enabled, the 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 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 Mute       Enable mute mode during the intercom call         Enable Intercom Barge       If the incoming call is intercom call, the phone plays the intercom tone         Enable Intercom Barge       Enable Intercom Call during a call. If the current call is intercom call, the phone will reject the second intercom call		Play DTMF tone on the device when user pressed a phone digits during
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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 device will accept the incoming call         Enable Intercom       request with a SIP header of Alert-Info instruction to automatically answer the call after specific delay.         Enable Intercom Mute       Enable mute mode during the intercom call         Enable Intercom Tone       If the incoming call is intercom call, the phone plays the intercom tone         Enable Intercom Barge       Enable Intercom Barge by selecting it, 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         Response Code Settings       Intercom call		Enable DND Timer, If enabled, the DND is automatically turned on from
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Image: Constraint of the call after specific delay.         Enable Intercom Mute       Enable mute mode during the intercom call         Enable Intercom Tone       If the incoming call is intercom call, the phone plays the intercom tone         Enable Intercom Barge       Enable Intercom Barge by selecting it, 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         Response Code Settings       Image: Constraint of the current call is intercom call		When intercom is enabled, the device will accept the incoming call
Enable Intercom Mute       Enable mute mode during the intercom call         Enable Intercom Tone       If the incoming call is intercom call, the phone plays the intercom tone         Enable Intercom Barge       Enable Intercom Barge by selecting it, 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         Response Code Settings       If the second intercom call	Enable Intercom	request with a SIP header of Alert-Info instruction to automatically answer
Enable Intercom Tone       If the incoming call is intercom call, the phone plays the intercom tone         Enable Intercom Barge       Enable Intercom Barge by selecting it, 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         Response Code Settings		the call after specific delay.
Enable Intercom Barge       Enable Intercom Barge by selecting it, 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         Response Code Settings       Image: Code Settings	Enable Intercom Mute	Enable mute mode during the intercom call
Enable Intercom Barge       intercom call during a call. If the current call is intercom call, the phone will reject the second intercom call         Response Code Settings	Enable Intercom Tone	If the incoming call is intercom call, the phone plays the intercom tone
reject the second intercom call Response Code Settings		Enable Intercom Barge by selecting it, the phone auto answers the
Response Code Settings	Enable Intercom Barge	intercom call during a call. If the current call is intercom call, the phone will
		reject the second intercom call
	Response Code Settings	
UND Response Code SIP response code on call rejection on DND	DND Response Code	Set the SIP response code on call rejection on DND
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	Enable Password Dial by selecting it, When number entered is beginning with the password prefix, the following N numbers after the password prefix will be hidden as *, N stand for the value which you enter in the Password Length field. For example: you set the password prefix is 3, enter the Password Length is 2, then you enter the number 34567, it will display 3**67 on the phone.
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 off, open is always bright red. Off by default.
SMS/MWI	The status of power lamp when there is unread short message/voice message, including off/on/slow flash/quick flash, default slow flash.
Missed	The state of the power lamp when there is a missed call, including off/on/slow flash/quick flash, the default slow flash.
Talk/Dial	In the talk/dial state, the power lamp state, off is off, on is always red bright, the default is off.
Ringing	Power lamp status when there is an incoming call, including off/on/slow flash/quick flash, default flash.
Mute	Power lamp status in mute mode, including off/on/slow flash/quick flash, off by default.
Hold/Held	The power lamp state, including off/on/slow flash/quick flash, is turned off by default when left/retained.
Notification Popups	
Display Missed Call Popup	No incoming call popup prompt after opening, no popup prompt when closing, open by default.
Display MWI Popup	Voice message popup prompt is not answered after opening, and it is opened by default if there is no popup prompt when closing.
Display Device Connect Popup	There is a popup prompt when the WIFI adapter is connected. There is no popup prompt when the WIFI adapter is closed. It is on by default.
Display SMS Popup	There is popup prompt for unread messages after opening, and there is no popup prompt when closing. It is opened by default.
Display Other Popup	When the handle is not hung back after opening, registration fails, IP acquisition fails, Tr069 connection fails and other abnormalities, there will be popup prompt when it is opened; otherwise, there will be no prompt when it is closed, and it will be opened by default.

# **12.11** Phone settings >> Media Settings

Change voice Settings.

Parameters	Description
Code on Cotting of	Select enable or disable voice encoding:
Codecs Settings	G.711A/U, G.722, G.729AB,G723.1, G726, ILBC, opus
Audio Settings	
Handset Volume	Set the Handset volume, the value must be 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 earphone 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.
DTMF Payload Type	Enter the DTMF payload type, the value must be 96~127.
AMR Payload Type	Set AMR load type, range 96~127.
Headset Mic Gain	Set the earphone's radio volume gain to fit different models of earphones.
Opus playload type	Set Opus load type, range 96~127.
OPUS Sample Rate	Set Opus sampling rate, including opus-nb (8KHz) and opus-wb (16KHz).
ILBC Payload Type	Set the ILBC Payload Type, the value must be 96~127.
ILBC Payload Length	Set the ILBC Payload Length
Enable MWI Tone	When there is a new voice message message, the phone will start a
	special dial tone.
Enable VAD	Whether voice activity detection is enabled.
Onhook Time	Configure a minimum response time, which defaults to 200ms
EHS Type	EHS headset is available after enabling.
RTP Control Protocol(RTCP	) Settings
CNAME user	Set CNAME user
CNAME host	Set CNAME host
RTP Settings	
RTP keep alive	Hold the call and send the packet after 30s
Alert Info Ring Settings	
Value	Set the value to specify the ring type.
Ring Type	Туре1-Туре9

#### Table 27 - Voice settings

# 12.12 Phone settings >> MCAST

This feature allows user to make some kind of 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. You can also configure the phone to receive an RTP stream from pre-configured multicast listening address without involving SIP signaling. You can specify up to 10 multicast listening addresses.

Parameters	Description
Normal Call 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.

#### Table 28 - Multicast parameters

# 12.13 Phone settings >> Action

#### Action URL

Note! Action urls are used for IPPBX systems to submit phone events.

### 12.14 Phone settings >> Time/Date

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

Table 29 - Time&Date settings	
-------------------------------	--

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 device 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	
12-Hour Clock	Set the time display in 12-hour mode	
Date Format	Select the time/date display format	
Daylight Saving Time Settings		

Local	Choose your local, phone will set daylight saving time automatically
	based on the local
	Choose DST Set Type, if Manual, you need to set the start time and
DST Set Type	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	The offset minutes when DST started
Month Start	The DST start month
Week Start	The DST start week
Weekday Start	The DST start weekday
Hour Start	The DST start hour
Minute Start	The DST start minute
Month End	The DST end month
Week End	The DST end week
Weekday End	The DST end weekday
Hour End	The DST end hour
Minute End	The DST end minute
Manual Time Settings	You can set your time manually

# 12.15 Phone settings >> Time Plan

Time Plan (time management) settings can set a time point or a time period. The time point is to perform an action at a certain time, and the time period is to perform an action for a certain period of time.

Name:				
Type:	Timed reboot	~		
Repetition period:	No repetition	¥		
		*		
	□ 3 □ 4			
Monthly:	□ 5 □ 6			
	□ 7 □ 8			
	9	•		
Effective time:	0 🗸 : 0	▶ ▼-0 <b>∨</b> :0 <b>∨</b>		
	Add			
e Plan List: 🕜				
🗌 Index 🛛 Name	Туре	Special configure	Repetition period	Effective tim

Picture 129 - Time Plan (1)

Table 30 - Time Plan

configure	Value	Description
Time plan Type	1: Timed reboot	Type, Action performed at a time
	2: Timed upgrade	point/time period
	3: Timed forward	
	4: Timed config	
Repetition	0: No repetition	repeat type
periodRepetition	1: Daily	
period	2: Weekly	
	3: Monthly	
in weeks	0-6 : Sunday-Saturday,	When the repetition type is
	supports multiple separated	daily/non-repeating, the value is
	by ";"	empty
	1-31: 1-31 day	
in days	XX:XX-XX:XX	start time - end time period

When the Time Plan type is selected as timed forwarding, the webpage will prompt to enter the forwarding number and forwarding line, as shown in the figure.

Name:	
Type:	Timed forward
Forward Number:	123
Line:	234@SIP1 🗸
Repetition period:	No repetition
	□ 10
Monthly:	
	□ 12 □ 13
	$\square$ 14

Picture 130 - Time Plan (2)

Forwarding Number: Configure the forwarding number to forward to the number within the set time period.

Line: Forward the specified line, when the line is set to a certain line, it will only take effect for this line.

#### 1. Timed forwarding rules:

1) When there is forwarding under the line, the forwarding number under the line is used; when there is no forwarding number under the SIP line, when there is an incoming call within the time period set by the scheduled forwarding, the phone will be forwarded to the specified scheduled forwarding number; when outside the time period, no forwarding is performed. That is, the priority Line>Time Plan.

2) All scheduled forwarding types are unconditional forwarding.

#### 12.15.1 Repeat Period Select Daily

Select daily as the repetition period, and enter any time in the date format from 00:00 to 23:59 in the effective time input box.

The first and third input boxes only allow input of any integer from 00 to 23, and 0 is automatically added before inputting an integer less than 10.

The second and fourth input boxes only allow input of any integer from 00 to 59, and 0 is automatically added before inputting an integer less than 10.

Repetition period:	Daily 🗸
ffective time:	
	Add

#### Picture 131 - Time Plan (3)

### 12.15.2 Repeat Period Select Weekly

Day of the week selection box, check it to take effect.

The final effective time is the combination of the day of the week and the set time.

Repetition period:	Weekly
	Sunday
	<ul> <li>Monday</li> <li>Tuesday</li> </ul>
Weekly:	<ul> <li>Wednesday</li> <li>Thursday</li> </ul>
	Friday
	Saturday
Effective time:	
	Add

Picture 132 - Time Plan (4)

#### 12.15.3 Time Plan List

All configurations submitted after the configuration is submitted are displayed in a list, and the order is sorted by week (day, Monday, Tuesday...), and if the week is the same, it is sorted by time (time from small to large). The function sequence is restarted first and then upgraded.

	Contraction of the second second	-		D CONTRACTOR OF A	Effective tim
Index	Name	Type	Special configure	Repetition period	E

#### 12.15.4 Delete

Check the box before the serial number, click to select all configuration items in the list. Click Delete to delete the checked configuration in the configuration list, and it will become invalid after deletion.

Index	Name	Туре	Special configure	Repetition period	Effective tim
1		Timed forward	SIP1 123	Weekly(SUN;)	09:00 15:0

## 12.16 Phone settings >> Tone

This page allows users to configure a phone prompt.

You can either select the country area or customize the area. If the area is selected, it will bring out the following information directly. If you choose to customize the area, you 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:		

Picture 133 - Tone settings on the web

# 12.17 Phone settings >> Advanced

User can configure the advanced configuration settings in this page.

- Screen Configuration.
  - Enable Energy Saving
  - Backlight Time
- LCD Menu Password Settings.

The password is 123 by default.

- Keyboard Lock Settings.
- Configure Greeting Words

The greeting message will display on the top left corner of the LCD when the device is idle, which is limited to

16 characters. The default chars are 'VOIP PHONE'.

### 12.18 Phonebook >> Contact

User can add, delete, or edit contacts in the phonebook in this page. User can browse the phonebook and sorting it by name, phones, or filter them out by group.

To add a new contact, user should enter contact's information and press "Add" button to add it.

To edit a contact, click on the checkbox in front of the contact, the contact information will be copied to the contact edit boxes, press "Modify" button after finished editing.

To delete one or multiple contacts, check on the checkbox in front of the contacts wished to be deleted and click the "Delete" button, or click the "Clear" button with selecting any contacts to clear the phonebook. User can also add multiple contacts into a group by selecting the group in the dropdown options in front of "Add to Group" button at the bottom of the contact list, selecting 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 click "Add to Blacklist" button.

### 12.19 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, the following information should be entered,

Phonebook name (must)

Phonebook URL (must)

Access username (optional)

Access 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 device. 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 (must) LDAP Server Address (must) LDAP Server Port (must) Search Base (must) Access username (optional) Access password (optional) Note! Refer to the LDAP technical documentation before creating the LDAP phonebook and

#### phonebook server.

#### Web page preview

Phone page supports preview of Internet phone directory and contacts

- After setting up the XML Voip directory or LDAP,
- Select [Phone book] >> [Cloud phone book] >> [Cloud phone book] to select the type.
- Click the set XML/LDAP to download the contact for browsing.

	Contacts C	oud phonebook	Call List	Web	Dial	Υ	Adva	nced		
› System										
> Network	Cloud phonebook	book XML2 XM	IL3 XML4 BAC	ĸ						
Line										
Phone settings	Add to phonebook	Add to Blocked List	Add to Allowed List					Previous	Page:	✓ Next
Phonebook	Manage Cloud Pho	nebooks							10 🗸	Entries per page
Call logs	Index Cloud phone	book name Cloud	l phonebook URL	Calling Line	Search Line	Phone Typ		Authentication	Name	Authentication Passwor
	1 cloud book	http://1)	2.16.66.59:8081/100	AU 🗸	AU 🗸		~			
Function Key	2	<u> </u>		AU 🗸	AU 🗸	XML	×		1	
	3				AU 🗸	Concernance of the second	~			
Application	4			AU 🗸	AU 🗸	XML	~			
					Apply					
Security	Import XML Conta	ct								
		Select File:					Sele	ect Up	load	
Device Log	Business Card Sett					]				
	Display Busines	s Card Popup: D	isabled 🛩							
	display attribut	e:								
					Apply					

Picture 134 - Web cloud phone book Settings

## 12.20 Phonebook >> Call List

Restricted Incoming Calls:

It is similar like 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.

### 12.21 Phonebook >> Web Dial

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

## 12.22 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.

# 12.23 Call Log

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.

# **12.24** Function Key >> Function Key

One-key transfer Settings: establish new call, blind transfer, attention-transfer, one-key three-party, Play DTMF.

The device provides 2 user-defined shortcuts that users can configure on a web page.

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.

#### Table 31 - Function Key configuration

Line	It can be configured as a Line Key. User is able to make a call by pressing Line Key.
Koy Event	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.
Configure the multicast address and audio codec. User presses the key to	
	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.

# 12.25 Function Key >> Side Key

Side Key is a Key on both sides of the screen that functions as a shortcut Key. The default configuration is line Key, which can be customized in the webpage. For Side Key function and Settings, please refer to <u>12.24</u> <u>Function Key</u> Settings.

# 12.26 Function Key >> Softkey

The User Settings mode and display style, display page.

Parameter	Description
Softkey Mode	
Softkey mode	Disabled and More,Default is Disabled
Softkey Style	
Softkey display style	Softkey Exit on Left or Right
Screen	
	Redial/2aB/Delete/Exit/Call Back/Dial/Join/MWI/Local Contacts/Pickup/Call
Call Dialer	Log/Missed/Clear/In/Dialed/Pause/ Next line/Prev
	line/Headset/Audio/Video/Remote XML/DSS Key
Conference	Hold/Split/End/Release/Mute/DSS Key/Headset
	Call Log/Menu/Local Contacts/DND/Prev Account/Next Account/Blacklist/Call
Desktop	Back/Call Forward/Locked/Memo/
Desklop	Missed/MWI/Dialed/Reboot/Redial/Remote XML/SMS/
	Headset/Status/DSS Key/In
	Redial/2aB/Delete/Exit/Forward/Local Contacts/Call Log
Divert Dialed	/Clear/Missed/Dialed/Headset/Video/Audio/Remote XML
	/DSS Key
Ending	Redial/End/Headset/Release/DSS Key
Predictive Dialer	Dial/2aB/Delete/Exit/Call Back/Local Contacts/Redial

#### Table 32 - Softkey configuration

r	
	/Pickup/MWI/Join/Call Log/Release/Missed/Pause/Dialed/
	Headset/Video/Audio/Remote XML/DSS Key/In/Next line
	/Prev line
Ringing	Answer/Forward/Reject/Mute/Release/Headset/Video/Audio/DSS key
	Hold/Transfer/Conference/End/Mute/Release/New Call/
Talking	Local Contacts/Listen/Call Log/Next call/Prev call/
	Private/Headset/Video/Audio/DSS Key
Transfer Alerting	End/Transfer/Headset/Release/DSS Key
	Redial/Delete/Exit/2aB/Dial/Local Contacts/Transfer/
Transfer Dialer	Call Log/Clear/Missed/Dialed/Pause/Headset/Video/Audio/Remote XML/DSS
	Кеу
Trying	End/Release/Headset/DSS Key
	Hold/Transfer/Conference/End/Answer/Forward/Mute/Next call/New call/Prev
Waiting	call/Reject/Release/Headset/Listen/
	Video/Audio/DSS Key

# 12.27 Function Key >> Advanced

One key transfer: for example, set the memory key 4370. Press the memory key when talking with 4374 to decide whether to call 4370 or transfer 4374 to 4370.

Select memory key function: for example, the phone set the memory key value to 4370. When 4370 calls, press this key to hold the call or hang up.

Global Key Settings

Select MemoryKey Action:	None 🗸 🕜	Display Parked Info:	Display Blank	~
Hide the dsskey Icon:				

Picture 135 - Global Key Settings

#### Programmable key Settings

Please refer to the Table 25 Softkey configuration

# 12.28 Application >> Manage Recording

See <u>9.3 Record</u> for details of recording.

# 12.29 Security >> Web Filter

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

	Web Filter Trust Certificates De	vice Certificates Firewall	
> System			
Network	Web Filter Table		
	Start IP Address Web Filter Table Settings	End IP Address	Option
Line			
Phone settings	Start IP Address	End IP Address	Add
Phonebook	Web Filter Setting		
Call logs	Enable Web Filter	Apply	
Function Key			
Application			
Security			
Device Log			

Picture 136 - Web Filter settings

End IP Address	Option
	Modify
	192.168.254.254

#### Picture 137 - Web Filter Table

Adding and removing IP segments are accessible. Configure the starting IP address within the start IP, end the IP address within the end IP, and click [**Add**] to submit 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, select the initial IP of the network segment to be deleted from the drop-down menu, and then click [**Delete**] to take effect. Enable web page filtering: configure enable/disable web page access filtering; Click the "apply" button to take effect.

Note: if the device you are accessing is in the same network segment as the phone, please 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.

# 12.30 Security >> Trust Certificates

Set whether to open license certificate and general name validation, select certificate module. You can upload and delete uploaded certificates.

	Web Filter	Trust Certificates	s Device Certificates	Firewall			
> System							
> Network	Permission Ce	rtificate					
› Line		Certificate Iame Validation	Disabled Disabled	~			
> Phone settings	Certificate	mode	All Certificates	~			
> Phonebook	Import Certifi	cates	Apply				
› Call logs	Load Serve	er File		Select	Upload		
Function Key	Certificates Li	st					
Application	Index	File Name	Issued To		Issued By	Expiration	File Size
> Security							
> Device Log							

Picture 138 - Certificate of settings

# 12.31 Security >> Device Certificates

Select the device certificate as the default and custom certificate.

You can upload and delete uploaded certificates.

Device Certificates 🕜				
Device Certificates	Default Certificates	(existence)		
	Default Certificates			
	Custom Certificates			
Import Certificates 🕜				
Import Certificates 🥝 Load Server File		Select Upload		
		Select Upload		
Load Server File	Issued To	Select Upload Issued By	Expiration	File Siz

Picture 139 - Device certificate setting

# 12.32 Security >> Firewall

	Web Filter Trust Certificates Device Certificates Firewall
3 System	
> Network	Firewall Type Enable Input Rules:  Enable Output Rules:  Enable Output Rules:
> Line	Apply
> Phone settings	Firewall Input Rule Table Index Deny/Permit Protocol Src Address Src Mask Src Port Range Dst Address Dst Mask Dst Port Range
> Phonebook	Firewall Output Rule Table
> Call logs	Index Deny/Permit Protocol Src Address Src Mask Src Port Range Dst Address Dst Mask Dst Port Range
› Function Key	Firewall Settings       Input/Output     Input v       Src Address     Dst Address
> Application	Deny/Permit Deny V Src Mask Dst Mask Add
> Security	Protocol UDP V Src Port Range Dst Port Range
> Device Log	Rule Delete Option       Input/Output     Index To Be Deleted       Delete

#### Picture 140 - Network firewall Settings

The user can set whether to enable the input through this page, output firewall and set the firewall input and output rules. Using these Settings can prevent some malicious network access, or restrict internal users access to some resources of the external network, which can improve security.

Firewall rule set is a simple firewall module. This feature 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 four types of filtering protocols: TCP   UDP   ICMP   IP.
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.
Src Mask	Is the source address mask. When configured as 255.255.255.255, it

#### Table 33 - Network Firewall

	means that the host is specific. When set as 255.255.255.0, it means that a
	network segment is filtered.
	Is the destination address mask. When configured as 255.255.255.255, it
Dst Mask	means the specific host. When set as 255.255.255.0, it means that a
	network segment is filtered.

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

Index	Deny/Permit	Protocol	Src Address	Src Mask	Src Port Range	Dst Address	Dst Mask	Dst Port Rang
1	deny	udp	192.168.1.0	192,168,1,154	0-9	255.255.255.0	255.255.255.0	0-9

Picture 141 - Firewall Input rule table

Then select and click the button [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.

Delete

Picture 142 - Delete firewall rules

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

# 12.33 Device Log >> Device Log

You can grab the device log, and when you encounter an abnormal problem, you can send the log to the technician to locate the problem. See <u>13.6 Get log information</u>.

# **13 Trouble Shooting**

When the phone is not in normal use, the user can try the following methods to restore normal operation of the phone or collect relevant information and send a problem report to technical support mailbox.

## **13.1 Get Device System Information**

Users can get information by pressing the [**Menu**] >> [**Status**] option in the phone.The following information will be provided:

The network information

Equipment information (model, software and hardware version), etc.

### **13.2 Reboot Device**

Users can reboot the device from soft-menu, [Menu] >> [Basic] >> [Reboot System], and confirm the action by [OK]. Or, simply remove the power supply and restore it again.

## 13.3 Reset Device to Factory Default

Resetting Device to Factory Default will erase all the user's configuration, preference, database and profiles on the device and restore the device back to the state as factory default.

To perform a factory default reset, user should press [Menu] >> [Advanced], and then input the password to enter the interface. Then choose [Factory Reset] and press [Enter], and confirm the action by [OK]. The device will be rebooted into a clean factory default state.

### 13.4 Screenshot

If there is a problem with the phone, the screenshot can help the technician locate the function and identify the problem. In order to obtain screen shots, log in the phone webpage [**System**] >> [**Tools**], and you can capture the pictures of the main screen and the secondary screen (you can capture them in the interface with problems).

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

Picture 143 - Screenshot

## 13.5 Network Packets Capture

Sometimes it is helpful to dump the network packets of the device for issue identification. To get the packets dump of the device, user needs to log in the device web portal, open page [**System**] >> [**Tools**] and click [**Start**] in "Network Packets Capture" section. A pop-up message will be prompt to ask user to save the capture file. User then should perform the relevant operations such as activating/deactivating line or making phone calls and click [**Stop**] button in the web page when operation finished. The network packets of the device during the period have been dumped to the saved file.

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

Picture 144 - Web capture

User may examine the packets with a packet analyzer or send it to support mailbox.

## 13.6 Get Log Information

Log information is helpful when encountering an exception problem. In order to get the log information of the phone, the user can log in the phone web page, open the page [**Device log**], click the [**Start**] button, follow the steps of the problem until the problem appears, and then click the [**End**] button, [**Save**] to local analysis or send the log to the technician to locate the problem.

## 13.7 Common Trouble Cases

#### Table 34 - Trouble Cases

Trouble Case	Solution	
	1.	The device is powered by external power supply via power adapter or
		PoE switch. Please use standard power adapter provided
		by manufacturer or PoE switch met with the specification requirements
Device could not boot up		and check if device is well connected to power source.
	2.	If you saw "POST MODE" on the device screen, the device system
		image has been damaged. Please contact location technical support to
		help you restore the phone system.
Device could not register to a	1.	Please check if device is well connected to the network. The network

service provider	Ethernet cable should be connected to the <b>I</b> [Network] port NOT	
	the 🖳 [PC] port. If the cable is not well connected to the network	
	icon [WAN disconnected] will be flashing in the middle of the	
	screen.	
	2. Please check if the device has an IP address. Check the system	
	information, if the IP displays "Negotiating…", the device does not have	
	an IP address. Please check if the network configurations is correct.	
	3. If network connection is fine, please check again your line	
	configurations. If all configurations are correct, please kindly contact	
	your service provider to get support, or follow the instructions in " <u>13.5</u>	
	Network Packet Capture" to get the network packet capture of	
	registration process and send it to manufacturer support to	
	analy manufacturer ze the issue.	
	1. Please check if Handset is connected to the correct Handset ( ) port	
No Audio or Poor Audio in	NOT Headphone (🎧) port.	
Handset	2. The network bandwidth and delay may be not suitable for audio call at	
	the moment.	
Poor Audio or Low Volume in Headphone	1. There are two Headphone wire sequence in the market. Please use the	
	Headphone provided by manufacturer, or consult manufacturer the wire	
	sequence if you wish to use a third-party headphone.	
	2. The 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.	
	Please lower down the speaker volume a little bit, the chopping will be	
	gone.	