



FW620 WiFi IP-Phone

User Guide V1.0



FIBERME Communications LLC

1749 Old Meadow Rd., Suite 401

McLean, VA 22102, USA

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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°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 Battery Warning

- To prevent the battery pack from leaking, overheating and catching fire. Please observe the following precautions:
- Soft aluminum packaging foil is easily damaged by sharp edged parts such as nickel sheets, pins and needles.
- Do not hit the battery pack with any sharp parts.
- Do not immerse the battery pack in water or seawater.
- Do not use and place the battery pack near heat sources such as fire or heaters.
- Do not reverse the positive and negative poles.
- Do not connect the battery pack to the power outlet.
- Do not throw the battery pack into fire or heat.

- Do not connect the positive and negative poles directly to metal objects such as wires, which may cause a short circuit of the battery pack.
- Do not transport and store batteries together with metal items such as necklaces and hairpins.
- Do not knock or throw the battery pack.
- Do not directly solder the battery pack or battery, and do not pierce the battery with nails or other sharp objects.
- Please use the charger configured at the time of purchase when charging.

4 Overview

4.1 Overview

FW620 is a portable Wi-Fi phone, specially designed for the wireless communication needs of mobile office; it has a business-like appearance, light and portable, suitable for one-hand holding, equipped with a belt clip, and can be used for mobile office anytime and anywhere; it has built-in dual-band 2.4G&5G Wi-Fi, supports fast roaming, and is widely used in various wireless network environments; high-quality two-way hands-free calling, supports three-way local calls; suitable for mobile office application scenarios such as small and medium-sized enterprises, shopping malls, residences, hotels, warehouses.

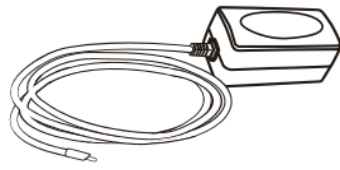
FW620 is a cost-effective portable office device that provides convenient operation while achieving environmental protection for users. It will be an ideal choice for business users and home users who pursue high quality and high efficiency.

In order to help some users who are interested to read every detail of the product, this user manual is provided as a user's reference guide. Still, the document might not be up to date with the newly release software, so please kindly download updated user manual from the vendor website, or contact with the vendor support if you have any question using FW620.

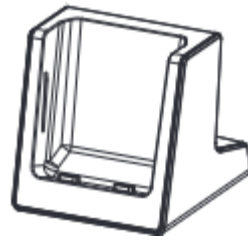
4.2 Packing Contents



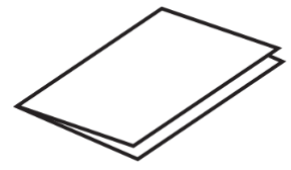
Portable Wi-Fi Phone



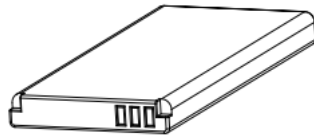
Power Adapter



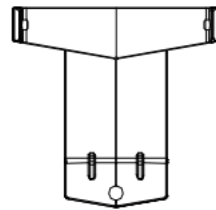
Charging Base



Quick Start Guide



Rechargeable Battery



Belt Clip

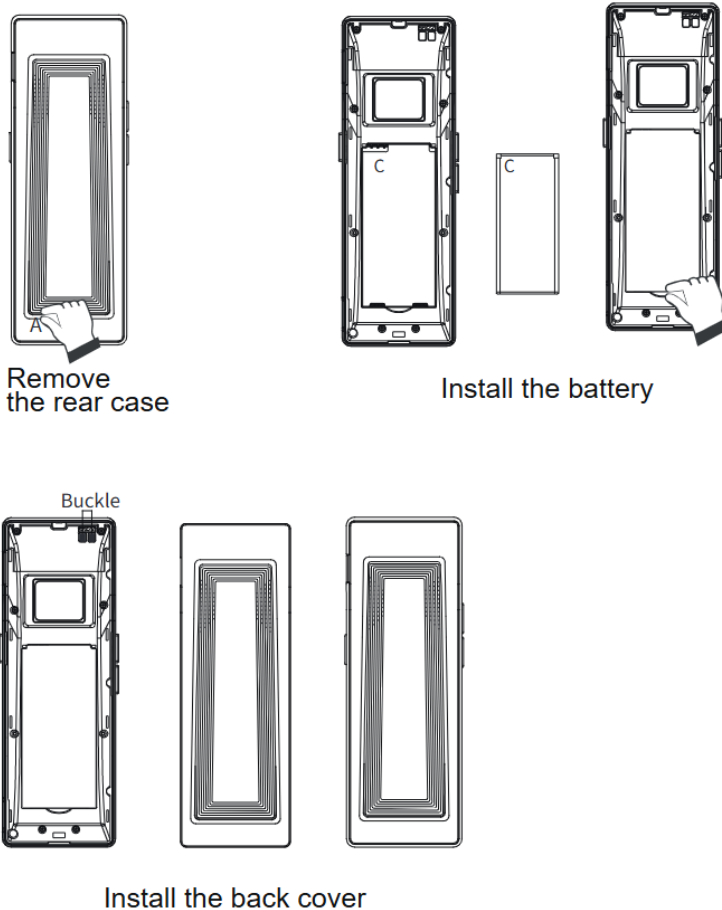
5 Desktop Installation

5.1 Install the battery

1. Removing the rear case: Remove the rear case of the whole machine with a little force from the handle position of the rear case of the main unit.

2. Install the battery: Take out the battery from the packaging box, with the battery with the notch facing up, put the battery C at the battery compartment C, and pull the battery button until it completely fits the underside of the battery.

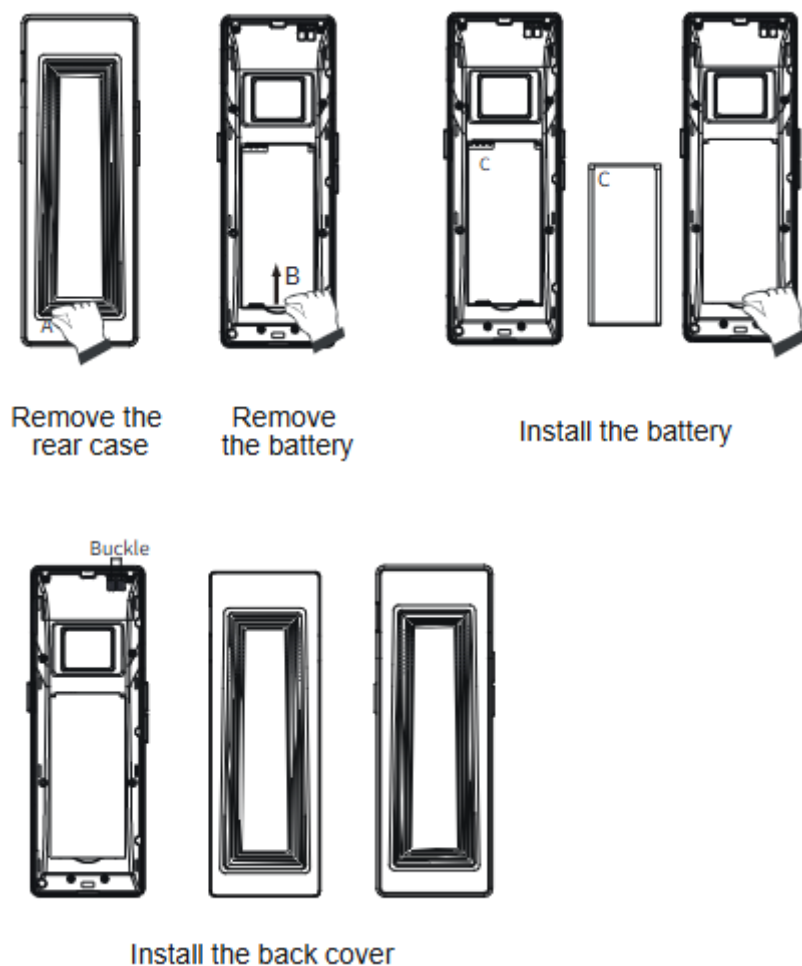
3. Install the back cover: Align the back cover with the buckle on the back of the main unit, press your hands along the edge of the main unit from top to bottom (there will be a "click" sound during the process), and ensure that there is no gap, it means that the back cover is fastened.



Picture 1 - Install the battery

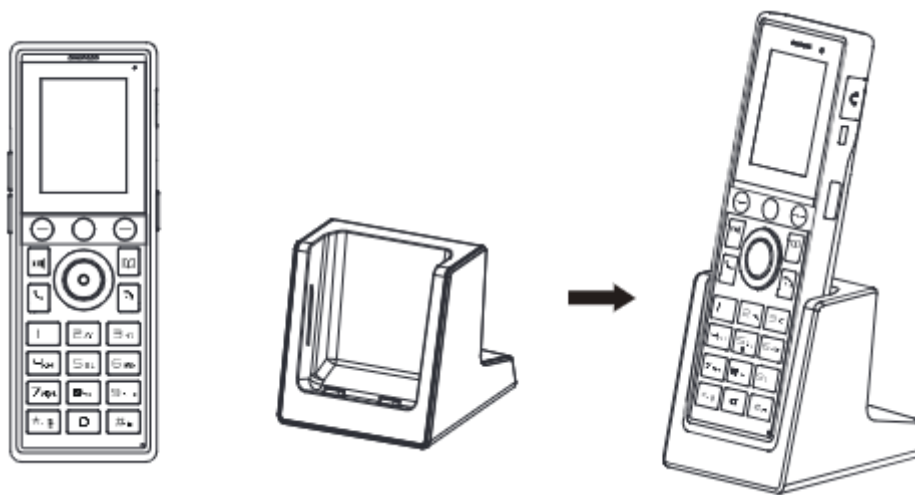
5.2 Battery Replacement

1. Remove the rear case: Remove the rear case of the whole machine with A. little force from the handle position of the rear case of the main unit.
2. Remove the battery: Pull the battery button down to remove the old battery.
3. Install the battery: Take out the battery from the packaging box, with the battery with the notch facing up, put the battery C at the battery compartment C, and pull the battery button until it completely fits the underside of the battery.
4. Install the back cover: Align the back cover with the buckle on the back of the main unit, press your hands along the edge of the main unit from top to bottom (there will be a "click" sound during the process), and ensure that there is no gap, it means that the back cover is fastened.



Picture 2 - Battery Replacement

5.3 Connect the charging base

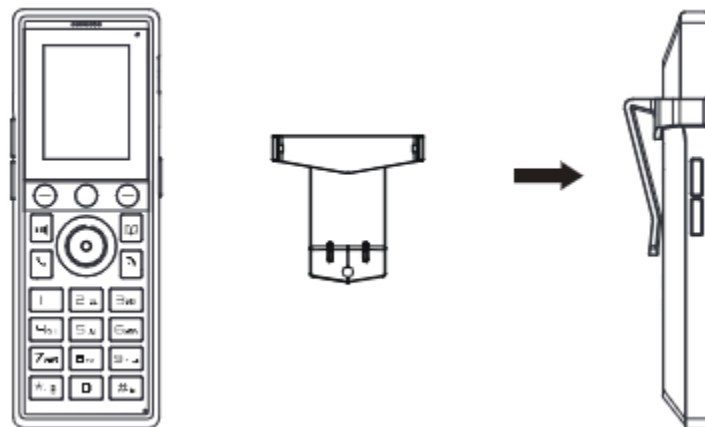


Picture 3 - Connect to the charging base

Note:

1. Use original factory supplied power adapter (5V/2A). A third-party power adapter may damage the handset.
2. Check the charging status on the top-right corner of the LCD screen.

5.4 Install the belt clip



Picture 4 - Install the belt clip

6 Appendix Table

6.1 Appendix I - Icon

Table 1 - Keypad Icons







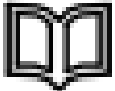





















Icon	Description
	The programmable key on the right side of the device. The default is PTT key, and can be set to function key/speed dial key, etc.
	Volume keys, in idle or ringing state: increase or decrease the ringing volume. During a call: increase or decrease the volume of the headset, handle, hands-free
	Softkeys
	Left and right navigation keys Up key, calllog shortcut key Down key, status shortcut key OK key, long press to reset
	Return to the home page; hang up the call; Enter sleep state; exit sleep state Blind transfer, attended transfer, conference attended transfer Long press to power on/off
	Dial; switch the call channel
	Phone book button
	Hands-free key, turn on/off the hands-free channel




Table 2 - Status Prompt and Notification Icons

Screen Icon	Description
	In hands-free mode
	In headset mode
	In handset mode
	Mute activated
	Silent mode
	Call is on hold
	Auto-answering activated
	Call forward activated
	Do not disturb activated (Red)
	SIP hotspot activated
	VPN activated
	Bluetooth device paired connection
	Keypad locked
	Forward call(s)
	Missed call(s)
	Received call(s)
	Dialed call(s)
	Wireless network connected

	Wireless network disconnected
	Wireless network failure

6.2 Appendix II - Keyboard character query table

Table 3 - Look-up Table of Characters

Mode Icon	Text Mode	Key Button	Characters Of Each Press
	Numeric	1	1
		2	2
		3	3
		4	4
		5	5
		6	6
		7	7
		8	8
		9	9
		0	0
		*	*.:/@[],+_-='?\" ;()<>{}#
		#	#
	Lower Case Alphabets	1	@:;()<>[]}
		2	a b c
		3	d e f
		4	g h i
		5	j k l
		6	m n o
		7	p q r s
		8	t u v
		9	w x y z
		0	(space)
		*	.,*/+:-_='?\"
		#	#^!&\$%£¥☉~¡¿§
	Upper Case Alphabets	1	@:;()<>[]}
		2	A B C

		3	DEF
		4	GHI
		5	JKL
		6	MNO
		7	PQRS
		8	TUV
		9	WZYX
		0	(space)
		*	.,*/+:-_=?\"
		#	#^!&\$%£¥☉~¡¿§
2aB	Mixed type input	1	1
		2	2 abcABC
		3	3 defDEF
		4	4 ghI GHI
		5	5 jklJKL
		6	6 mnoMNO
		7	7 pqrSPQRS
		8	8 tuvTUV
		9	9 wzyxWZYX
		0	0
		*	.*:/@[],+_-=?\" ;()<>{}
		#	#^!&\$%£¥☉~¡¿§
		Abc	Initial capital letter
2	ABCabc		
3	DEFdef		
4	GHIghi		
5	JKLjkl		
6	MNOmno		
7	PQRSpqrs		
8	TUVtuv		
9	WXYZwxyz		
0	(space)		
*	.,*/+:-_=?\"		
#	#^!&\$%£¥☉~¡¿§		

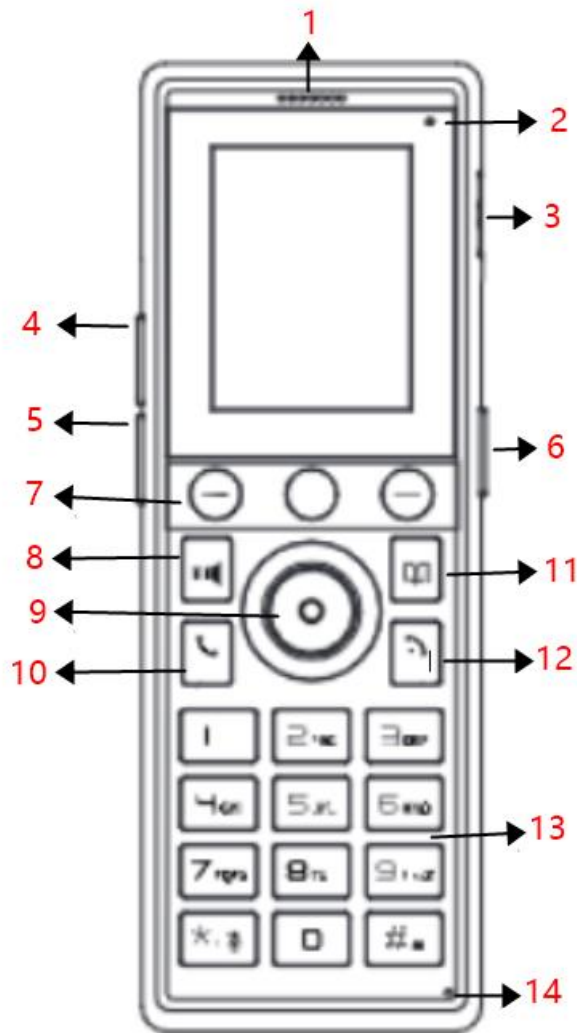
6.3 Appendix III - LED Definition

Table 4 - Status Indicator LED State

Type	LED Light	State
Status Indicator	Yellow On	Charging
	Green On	Fully Charged
	Red and Yellow Blinking alternately	Low Battery
	Yellow Breathing Blinking	Missed calls or unread messages
	Yellow Blinking Quickly	Ringling

7 Introduction to the User

7.1 Instruction of Keypad



Picture 5 – FW620 key layout

Table 5 - Instruction of Keypad of FW620

Number	The keypad names	Instruction
①	Receiver	Play sound when talking in handset mode.
②	Status Indicator	Indicates the phone's in-call and charging status.
③	Earphone jack	Plug in headset, open headset channel.
④	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.

⑤	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.
⑥	Function keys	Before configuration, short press/long press to enter the function key setting interface to configure the required function; after configuration, press to realize the corresponding function.
⑦	Function menu keys	These two buttons provide the menu functions displayed on the screen corresponding to them
⑧	Hands-free Key	The user can press this key to open the audio channel of the speakerphone.
⑨	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.
⑩	Dial key	Dial; switch the call channel
⑪	Phonebook key	Press the "Phonebook" button, the user can enter the phonebook interface, select a contact to call.
⑫	Hang up key	Return to the home page; hang up the call; Enter sleep state; exit sleep state Long press to power on/off
⑬	DTMF Key	These 12 standard phone keys provide standard phone button functionality. At the same time, certain long key presses can be triggered to provide special functions. #- Long Press the key to lock the phone (enable the keyboard lock configuration).
⑭	Microphone	Reception sound during a call.

7.2 Using Handset / Hands-free Speaker / Headset

■ Using Handset

Regarding the use of the handset, the user can press the dial key to enter the number, and then press the dial key or the "#" key; Or enter the number and press the dial key, and the number will be dialed out. When the speaker is on, the user can switch the phone's audio channel by pressing the dial key.

■ 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 Headset

In the factory settings, after inserting headset, the headset channel is turned on by default. When the headset is plugged in, the user can press the dial key to enter the number, and then press the dial key or "#" key; Or enter the number first and then press the dial key. The number will be dialed out and a call will be established through the headset channel. When the speaker is turned on, the user can switch the audio channel of the phone by pressing the dial key.

7.3 Power on/off operation

Shutdown Operation

- Hard shutdown: long press the red on-hook button  until shutdown.
- Soft shutdown: long press the red on-hook button  to pop up the shutdown window, choose Yes to shut down.
- Automatic shutdown when low battery: When the battery is about to run out, it will prompt "low battery". The phone automatically shuts down when the battery runs out.

Reboot

- Go to Menu > Basic > Reboot System, and select OK to confirm reboot.

Boot Operation

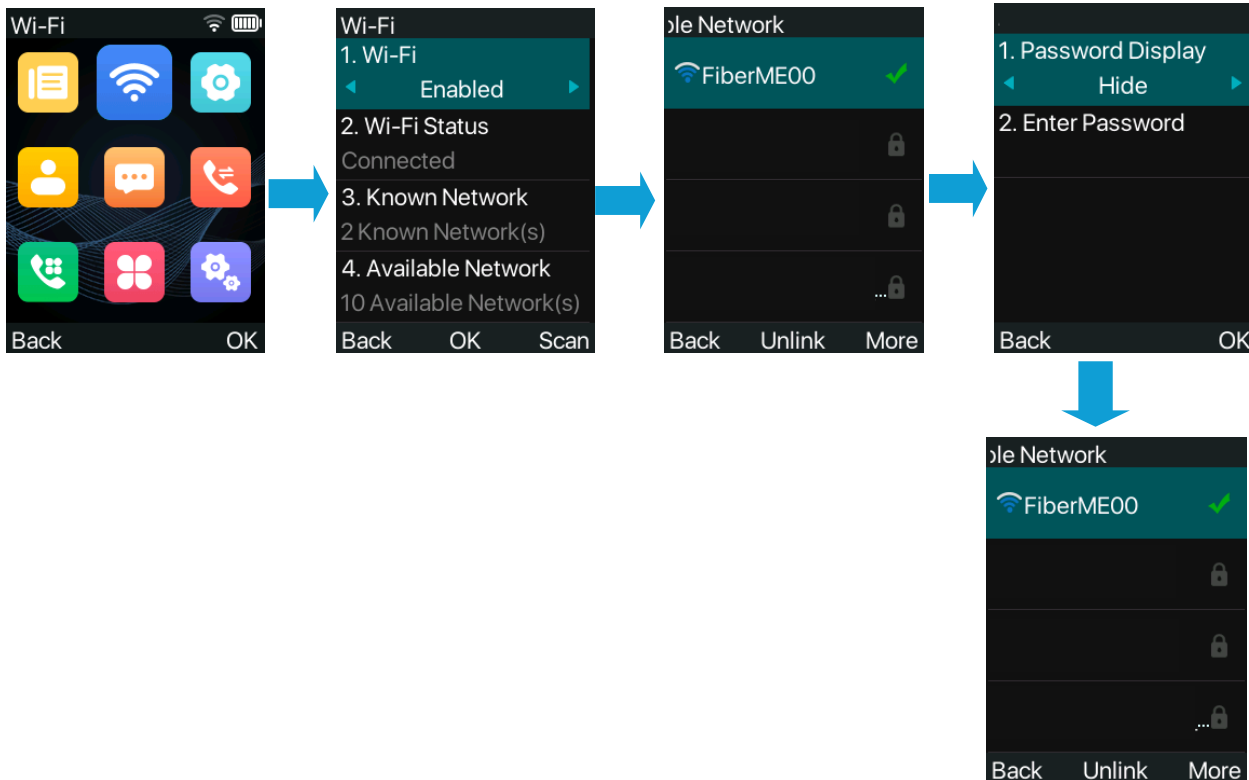
- Press the red on-hook button until it turns on.□□

7.4 Connection Wi-Fi

Users can connect to Wi-Fi through the device or the web.

Device side

1. Enter [Menu] >> [WLAN], and enable the WLAN.
2. Select the Available Network and click to enter.
3. Select a Wi-Fi network from the Wi-Fi list, click Connect, and enter the password. You can choose whether to show the password by selecting Hide and Display.
4. After clicking OK, the Wi-Fi connection will be successful, and the corresponding Wi-Fi will display ✓ if the network is available.

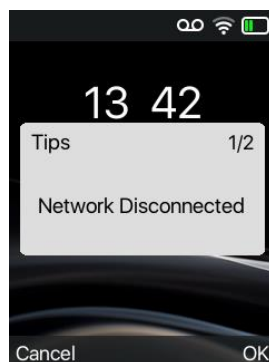


Picture 6 - Wi-Fi connection on the LCD

Quick connection to the Wi-Fi

When the network is not connected, there are several situations:

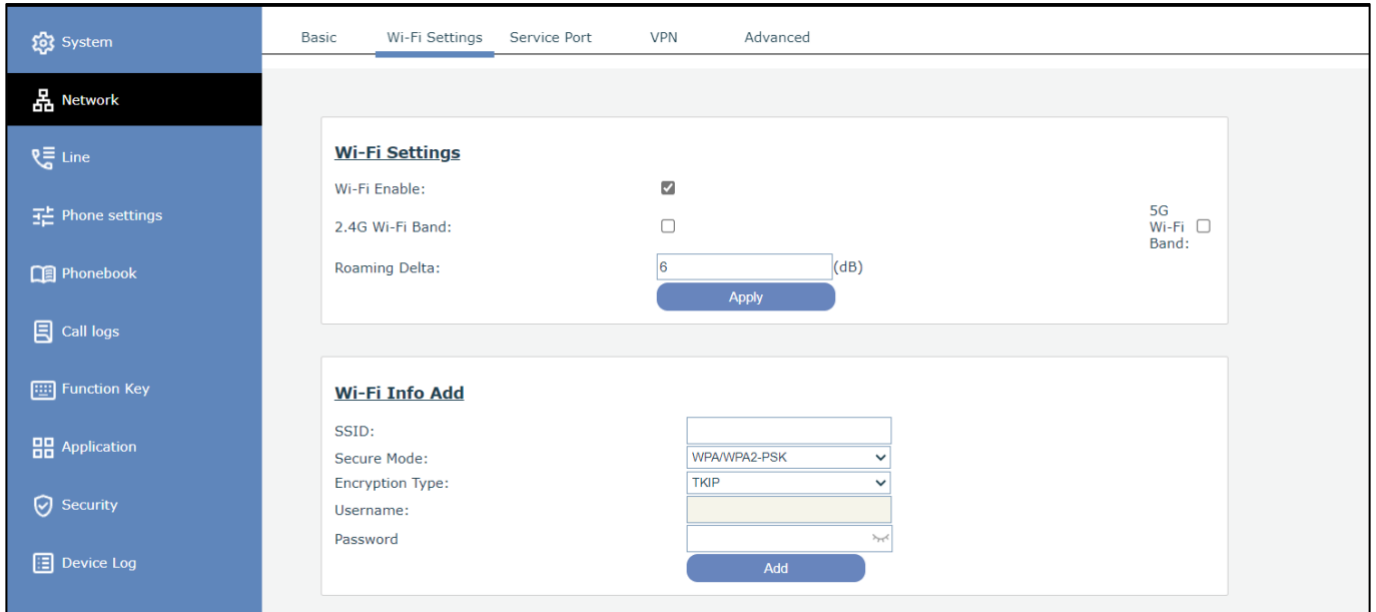
- Wi-Fi Open Unconnected- -> Wi-Fi Off: prompt "Network Disconnect";
 - Cancel: Return to standby;
 - OK: Go to the Wi-Fi Settings;
- Wi-Fi open connected- -> Wi-Fi connection disconnected: prompt "IP acquisition failed";
 - Cancel: Return to standby;
 - OK: Go to the State-Network;
- Wi-Fi Open connected- -> Wi-Fi Off: two prompts, first "Network Disconnect" before "IP acquisition failure";
 - Cancel: Return to standby;
 - OK: Refer to the above two cases;



Picture 7 - Popup without Wi-Fi connection

Web Side

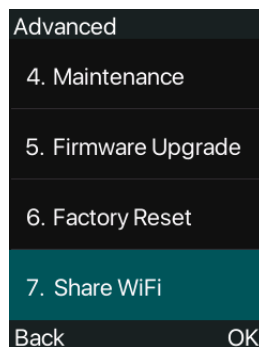
Log in to the device web page, and go to [Network] >> [Wi-Fi Settings]. Enable Wi-Fi, and configure the corresponding SSID, username and password.



Picture 8 - Web connection Wi-Fi

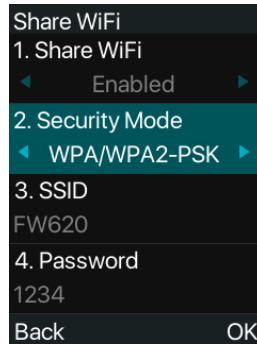
Share WIFI

1. Enter Share WIFI: Menu>Advanced>7.Share WIFI



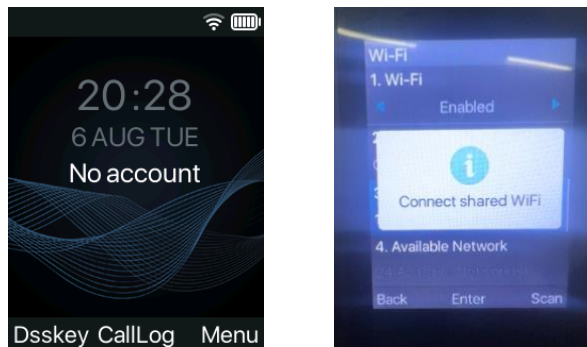
Picture 9 - Share WIFI on menu

2. Enable the Share WIFI, enter the correct SSID, Security Mode and Password. Then Press OK. On the desktop there will be “Share WIFI” icon



Picture 10 - Share WIFI Settings


3. The other phone without any known available network will receive the WIFI information shared by FW620. There will be a popup showing “Share WIFI connected”.

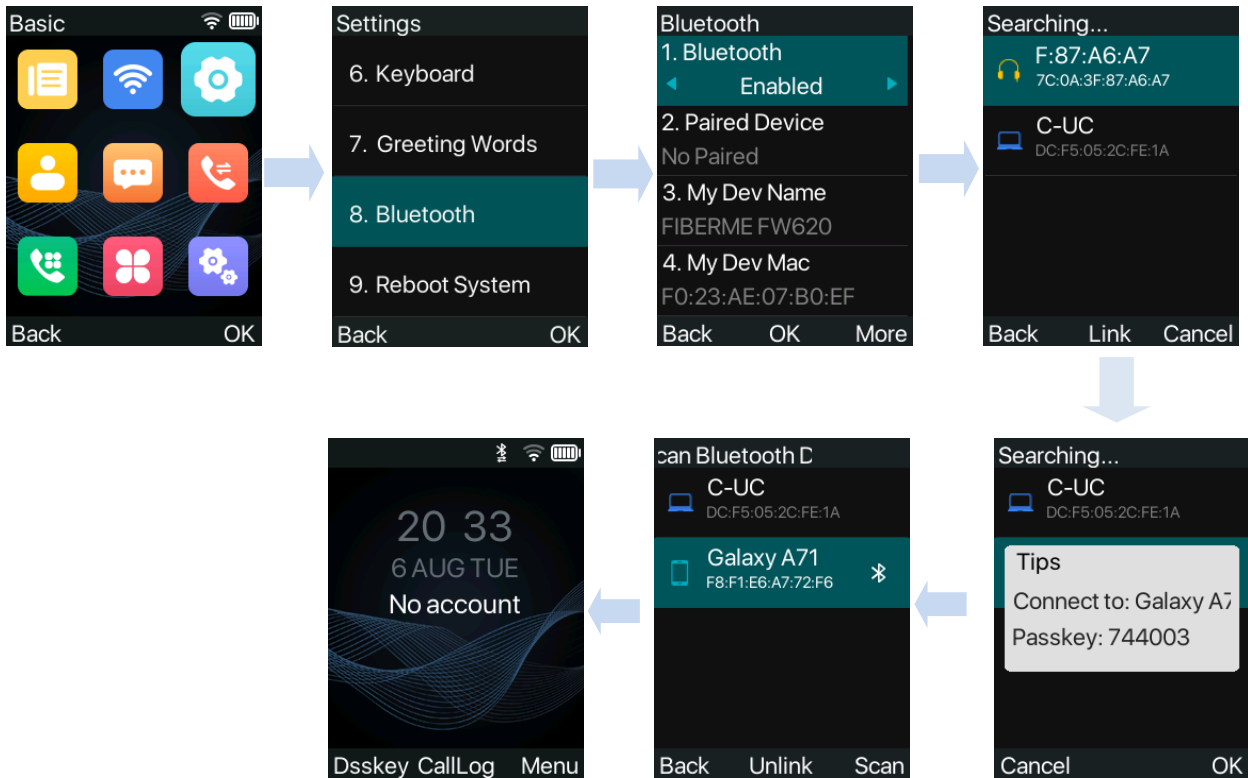


Picture 11 - Indications on LCD

7.5 Connect to Bluetooth

The method of connecting FW620 to a Bluetooth device is as follows:


1. Enter [Menu] >> [Settings] >> [Bluetooth Settings] to enable Bluetooth settings.
2. Select the paired device and press the OK button to scan for available Bluetooth devices.
3. Select a device in the Bluetooth list, click connect, the screen will prompt the pairing key.
4. After the pairing confirmation is clicked on both the corresponding Bluetooth device and FW620, the Bluetooth connection is successful.
5. After the Bluetooth is connected, the Bluetooth icon  will be displayed in the Bluetooth list. At the same time, the status bar of the standby interface will also display the Bluetooth icon.



Picture 12 - Connect to Bluetooth

7.6 Sleep State

Enter Sleep State

- When there's no operation on FW620 for more than 30s, it enters the sleep state.
- Press the red  hang up key to enter the sleep state.

Exit Sleep State

- The phone automatically exits the sleep state when there is an incoming call.
- Press any phone button to exit the sleep state.

7.7 Standby Interface




Picture 13 - Screen Layout / Default Main Interface

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

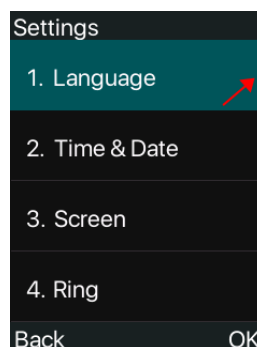
The status bar on the main screen displays the device status, information and data that can be edited (such as voice messages, missed calls, auto answer, do not disturb, locked status, network connection status, etc.).

The middle area shows the time and the registration status of the account.

The area below is the function menu buttons, which is also the first layer of the function menu buttons, through which the user can operate the phone.

The user can restore the phone to the default idle screen interface by pressing the on-hook key . Icon description is described in [6.1 Appendix I](#).

On some screens, the screen does not fully display due to too many items or too long text. They will be grouped together into a list with scroll icons. If the user sees a scroll icon, they can use the up/down navigation keys to scroll through the list.



Picture 14 - Scroll Icon

7.8 Phone Status

The phone status includes the following information about the phone:

- Network Status:
Network Mode

IP Address

SSID

BSSID

Signal Strength

- Phone Information:

WIFI MAC address

Bluetooth MAC address

Model

Hardware Version number

Software Version number

Uboot Version number

Phone Storage (RAM and ROM)

System Running Time

- SIP Account Information:

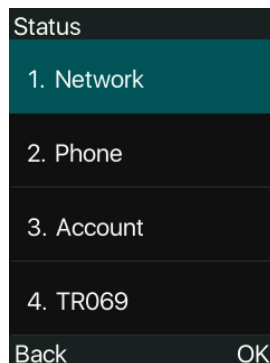
SIP Account

SIP Account Status (register / uncommitted / trying / time out)

- TR069 Connect Status (Displays only in the phone interface state)

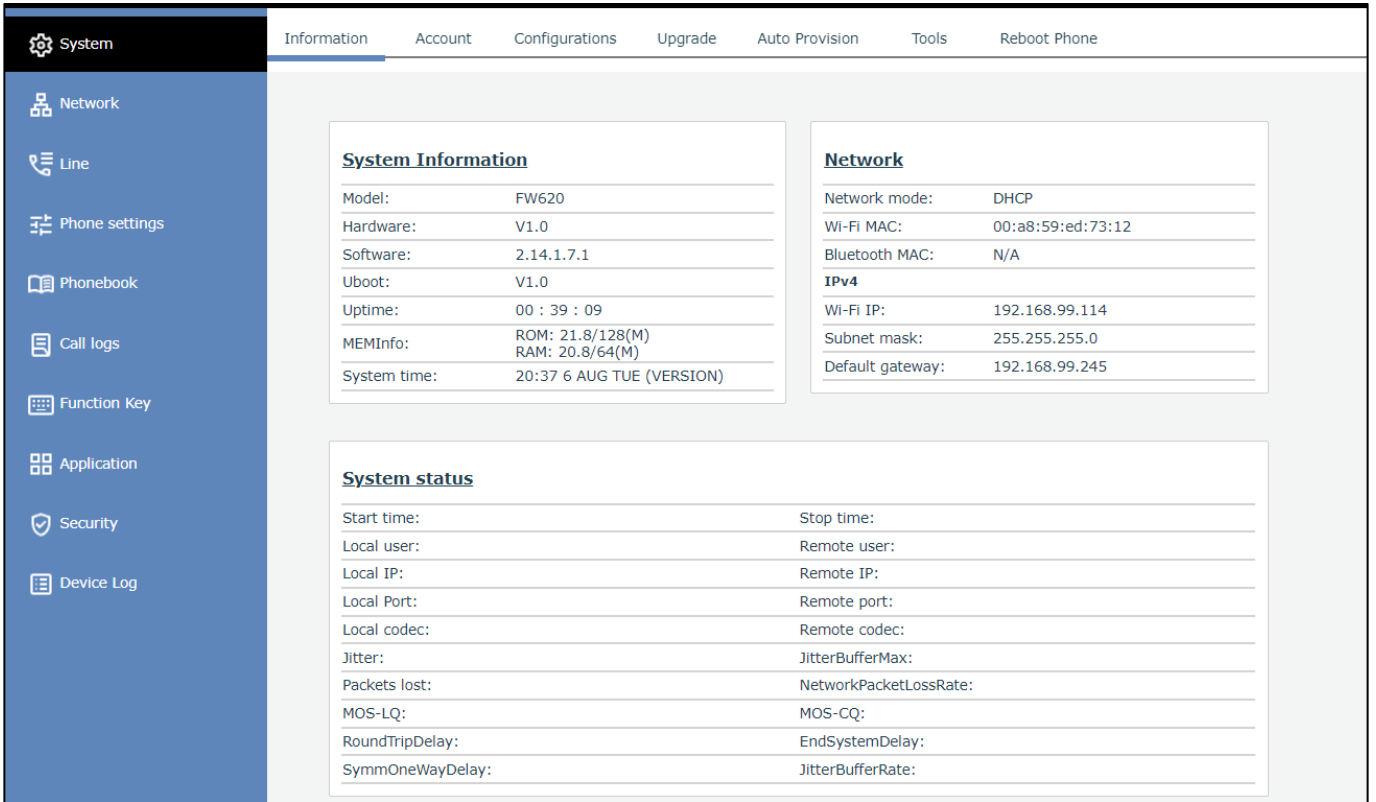
The user can view the phone status through the phone interface and the web interface.

- 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:



Picture 15 - The Phone status

- WEB interface: Refer to [7.9 Web management](#) to log in the phone page, enter the **【System】** >> **【Information】** page, and check the phone status, as shown in the figure:



Picture 16 - WEB phone status

7.9 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]** >> **[Network]**.

Open the browser, enter the phone IP, log in to the phone web page, the first thing to see is the phone landing page.



Picture 17 - 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 [11 Web configuration](#).

7.10 SIP Configurations

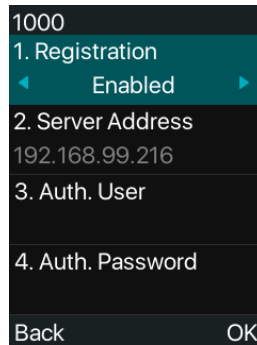
A line must be configured properly to be able to provide telephony service. The line configuration is like a virtualized SIM card on a mobile phone which stores the service provider and the account information used for registration and authentication. When the device is applied with the configuration, 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 button in the function menu **[Menu] >> [Advanced] >> [Accounts] >> [Line n]**, and click OK to save the configuration.

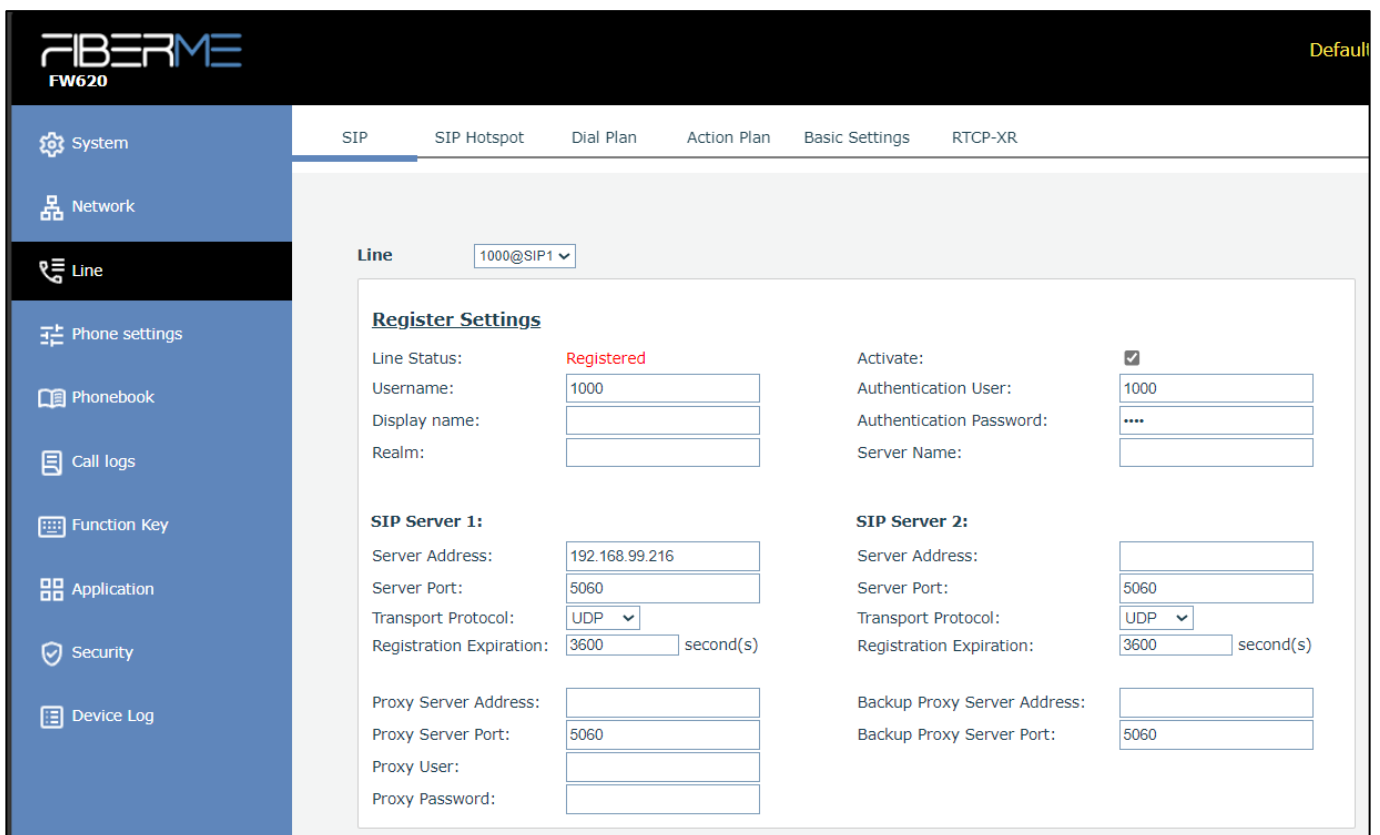
NOTICE! User must enter correct PIN code to enter the System to edit line configuration. (The default PIN is 123)

The parameters and screens are listed in below pictures.



Picture 18 - 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:



Picture 19 - Web SIP registration

8 Basic Function

8.1 Making Phone Calls

■ Default Line

The phone provides multiple 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 intermediate area. Enable or disable default line, user can press [Menu] >> [Features] >> [General] >> [Default Line] or configure from Web Interface ([Web] >> [Phone] >> [Features] >> [Basic Settings]).



Picture 20 - Default line

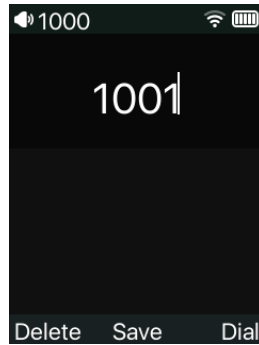
■ Dialing Methods

User can dial a number by,

- Entering the number directly
- Selecting a phone number from phonebook contacts (Refer to [10.2 Local Contact](#))
- Selecting a phone number from cloud phonebook contacts (Refer to [10.2.2 Cloud Phone Book](#))
- Selecting a phone number from call logs (Refer to [10.3 Call Log](#))
- Redialing the last dialed number


■ Dialing Number then Opening Audio

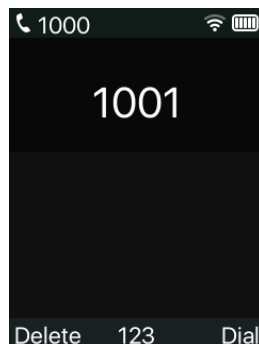
To make a phone call, user can firstly dial a number by one of the above methods. When the dialed number is completed, user can press [Dial], or press hand-free button, or user can press the dial key to call out with specified line.



Picture 21 - Enable voice channel dialing

■ Opening Audio then Dialing the Number

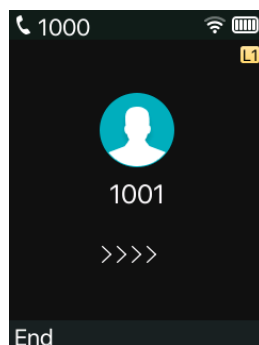
Another alternative is the traditional way to firstly open the audio channel by lifting the handset, and then press the dial key  or handsfree key, dial the number with one of the above methods. When completing the number dial, user can press [Dial] button or [OK] button to call out, or the number can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



Picture 22 - Open the voice channel and dial the number

■ Cancel Call

While calling the number, user can close the audio channel by pressing [End] or the hang up button to drop the call.





Picture 23 - 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.

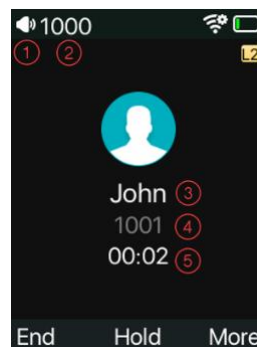


Picture 24 - Answering calls

User can answer the call by turning on the handset/headset/handsfree channel by pressing the dial key  or the handsfree key. To reject an incoming call, the user should press the hang up button .

8.2.1 Talking

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



Picture 25 - Talking interface

Table 6 - Talking mode

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	Call-to-end name	The name of the person on the other end of the call.
④	Call-to-end number	The number of the person on the other end of the call.
⑤	Call duration	The duration of a call after it has been established.

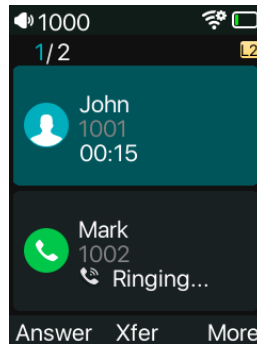
8.2.2 Make / Receive Second Call

The phone can support multiple 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 orange. 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.



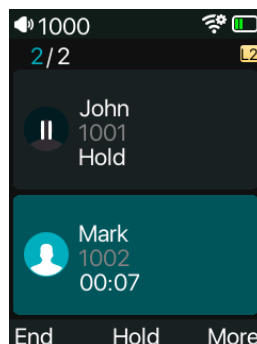
Picture 26 - The second call interface

■ **Second Outgoing Call**

To make a second call, User can press **[More]** >> **[New Call]/[Transfer]/[Conference]** button to dial the second call. 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 27 - Two calling

User can press Up/Down navigator buttons to switch screen pages, and switch calls 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

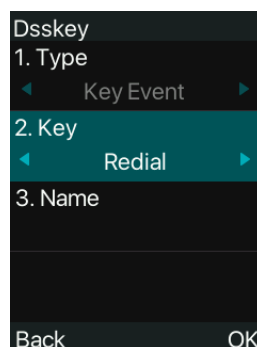
will return to single call mode in holding state. Users can also resume the current call by pressing [**Resume**].

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.

8.4 Redial

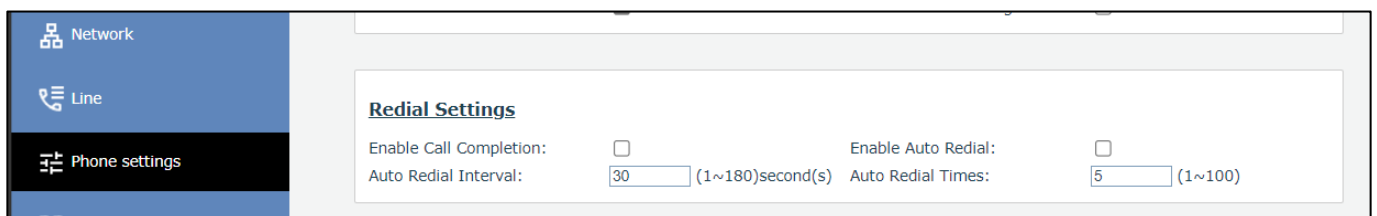
FW620 has no physical redial key, users can set the side function key as redial key when using. Setting method: In standby, press [**Menu**] >> [**Basic**] >> [**Keyboard**] >> [**DSS Key Settings**], select the function key to be set, select the type of function key for the type, and select Redial for the name of the function key. You can set the name of the callback key in the name input box, and press the [**OK**] button to save.



Picture 28 - Set redial DSS key

Redial the last outgoing number:

Press the redial key, and the phone will call out the number dialed last time.



Picture 29 - 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. 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.

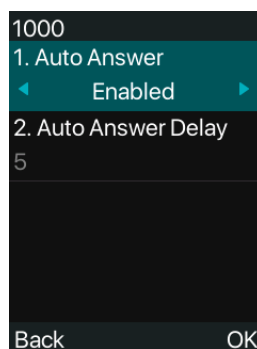
- **Phone Interface:**

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.



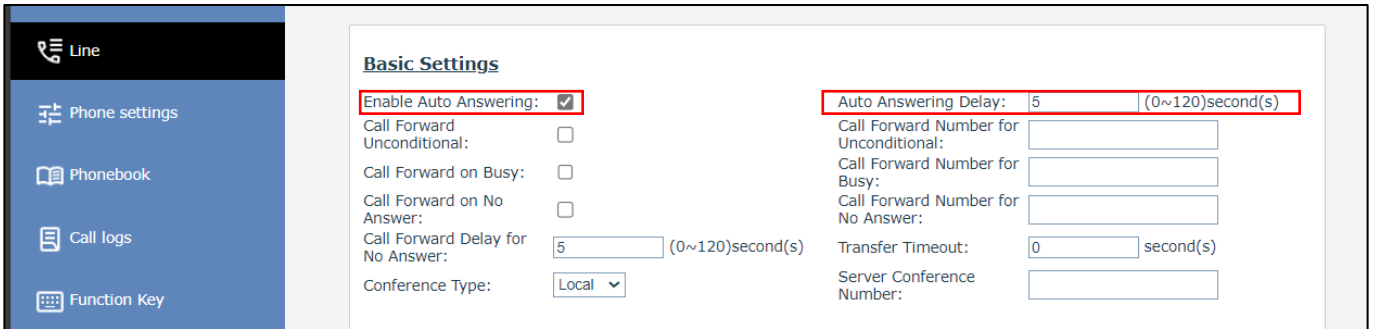
Picture 30 - Line 1 enables auto-answering



Picture 31 - 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.

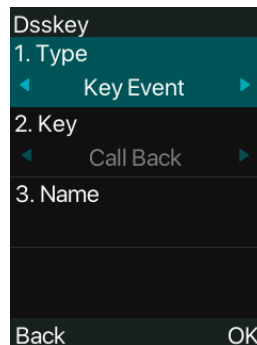


Picture 32 - Web page to start auto-answering

8.7 Callback

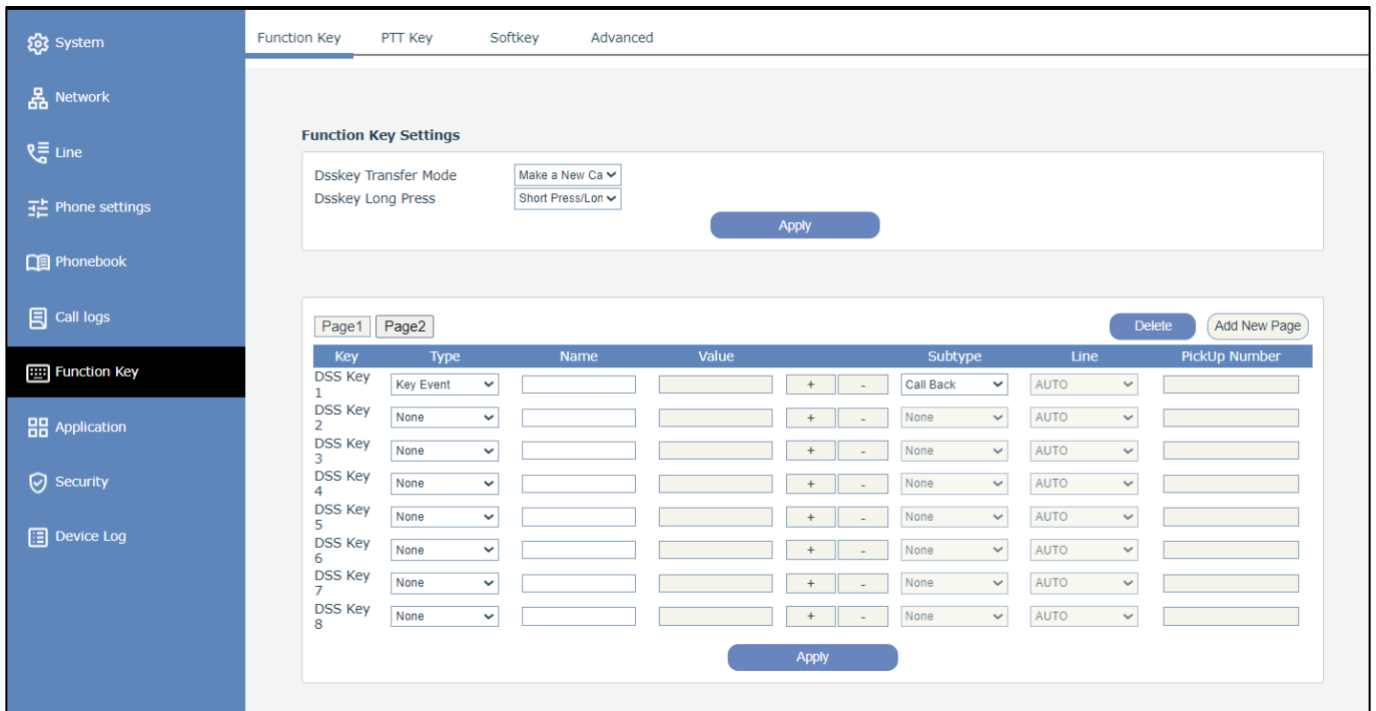
The user can dial back the number of the last call. If there is no call history, press the [**Callback**] button and the phone will say "Can't Process".

- Set the callback key through the phone interface:
Under standby, press [**Menu**] >> [**Basic**] >> [**Keyboard**] >> [**DSS key Settings**]. Choose [**Call Back**] function, input the callback key name, and press [**OK**] key to save.



Picture 33 - Set the callback key on the phone

- Set the callback key through the web interface:
Log in the phone page, enter the [**Function Key**] >> [**Function Key Settings**], select the function Key, set the type as the function Key, and set the subtype as the callback, as shown in the figure:



Picture 34 - Set the callback key on the web page

8.8 Mute

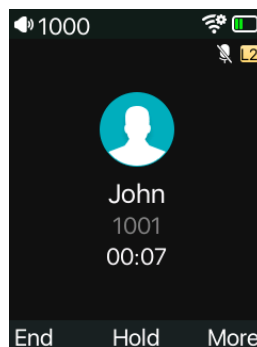
You can turn on mute mode during a call and turn off the microphone so that the local voice is not heard. Normally, mute mode is automatically turned off at the end of a call. You can also turn on mute on any screen (such as the free screen) and mute the ringtone automatically when there is an incoming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

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

8.8.1 Mute the Call

- Press **[More]** >> **[Mute]** during a call.
- Long Press **[*]** key to mute during a call.

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



Picture 35 - Mute the call

- Cancel mute: Press **[More]** >> **[Mute]** again. The mute icon is no longer displayed in the call screen.


8.8.2 Ringing Mute

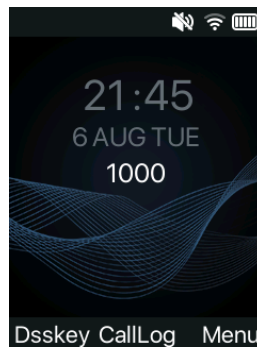
Users can set shortcut key function key as mute key: Under standby, press **[Menu]** >> **[Basic]** >> **[Keyboard]** >> **[DSS key Settings]** .Choose **[Mute]** function, input the callback key name, press **[OK]** key to save.

Mute can also be turned on/off with the volume up and down buttons.

Turn on ringing mute

- Press the mute button when the phone is in standby mode.
- Press the volume down key to mute when the phone is in standby

The top right corner of the phone shows the bell mute icon  , 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 36 - Ringing mute

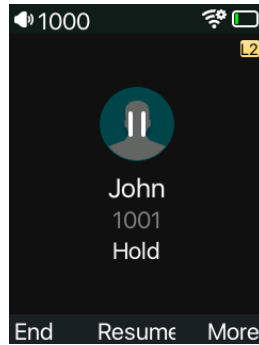
Cancel ring tone mute:

- Press the mute button when the phone is in standby mode.
- Press the volume up key to mute when the phone is in standby.

The mute icon  is no longer displayed in the upper right corner after canceling.

8.9 Call Hold/Resume

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



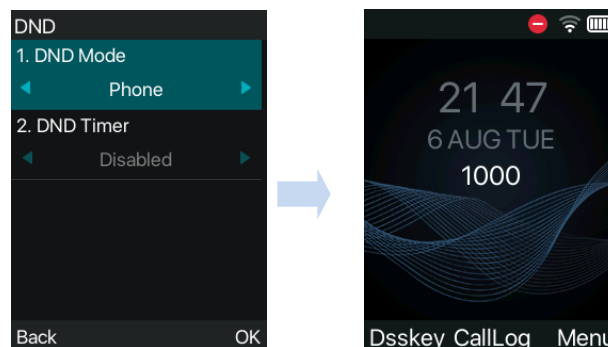
Picture 37 - Call hold interface

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.

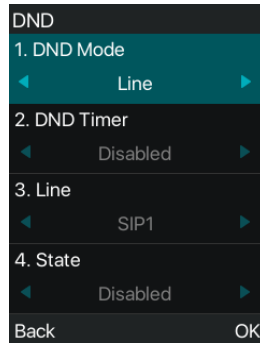
Phone user interface enable/disable DND

- Enable/Disable phone all lines DND, the methods as the following:
 - 1) Press the **[Menu]** >> **[Features]** >> **[DND]** button to enter the **[DND]** edit page.
 - 2) Use the left/right navigation keys to select the mode as **[Phone]**, and press the **[OK]** key to save after completion.
 - 3) The user will see the DND icon in the status bar, and the device has enabled Do Not Disturb Mode.



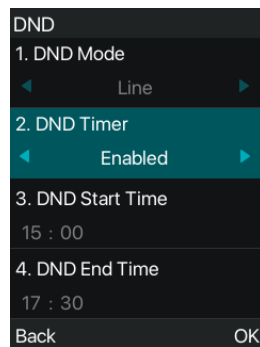
Picture 38 - Enable DND

- If the user wants to enable/disable the uninterrupted function on a specific line, the user can set the methods as the following:
 - 1) Press the **[Menu]** >> **[Features]** >> **[DND]** button to enter the **[DND]** edit page.
 - 2) Use the left/right navigation keys to select the line to adjust the DND mode and status, and press the **[OK]** button to save after completion.
 - 3) The user will see the DND icon in the status bar, and the sip-line has enabled the mode of "DND".



Picture 39 - 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.



Picture 40 - DND timer

WEB interface enable/disable DND

- After logging into the web page, enter [Phone setting] >> [Features] >> [DND settings], set the DND type (off, phone, line), and DND timing function.

DND Settings

DND Option: Phone ▼

Enable DND Timer:

DND Start Time: 15 ▼ 0 ▼

DND End Time: 17 ▼ 30 ▼

Picture 41 - 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.

Basic Settings

Enable Auto Answering:	<input type="checkbox"/>	Auto Answering Delay:	<input type="text" value="5"/> (0~120)second(s)
Call Forward Unconditional:	<input type="checkbox"/>	Call Forward Number for Unconditional:	<input type="text"/>
Call Forward on Busy:	<input type="checkbox"/>	Call Forward Number for Busy:	<input type="text"/>
Call Forward on No Answer:	<input type="checkbox"/>	Call Forward Number for No Answer:	<input type="text"/>
Call Forward Delay for No Answer:	<input type="text" value="5"/> (0~120)second(s)	Transfer Timeout:	<input type="text" value="0"/> second(s)
Conference Type:	<input type="text" value="Local"/> ▾	Server Conference Number:	<input type="text"/>
Subscribe For Voice Message:	<input type="checkbox"/>	Voice Message Number:	<input type="text"/>
Voice Message Subscribe Period:	<input type="text" value="3600"/> (60~999999)second(s)	Enable Hotline:	<input type="checkbox"/>
Hotline Delay:	<input type="text" value="0"/> (0~9)second(s)	Hotline Number:	<input type="text"/>
Dial Without Registered:	<input type="checkbox"/>	Enable Missed Call Log:	<input checked="" type="checkbox"/>
DTMF Type:	<input type="text" value="AUTO"/> ▾	DTMF SIP INFO Mode:	<input type="text" value="Send 10/11"/> ▾
Request With Port:	<input checked="" type="checkbox"/>	Enable DND:	<input type="checkbox"/>
Use STUN:	<input type="checkbox"/>	Use VPN:	<input checked="" type="checkbox"/>
Enable Failback:	<input checked="" type="checkbox"/>	Signal Failback:	<input type="checkbox"/>
Failback Interval:	<input type="text" value="1800"/> second(s)	Signal Retry Counts:	<input type="text" value="3"/> (1~10)

Picture 42 - Line DND

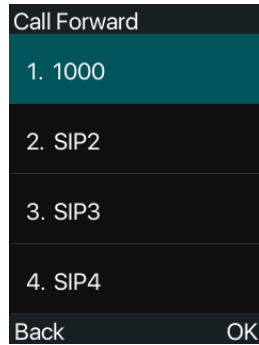
8.11 Call Forward

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.

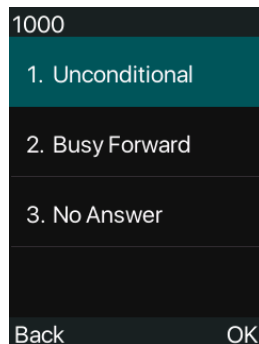
Phone interface: Default standby mode

- 1) Press **[Menu]** >> **[Features]** >> **[Call Forward]** button, select the line by up/down navigation key, press **[OK]** button to set call forward.



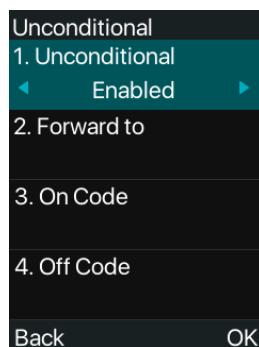
Picture 43 - Select the line to set up call forwarding

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



Picture 44 - Select call forward type

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



Picture 45 - 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.

Basic Settings

Enable Auto Answering:	<input type="checkbox"/>	Auto Answering Delay:	5 (0~120)second(s)
Call Forward Unconditional:	<input type="checkbox"/>	Call Forward Number for Unconditional:	<input type="text"/>
Call Forward on Busy:	<input type="checkbox"/>	Call Forward Number for Busy:	<input type="text"/>
Call Forward on No Answer:	<input type="checkbox"/>	Call Forward Number for No Answer:	<input type="text"/>
Call Forward Delay for No Answer:	5 (0~120)second(s)	Transfer Timeout:	0 second(s)
Conference Type:	Local	Server Conference Number:	<input type="text"/>
Subscribe For Voice Message:	<input type="checkbox"/>	Voice Message Number:	<input type="text"/>
Voice Message Subscribe Period:	3600 (60~999999)second(s)	Enable Hotline:	<input type="checkbox"/>
Hotline Delay:	0 (0~9)second(s)	Hotline Number:	<input type="text"/>
Dial Without Registered:	<input type="checkbox"/>	Enable Missed Call Log:	<input checked="" type="checkbox"/>
DTMF Type:	AUTO	DTMF SIP INFO Mode:	Send 10/11
Request With Port:	<input checked="" type="checkbox"/>	Enable DND:	<input type="checkbox"/>
Use STUN:	<input type="checkbox"/>	Use VPN:	<input checked="" type="checkbox"/>

Picture 46 - Set call forward

8.12 Call Transfer

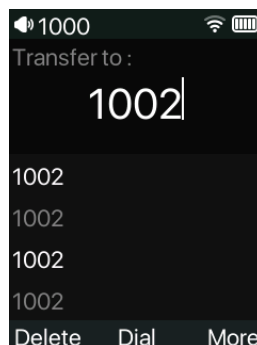
When the user is talking with a remote party and wish to transfer the call to another remote party, there are three way to transfer the call, blind transfer, attended transfer and Semi-Attended transfer.

- 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

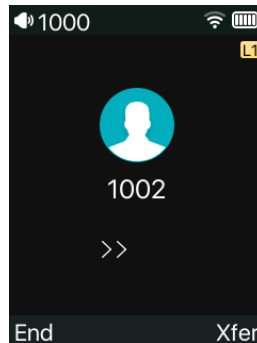
During the call, the user presses the function menu button [Xfer], Enter the number to transfer or press the contact button or the history button to select the number, press the transfer key again to a third party. After the third-party rings, the phone will show that the transfer is successful and hang up.



Picture 47 - Transfer interface

8.12.2 Semi-Attended transfer

During the call, the user presses the function menu button [transfer] 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.

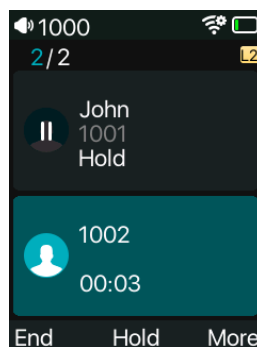


Picture 48 - Semi-Attended transfer

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.

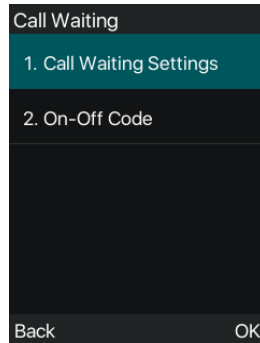
The same procedure to calling. In dual call mode, press the "transfer" button to transfer the first call to the second call.



Picture 49 - Attended transfer

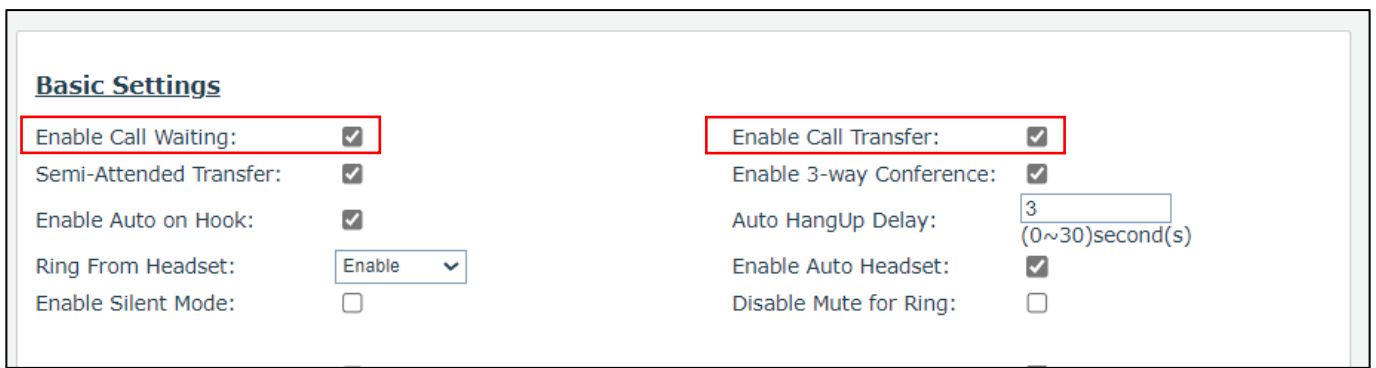
8.13 Call Waiting

- 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.

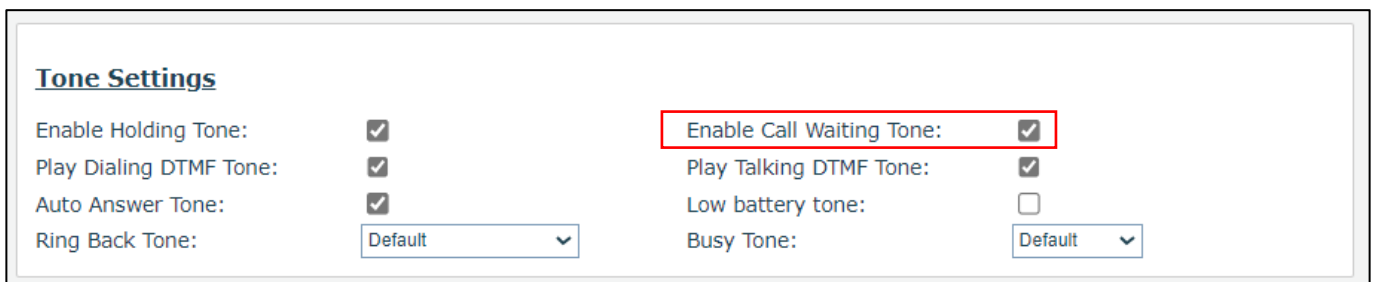


Picture 50 - Call waiting setting

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



Picture 51 - Web call waiting setting

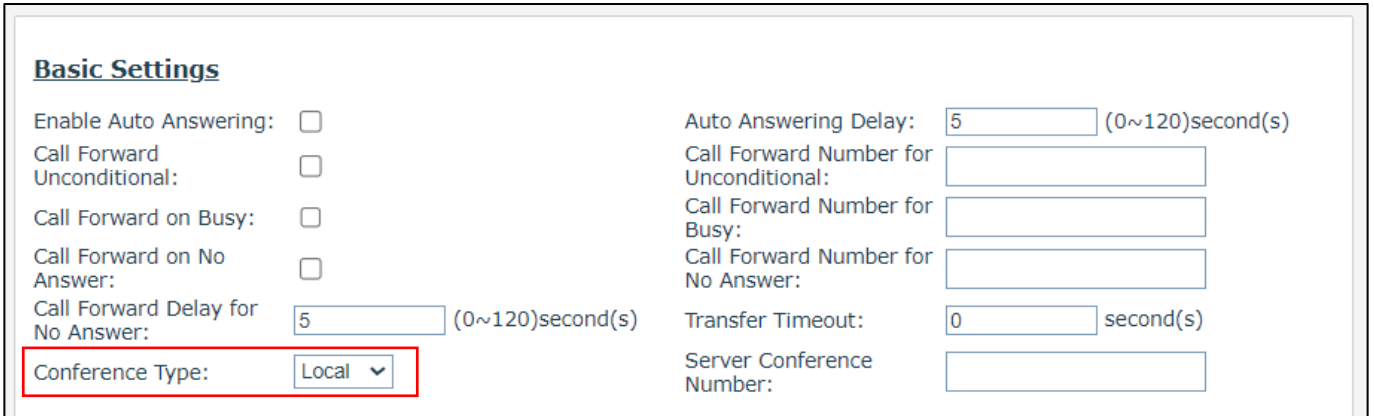


Picture 52 - Web call waiting tone setting

8.14 Conference

8.14.1 Local Conference

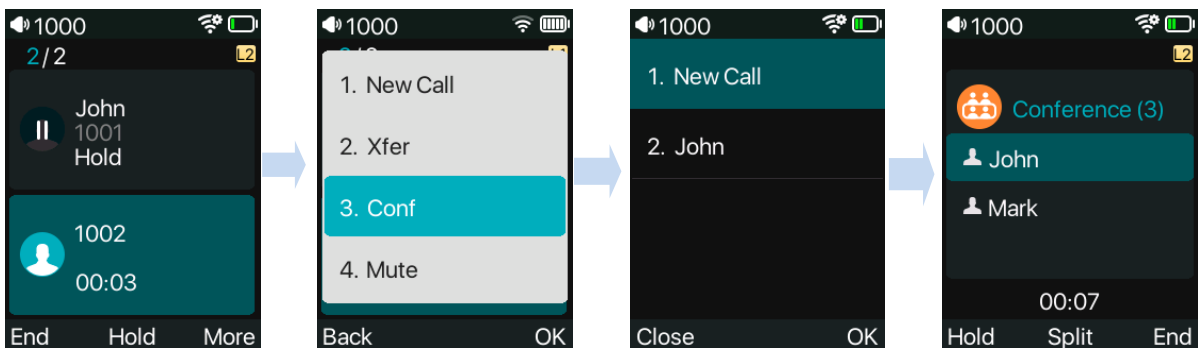
To conduct local conference, the user needs to log in the webpage and enter [Line] >> [SIP] >> [Basic settings]. The meeting mode is set as local (the default is local mode), as shown in the figure:



Picture 53 - Local conference setting

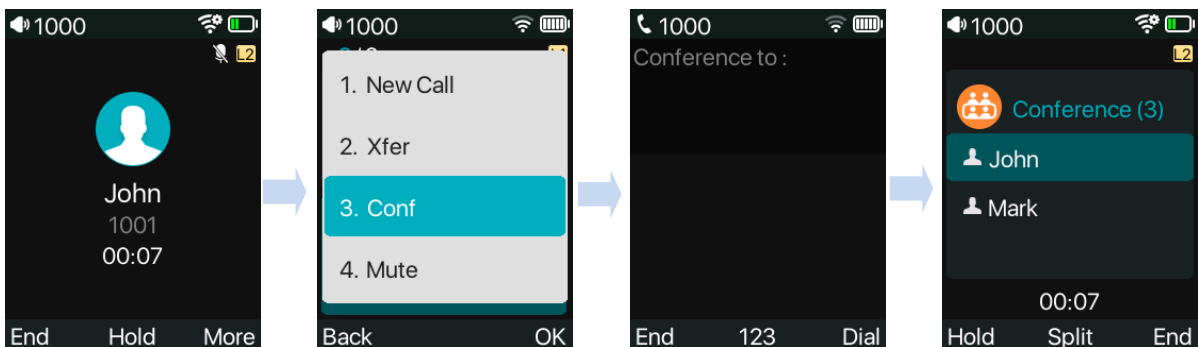
Two ways to create a local conference:

The device has two calls, press the conference button on the call interface, select another existing number when selecting the conference number, and press the confirm button to establish a local 3-way conference as shown in the figure.



Picture 54 - Local conference (1)

1) There is a call on the device, press the conference button on the call interface, enter the number to join the conference, and press the call; after the opposite end answers, press the conference button again to establish a local three-party conference. As shown in the figure:



Picture 55 - Local conference (2)

Note: During a conference, press the [Separate] key to separate the conference, and press the end key 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:

Basic Settings	
Enable Auto Answering: <input type="checkbox"/>	Auto Answering Delay: 5 (0~120)second(s)
Call Forward Unconditional: <input type="checkbox"/>	Call Forward Number for Unconditional: <input type="text"/>
Call Forward on Busy: <input type="checkbox"/>	Call Forward Number for Busy: <input type="text"/>
Call Forward on No Answer: <input type="checkbox"/>	Call Forward Number for No Answer: <input type="text"/>
Call Forward Delay for No Answer: 5 (0~120)second(s)	Transfer Timeout: 0 second(s)
Conference Type: Server	Server Conference Number: <input type="text"/>

Picture 56 - Network conference

Method to join a network conference:

- Multi-way 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.

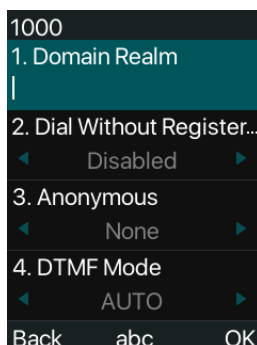
Note: the upper limit of the number of participants in the network conference varies according to the server.

8.15 Anonymous Call

8.15.1 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] >> [Advanced] >> [Accounts] >> [SIP Line] >> [Advanced].
- The default is none, which is off, and RFC3323 and RFC3325 are optional.
- Select any one to open the anonymous call.



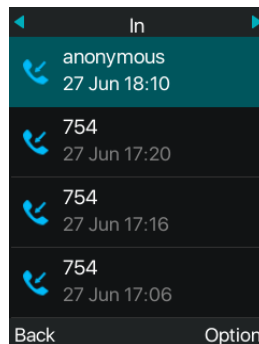
Picture 57 - Enable anonymous call

- On the web page [Line] >> [SIP] >> [Advanced Settings] 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.

User Agent:	<input type="text"/>	Specific Server Type:	COMMON ▾
SIP Version:	RFC3261 ▾	Anonymous Call Standard:	None ▾
Local Port:	6529	Ring Type:	Default ▾
Enable user=phone:	<input type="checkbox"/>	Use Tel Call:	<input type="checkbox"/>
Auto TCP:	<input type="checkbox"/>	Enable PRACK:	<input type="checkbox"/>
Enable Rport:	<input checked="" type="checkbox"/>	Call-ID Format:	\$id@\$ip

Picture 58 - Enable Anonymous web page call

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

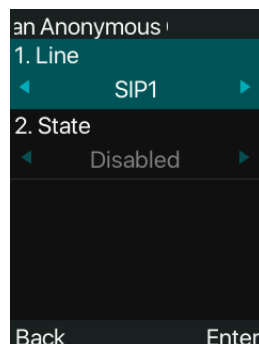


Picture 59 - Anonymous call log

8.15.2 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 60 - Anonymous calls are not allowed on the phone

- On the web page [Line] >> [SIP] >> [System], 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.

Advanced Settings

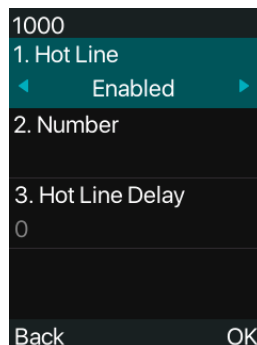
Use Feature Code: <input type="checkbox"/>		DND Disabled: <input type="text"/>	
Enable DND: <input type="text"/>		Disable Call Forward Unconditional: <input type="text"/>	
Enable Call Forward Unconditional: <input type="text"/>		Disable Call Forward on Busy: <input type="text"/>	
Enable Call Forward on Busy: <input type="text"/>		Disable Call Forward on No Answer: <input type="text"/>	
Enable Call Forward on No Answer: <input type="text"/>		Disable Blocking Anonymous Call: <input type="text"/>	
Enable Blocking Anonymous Call: <input type="text"/>		Call Waiting Off Code: <input type="text"/>	
Call Waiting On Code: <input type="text"/>		Send Anonymous Off Code: <input type="text"/>	
Send Anonymous On Code: <input type="text"/>			
Enable Session Timer: <input type="checkbox"/>		Session Timeout: <input type="text" value="1800"/> second(s)	
Enable BLF List: <input type="checkbox"/>		BLF List Number: <input type="text"/>	
Response Single Codec: <input type="checkbox"/>		BLF Server: <input type="text"/>	
Keep Alive Type: <input type="text" value="UDP"/>		Keep Alive Interval: <input type="text" value="30"/> second(s)	
Keep Authentication: <input type="checkbox"/>		Blocking Anonymous Call: <input type="checkbox"/>	
RTP Encryption(SRTP): <input type="text" value="Disabled"/>		Enable OSRTP: <input type="checkbox"/>	
Proxy Require: <input type="text"/>			

Picture 61 - Page Settings blocking anonymous call

8.16 Hotline

The device supports hotline dialing. After setting up the hotline dialing, directly pick up the handset, hands-free, Headset, 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.



Picture 62 - 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:	<input type="checkbox"/>	Voice Message Number:	<input type="text"/>
Voice Message Subscribe Period:	<input type="text" value="3600"/> (60~999999)second(s)	Enable Hotline:	<input type="checkbox"/>
Hotline Delay:	<input type="text" value="0"/> (0~9)second(s)	Hotline Number:	<input type="text"/>
Dial Without Registered:	<input type="checkbox"/>	Enable Missed Call Log:	<input checked="" type="checkbox"/>
DTMF Type:	<input type="text" value="AUTO"/>	DTMF SIP INFO Mode:	<input type="text" value="Send 10/11"/>
Request With Port:	<input checked="" type="checkbox"/>	Enable DND:	<input type="checkbox"/>
Use STUN:	<input type="checkbox"/>	Use VPN:	<input checked="" type="checkbox"/>

Picture 63 - Hotline set up on webpage

8.17 Emergency Call

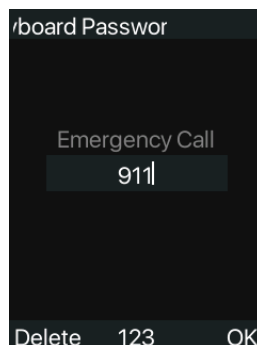
The emergency call function is used to set the corresponding emergency call number on the phone after enabling the keypad lock. You can also call emergency services when your phone is locked.

- 1) 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:	<input checked="" type="checkbox"/>	P2P IP Prefix:	<input type="text" value="."/>
Caller Name Priority:	<input type="text" value="LocalContact-NetContact-SIP DisplayName"/>	Emergency Call Number:	<input type="text" value="911"/>
Search path:	<input type="text" value="LDAP"/>	LDAP Search:	<input type="text" value="LDAP 1"/>
Caller Display Type:	<input type="text" value="Normal"/>		

Picture 64 - 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 65 - Dial the emergency number

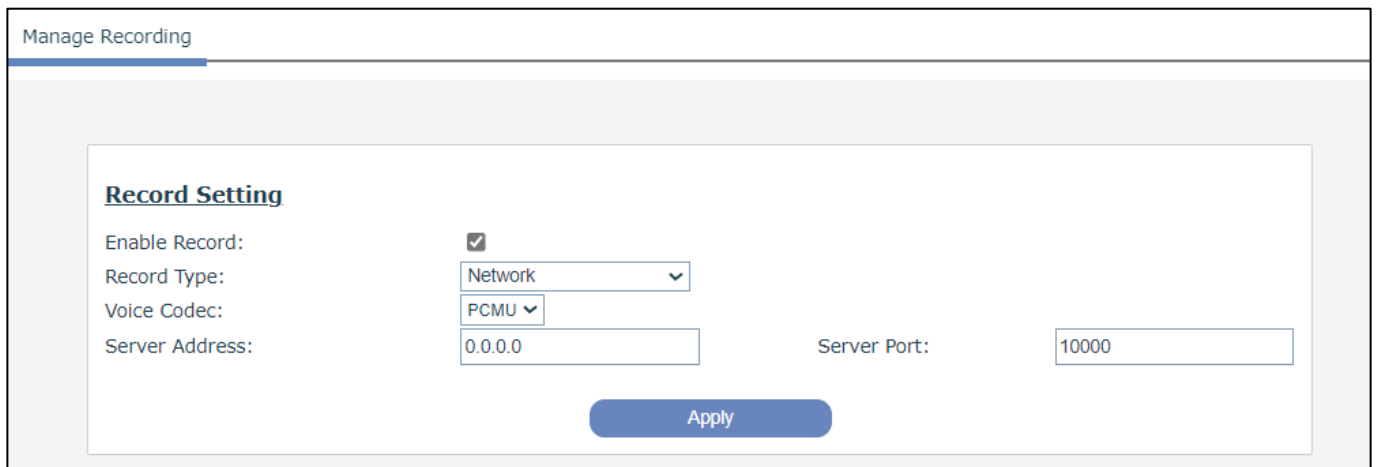
9 Advance Function

9.1 Record

The device supports recording during a call.

9.1.1 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:



The screenshot shows a web interface titled "Manage Recording". Inside, there is a section titled "Record Setting". The settings are as follows:

Enable Record:	<input checked="" type="checkbox"/>
Record Type:	Network
Voice Codec:	PCMU
Server Address:	0.0.0.0
Server Port:	10000

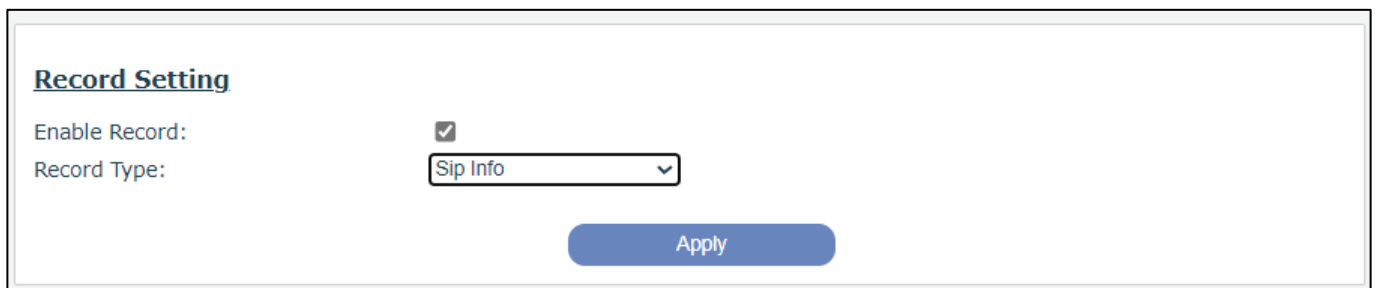
At the bottom of the settings area is a blue "Apply" button.

Picture 66 - Web server recording

Note: to be used with the recording software.

9.1.2 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] >> [Record Setting] to open the recording, and the record type is SIP INFO.



The screenshot shows a web interface titled "Record Setting". The settings are as follows:

Enable Record:	<input checked="" type="checkbox"/>
Record Type:	Sip Info

At the bottom of the settings area is a blue "Apply" button.

Picture 67 - Web SIP Info recording

9.2 Agent

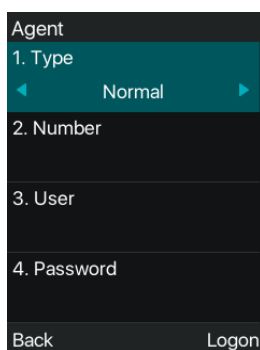
Agent (Agent function) of the phone can be realized: when multiple people use a device for Agent

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.

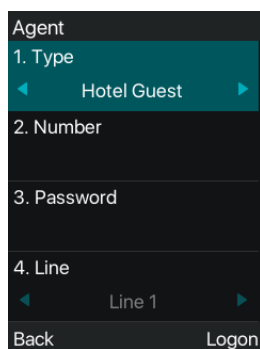
Normal Mode:

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.

Note: The password to enter the proxy configuration is the same as the menu password, the default is 123.



Picture 68 - Configure the agent account-Normal mode



Picture 69 - Configure the proxy account-Hotel Guest mode

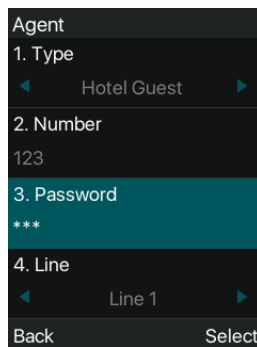
Table 7 - Agency mode

Parameter	Description
Normal mode	
Number	Set the proxy account number.
User	Set the proxy account number to verify the user’s name.
Password	Set the proxy account number to verify the password.
Line	Select the SIP line.
Hotel Guest 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.
Call Log	Users can choose to save all types, or delete.
Status	The user can select the status of the number, including Login, Logout, Unavailable, Available, and Wrap-up

Using agent functions:

- 1) When the 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's name and password, and log out of the SIP account.
- 3) Click Unregister and the phone retains the user's name and password, and logs out of the SIP account.



Picture 70 - Agent logon page

9.3 Intercom

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

<u>Intercom Settings</u>			
Enable Intercom:	<input checked="" type="checkbox"/>	Enable Intercom Mute:	<input type="checkbox"/>
Enable Intercom Tone:	<input checked="" type="checkbox"/>	Enable Intercom Barge:	<input type="checkbox"/>

Picture 71 - Web Intercom configure

Table 8 - 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 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

9.4 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.

MCAST Listening

Sip Priority: Mcast Listening Renew Time:

Enable Page Priority:

Enable Prio Chan:

Enable Emer Chan:

Index/Priority	Name	Host:port	Channel
1	<input type="text"/>	<input type="text"/>	0 <input type="button" value="v"/>
2	<input type="text"/>	<input type="text"/>	0 <input type="button" value="v"/>
3	<input type="text"/>	<input type="text"/>	0 <input type="button" value="v"/>
4	<input type="text"/>	<input type="text"/>	0 <input type="button" value="v"/>
5	<input type="text"/>	<input type="text"/>	0 <input type="button" value="v"/>
6	<input type="text"/>	<input type="text"/>	0 <input type="button" value="v"/>
7	<input type="text"/>	<input type="text"/>	0 <input type="button" value="v"/>
8	<input type="text"/>	<input type="text"/>	0 <input type="button" value="v"/>
9	<input type="text"/>	<input type="text"/>	0 <input type="button" value="v"/>
10	<input type="text"/>	<input type="text"/>	0 <input type="button" value="v"/>

Picture 72 - Multicast Settings Page

Table 9 - MCAST Parameters on Web

Parameters	Description
Normal Call Priority	Define the priority of the active call, : 1-10: Define the priority of normal calls, 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.
Enable Prio Chan	Once enabled, the same port and channel can only be connected. Channel 24 is the priority channel, higher than 1-23; A channel of 0 indicates that no channel is used
Enable Emer Chan	When enabled, channel 25 has the highest priority
Name	Listened multicast server name
Host: port	Listened multicast server's multicast IP address and port.

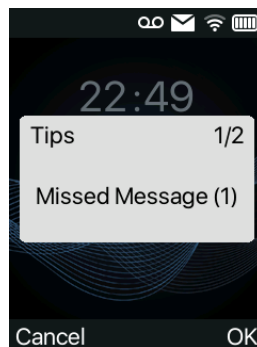
Multicast:

- 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 DSSKEY of Multicast Key which you set.
- Receive end will receive multicast call and play multicast automatically.

9.5 Message

9.5.1 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 73 - 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:

- Go to **[Menu] >> [Message] >> [SMS]**.

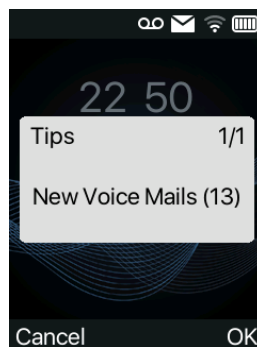
- Select **[Inbox]** to enter the SMS inbox interface.
- Select the unread message and press **[OK]** to read the unread message.

Reply to SMS:

- Go to **[Menu]** >> **[Message]** >> **[SMS]**.
- Select **[Inbox]** to enter the SMS inbox interface.
- Select the message you want to reply to, select **[Option]** >>**[Reply]**, edit it, and click Send.

9.5.2 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.



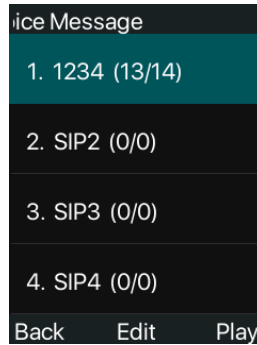
Picture 74 - New Voice Message Notification

☰ Voice message icon

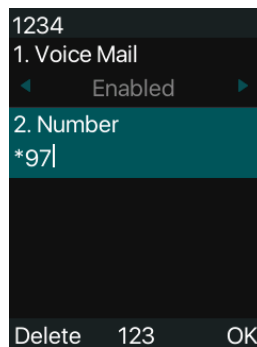
To listen to a voice message, the user must first configure the voicemail number. After the voicemail number is configured, the user can retrieve the voicemail of the default line.

When the phone is in the default standby state,

- Access **[Menu]**>>**[Message]**>> **[Voice Message]**
- 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.
- SIP1 (m/n) , “m” in front of the line brackets represents unread voice messages, and “n” represents the total number of voice messages.



Picture 75 - Voice message interface



Picture 76 - Configure voicemail number

9.6 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.

Line 1000@SIP1

Register Settings

Line Status: Registered

Username:

Display name:

Realm:

Activate:

Authentication User:

Authentication Password:

Server Name:

SIP Server 1:

Server Address:

Server Port:

Transport Protocol:

Registration Expiration: second(s)

Proxy Server Address:

Proxy Server Port:

Proxy User:

Proxy Password:

SIP Server 2:

Server Address:

Server Port:

Transport Protocol:

Registration Expiration: second(s)

Backup Proxy Server Address:

Backup Proxy Server Port:

Picture 77 - Register SIP account

Table 10 - SIP hotspot Parameters

Parameters	Description
Device Table	If your phone is set to "SIP hotspot server", Device Table will display as Client 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 a "SIP hotspot Client"
Monitor Type	Either the Multicast or Broadcast is ok. If you want to limit the broadcast packets, 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 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.

SIP Hotspot Settings

Enable Hotspot:	Enabled ▾
Mode:	Client ▾
Monitor Type:	Broadcast ▾
Monitor Address:	224.0.2.0
Local Port:	16360
Name:	SIP Hotspot

Picture 78 - 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.

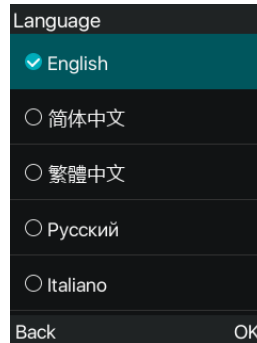
10 Phone Settings

10.1 Basic Settings

10.1.1 Language

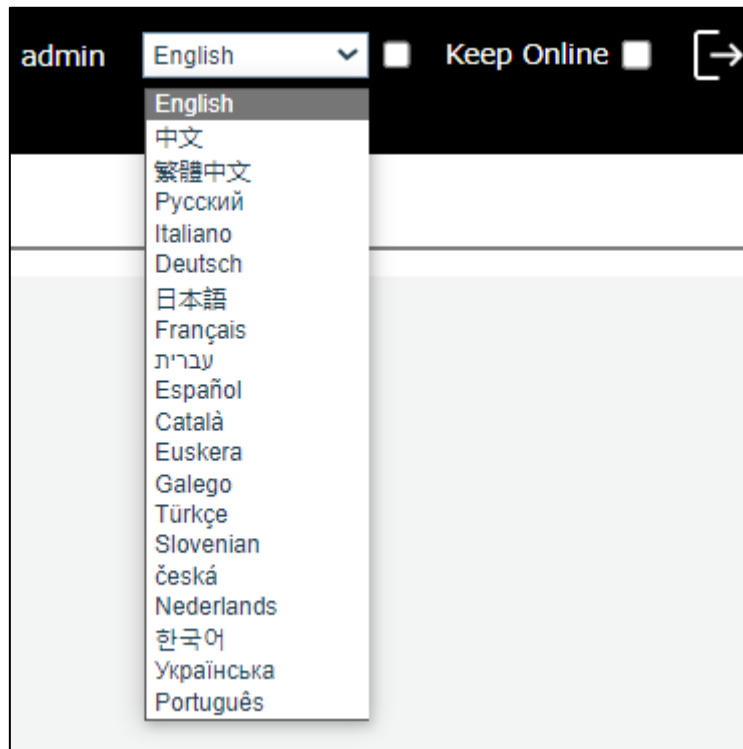
The user can set the phone language through the phone interface and web interface.

- 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 79 - 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:



Picture 80 - Language setting on Web page

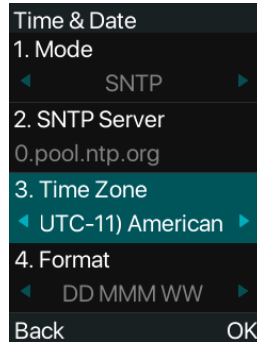
- The function box on the right side of the web interface language setting box is “Synchronize language to

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 81 - Set time & date on phone

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

Network Time Server Settings

Time Synchronized via SNTP

Time Synchronized via DHCP

Time Synchronized via DHCPv6

Primary Time Server

Secondary Time Server

Time zone

Resync Period (60~86400)second(s)

Time/Date Format

12-Hour Clock

Date Format

Date Seperator

Picture 82 - Set time & date on webpage

Table 11 - Time Settings Parameters

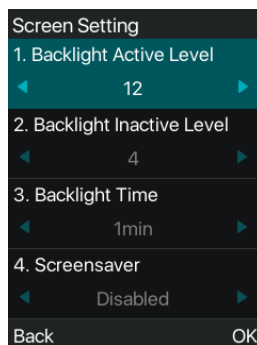
Parameters	Description
Mode	Auto/Manual

	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
Time format	Select time format from one of the followings: <ul style="list-style-type: none"> ■ 1 JAN, MON ■ 1 January, Monday ■ JAN 1, MON ■ January 1, Monday ■ MON, 1 JAN ■ Monday, 1 January ■ MON, JAN 1 ■ Monday, January 1 ■ DD-MM-YY ■ DD-MM-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 83 - Set screen parameters on phone

- Web: Go to **[Phone Settings] >> [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 to 1 min by default. You can turn it off or select 15 seconds /30 seconds/1 min/2 min/5 min/10 min/30 min/ 1 h /2h 3h /6h /15h.
- Web interface: enter [**Phone Settings**] >> [**Advanced**], edit screen parameters, and click submit to save.

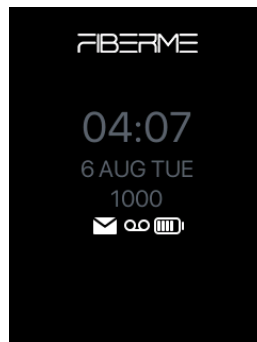
Screen Configuration

Backlight Active Level:	<input type="text" value="12"/>	(1~16)
Backlight Inactive Level:	<input type="text" value="4"/>	(0~16)
Backlight Time:	<input type="text" value="1min"/>	▼
Customer Backlight Time:	<input type="text" value="60"/>	(1~54000)second(s)
Screensaver	<input type="text" value="Enabled"/>	▼
Timeout to Screensaver:	<input type="text" value="15s"/>	▼
Customer Time Value:	<input type="text" value="15"/>	(15~21600)second(s)
Timeout to Sleep:	<input type="text" value="30s"/>	▼

Picture 84 - Page screen Settings

10.1.3.2 Screen Saver

- Press [**Screen Settings**] to find the [**Screen Saver**] button, press [**left**] / [**right**] button to open/close the screen saver, set the timeout time, the default is 15S, after completion, press [**OK**] button to save.
- After saving, return to standby mode and enter the screen saver after 15s, as follows:



Picture 85 - 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.

- Enter [Vibrate Mode], press left / right navigator keys to choose enable or disable the vibrate mode.

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,

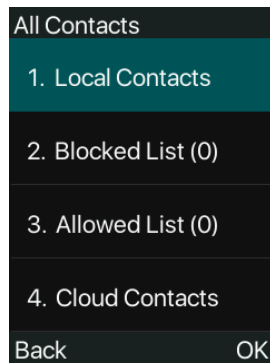
- The configurable [OK] key is the restart key. Press [OK], a prompt message, "restart now" prompts the user.
- Press [OK] to restart the phone or [Cancel] to exit.

10.2 Phone Book

10.2.1 Local Contact

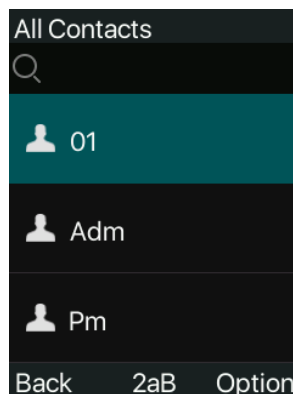
User can save contacts' information in the phone book and dial the contact's phone number(s) from the phone book. To open the phone book, user should press [Menu]>> [Contact] in the default standby screen or keypad.

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



Picture 86 - Phone book screen

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



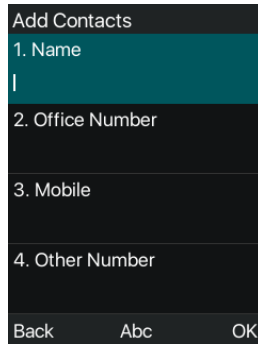
Picture 87 - Local Phone book

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



Picture 88 - Add New Contact

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

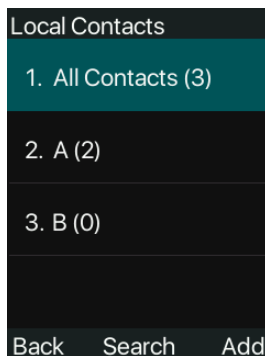
To delete a contact, user should move the record indicator to the position of the contact to be deleted, press [Option] >> [Delete] button and confirm with [OK].

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.

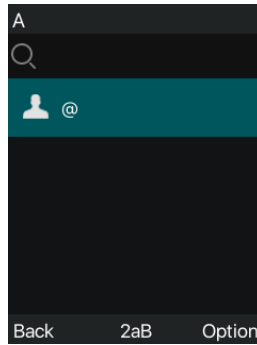
The Number behind the group name means the total contacts number of selected groups.



Picture 89 - Group List

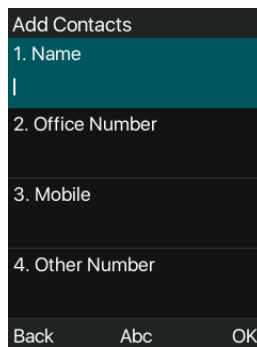
10.2.1.3 Browse and Add / Remove Contacts in Group

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



Picture 90 - 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]**.

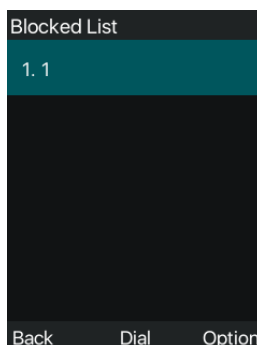


Picture 91 - Add Contacts in a Group

10.2.2 Blocked List

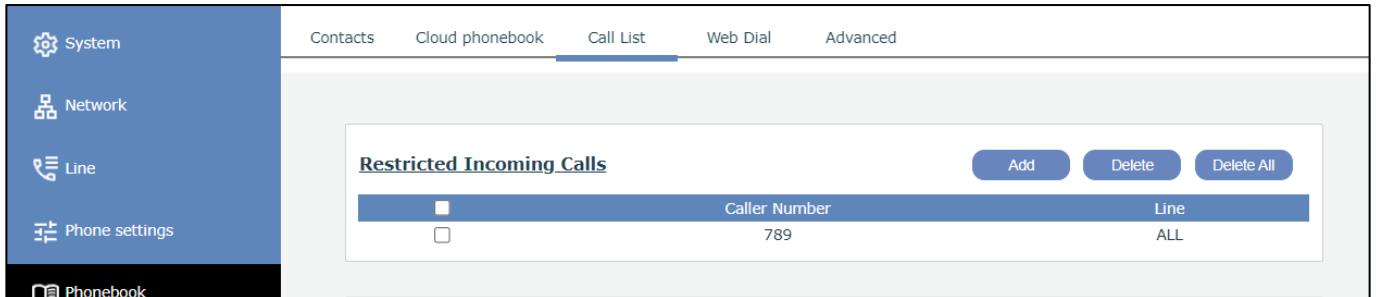
The device Support Blocked List, such as the number added to the Blocked List, the number of calls directly refused to the end, the end of the phone shows no incoming calls. (Blocked Listed Numbers can be called out normally)

- There are multiple ways to add a number to Blocked List on devices. It can be added directly on **[Menu]** >> **[Contact]** >> **[Blocked List]**.
- 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 92 - Add Blocked List

- There are various ways to add number to the Blocked List on web page, which can be added in the [Contact] >> [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.



Picture 93 - Web Blocked List

10.2.3 Cloud Phone Book

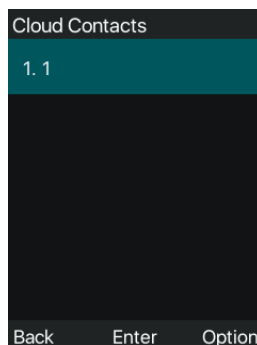
10.2.3.1 Configure Cloud Phone book

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 the 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] >> [Contact] >> [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.

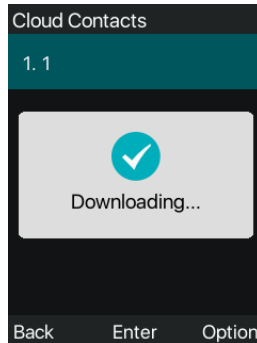


Picture 94 - Cloud phone book list

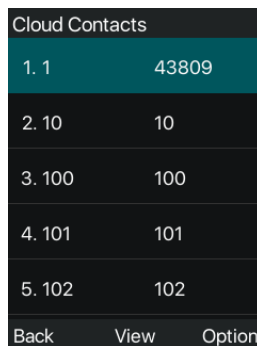
10.2.3.2 Downloading Cloud Phone book

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 95 - Downloading Cloud Phone book



Picture 96 - Browse contacts in cloud phone book

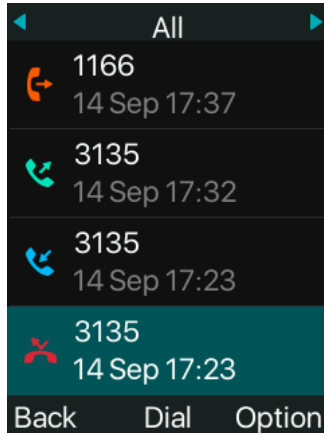
10.3 Call Log

The phone can store the call record (the quantity of storage varies according to different specifications). The user can press [Menu]>>[Call Log]>>[Local Call Logs] 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].

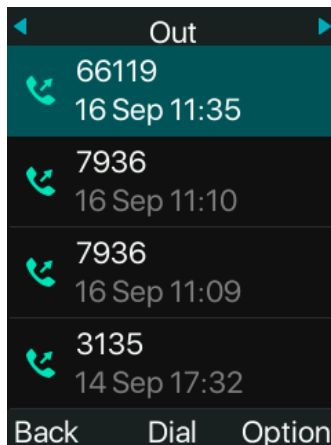
User can delete a call log by pressing [Delete] button and clear all call logs by pressing [Delete All] button.



Picture 97 - 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.

-  - Missed Call Log
-  - Incoming Call Log
-  - Outgoing Call Log
-  - Forward Call Log

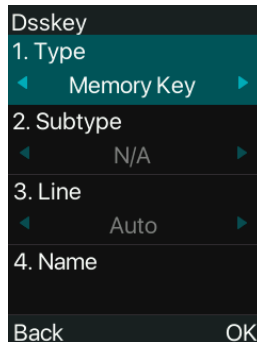


Picture 98 - Filter call record types

10.4 Function Key

Users can customize and configure the function keys on the side of the phone, and users can modify the settings of the corresponding keys by short/long press on the unconfigured shortcut keys.

Note: When the configuration key is configured as a function key type (such as PTT) triggered by a long press, and the health value is configured, you can go to **[Menu] >> [Basic] >> [Keyboard] >> [DSS Key Settings]** Or configure and change the value of the function key on the web page.



Picture 99 - DSS LCD key Page Configuration Screen

The DSS Key could be configured as followings,

- ◆ Memory Key
 - Presence/ Voice Mail/ Speed Dial/ Intercom/ Call Park/ Call Forward/ BLF
- ◆ Key Event
 - Voice Mail/ DND/ Call Hold/ Call Transfer/ Phonebook/ Redial/ Pickup/ Join/ Call Forward/ Call Logs/ Flash/ Memo/ Headset/ Release/ Lock Phone/ SMS/ Call Back/ Hide DTMF/ Intercom/ Group Listening/ Prefix/ Hot Desking/ Agent/ End/ Disposition/ Escalate/ Trace/ Handfree/ Answer Key/ Private Hold/ Local Contacts/ LDAP Group/ XML Group/ Broadsoft Group/ Record/ Autoo Headset/ Dsskey Page1/ Dsskey Page2
- ◆ DTMF
- ◆ URL
- ◆ BLF List Key
- ◆ MCAST Paging
- ◆ XML Browser

Webpage interface: **[Function key] >> [Function key]**.

Function Key Settings

Dsskey Transfer Mode:
Dsskey Long Press:

Page1

Key	Type	Name	Value			Subtype	Line	PickUp Number
DSS Key 1	<input type="text" value="None"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="+"/>	<input type="text" value="-"/>	<input type="text" value="Redial"/>	<input type="text" value="AUTO"/>	<input type="text"/>
DSS Key 2	<input type="text" value="None"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="+"/>	<input type="text" value="-"/>	<input type="text" value="None"/>	<input type="text" value="AUTO"/>	<input type="text"/>
DSS Key 3	<input type="text" value="None"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="+"/>	<input type="text" value="-"/>	<input type="text" value="None"/>	<input type="text" value="AUTO"/>	<input type="text"/>
DSS Key 4	<input type="text" value="None"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="+"/>	<input type="text" value="-"/>	<input type="text" value="None"/>	<input type="text" value="AUTO"/>	<input type="text"/>
DSS Key 5	<input type="text" value="None"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="+"/>	<input type="text" value="-"/>	<input type="text" value="None"/>	<input type="text" value="AUTO"/>	<input type="text"/>
DSS Key 6	<input type="text" value="None"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="+"/>	<input type="text" value="-"/>	<input type="text" value="None"/>	<input type="text" value="AUTO"/>	<input type="text"/>
DSS Key 7	<input type="text" value="None"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="+"/>	<input type="text" value="-"/>	<input type="text" value="None"/>	<input type="text" value="AUTO"/>	<input type="text"/>
DSS Key 8	<input type="text" value="None"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="+"/>	<input type="text" value="-"/>	<input type="text" value="None"/>	<input type="text" value="AUTO"/>	<input type="text"/>

Picture 100 - 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](#) .

10.5 Wi-Fi

The device has built-in Wi-Fi and supports wireless Internet access. For more details, please refer to [7.4 Connecting to Wi-Fi](#).

10.6 Headset

10.6.1 Wired Headset

The device supports wired earphones with 3.5mm earphone jack, enabling the earphones to play incoming call prompts, earphone calls, etc.

After the phone is connected to the headset, the status bar displays the headset icon, indicating that the headset channel is available.

On the webpage [**Phone settings**] >> [**Features**], you can set the headset answering function, and the ring tone for headset.

Note: FW620 enables these two configurations by default.

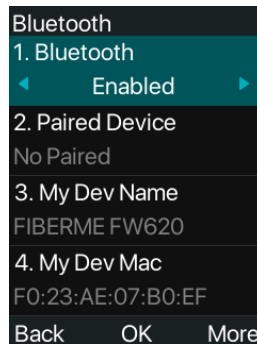
Basic Settings			
Enable Call Waiting:	<input checked="" type="checkbox"/>	Enable Call Transfer:	<input checked="" type="checkbox"/>
Semi-Attended Transfer:	<input checked="" type="checkbox"/>	Enable 3-way Conference:	<input checked="" type="checkbox"/>
Enable Auto on Hook:	<input checked="" type="checkbox"/>	Auto HangUp Delay:	<input type="text" value="3"/> (0~30)second(s)
Ring From Headset:	<input type="text" value="Enable"/>	Enable Auto Headset:	<input checked="" type="checkbox"/>
Enable Silent Mode:	<input type="checkbox"/>	Disable Mute for Ring:	<input type="checkbox"/>

Picture 101 - Headset function settings

10.6.2 Bluetooth Headset

The device has a built-in Bluetooth 5.0 module

- Press soft-button **[Menu]** till you find the **[Basic]** item.
- Press **[Bluetooth]** to enter the setup interface.
- Select Bluetooth, and use the left and right keys to enable Bluetooth. Select Paired Device. If no paired is displayed, press **[Scan]** key to search and select the scanned device to connect.



Picture 102 - Bluetooth Settings Screen

The use of Bluetooth headset can be divided into three types: call answering; Hang up; Bluetooth redial.

- call answering

When the Bluetooth headset is connected to the phone, the incoming call can be answered by pressing the Bluetooth answer button.

- Hang up

- 1) When talking with Bluetooth headset, you can hang up the phone by pressing the button on Bluetooth headset.
- 2) When there is an incoming call, double-click the answer button to reject the call.
- 3) When the caller is in the ringing state, press the answer button of the headset to cancel the call.

- Bluetooth redials

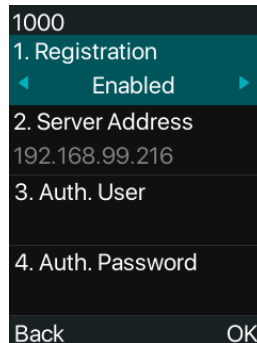
When the Bluetooth headset is connected, double-click the answer button to redial the number dialed last time.

NOTICE! some models do not support double - click redial function. Whether this function is

supported or not, you can check the instruction of the headset, or connect the Bluetooth headset to the phone, and double-click the answer button to see whether it will redial.

10.7 Advanced

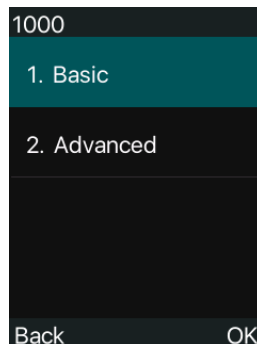
10.7.1 Line Configurations



Picture 103 - 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 System in accounts on the individual line to configure those options.



Picture 104 - Configure Advanced Line Options

10.7.2 Network Settings

10.7.2.1 Network Settings

■ IP Mode

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

Users can set it on the webpage [Network] >> [Basic]. Select Wi-Fi for the network type, and you can set the network mode.

Net Type Wi-Fi ▾

Network Mode

Network Mode: IPv4 Only ▾

IPv4 Only
IPv6 Only
IPv6 Only

IPv4 Network Status

IP: 192.168.99.114
Subnet mask: 255.255.255.0
Default gateway: 192.168.99.245
MAC: 00:a8:59:ed:73:12

Picture 105 - Network mode Settings

■ **IPv4**

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

IPv4 Settings

Static IP DHCP PPPoE

DHCP Hostname:

Enable Vendor Identifier: Disabled ▾

Vendor Identifier:

DNS Server Configured by: DHCP ▾

Primary DNS Server:

Secondary DNS Server:

DNS Domain:

Picture 106 - 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.

IPv4 Settings

Static IP DHCP PPPoE

PPPoE Username:

PPPoE Password:

Primary DNS Server:

Secondary DNS Server:

DNS Domain:

Picture 107 - PPPoE network mode

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

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

IPv4 Settings

Static IP DHCP PPPoE

IP:

Subnet mask:

Default gateway:

Primary DNS Server:

Secondary DNS Server:

DNS Domain:

Picture 108 - 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.

IPv6 Settings

Static IP DHCP

IP:

Prefix Length:

Default gateway:

Primary DNS Server:

Secondary DNS Server:

DNS Domain:

Picture 109 - IPv6 Static IP network mode

10.7.2.2 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,

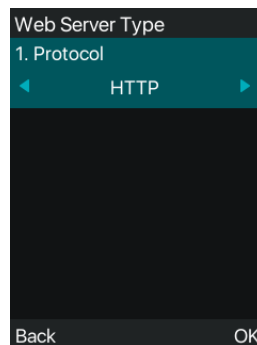
- OpenVPN Configuration file: client.ovpn
- CA Root Certification: ca.crt

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.

10.7.2.3 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. [Menu] >> [Advanced] >> [Network] >> [Web Server Type]

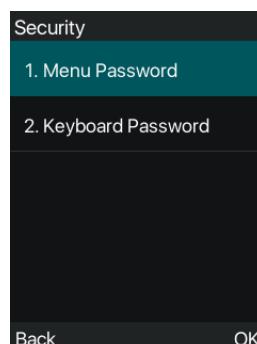


Picture 110 - The phone configures the web server type

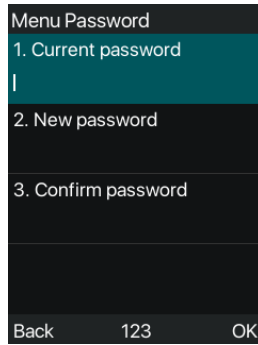
10.7.3 Security

When the device is in the default standby mode,

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



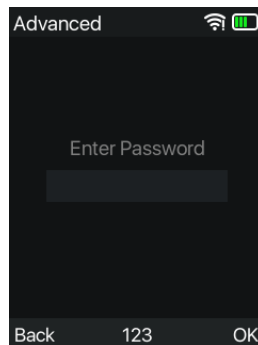
Picture 111 - Menu password



Picture 112 - Set menu password

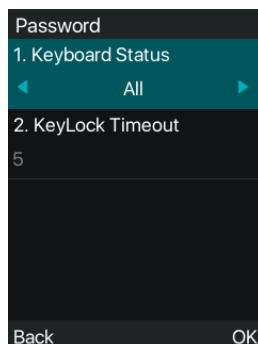
Menu password is the permission for accessing the advanced setting.

- **[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.



Picture 113 - Keyboard lock password

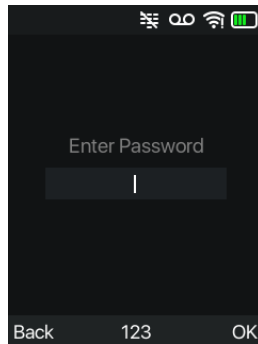
Keyboard password is used to unlock the phone once it's locked.



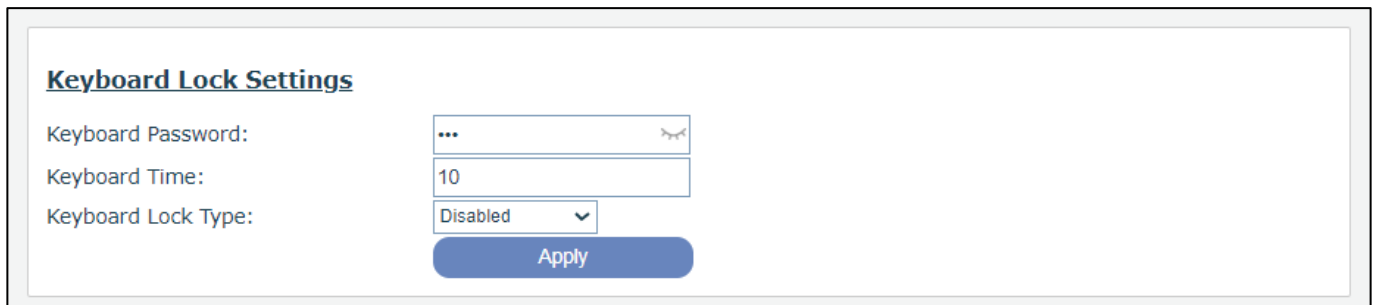
Picture 114 - Set keyboard lock password

User could only set to enable or disable the keyboard password in LCD screen.

- 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 enabled, 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 115 - Phone keypad lock password input interface



Picture 116 - Web keyboard lock password settings

10.7.4 Maintenance

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

Basic Settings

CPE Serial Number: 00100400FV020010000000a859ed7312

Authentication Name:

Authentication Password:

Configuration File Encryption Key:

General Configuration File Encryption Key:

Download Fail Check Times:

Update Contact Interval: (0, >=5)Minute

Save Auto Provision Information:

Download CommonConfig enabled:

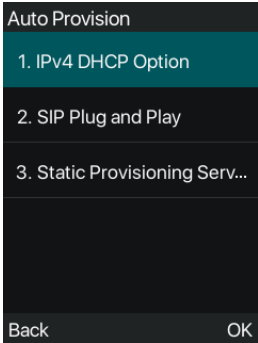
Enable Server Digest:

Display Provision Prompt: ▼

Provision Config Priority: ▼

Picture 117 - Page auto provision Settings

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



Picture 118 - Phone auto provision settings

The device support SIP PnP, DHCP options, Static provision, TR069. If all of the 4 methods are enabled, the device will be upgraded according to the method obtained first.

Transferring protocol: FTP, TFTP, HTTP, HTTPS

This article only briefly introduces automatic deployment. For details, please refer to the document **Auto Provision**.

Table 12 - Auto Provision

Parameters	Description
------------	-------------

Basic settings	
CPE Serial Number	Display the device SN
Authentication Name	The user's name of provision server
Authentication Password	The password of provision server
Configuration File Encryption Key	If the device configuration file is encrypted, user should add the encryption key here
General Configuration File Encryption Key	If the common configuration file is encrypted, user should add the encryption key here
Download Fail Check Times	If their 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 Information	Save the HTTP/HTTPS/FTP user name and password. If the provision URL is kept, the information will be kept.
Download Common Config enabled	Whether phone will download the common configuration file.
Enable Server Digest	When the feature is enabled, if the configuration of server is changed, phone will download and update.
DHCP Option	
Option Value	Configure DHCP option, DHCP option supports DHCP custom option DHCP option 66 DHCP option 43, 3 methods to get the provision URL. The default is Option 66.
Custom Option Value	Custom Option value is allowed from 128 to 254. The option value must be same as server define.
Enable DHCP Option 120	Use Option120 to get the SIP server address from DHCP server.
SIP Plug and Play (PnP)	
Enable SIP PnP	Whether enable PnP or not. If PnP is enabled, phone will send a SIP 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 Server	
Server Address	Provisioning server address. Support both IP address and domain address.
Configuration File Name	The configuration file name. If it is empty, phone will request the common file and device file which is named as its MAC address.

	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
Update Interval	Configuration file update interval time. As default it is 1, means phone will check the update every 1 hour.
Update Mode	Provision Mode. 1. Disabled. 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 Tone	If TR069 is enabled, there will be a prompt tone when connecting.
TLS Version	TLS version (TLS 1.0, TLS 1.1, TLS 1.2)
INFORM Sending Period	INFORM signal interval time. It ranges from 1s to 999s
STUN Server Address	Configure STUN server address
STUN Enable	To enable STUN server for TR069

10.7.5 Firmware Upgrade

- Web page: Login phone web page, go to **[System]** >> **[Upgrade]**

Software upgrade

Current Software Version: 2.14.1.7.1

System Image File: [Select](#) [Upgrade](#)

Upgrade Server

Enable Auto Upgrade:

Upgrade Server Address1:

Upgrade Server Address2:

Update Interval: Hour(s)

[Apply](#)

Firmware Information

Current Software Version: 2.14.1.7.1

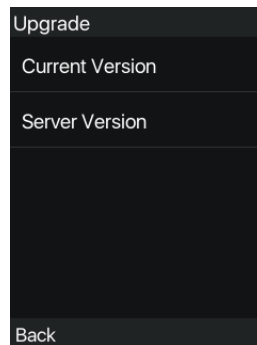
Server Firmware Version:

[Upgrade](#)

New Firmware Information:

Picture 119 - Web page firmware upgrade

- LCD interface: go to [Menu] >> [Advanced setting] >> [Firmware Upgrade] .



Picture 120 - Firmware upgrade information display

Table 13 - Firmware upgrade

Parameter	Description
Upgrade server	
Enable Auto Upgrade	Enable automatic upgrade, If there is a new version txt and new 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 back up available upgrade server address.
Update Interval	Set Update Interval. Enable Auto Upgrade and configure the Update Interval. If the server has a new firmware, the phone will prompt for upgrade at the interval.
Firmware Information	
Current Software Version	It will show Current Software Version.
Server Firmware Version	It will show Server Firmware Version.
[Upgrade] button	If there is a new version txt and new software firmware on the server, the page will display version information and upgrade button will become available; Click [Upgrade] button to upgrade the new firmware.
New version description information	When there is a corresponding TXT file and version on the server side, the TXT and version information will be displayed under the new version description information.

- The file requested from the server is a TXT file called vendor_model_hw1_0.txt.Hw followed by the hardware version number, it will be written as hw1_0 if no difference on hardware. All Spaces in the filename are replaced by underline.
For example, the txt file name requested by FW620 phone is voip_FW620_hwv1_0.txt
- The URL requested by the phone is HTTP:// server address/vendor_Model_hw10.txt: The new version and the requested file should be placed in the download directory of the HTTP server
- TXT file format must be UTF-8
- vendor_model_hw10.TXT The file format is as follows:
Version=2.12.1 #Firmware
Firmware=xxx/xxx.z #URL, Relative paths are supported and absolute paths are possible, distinguished by the presence of protocol headers.
BuildTime=2022.05.06 20:00
Info=TXT

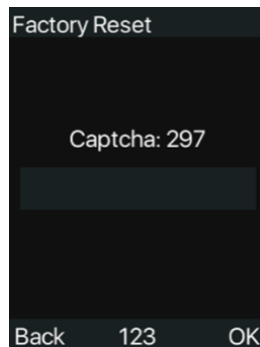
Xxxx
Xxxx
Xxxx
Xxxx
- After the update cycle interval time arrives, if the server has available files and versions, the phone will prompt as shown below, click View to view the version information and upgrade.

10.7.6 Factory Reset

- 1) The phone is in default standby mode.

- Press **[Menu]** to find **[System]**, and press **[OK]**.
- Press **[System]** 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 mode, press and hold the **[OK]** button for 6 second to the Factory Reset interface. After entering the correct code shown on the screen and pressing OK, the device will be reset. If the code input has been wrong for 3 times, the user can try again after 30 seconds.



Picture 121 - Reset Capcha

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
- Memory information
- System time

And summarization of network status,

- Network Mode
- Ethernet MAC
- Wi-Fi MAC
- Bluetooth MAC
- Ethernet IP
- Wi-Fi 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, boot logo 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 [13 Trouble Shooting](#) 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 >> Wi-Fi Settings

The default network priority is WIFI

The current device supports coexistence of WIFI and Ethernet, and users can log in to the web page with any network address for configuration.

For example, WIFI access IP is 172.16.0.210

Page login 172.16.0.210 for configuration.

Net Type Wi-Fi ▼

Network Mode

Network Mode: IPv4 Only ▼

IPv4 Network Status

IP:	192.168.99.114
Subnet mask:	255.255.255.0
Default gateway:	192.168.99.245
MAC:	00:a8:59:ed:73:12

Picture 122 - Network Priority

This page can turn on WIFI, add WIFI information, and view the wireless network list.

Wi-Fi Settings

Wi-Fi Enable:

2.4G Wi-Fi Band: 5G Wi-Fi Band:

Roaming Delta: (dB)

Apply

Wi-Fi Info Add

SSID:

Secure Mode:

Encryption Type:

Username:

Password:

Add

Picture 123 - WiFi Settings

12.2 Network >> Service Port

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

Service Port Settings ⓘ

Web Server Type:

Web Logon Timeout: (10~60)Minute

web auto login:

HTTP Port:

HTTPS Port:

TLS Version:

RTP Port Range Start: (1025~65530)

RTP Port Quantity: (5~1000)

Apply

Picture 124 - Service Port Settings

Table 14 - Service port

Parameter	Description
Web Server Type	Reboot to take effect after settings. Optionally, the web page login is

	HTTP/HTTPS.
Web Logon Timeout	Default as 15 minutes, the timeout will automatically exit the login page, need to login again.
Web auto login	After the timeout does not need to enter a user name password, will automatically login to the web page.
HTTP Port	The default is 80. If you want system security, you can set ports other than 80. Such as :8080, webpage login: HTTP://ip:8080
HTTPS Port	The default is 443, the same as the HTTP port.
RTP Port Range Start	The value range is 1025 to 65530. The value of RTP port starts from the initial value set. For each call, the value of voice and video port is added 2.
RTP Port Quantity	Number of calls.

12.3 Network >> VPN

Users can configure a VPN connection on this page. See [10.7.2.3 VPN](#) for more details.

12.4 Network >> Advanced

Advanced network Settings are typically configured by the IT administrator to improve the quality of the phone service. For configuration, query the [10.7 Advanced Settings](#).

12.5 Line >> SIP

Configure the Line service configuration on this page.

Table 15 - Line configuration on the web 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 Address	Enter the IP or FQDN address of the backup proxy server.
Backup Proxy Server Port	Enter the backup proxy server port, default is 5060.
Basic Settings	
Enable Auto Answering	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 Unconditional	Enable unconditional call forward, all incoming calls will be forwarded to the number specified in the next field
Call Forward Number for Unconditional	Set the number of unconditional call forward
Call Forward on Busy	Enable call forward on busy, when the phone is busy, any incoming call will be forwarded to the number specified in the next field.
Call Forward Number for Busy	Set the number of call forward on busy .
Call Forward on No Answer	Enable call forward on no answer, when an incoming call is not answered within the configured delay time, the call will be forwarded to the number specified in the next field.
Call Forward Number for No Answer	Set the number of call forward on no answer.
Call Forward Delay for No Answer	Set the delay time of not answered call before being forwarded.
Transfer Timeout	Set the timeout of call transfer process.

Conference Type	Set the type of call conference, Local=set up call conference by the device 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
Subscribe For Voice Message	Enable the device to subscribe a voice message waiting notification, if enabled, the device will receive notification from the server if there is voice message waiting on the server
Voice Message Number	Set the number for retrieving voice message
Voice Message Subscribe Period	Set the interval of voice message notification subscription
Enable Hotline	Enabling hotline configuration, the device will dial to the specific number immediately at audio channel opened by off-hook handset or turn on hands-free speaker or Headset
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.
DTMF Type	Set the DTMF type to be used for the line
DTMF SIP INFO Mode	Set the SIP INFO mode to send '*' and '#' or '10' and '11'
Request With Port	Whether the URI carries port number.
Enable DND	Enable Do-not-disturb, any incoming call to this line will be rejected automatically
Subscribe For Voice Message	Enable the device to subscribe a voice message waiting notification, if enabled, the device will receive notification from the server if there is voice 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.
Signal Failback	Multiple proxy cases, whether to allow the invite/register request to also execute failback.
Signal Retry Counts	The number of attempts that the SIP Request considers proxy unavailable under multiple proxy scenarios.
Codecs Settings	Set the priority and availability of the codecs by adding or remove them from the list.

System	
Use Feature Code	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 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 No Answer	Set the feature code to dial to the server
Enable Blocking Anonymous Call	Set the feature code to dial to the server
Disable Blocking Anonymous Call	Set the feature code to dial to the server
Call Waiting On Code	Set the feature code to dial to the server
Call Waiting Off Code	Set the feature code to dial to the server
Send Anonymous On Code	Set the feature code to dial to the server
Send Anonymous Off Code	Set the feature code to dial to the server
SIP Encryption	Enable SIP encryption such that SIP transmission will be encrypted
RTP Encryption	Enable RTP encryption such that RTP transmission will be encrypted
Enable Session Timer	Set the line to enable call ending by session timer refreshment. The call 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
Response Single Codec	If setting enabled, the device will use single codec in response to an incoming call request
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
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
Enable Strict Proxy	Enables the use of strict routing. When the phone receives packets from 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
Enable GRUU	Support Globally Routable User-Agent URI (GRUU)
Sync Clock Time	Time Sync with server
Enable Inactive Hold	With the post-call hold capture package enabled, you can see that in the 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 Time	Set the registration failure retry time.
Local SIP Port	Modify the phone SIP port.
Enable uaCSTA	Enable uaCSTA
SMS direct Enabled	Display the meaaasge.
SMS Save Enabled	When an SMS arrives, the phone will save it automatically.
SMS Ring Enabled	The phone will ring when a message arrives.
SMS Display Time	The duration for the phone to display the SMS.

12.6 Line >> SIP Hotspot

Please refer to [9.6 SIP Hotspot](#)

12.7 Line >> Dial Plan

Basic Settings

Press # to invoke dialing

Dial Fixed Length to Send

Send after second(s)(3~30)

Press # to Do Blind Transfer

Blind Transfer on Onhook

Attended Transfer on Onhook

Attended Transfer on Conference Onhook

Enable E.164

Picture 125 - Dial plan settings

Table 16 - Phone 7 dialing methods

Parameters	Description
Press # to invoke dialing	The user dials the other party's number and then adds the # number to dial out;
Dial Fixed Length	The number entered by the user is automatically dialed out when it reaches a fixed length
Timeout dial	The system dials automatically after timeout
Enable E.164	Please refer to E. 164 standard specification

Add dialing rules:

Dial Plan Add

Digit Map:

Apply to Call:

Match to Send:

Line:

Destination:

Port:

Alias(Optional):

Phone Number:

Length:

Suffix:

Picture 126 - Custom setting of dial - up rules

Table 17 - Dial - up rule configuration table

Parameters	Description
Dial rule	There are two types of matching: Full Matching or Prefix Matching. In Full matching, the entire phone number is entered and then mapped per the Dial Peer rules. 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.
<p>Note: Two different special characters are used.</p> <ul style="list-style-type: none"> ■ 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. 	
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 item.
<p>Note: There are four types of aliases.</p> <ul style="list-style-type: none"> ■ all: xxx – xxx will replace the phone number. ■ add: xxx – xxx will be dialed before any phone number. ■ del: The characters will be deleted from the phone number. ■ rep: xxx – xxx will be substituted for the specified characters. 	
Suffix	Characters to be added at the end of the phone number. It is an optional item.
Length	Set the number of characters to be deleted. For example, if this is set to 3, the phone will delete the first 3 digits of the phone number. It is an optional item.

For Example

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.

User-defined Dial Plan Table							
Index	Digit Map	Call	Match to Send	Line	Alias Type:Number(length)	Suffix	
1	"123"	Out	No	SIP DIALPEER(172.168.2.208:5060)			

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.

User-defined Dial Plan Table						
Index	Digit Map	Call	Match to Send	Line	Alias Type: Number(length)	Suffix
1	"1T"	Out	No	AUTO		

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.

12.8 Line >> Action Plan

Action Plan application: a technical implementation defined and designed by the vendor for remote control and behavior linkage between the terminal equipment and other equipment. That is, when an event occurs on the terminal, the terminal can perform an action, and this action is completed according to a Plan rule.

Log in to the phone web page, access [Line] -> [Action Plan], and configure the linkage plan rules.

Action Plan Add

Action:	<input type="text" value="Default"/>			
Number:	<input type="text"/>	Type:	<input type="text" value="Early"/>	
Direction:	<input type="text"/>	Line:	<input type="text" value="AUTO"/>	
MCAST Codec:	<input type="text"/>	Password:	<input type="text"/>	
Username:	<input type="text"/>	UserAgent:	<input type="text"/>	
URL:	<input type="text"/>			

Picture 129 - Action Plan

Table 18 - Action Plan

Parameter	Description
Action	Default: when the rule is triggered, the phone

	<p>displays video or converts multicast according to the RTSP URL or multicast address port set by the website.</p> <p>Video: when the rule is triggered, the phone accesses the RTSP URL configured by the URL to display the video.</p> <p>MCAST-XFER: when the rule is triggered, the phone converts the incoming call or multicast into multicast and sends it to the set multicast address port.</p> <p>Record: the phone automatically turns on the recording function when the rule is triggered.</p> <p>Mute: the phone will mute automatically when the rule is triggered.</p> <p>Answer: when the rule is triggered, the phone automatically answers the incoming call.</p>
Number	Auxiliary phone number
Type	<p>Early: trigger execution before call establishment.</p> <p>Connected: trigger execution after call establishment.</p>
Direction	For call mode, incoming/outgoing call
Line	Set up outgoing lines.
Username	Bind the user name of the IP camera.
Password	Bind IP camera password.
URL	Video streaming information or MCAST IP address.
User Agent	Set user agent information

12.9 Line >> Basic Settings

Set up the register global configuration.

Table 19 - Set the line global configuration on the web page

Parameters	Description
STUN Settings	
Server Address	Set the STUN server address
Server Port	Set the STUN server port, default is 3478

STUN valid time	Set the STUN binding period which can be used to keep the NAT pinhole opened.
SIP Waiting Time	Set the timeout of STUN binding before sending SIP messages
SIP P2P Settings	
Enable Auto Answering	Turn on Auto Answering.
Auto Answering Delay	After the set time has elapsed, the device automatically answers the incoming call.
DTMF Type	Set the DTMF type.
DTMF SIP INFO Mode	Set the expression of #/* when SIP INFO is used as DTMF Send Type.
Use VPN	Turn on VPN.
Call-ID Format	Set the format of the SIP message Call-ID field, which is \$id@\$ip by default
Display name	Set the display name.
Request-Line Format	Set the Request-Line's format.

12.10 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.

Table 20 - VQ RTCP-XR Settings

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

12.11 Phone settings >> Features

Configuration phone features.

Table 21 - General function Settings

Parameters	Description
Basic Settings	
Enable Call Waiting	Enable this setting to allow user to take second incoming call during an established call. Default enabled.
Enable Call Transfer	Enable Call Transfer.
Semi-Attended Transfer	Enable Semi-Attended Transfer 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
Auto Onhook Time	Specify Auto Onhook time, the phone will hang up and return to the idle automatically after Auto Hand down time at hands-free mode, and play dial tone Auto Onhook time at handset mode
Ring for Headset	Enable Ring for Handset by selecting it, the phone plays ring tone from handset.
Auto Headset	Enable this feature, headset plugged in the phone, user press 'answer' 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
Ban Outgoing	If you select Ban Outgoing to enable it, and you cannot dial out any number.
Hide DTMF	Configure the hide DTMF mode.
Enable CallLog	Select whether to save the call log.
Enable Restricted Incoming List	Whether to enable restricted call list.
Enable Allowed Incoming List	Whether to enable the allowed call list.
Enable Restricted Outgoing List	Whether to enable the restricted allocation 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
Emergency Call Number	Configure the Emergency Call Number. Despite the keyboard is locked, you can dial the emergency call number
Restrict Active URI Source IP	Set the device to accept Active URI command from specific IP address.
Push XML Server	Configure the Push XML Server, when phone receives request, it will determine whether to display corresponding content on the 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/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	
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	
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 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	
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.
Ringling	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.
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 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.

12.12 Phone settings >> Media Settings

Change Audio Settings.

Table 22 - Voice settings

Parameters	Description
Codecs Settings	Select enable or disable voice encoding: G.711A/U,G.722,G.729, ILBC, Opus
Audio Settings	
Handset Volume	Set the Handset volume, the value must be 1~9
Default Ring Type	Configure default ringtones. If no special ringtone is set for the phone number, the default ringtone will be used.
Speakerphone Volume	Set the hands-free volume to 1-9.
Headset Ring Volume	Set the volume of the Headset ringtone to 1~9.
Headset Volume	Set the volume of the headset to 1~9.
Speakerphone Ring Volume	Set the volume of hands-free ringtone to 1~9.
G.723.1 Bit Rate	5.3kb/s or 6.3kb/s is available.
DTMF Payload Type	Enter the DTMF payload type, the value must be 96~127.
AMR Payload Type	Set AMR load type, range 96~127.
Headset Mic Gain	Set the Headset's radio volume gain to fit different models of Headsets.
Opus payload 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.
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	
The value of notification message 1 to notification message 10	Set the value to specify the ring type.
Ring Type	Type1-Type9

12.13 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.

Table 23 - Multicast parameters

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.
Enable Channel Priority	Once enabled, the same port and channel can only be connected. Channel 24 is the priority channel, higher than 1-23; A channel of 0 indicates that no channel is used
Name	Listened multicast server name
Host: port	Listened multicast server's multicast IP address and port.
Channel	0-25 (24 priority channel, 25 emergency channel)

12.14 Phone settings >> Action

Action URL

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

12.15 Phone settings >> Time/Date

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

Table 24 - 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
Secondary Time Server	Set secondary time server address, when primary server is not 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
DST Set Type	Choose DST Set Type, if Manual, you need to set the start time and end time.
Fixed Type	Daylight saving time rules are based on specific dates or relative 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

12.16 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.

Time Plan

Name:

Type:

Repetition period:

Monthly: 1
 2
 3
 4
 5
 6
 7
 8
 9
 10

Start Date:

End Date:

Effective time: : : - : :

Picture 130 - Time Plan (1)

Table 25 - Time Plan

configure	Value	Description
Time plan Type	1: Timed reboot 2: Timed upgrade 3: Timed forward 4: Timed config	Type, Action performed at a time point/time period
Repetition period	0: No repetition 1: Daily 2: Weekly 3: Monthly	repeat type
in weeks	0-6 : Sunday-Saturday,	When the repetition type is

	supports multiple separated by ";" 1-31: 1-31 day	daily/non-repeating, the value is empty
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.

Time Plan

Name: my time plan

Type: Timed forward

Forward Number: 123

Line: 1000@SIP1

Repetition period: No repetition

Monthly: 7 8 9 10 11 12 13 14 15 16

Effective time: 0:0-0:0

Add

Picture 131 - 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.

12.16.1 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:

Start Date:

End Date:

Effective time: : : - : :

Picture 132 - Time Plan (3)

12.16.2 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
- Monday
- Tuesday
- Wednesday
- Thursday
- Friday
- Saturday

Start Date:

End Date:

Effective time: : : - : :

Picture 133 - Time Plan (4)

12.16.3 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.

Time Plan List:

<input type="checkbox"/> Index	Name	Type	Special configure	Repetition period	Effective time
					Delete

Picture 134 - Time Plan (5)

12.16.4 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.

Time Plan List:

<input type="checkbox"/> Index	Name	Type	Special configure	Repetition period	Effective time
<input type="checkbox"/> 1	my time plan	Timed forward	SIP1 123	Weekly(MON;TUE;)	00:00-00:00
					Delete

Picture 135 - Time Plan (6)

12.17 Phone settings >> Tone

On this page, you can configure the phone's tone.

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.

Tone Settings

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:	425/100,0/100,425/100,0/9700,425/100,0/100,425/100,0/30000
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
Message 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:	

[Apply](#)

Picture 136 - Tone settings on the web

12.18 Phone settings >> Advanced

User can configure the advanced configuration settings in this page.

- Screen Configuration.
 - Enable Sleep
 - Backlight Time
 - Screensaver Time
- UI Preference
Set font, color, and screensaver display
- 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'.

12.19 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 Blocked List by click "Add to Blocked List" button.

12.20 Phonebook >> Cloud phonebook

Cloud Phonebook

User can configure up to 4 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)

Web page preview

Phone page supports preview of Internet phone directory and contacts

- After setting up the XML or LDAP,
- Select [**Phonebook**] >> [**Cloud phone book**] >> [**Cloud phone book**] to select the type.

- Click the set XML/LDAP to download the contact for browsing.

Cloud phonebook

XML ▾ XML1 XML2 XML3 XML4 BACK

Add to phonebook Add to Blocked List Add to Allowed List Previous Page: ▾ Next

Index	Name	Phone	Phone1	Phone2

10 ▾ Entries per page

Manage Cloud Phonebooks

Index	Cloud phonebook name	Cloud phonebook URL	Calling Line	Search Line	Phonebook Type	Authentication Name	Authentication Password
1			AUT ▾	AUT ▾	XML ▾		
2			AUT ▾	AUT ▾	XML ▾		
3			AUT ▾	AUT ▾	XML ▾		
4			AUT ▾	AUT ▾	XML ▾		

Apply

Picture 137 - Web cloud phone book Settings

12.21 Phonebook >> Call List

- **Restricted Incoming Calls:**

It is similar like a Blocked List. Add the number to the Blocked List, 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 Blocked List or add specific prefixes to the Blocked List to block calls with all Numbers with this prefix.

- **Allowed Incoming Calls:**

When All/DND/FWD is enabled, the incoming call number can still be called.

- **Restricted Outgoing Calls:**

Add a number that restricts outgoing calls and cannot be called until the number is removed from the table.

12.22 Phonebook >> Web Dial

Use web pages for calling, replying, and hanging up.

12.23 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.

12.24 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 Blocked List/whitelist.

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

12.25 Function Key >> Function Key

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

The device provides multiple user-defined shortcut keys, and the user can configure each shortcut key on the web page.

Table 26 - Function Key configuration

Parameters	Description
Memory Key	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.
Key Event	User can select a key event as a shortcut to trigger. For example: MWI / DND / Release / Headset / Hold / etc.
URL	Open the specific URL directly.
BLF List Key	Displays the BLF list number for the subscription
MCAST Paging	Configure the multicast address and audio codec. User presses the key to initiate the multicast.
XML browser	Users can set the DSS Key for specific URL download and other operations.

12.26 Function Key >> DSSKey Page

Web Page Function Key >> Function Key, FW620 can configure two page dsskey, 8 dsskeys per page.

Soft DSS Key Settings

Key	Type	Name	Value		Subtype	Line	PickUp Number
DSS Key 1	Key Event			+ -	Record	AUTO	
DSS Key 2	None			+ -	None	AUTO	
DSS Key 3	None			+ -	None	AUTO	
DSS Key 4	None			+ -	None	AUTO	
DSS Key 5	None			+ -	None	AUTO	
DSS Key 6	None			+ -	None	AUTO	
DSS Key 7	None			+ -	None	AUTO	
DSS Key 8	None			+ -	None	AUTO	
DSS Key 9	None			+ -	None	AUTO	
DSS Key 10	None			+ -	None	AUTO	

Apply

Picture 138 - DSSkey Page settings

After the DSS Key on page N is configured, set a softkey or navigation key to Dsskey PageN, press the softkey / navigation key in the corresponding interface, enter the Dsskey Page, select a DSS Key, or press the corresponding serial number of the DSS Key to perform the corresponding functions.

SoftKey Settings

Softkey Mode: More

Softkey Exit Style: Softkey Exit On Left

Screen: Call Dialer

Unselected Softkeys		Selected Softkeys
CallLog	▶ ◀	Exit
Clear		2aB(Input Mode)
Delete		Dial
In		
Missed		
Next Line(Next)		

Apply

Picture 139 - The SoftKey is configured as a Dsskey Page

Global Key Settings

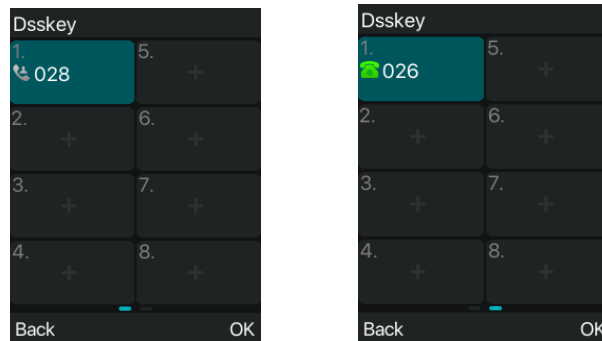
Select MemoryKey Action: Display Parked Info:

Programmable Key Settings

Key	Desktop	Dialer	Calling	Ringing	Desktop Long Pressed
Up	Call logs	Prev Line(Prev.)	None	None	Status
Down	Status	Next Line(Next)	None	None	None
Left	Dsskey Page1	Prev Line(Prev.)	Volume Down	None	None
Right	Call forward	Next Line(Next)	Volume Up	None	None
OK	Do-not-disturb	None	None	None	Reset

Note: The 'Left' key dropdown menu is open, showing options like 'Call logs', 'Incoming calls', 'Lock phone', 'Memo', 'Main Menu', 'Missed Calls', 'Voice Mail', 'Outgoing Calls', 'Local Contacts', 'Reboot', 'Redial', 'Cloud phonebook', 'SMS', 'Status', 'Pre Account', 'Next Account', 'Headset', and 'Dsskey Page1'.

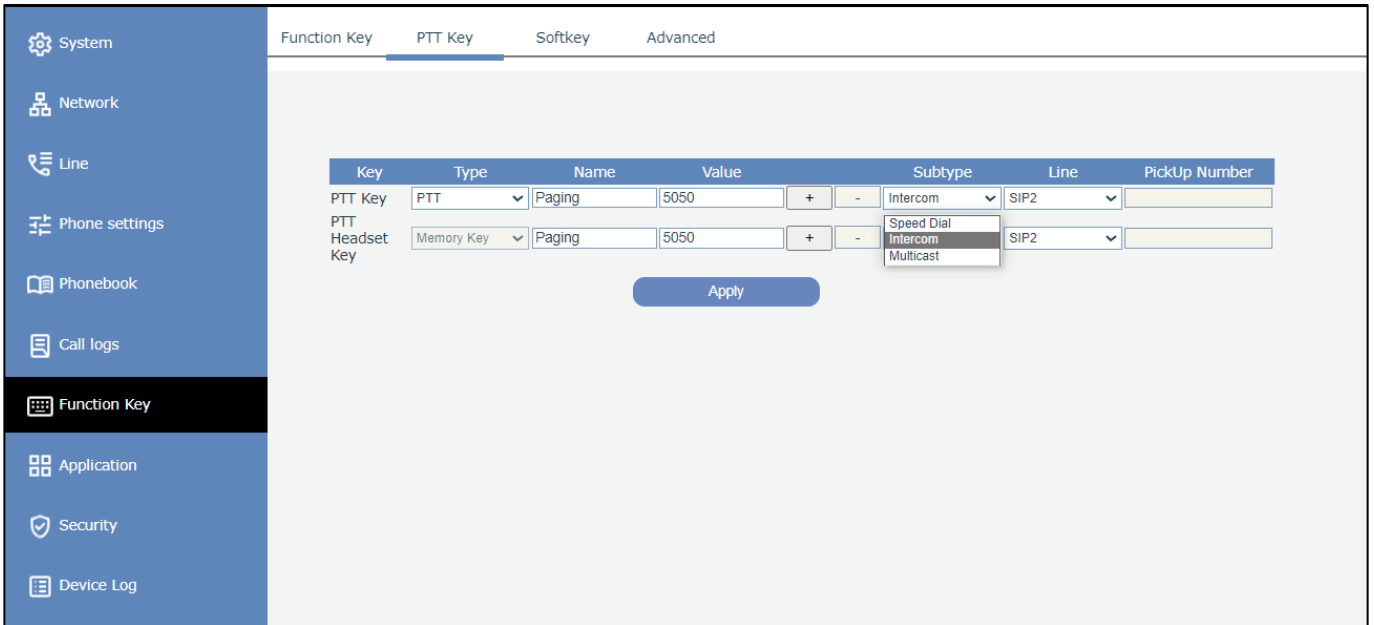
Picture 140 - The navigation key is configured as a Dsskey Page



Picture 141 -The Dsskey Page on the lcd

12.27 Function Key >> PTT

PTT (Push To Talk) is the intercom function, press and hold the communication and end the communication.

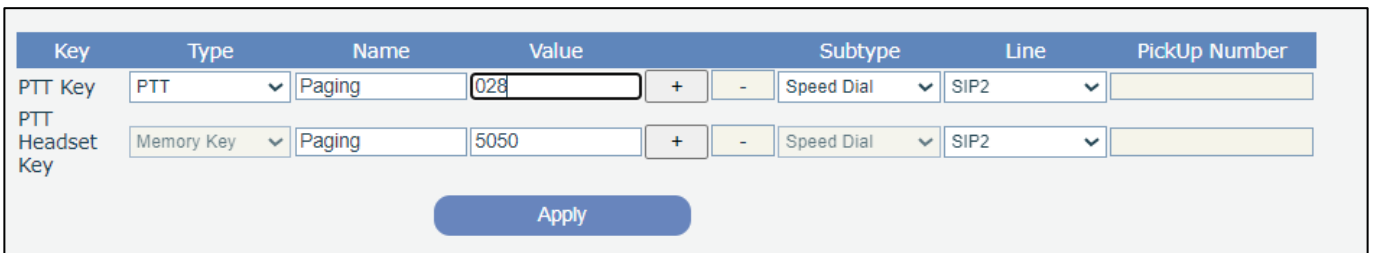


Picture 142 -Web page PTT settings

Set the function key type to PTT, select the corresponding subtype (Speed Dial / Intercom / Multicast), and then set the number / multicast address. The use of methods are described as follows:

■ **Speed Dial**

Users can directly dial the set number, which facilitates customers to dial the number that they often need to call.



Picture 143 - PTT Speeddial

The position of the value fills in the number that requires speed dialing. After setting it, press and hold the function key while on standby, the device initiates a call, and the opposite end can answer the communication normally. Let go and end the call, and return to the standby interface.

Hold down the function key in the call, the device Hold original call, initiate the call, the opposite end answer can be normal communication. After letting go, end the call and return to the original call interface.

■ **Intercom**

The phone can automatically answer the intercom call.

Key	Type	Name	Value			Subtype	Line	PickUp Number
PTT Key	PTT	Paging	028	+	-	Intercom	SIP2	
PTT Headset Key	Memory Key	Paging	5050	+	-	Speed Dial	SIP2	

Apply

Picture 144 - PTT Intercom

The position of the value fills in the required number to be intercom, after setting, standby, press the function key not to put, the device initiates the intercom, the opposite end automatically answer, can be directly called. Let go and finish the intercom, and return to the standby interface.

Hold down the function key in the call, the device Hold original call, initiate the intercom, and answer the opposite end automatically. After letting go, finish the intercom and return to the original call interface.

■ **MultiCast**

Using the multicast function can easily and easily send voice broadcast to all members of the multicast group.

Key	Type	Name	Value			Subtype	Line	PickUp Number
PTT Key	PTT	Paging	1000,1002,1003	+	-	Multicast	G.711U	
PTT Headset Key	Memory Key	Paging	5050	+	-	Speed Dial	SIP2	

Apply

Picture 145 - PTT Multicast

The location of the value fills in the multicast address. After setting, press and hold the function key does not play, the device initiates the multicast, and all members in the multicast automatically answer, and can broadcast directly. After letting go, end the group broadcast and return to the standby interface.

Hold down the function key in the call, the device Hold original call, initiate the multicast, and all members in the multicast automatically answer. After letting go, end the group broadcast and return to the original call interface.

12.28 Function Key >> Softkey

The User Settings mode and display style, display page.

Table 27 - Softkey configuration

Parameter	Description
Softkey Mode	
Softkey mode	Disabled and More, Default is More
Softkey Style	

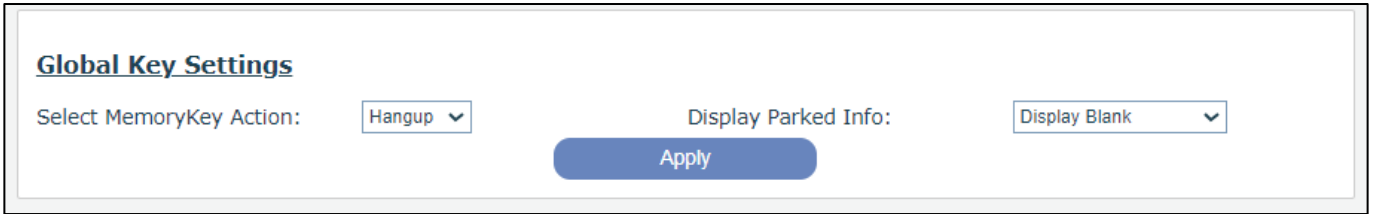
Softkey display style	Softkey Exit on Left or Right
Screen	
Call Dialer	Redial/2aB/Delete/Exit/Call Back/Dial/Join/MWI/Local Contacts/Pickup/Call Log/Missed/Clear/In/Dialed/Pause/ Next line/Prev line/Headset/Audio/Video/Remote XML/DSS Key
Conference	Hold/Split/End/Release/Mute/DSS Key/Headset
Desktop	Call Log/Menu/Local Contacts/DND/Prev Account/Next Account/Blocked List/Call Back/Call Forward/Locked/Memo/ Missed/MWI/Dialed/Reboot/Redial/Remote XML/SMS/ Headset/Status/DSS Key/In
Divert Dialed	Redial/2aB/Delete/Exit/Forward/Local Contacts/Call Log /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 /Pickup/MWI/Join/Call Log/Release/Missed/Pause/Dialed/ Headset/Video/Audio/Remote XML/DSS Key/In/Next line /Prev line
Ringling	Answer/Forward/Reject/Mute/Release/Headset/Video/Audio/DSS key
Talking	Hold/Transfer/Conference/End/Mute/Release/New Call/ Local Contacts/Listen/Call Log/Next call/Prev call/ Private/Headset/Video/Audio/DSS Key
Transfer Alerting	End/Transfer/Headset/Release/DSS Key
Transfer Dialer	Redial/Delete/Exit/2aB/Dial/Local Contacts/Transfer/ Call Log/Clear/Missed/Dialed/Pause/Headset/Video/Audio/Remote XML/DSS Key
Trying	End/Release/Headset/DSS Key
Waiting	Hold/Transfer/Conference/End/Answer/Forward/Mute/Next call/New call/Prev call/Reject/Release/Headset/Listen/ Video/Audio/DSS Key

12.29 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



Picture 146 - Global Key Settings

■ Programmable key Settings

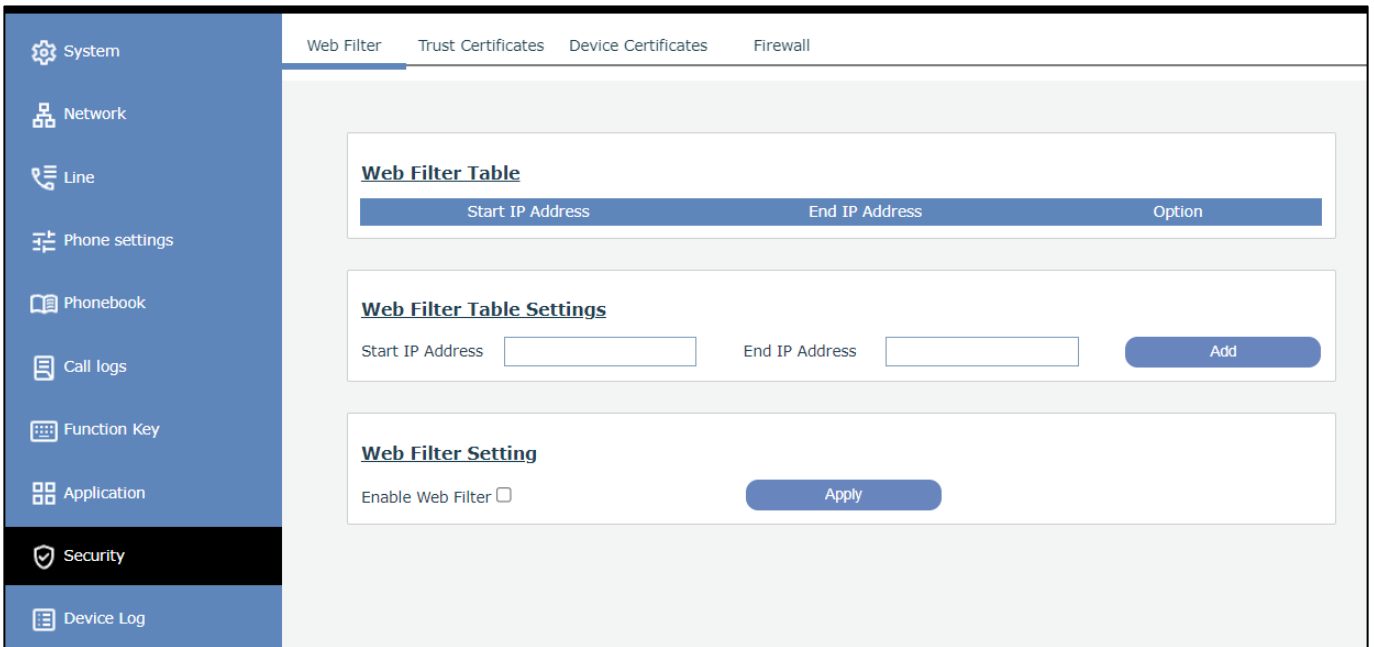
Please refer to the [Table 27 Softkey configuration](#)

12.30 Application >> Manage Recording

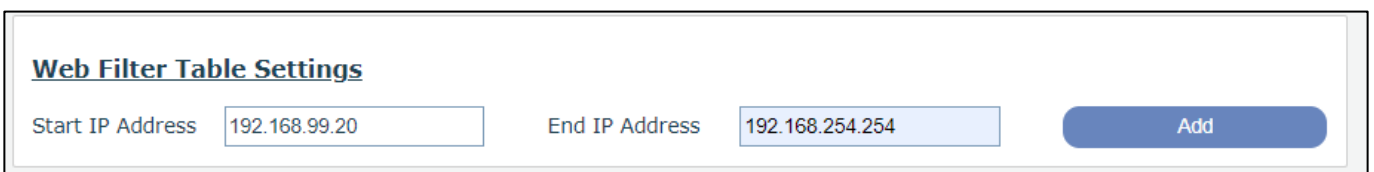
See [9.1 Record](#) for details of recording.

12.31 Security >> Web Filter

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



Picture 147 - Web Filter settings



Picture 148 - 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.

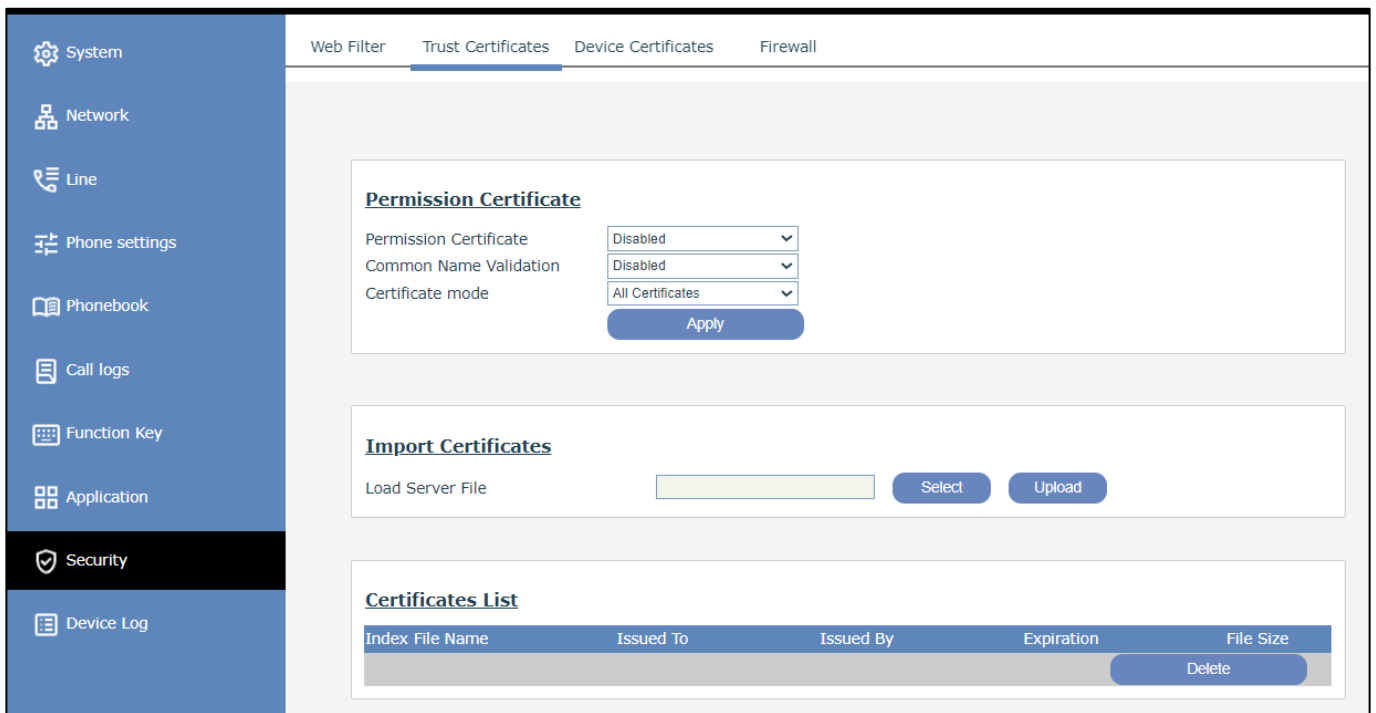
Enable web page filtering: configure enable/disable web page access filtering; Click the **[Apply]** button to take effect.

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.

12.32 Security >> Trust Certificates

Set whether to open license certificate and general name validation, select certificate module.

You can upload and delete uploaded certificates.



Picture 149 - Certificate of settings

12.33 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

load Device file Select Upload

Certification File

File Name	Issued To	Issued By	Expiration	File Size
				Delete

Picture 150 - Device certificate setting

12.34 Security >> Firewall

Firewall Type

Enable Input Rules:
Enable Output Rules:

Firewall Input Rule Table

Index	Deny/Permit	Protocol	Src Address	Src Mask	Src Port Range	Dst Address	Dst Mask	Dst Port Range

Firewall Output Rule Table

Index	Deny/Permit	Protocol	Src Address	Src Mask	Src Port Range	Dst Address	Dst Mask	Dst Port Range

Firewall Settings

Input/Output:

Deny/Permit:

Protocol:

Src Address:

Src Mask:

Src Port Range: -

Dst Address:

Dst Mask:

Dst Port Range: -

Rule Delete Option

Input/Output:
Index To Be Deleted:

Picture 151 - 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:

Table 28 - Network Firewall

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
Src Address	Source address can be host address, network address, or all addresses 0.0.0.0; It can also be a network address similar to *.*.*.0, such as: 192.168.1.0.
Dst Address	The destination address can be either the specific IP address or the full 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 means that the host is specific. When set as 255.255.255.0, it means that a network segment is filtered.
Dst Mask	Is the destination address mask. When configured as 255.255.255.255, it 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:

Firewall Input Rule Table								
Index	Deny/Permit	Protocol	Src Address	Src Mask	Src Port Range	Dst Address	Dst Mask	Dst Port Range
1	deny	udp	172.16.0.1	255.255.0.0	0-9	172.31.255.254	255.255.0.0	0-9

Picture 152 - 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.

Rule Delete Option			
Input/Output	<input type="text" value="Input"/>	Index To Be Deleted	<input type="text"/>
			<input type="button" value="Delete"/>

Picture 153 - Delete firewall rules

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

12.35 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 [13.7 Get log information](#).

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 the vendor 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 Power on/off

The user can press and hold the red hang up key  until it shuts down. Then press and hold the red hang up key  until it turns on.

13.3 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.

13.4 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.

13.5 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).

The screenshot displays a web interface with three main sections. The top section, titled "Syslog", contains the following controls: "Enable Syslog" (checkbox), "Server Address" (text input with "0.0.0.0"), "Server Port" (text input with "514"), "APP Log Level" (dropdown menu with "Error" selected), and "Export Log" (checkbox). An "Apply" button is positioned below these controls. The middle section, titled "LAN Packet Capture", features a "Start" button and a "stop" button. The bottom section, titled "Main Screen", is highlighted with a red border and contains a "Save BMP" button.

Picture 154 - Screenshot

13.6 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.

Syslog

Enable Syslog:

Server Address:

Server Port:

APP Log Level:

Export Log:

LAN Packet Capture

Main Screen:

Picture 155 - Web capture

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



13.7 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.

13.8 Common Trouble Cases

Table 29 - Trouble Cases

Trouble Case	Solution
Device could not boot up	<ol style="list-style-type: none"> 1. First consider the situation that the battery has been exhausted, and charge the device. Please use the charger configured at the time of purchase when charging. 2. If you see the phone enter "POST mode", it means that the phone

	<p>system is damaged. Please contact technical support to help you restore the phone system.</p>
<p>Device could not register to a service provider</p>	<ol style="list-style-type: none"> 1. Please check whether the phone is connected to the network. The phone needs to be connected to a wireless network, and check whether the wireless icon is normal. If the icon shows  or , the network is unavailable, please check the network facilities. 2. Please check whether the phone has an IP address. Check the system information. If the IP address is Negotiating..., it means that the phone has not obtained an IP address. Please check whether the network configuration is correct. 3. If the network connection is good, please check your line configuration again. If all configurations are correct, please contact your service provider for support, or follow the instructions in "13.5 Network Packet Capture" to obtain a registered network packet and send it to the manufacturer's support mailbox to help analyze the problem.
<p>No Audio or Poor Audio in Handset</p>	<ol style="list-style-type: none"> 1. Please check whether the headset is connected, the headset icon is displayed in the upper right corner. After connecting the headset, the earpiece channel cannot be used; after unplugging the headset, the earpiece channel can be used. 2. At this point the network bandwidth and latency may not be suitable for audio calls.
<p>Poor Audio or Low Volume in Headset</p>	<ol style="list-style-type: none"> 1. Please use the Headset provided by manufacturer. 2. The network bandwidth and delay may be not suitable for audio call at the moment.
<p>Audio is chopping at far-end in Hands-free speaker mode</p>	<p>This is usually due to loud volume feedback from speaker to microphone. Please lower down the speaker volume a little bit, the phenomenon will be gone.</p>