

V60P/V60W/V60G User Manual

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3 Safety Instruction

3.1 Overview

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℃ or high humidity.
- Avoid wetting the unit with any liquid.
- Do not attempt to open it. Non-expert handling of the device could damage it. Consult your authorized dealer for help, or else it may cause fire, electric shock and breakdown.
- Do not use harsh chemicals, cleaning solvents, or strong detergents to clean it. Wipe it with a soft cloth that has been slightly dampened in a mild soap and water solution.
- When lightning, do not touch power plug, it may cause an electric shock.
- Do not install this phone in an ill-ventilated place. You are in a situation that could cause bodily injury. Before you work on any equipment, be aware of the hazards involved with electrical circuitry and be familiar with standard practices for preventing accidents.

3.2 FCC

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

4 Overview

4.1 Overview

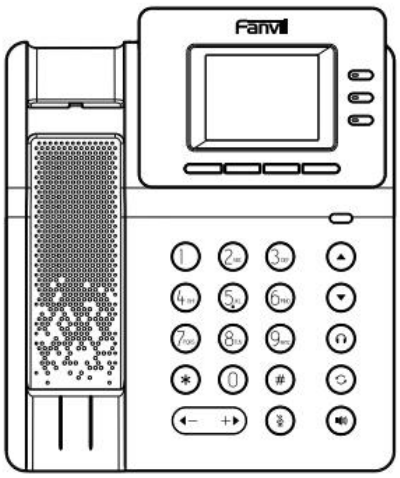
V60P/V60W/V60G series, which greatly improve enterprise production efficiency with advanced design, high cost performance, paperless office tool. It is not only a desktop phone, but also an elegant article that puts in the sitting room or office.

V60P/V60W is a 100Mbps network phone, while V60G is a 1000Mbps network phone that inherits many excellent features of traditional V-series phones, such as high-definition voice, headphones, and high-performance echo cancellation full duplex speakers, 100/1000 Mbps Ethernet QoS、 Encryption transmission, automatic configuration, etc; There are many advantages such as a brand new system, smooth operation, and flat interface settings.

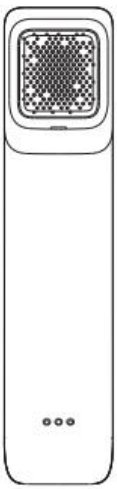
For enterprise users, V60P/V60W/V60G series are the cost-effective office equipment, while realizing environmental protection, they also provide convenient operation. Users can flexibly configure and define the functions of DSS keys, space saving and cost. It will be an ideal choice for enterprise users and family users who pursue the high quality and high efficiency.

In order to help some interested users better understand the details of the product, this user manual can be used as a reference guide for the use of V60P/V60W/V60G series. This document may not be applicable to the latest version of the software. If you have any questions, you can use the help prompt interface of the device phone, or download and update your user manual from the official website.

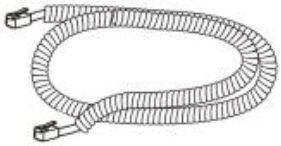
4.2 Packing Contents



Phone



Handset



Receiver cable



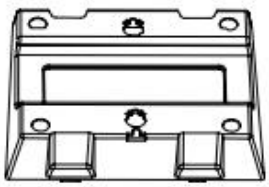
Stand



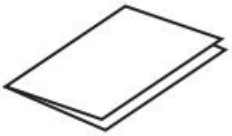
Network cable



Power adapter (Optional)



Wall-mounted bracket
(Need another purchase)



Quick Installation Guide

5 Desktop Installation

5.1 PoE and the use of external power adapters

The devices support two power supply modes from external power adapter or over Ethernet (PoE) complied switch.

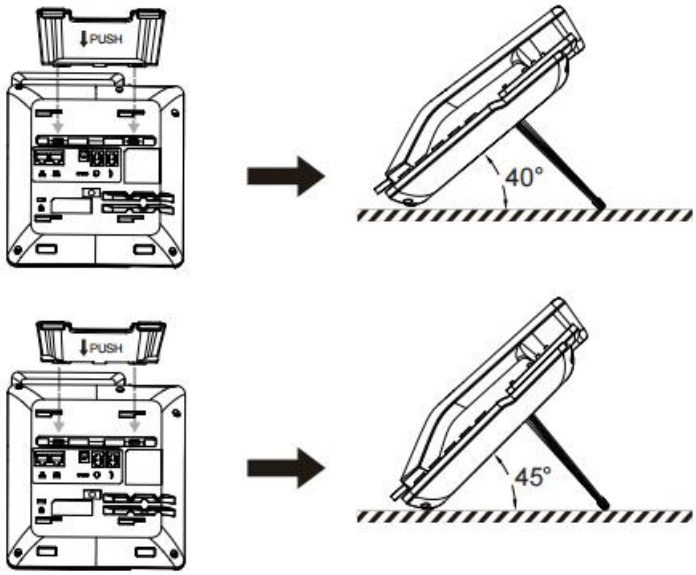
PoE power supply saves the space and cost of providing the device additional power outlet. With a PoE switch, the device can be powered through a single Ethernet cable which is also used for data transmission. By attaching UPS system to PoE switch, the device can keep working at power outage just like traditional PSTN telephone which is powered by the telephone line.

For users who do not have PoE equipment, the traditional power adaptor should be used. If the device is connected to a PoE switch and power adapter at the same time, PoE power supply will be used in priority will be used in priority and will switch to the power adapter once it fails.

Please use the power adapter supplied by Fanvil and the PoE switch met the specifications to ensure the device to work properly.

5.2 Desktop and wall mounted method

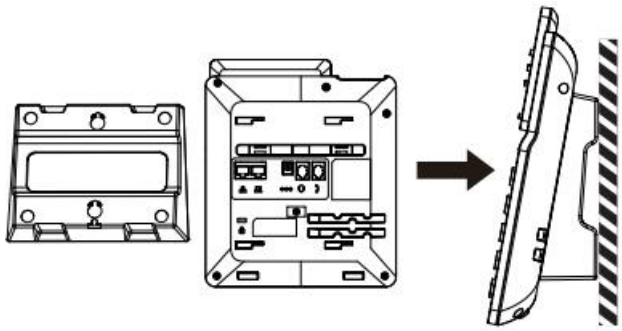
Please follow the instructions in below picture to install the device.



Picture 1 - Device installation

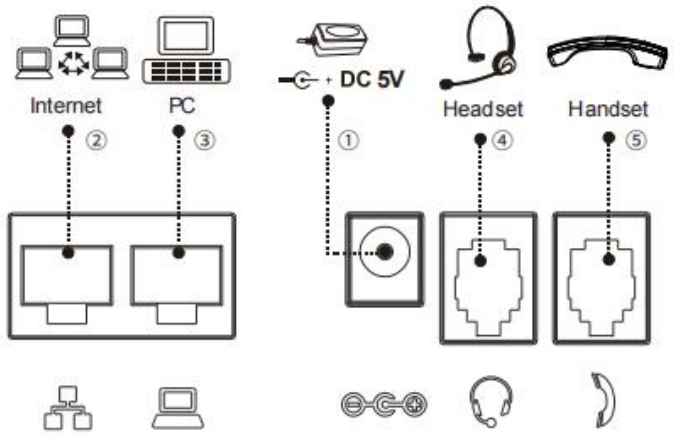
If the phone is mounted on the wall, please follow the instructions below to install it.

Noted: Wall mount Bracket needs to be purchased separately.



Picture 2 - Wall-mounted installation

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



Picture 3 - Connecting to the Device

Table 1- Hardware Interface Description

Index	Interface	Description
①	Power Port	Connecting Power Adapter
②	Network Port	Connecting to LAN or Internet
③	PC Port	Network Interface for Connecting Computer
④	Headset Port	Connecting Headset
⑤	Handset Port	Connecting Microphone Receiver

6 Appendix Table

6.1 Appendix I - Icon

Table 2 - Keypad Icons

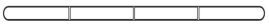
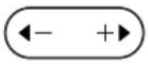
Icon	Description
	DSS Keys, It can be set as line key/function key/speed dial key, etc.
	Soft keys
	Information indicator
	Left&Right navigation key In idle mode or during ringing: increase or decrease ringer volumeIn communication: increase or decrease handset, headset or hands-free volume
	Up&Down navigation key Up navigation key, Shortcut to call log Down navigation key, Shortcut to Status
	Headset key, activate/deactivate headset
	Redial key, access to redial the last record
	Hand-free key, activate/ deactivate hands free
	In idle mode: activate/deactivate silent mode In communication mode: mute/un-mute a call

Table 3 - Status Prompt and Notification Icons

Icon	Description
	In hands-free mode

	In headset mode
	Handset mode
	Mute activated
	Silent mode
	Call is on hold
	Auto-answering activated
	Call forward activated
	Disable do not disturb(Beige)
	Do not disturb activated(Red)
	SIP hotspot activated
	VLAN activated
	VPN activated
	New SMS
	New VM message
	Voice quality level of call
	Keypad locked
	Forward call(s)
	Missed call
	Dialed call(s)

	Received call(s)
	Internet connected
	Internet is disconnected
	No IP address
	Wireless network connected
	Wireless network disconnected
	Wireless network failure。

6.2 Appendix II - Keyboard character query table

Table 4 - Look-up Table of Characters

Mode Icon	Text Mode	Key Button	Characters Of Each Press
123	Numeric	1	1
		2	2
		3	3
		4	4
		5	5
		6	6
		7	7
		8	8
		9	9
		0	0
		*	*.:/@[],+-_='?\"|;()<>{}
		#	#
abc	Lower Case Alphabets	1	@:;()<>[]{}
		2	0
		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)
		*	.,*/+-:_= ’?\”|
		#	# ^!&$% £ ¥ ¤~¡ ¿ §
ABC	Upper Case Alphabets	1	@:;()<>[]{}
		2	A B C
		3	D E F
		4	G H I
		5	J K L
		6	M N O
		7	P Q R S
		8	T U V
		9	WZYX
		0	(space)
		*	.,*/+-:_= ’?\”|
		#	# ^!&$% £ ¥ ¤~¡ ¿ §
2aB	Mixed type input	1	1
		2	2 a b c A B C
		3	3 d e f D E F
		4	4 g h I G H I
		5	5 j k l J K L
		6	6 m n o M N O
		7	7 p q r s P Q R S
		8	8 t u v T U V
		9	9 w z y x W Z Y X
		0	0
		*	.*:/@[],+-_=’?\”|;()<>{}
		#	# ^!&$% £ ¥ ¤~¡ ¿ §
Abc	Initial capital letter	1	@:;()<>[]{}
		2	A B C a b c
		3	D E F d e f

		4	G H I g h i
		5	J K L j k l
		6	M N O m n o
		7	P Q R S p q r s
		8	T U V t u v
		9	W X Y Z w x y z
		0	(space)
		*	.,*/+-:_= ’?\”|
		#	# ^!&$% £ ¥ ¤~¡ ¿ §

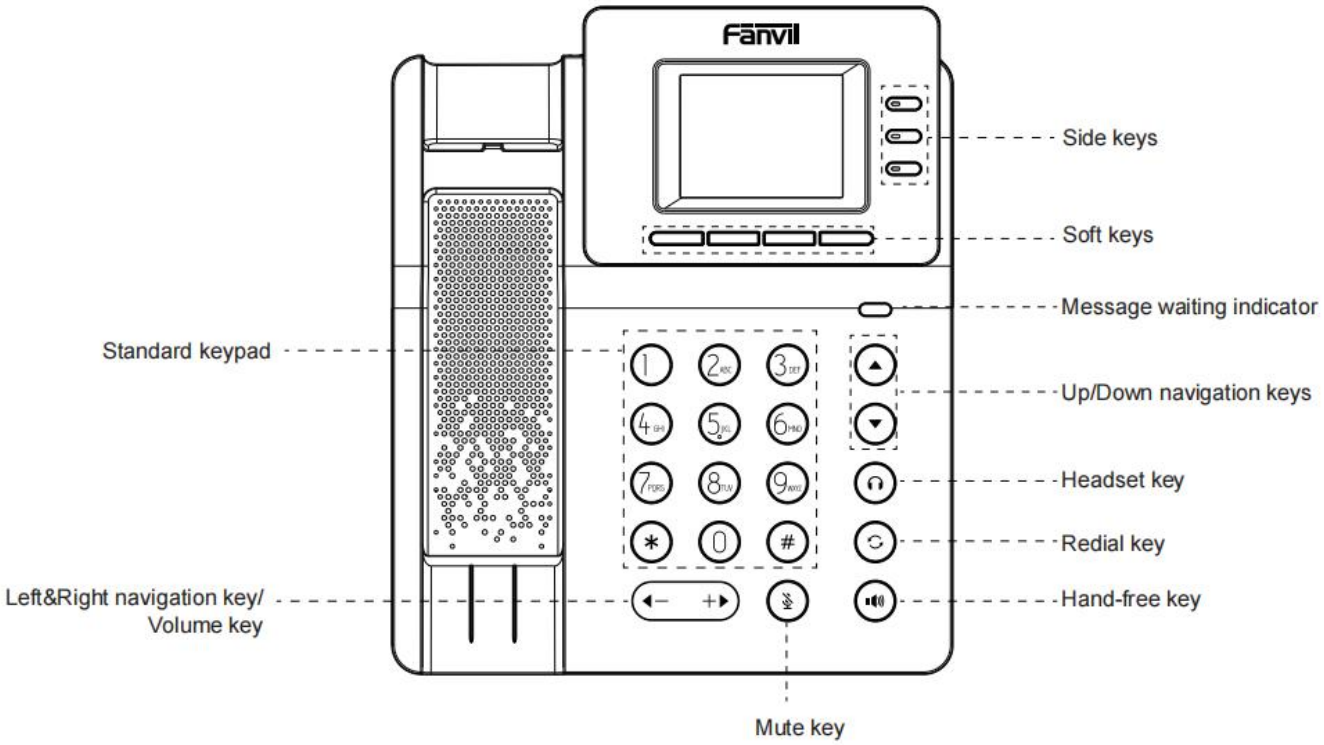
6.3 Appendix III- LED Definition

Table 5 - DSS KEY LED State

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

7 Introduction to the User

7.1 Instruction of Keypad



Picture 4 - Instruction of Keypad

7.2 Using Handset / Hands-free Speaker / Headphone

- **Using Handset**

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

- **Using Hands-free Speaker**

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

- **Using Headphone**

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

■ **Using Line Keys (Defined by DSS Key)**

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

7.3 Idle Screen



Picture 5 - Screen layout/default home screen

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

The upper half of the home screen shows the status of the device, information and data that can be edited (such as auto answer, do not disturb, lock status, network connection status, etc.).

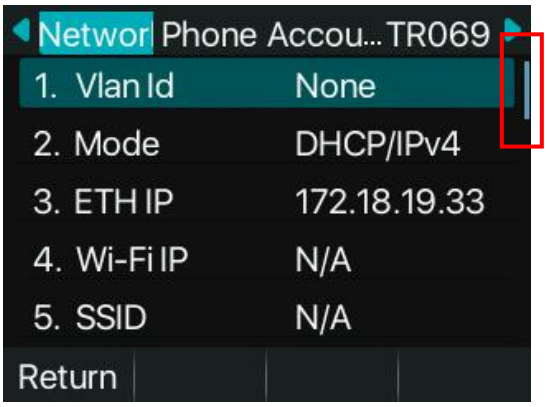
The lower half of the area are the function menu keys, which are also the first layer of function menu keys, through which users can operate the phone.

Users can restore the phone to the default standby screen interface by picking up and dropping the handle.

The left and right part of the area shows default configuration of Side keys, which dynamically display the configuration of SIP information, message, headset, etc., which can be customized by users.

The icon description is described in 6.1 appendix I.

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

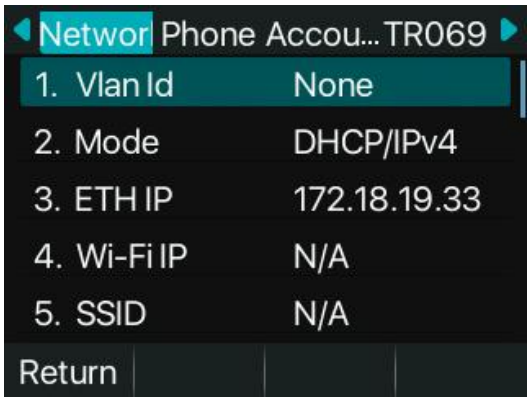


Picture 6 - Scroll icon

7.4 Phone Status

The phone status includes the following information about the phone:

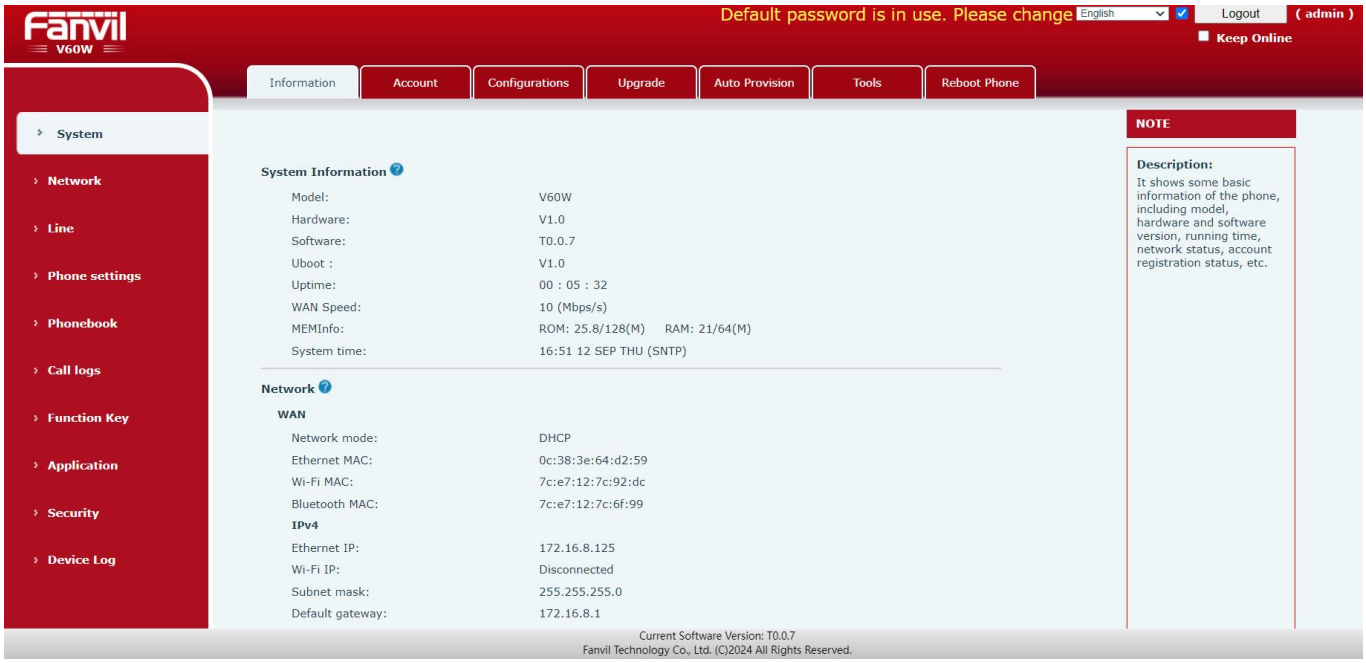
- Network Status:
  VLAN ID
  IPv4 or IPv6 status
  IP Address
  Wi-Fi IP
  SSID
- The Phone Device Information:
  ETH MAC
  SN
  Wi-Fi MAC(Only V60W)
  Bluetooth MAC(Only V60W)
  Phone Mode
  Hardware Version number
  Software Version number
  Uboot
  Phone Storage (RAM and ROM)
  System Running Time
- SIP Account Information:
  SIP Account
  SIP Account Status (register / Inactive /Register Failed)
- 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 7 - The Phone status

- WEB interface: Refer to 7.5 Web management to log in the phone page, enter the 【**System**】 >>

【**Information**】 page, and check the phone status, as shown in the figure:



Picture 8 - WEB phone status

7.5 Web Management

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



Picture 9 - Landing page

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

7.6 Network Configurations

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

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

NOTICE! If user saw a  ***'WAN Disconnected' icon flashing in the middle of screen, it means the network cable was not correctly connected to the device's network port. Please check the cable is connected correctly to the device and to the network switch, router, or modem.***

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

There are three common IP configuration modes about IPv4

- Dynamic Host Configuration Protocol (DHCP) – This is the automatic configuration mode by getting network configurations from a DHCP server. Users don't need to configure any parameters manually. All configuration parameters will be getting from DHCP server and applied to the device. This is recommended for the most users.

Static IP Configuration – This option allows user to configure each IP parameters manually, including IP Address, Mask, Gateway and Primary DNS 、Secondary DNS This is usually used in a technical environment of network users.

- PPPoE - This option is often used by users who connect the device to a broadband modem or router. To establish a PPPoE connection, user should configure username and password provided by the service provider.

  The device is default configured in DHCP mode.

  There are three common IP configuration modes about IPv6

- DHCP - This is the automatic configuration mode by getting network configurations from a DHCP server. Users need not to configure any parameters manually. All configuration parameters will be getting from DHCP server and applied to the device. This is recommended for most users.

Static IP configuration - this option allows users to manually configure each IP parameter, including IP address, IPV6 Prefix、Gateway、Primary DNS 、Secondary DNS

- . This usually applies to some professional network user environments.

  Please see 10.7.2.1 network Settings for detailed configuration and use.

7.7 SIP Configurations

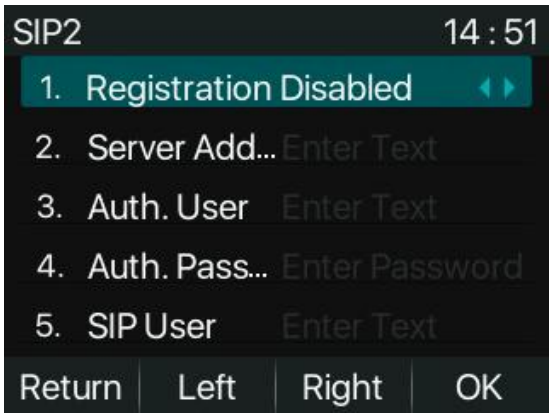
A line must be configured properly to be able to provide telephony service. The line configuration is like a virtualized SIM card on a mobile phone which stores the service provider and the account information used for registration and authentication. When the device is applied with the configuration,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

- Phone interface: To manually configure a line, the user can press the line key for a long time, or press the

button in the function menu [**Menu**] >> [**Advanced**] >> [**Accounts**] >> [**Line n**] configuration, click ok to save the configuration.

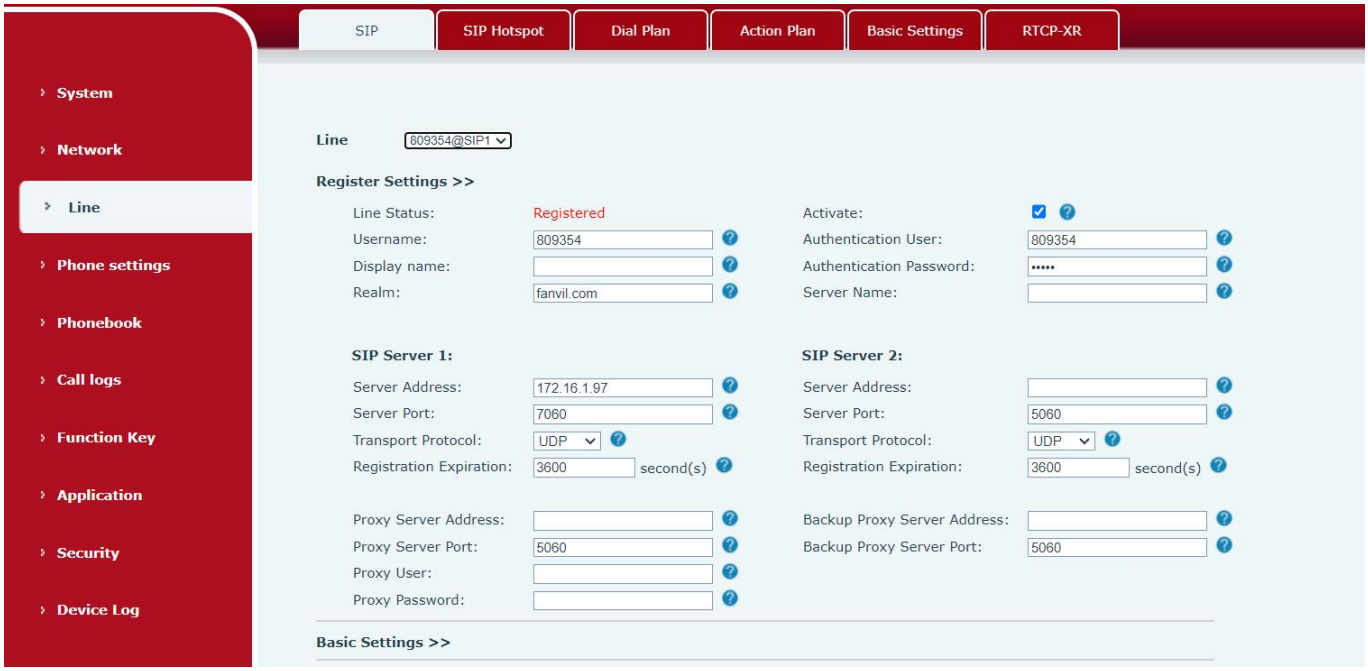
NOTICE! User must enter correct PIN code to be able to Systems to edit line configuration. (The default PIN is 123)

The parameters and screens are listed in below pictures.



Picture 10 - Phone line SIP address and account information

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



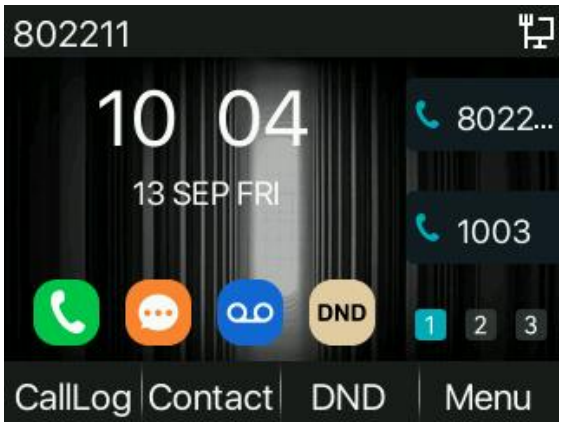
Picture 11 - Web SIP registration

8 Basic Function

8.1 Making Phone Calls

■ **Default Line**

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



Picture 12 - Default line

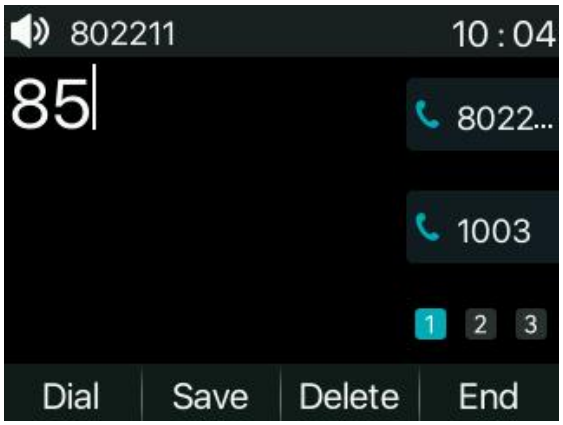
■ **Dialing Methods**

User can dial a number by,

- Entering the number directly
- Selecting a phone number from phonebook contacts (Refer to 10.2.1 Local contacts)
- Selecting a phone number from cloud phonebook contacts (Refer to 10.2.3 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**

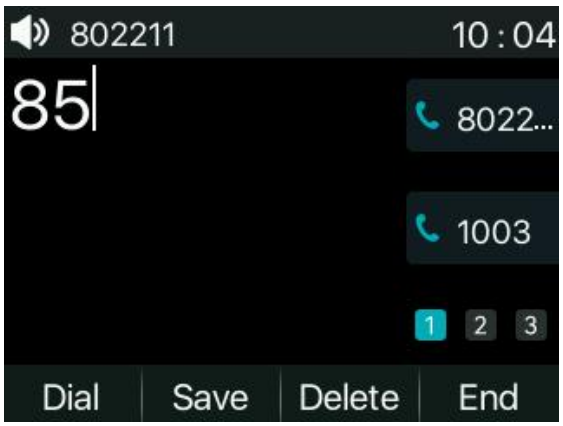
To make a phone call, user can firstly dial a number by one of the above methods. When the dialed number is completed, user can press [**Dial**] button on the soft-menu, or press hand-free button to turn on the speaker or headphone, or lift the handset to call out with the current line, or user can press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



Picture 13 - Enable voice channel dialing

- **Opening Audio then Dialing the Number**

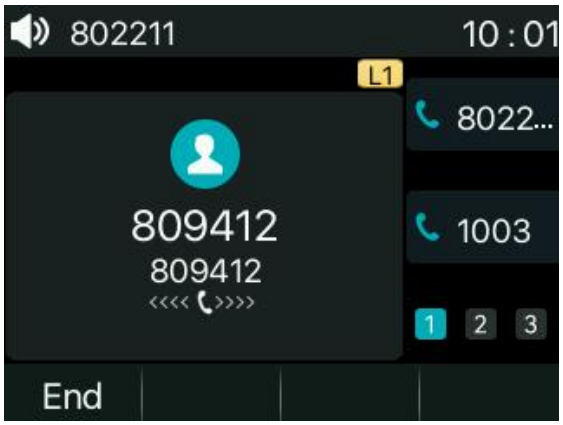
Another alternative is the traditional way to firstly open the audio channel by lifting the handset, then turn on the hands-free speaker or headphone by pressing hands-free button, or line key, and then dial the number with one of the above methods. When completing the number dial, user can press [**Dial**]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



Picture 14 - Open the voice channel and dial the number

- **Cancel Call**

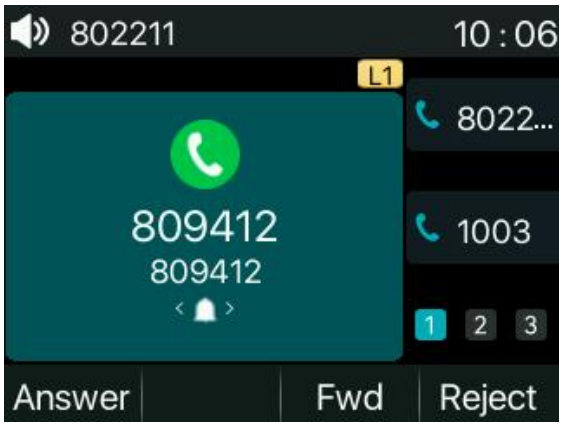
While calling the number, user can stop the audio channel by putting back the handset or pressing the hands-free button to drop the call.



Picture 15 - Call number

8.2 Answering Calls

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

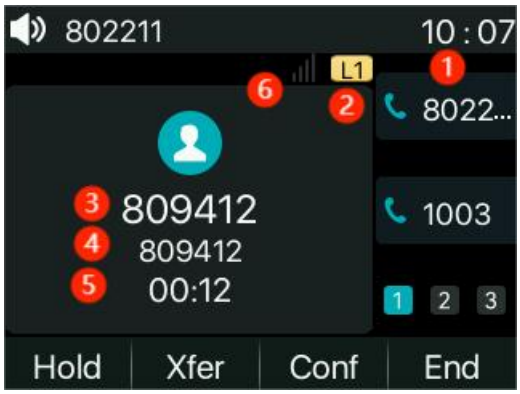


Picture 16 - Answering calls

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

8.2.1 Talking

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



Picture 17 - Talking interface

Table 6 - Talking mode

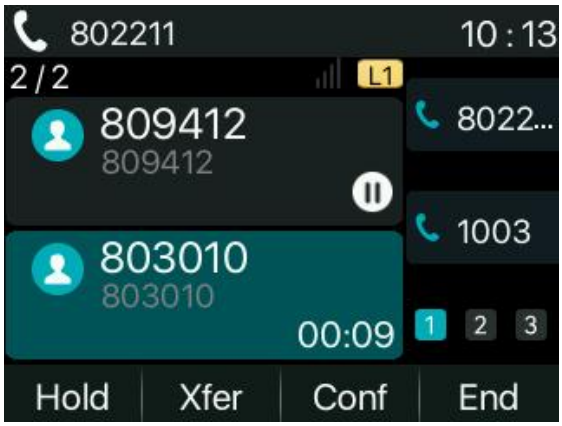
Number	Name	Description
①	Voice channel	The icon shows the voice channel mode being used.
②	Default line	The line currently used by the phone.
③	The name of the far end	The name of the person on the other end of the call.
④	The number of the far end	The number of the person on the other end of the call.
⑤	Call duration	The duration of a call after it has been established.
⑥	Speech quality	Displays the current voice quality of the call.

8.2.2 Make / Receive Second Call

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

■ **Second Incoming Call**

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



Picture 18 - The second call interface

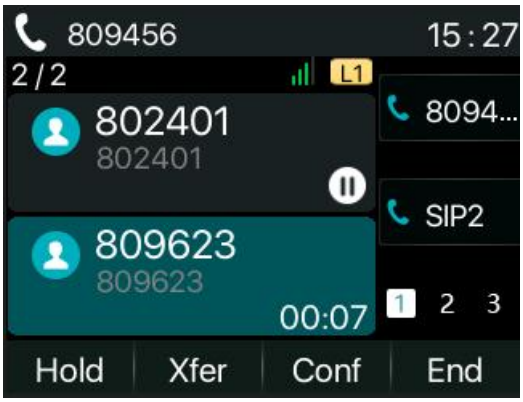
■ **Second Outgoing Call**

To make a second call, user may press [**Xfer**] / [**Conf**] button to make a new call on the default line or press the line key to make new call on specific line. Then dial the number the same way as making a phone call. Another alternative for making second call is to press DSS Keys or dial out from the configured Keys (BLF/Speed Dial). When the user is making a second call with the above methods, the first call could be held

on manually or will be held on automatically at second dial.

- **Switching between Two Calls**

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



Picture 19 - Two way calling

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

- **Ending One Call**

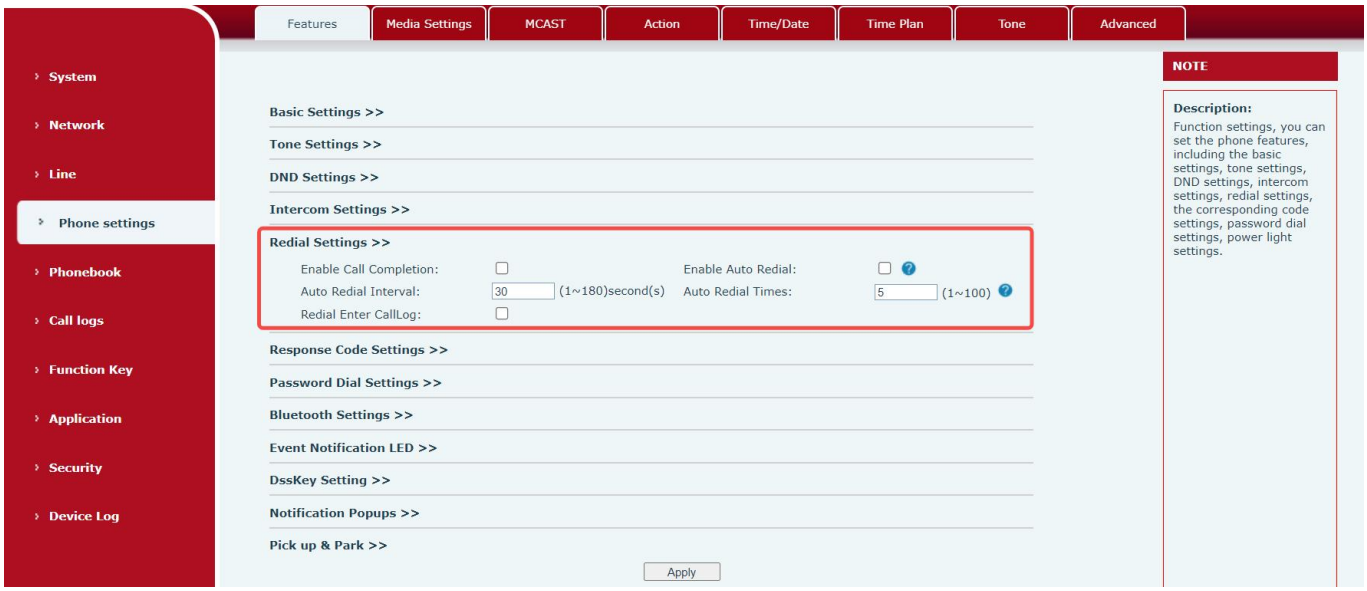
User may hang up the current talking call by closing the audio channel or press [**End**] button. The device will return to single call mode in holding state.

8.3 End of the Call

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

8.4 Redial

- Redial the last outgoing number:
  When the phone is in standby mode, press the redial button and the phone will call out the last outgoing number.
- Call out any number with the redial key:
  Enter the number, press the redial key, and the phone will call out the number on the dial.
- Press the redial key to enter the call record:
  Log in the phone page, enter [**Phone Settings**] >> [**Features**] >> [**Redial Settings**], check **Redial** to enter the call record page, press the redial button when standby to enter the call record page, and press again to call out the current located number.



Picture 20 - Redial set

8.5 Dial-up Query

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

8.6 Auto-Answering

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

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

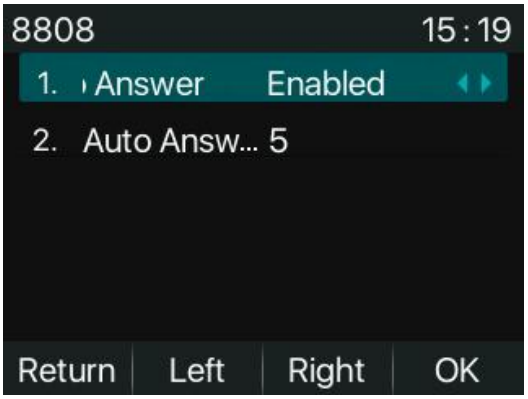
- **Phone interface:**

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

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

After completion, press [**OK**] key to save;

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



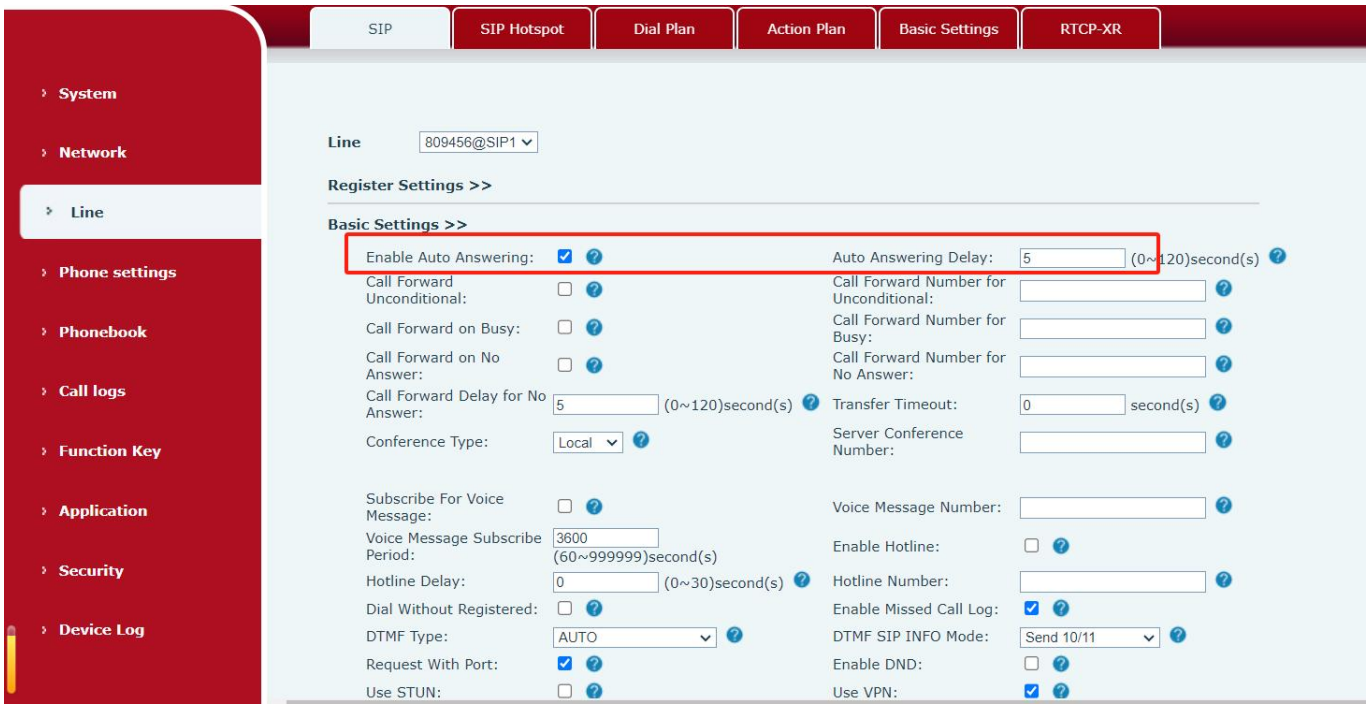
Picture 21 - Line 1 enables auto-answering



Picture 22 - The line has enabled auto-answering

- **WEB interface:**

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



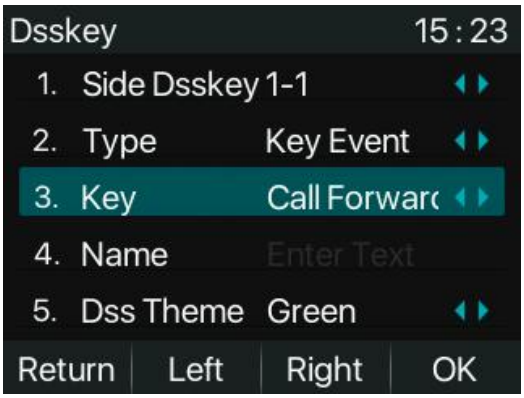
Picture 23 - Web page to start auto-answering

8.7 Callback

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

- Set the callback key through the phone interface:

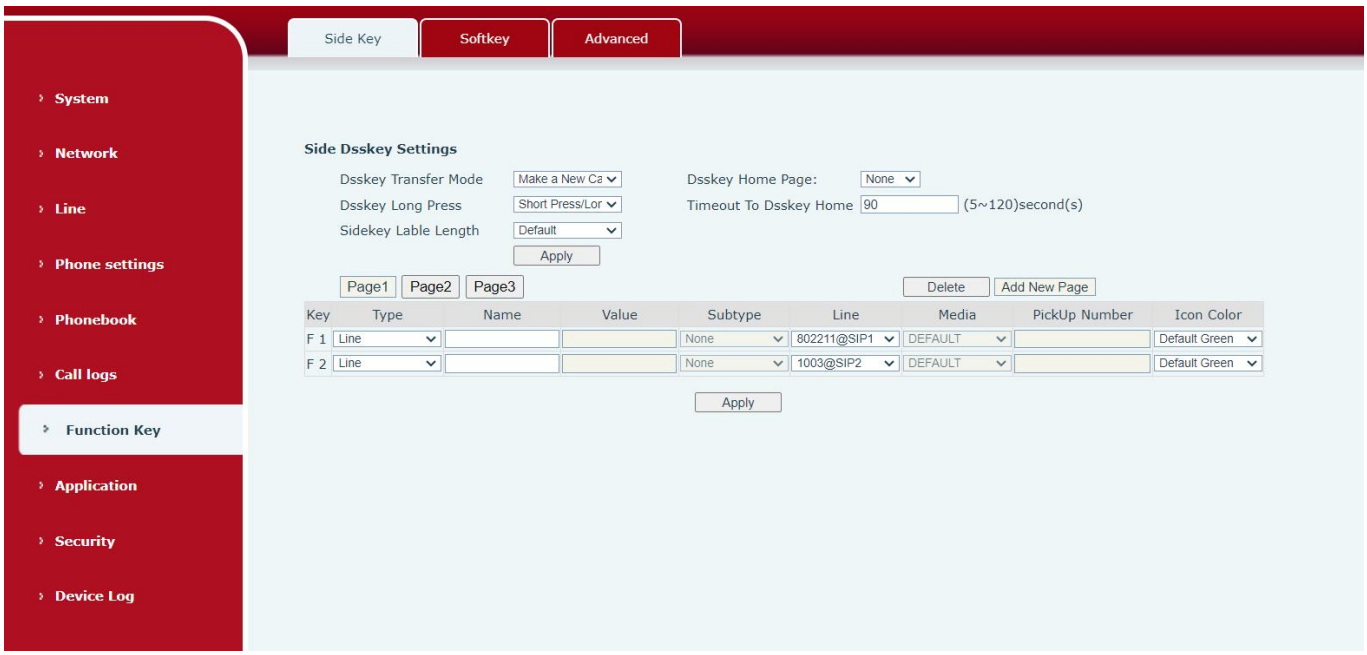
Under standby, press [**Menu**] >> [**Basic**] >> [**Keyboard**] >> **[DSS Key Settings],**choose a side dsskey to set up the, key type, and input the callback key name, press [**OK**] key to save.



Picture 24 - Set the callback key on the phone

- Set the callback key through the web interface:

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



Picture 25 - Set the callback key on the web page

8.8 Mute

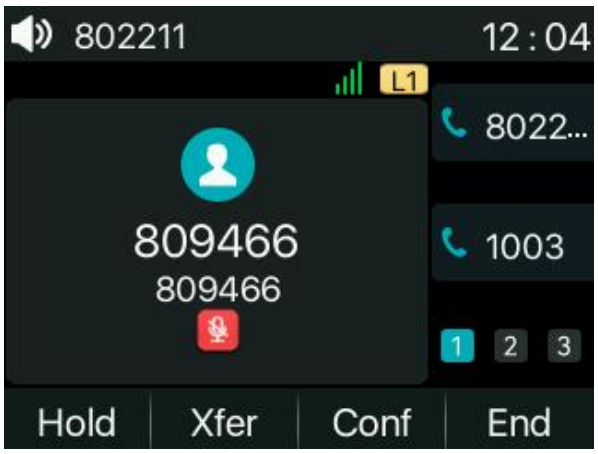
You can turn on mute mode during a call and turn off the microphone so that the local voice is not heard. Normally, mute mode is automatically turned off at the end of a call. You can also turn on mute on any screen (such as the free screen) and mute the ringtone automatically when there is an incoming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

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

8.8.1 Mute the Call

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

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



Picture 26 - Mute the call

- Cancel mute: press cancel mute on the phone again. The mute icon is no longer displayed in the

call screen. The red light is off by mute button.

8.8.2 Ringing Mute

- Mute: press the mute button when the phone is in standby mode:

  The top right corner of the phone shows the bell mute icon, when there is an incoming call, the phone will display the incoming call interface but will not ring.

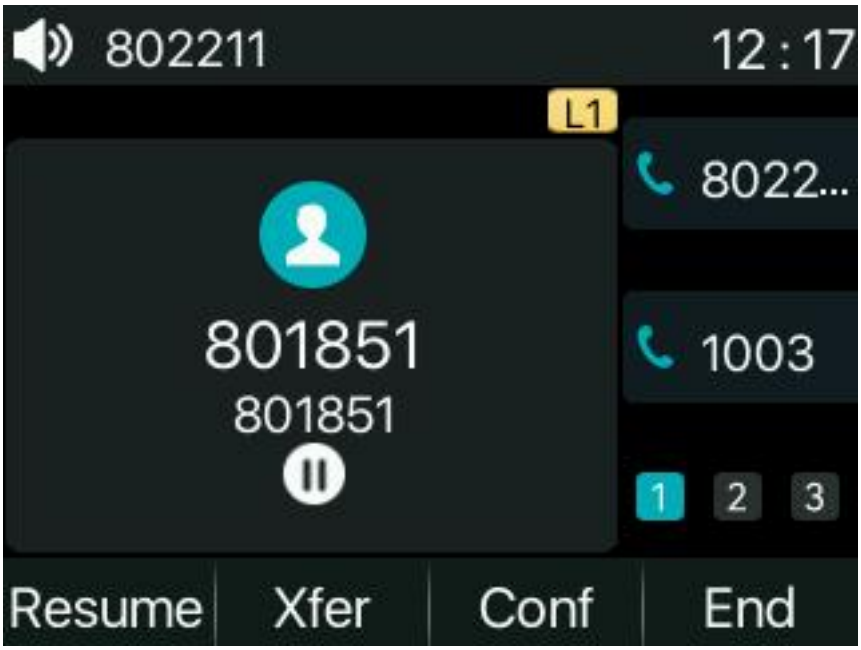


Picture 27 - Ringing mute

- Cancel ring tone mute: On the standby or incoming call screen, press the mute button again or volume up cancel ring tone mute, no longer shows mute icon in upper right corner after cancel .The phone mute icon is off .

8.9 Call Hold/Resume

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



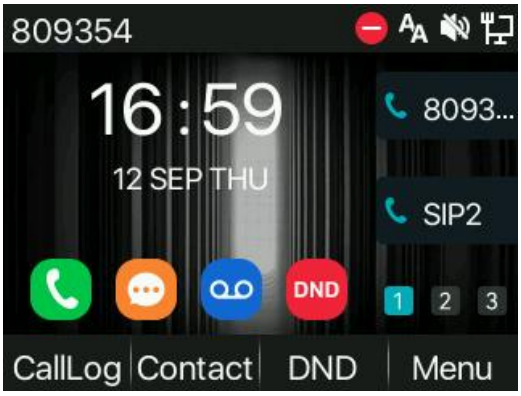
Picture 28 - Call hold interface

8.10 DND

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

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

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

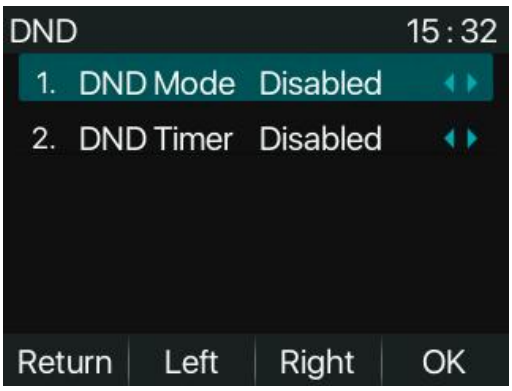


Picture 29 - Enable DND

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

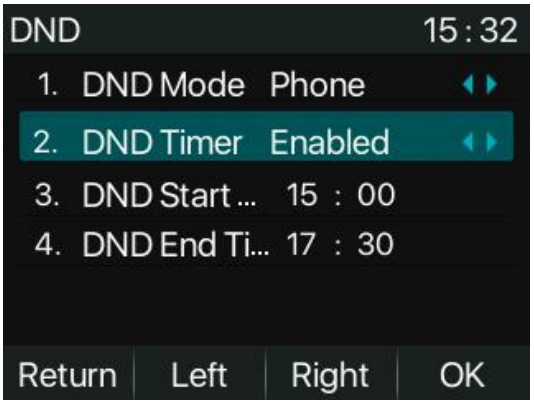
1) Press [**Menu**] >> [**Features**] >> [**DND**] button, Enter the [**DND**] to edit the interface.
2) Click the left/right navigation button to select the line to adjust the mode and state of "do not disturb", and then press the [**OK**] button to save.

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



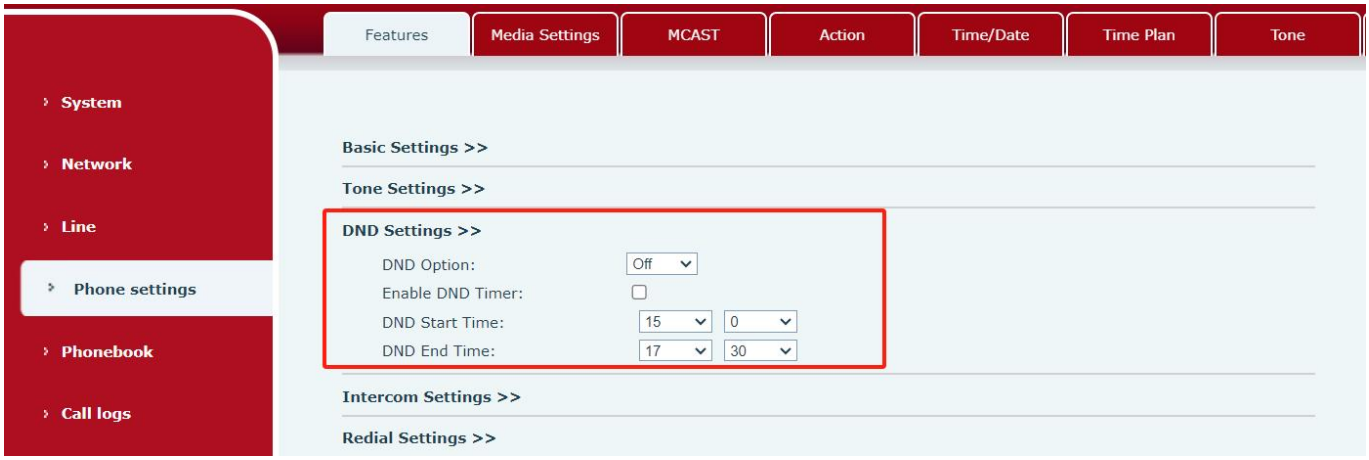
Picture 30 - DND setting interface

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



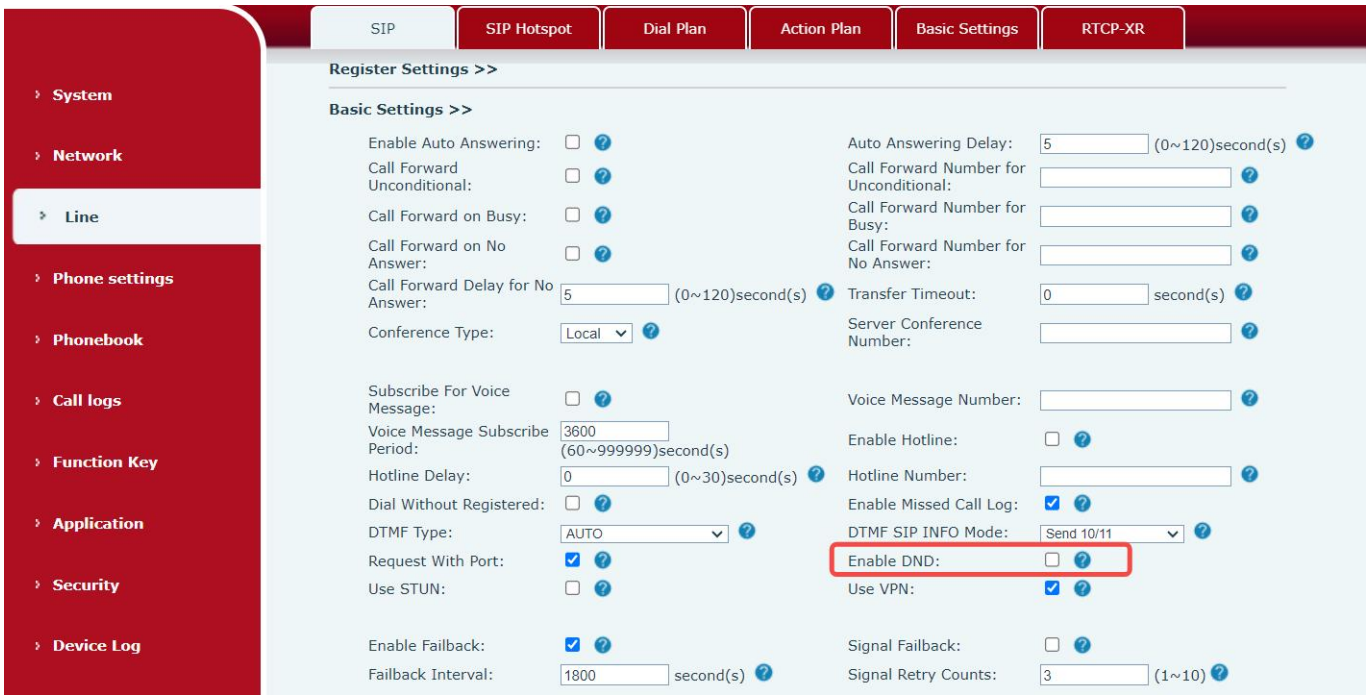
Picture 31 - DND timer

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



Picture 32 - DND Settings

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



Picture 33 - Line DND

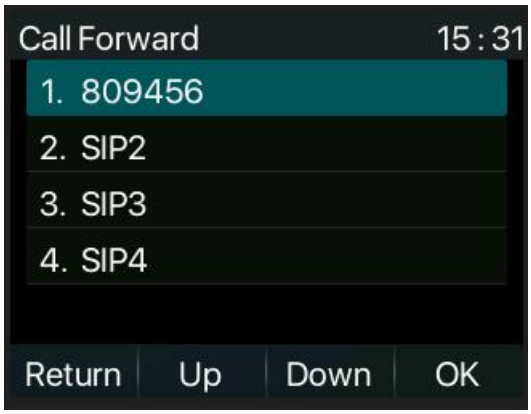
8.11 Call Forward

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

There are three types,

- **Unconditional Call Forward –** Forward any incoming call to the configured number.
- **Call Forward on Busy –** When user is busy, the incoming call will be forwarded to the configured number.
- **Call Forward on No Answer –** When user does not answer the incoming call after the configured delay time, the incoming call will be forwarded to the configured number. (Call Waiting needs to be disabled.)
- 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.



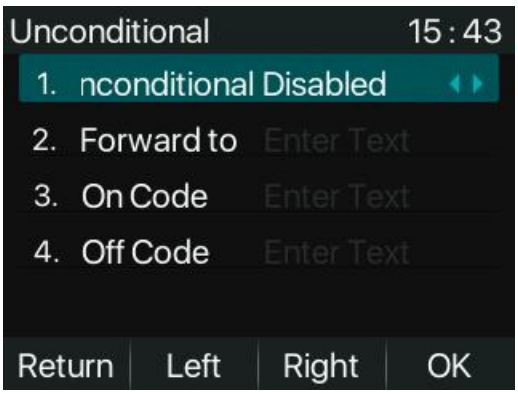
Picture 34 - Select the line to set up call forwarding

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



Picture 35 - Select call forward type

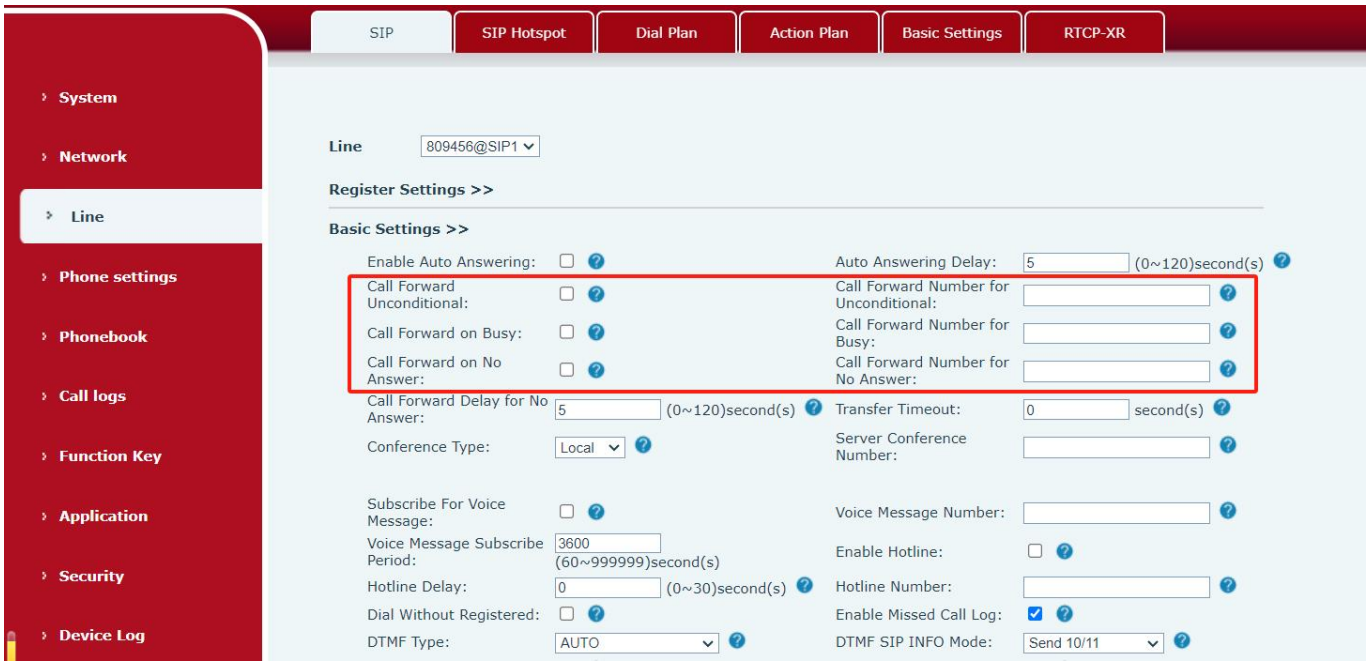
3) Select enable/disable by pressing the left/right navigation button.



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

4) Browse the parameters set by the up/down navigation key and enter the required information. When finished, press the [**OK**] button to save the changes.

- WEB interface: Enter [**Line**] >> [**SIP**], Select a [**Line**] >> [**Basic settings**], and set the type, number and time of forward forwarding.



Picture 37 - Set call forward

8.12 Call Transfer

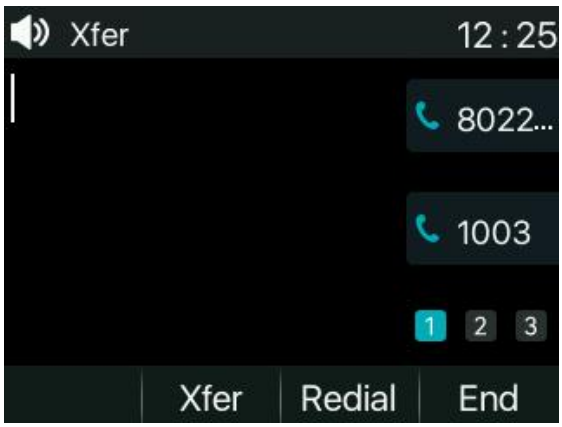
When the user is talking with a remote party and wish to transfer the call to another remote party, there are three way to transfer the call, blind transfer, attended transfer and Semi-Attended transfer.

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

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

8.12.1 Blind transfer

During the call, the user presses the function menu button [**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 38 - Transfer interface

8.12.2 Semi-Attended transfer

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

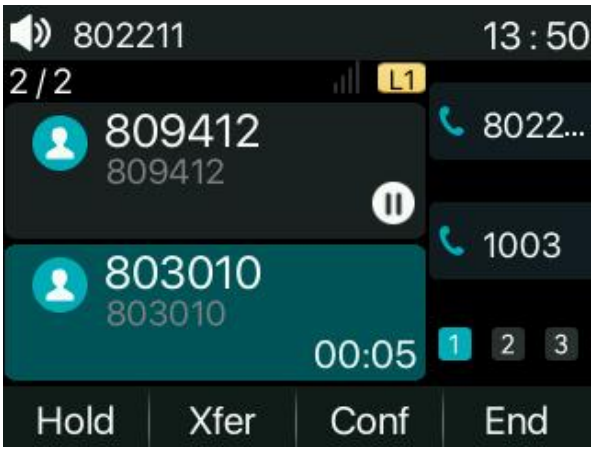


Picture 39 - Semi-Attended transfer

8.12.3 Attended transfer

Attendance transfer is also known as "courtesy mode", which is to transfer the call by calling the other party and waiting for the other party to answer the call.

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



Picture 40 - Attended transfer

8.13 Call Waiting

- Enable call waiting: new calls can be accepted during a call.
- Disable call waiting: new calls will be automatically rejected and a busy tone will be prompted.
- Enable call waiting tone: when you receive a new call on the line, the tone will beep.

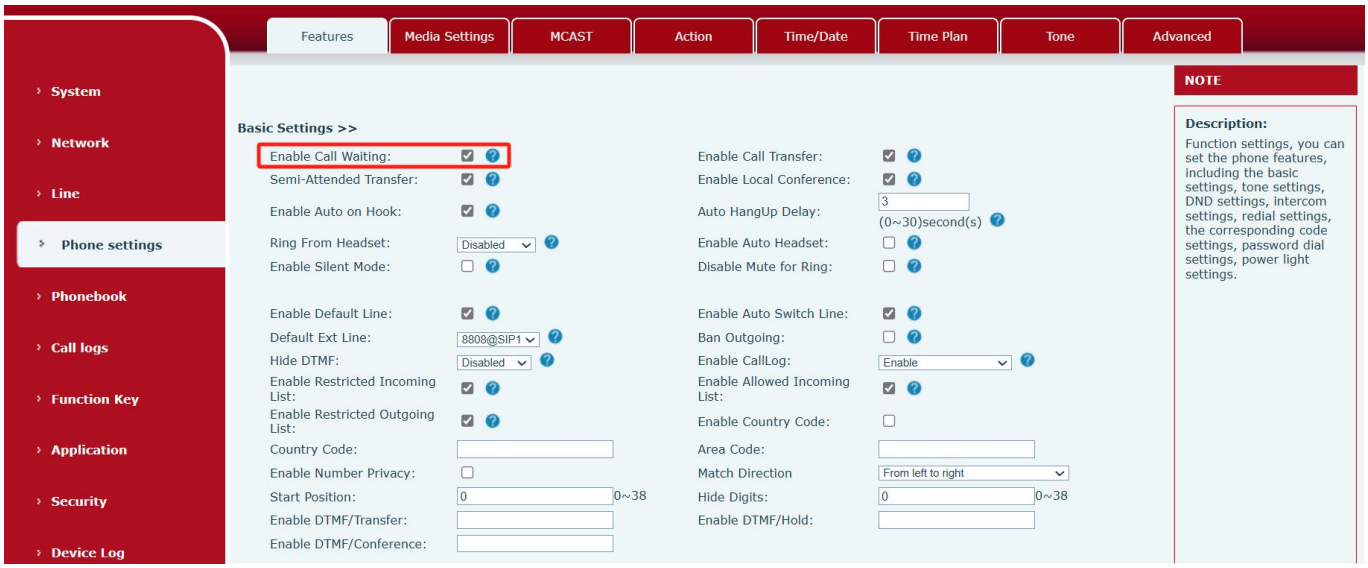
The user can enable/disable the call waiting function in the phone interface and the web interface.

- Phone interface: Press [**Menu**] >> [**Features**] >> [**Call waiting**], the navigation key and left/right button enable/disable call waiting and call waiting tone. Press [**Menu**] >> [Features] >> [Call waiting], the navigation key and left/right button enable/disable call waiting and call waiting tone.

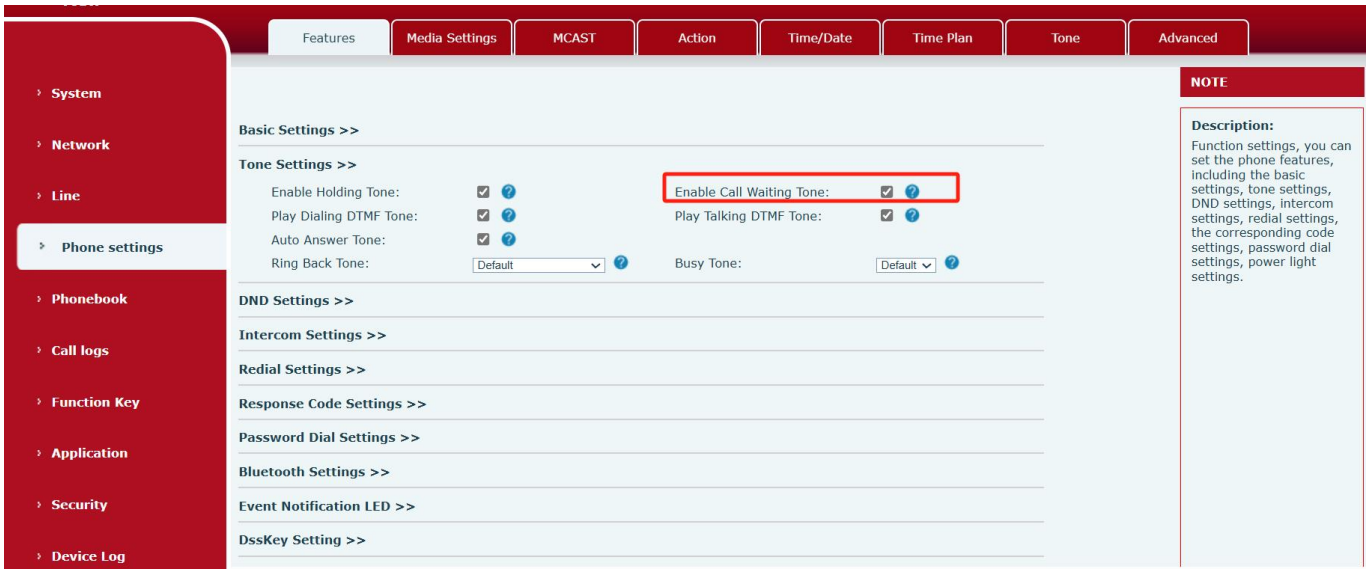


Picture 41 - Call waiting setting

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



Picture 42 - Web call waiting setting

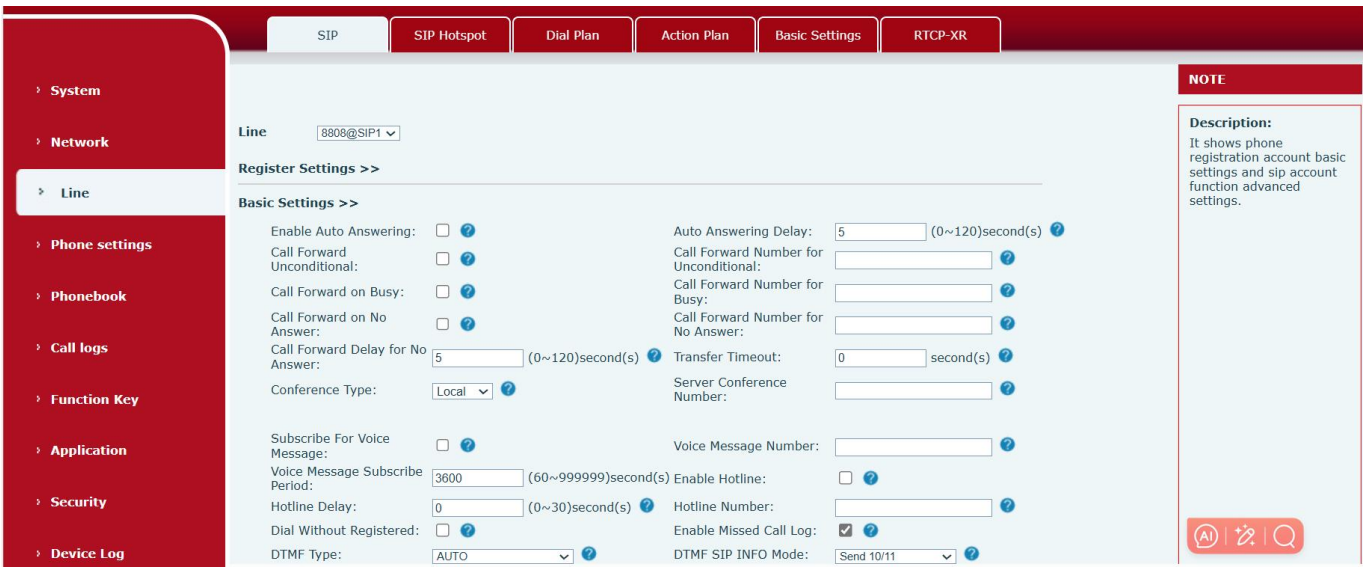


Picture 43 - Web call waiting tone setting

8.14 Conference

8.14.1 Local Conference

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



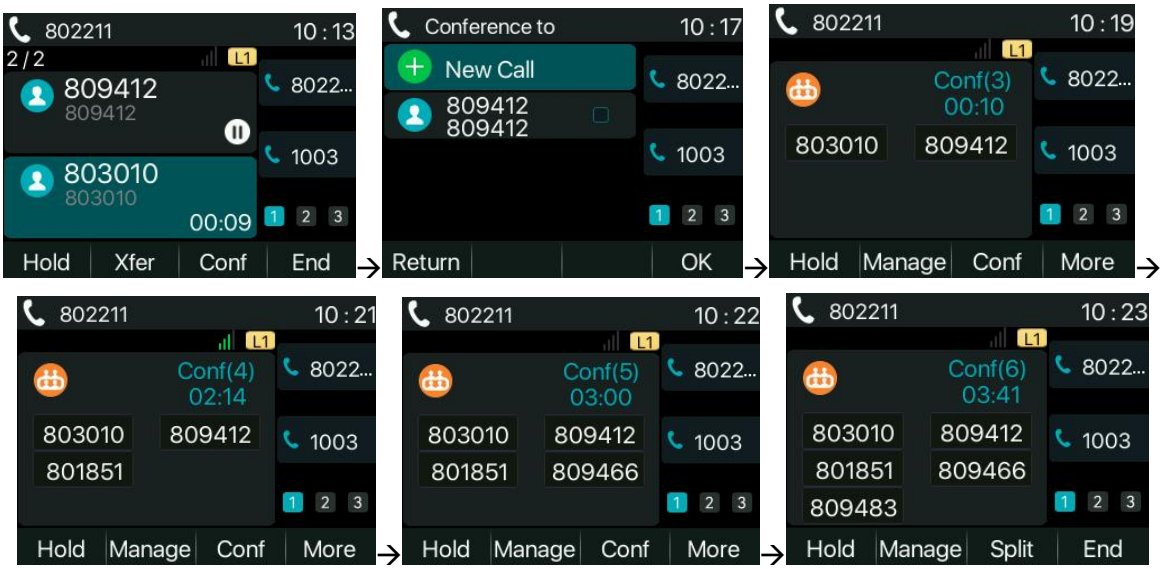
Picture 44 - Local conference setting

Two ways to create a local conference:

The device has two channels of communication. Press the conference button on the call interface. When selecting the conference number, select the other number that already exists to establish the local tripartite conference.When the equipment is in a tripartite conference

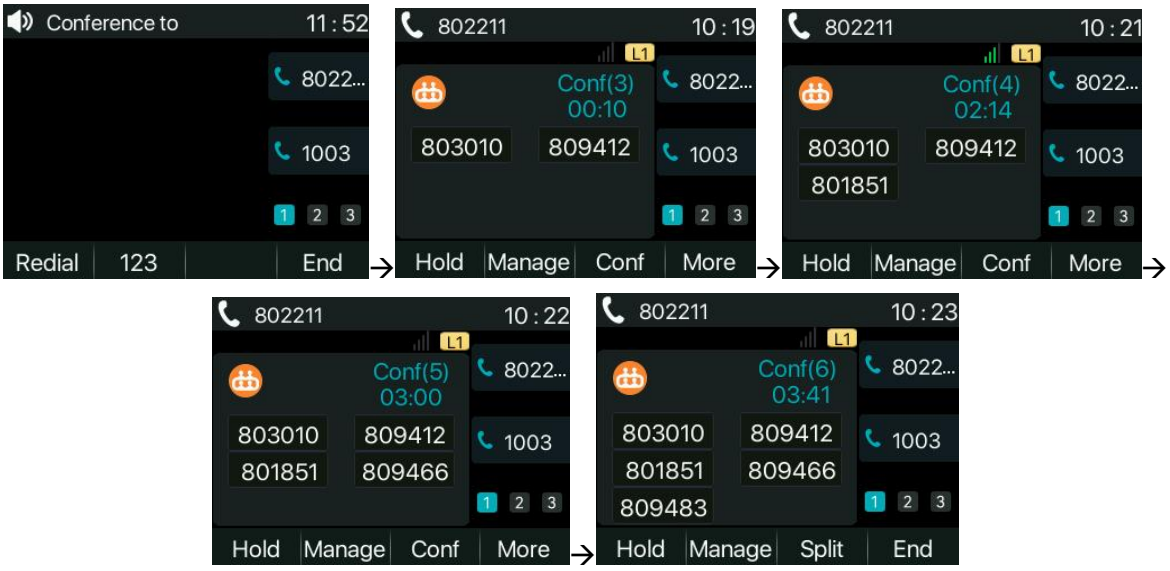
1) , you can call all the way, answer the meeting, and join the 4-Way conference. Similarly, they can join

5-Way conference and 6-Way conference.



Picture 45 - Local conference (1)

If the device has a call all the way, press the conference key in the call interface, enter the number to join the conference and press the call; After the opposite end is answered, press the conference button again to set up the local tripartite conference.In the same way, joining the five-way conference and the 6--way conference can be joined:



Picture 46 - Local conference (2)

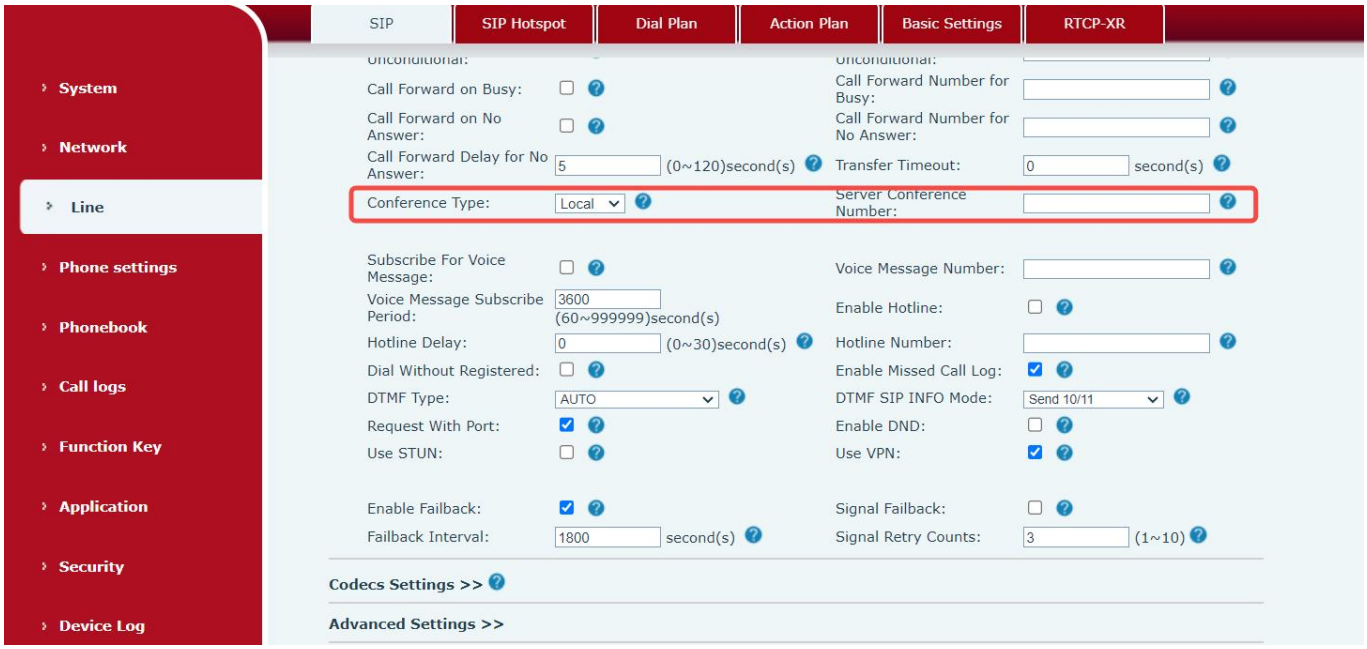
Note: During the conference, press the split button to split the conference and press the end button to end the call.

8.14.2 Network Conference

Users need server support for network conference.

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

as shown in the figure:



Picture 47 - 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 Call Park

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

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

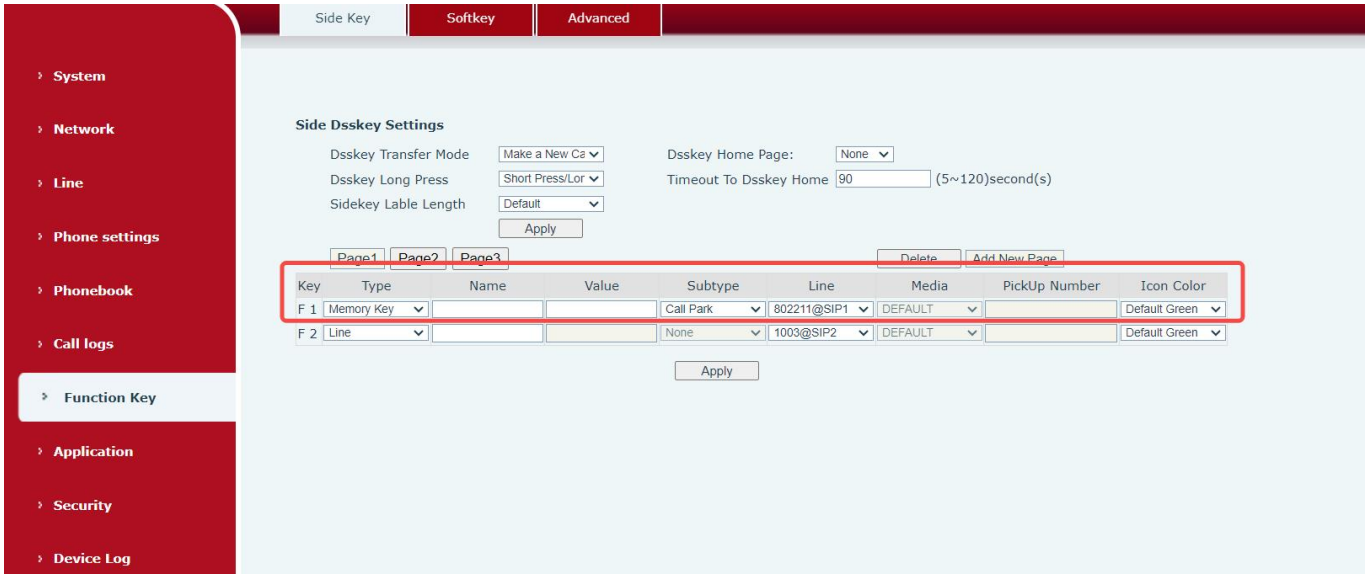
Set the call park button:

Phone interface: long press a function key to enter the function key Settings interface, or through the [**Menu**] >> [**Basic**] >> [Keyboard]>>[Function key]

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



Picture 48 - Phone set call park



Picture 49 - WEB set call park

8.16 Pick Up

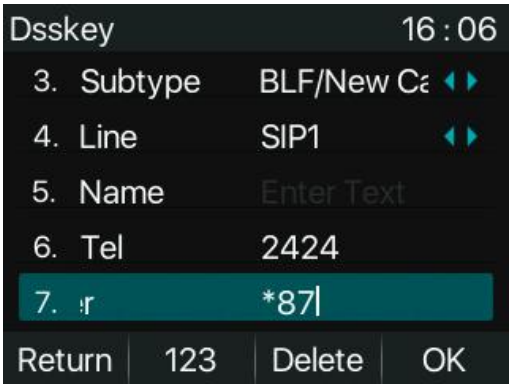
Pick up requires server support. Consult your system administrator for support.

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

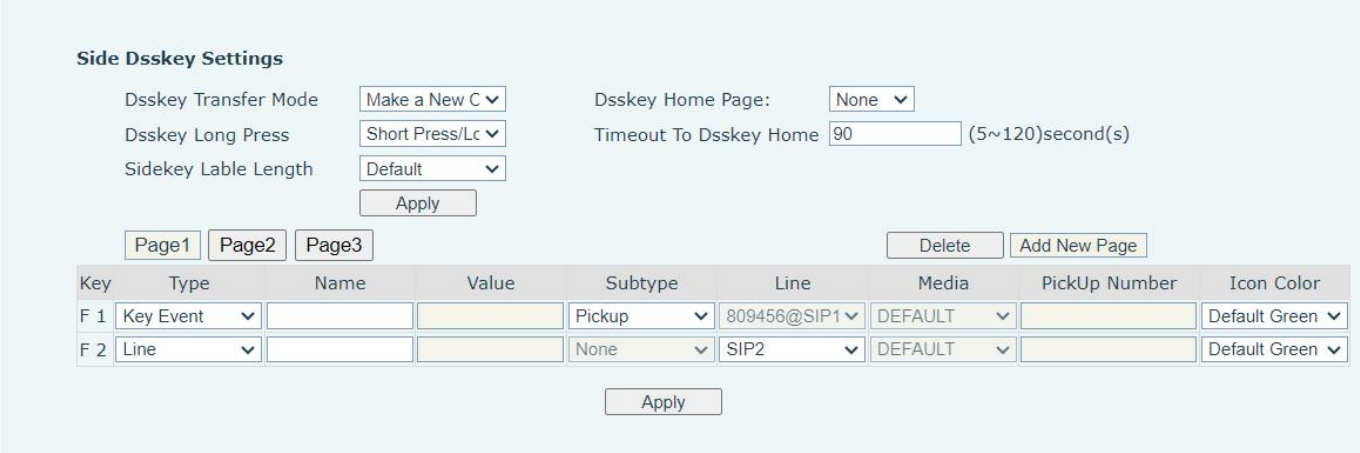
Phone interface: press [**Menu**] >> [**Basic**] >> [**Keyboard**] >> [**DSS Key Settings**], select the function key to set.

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

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



Picture 50 - Phone pick up setting



Picture 51 - web pick up setting

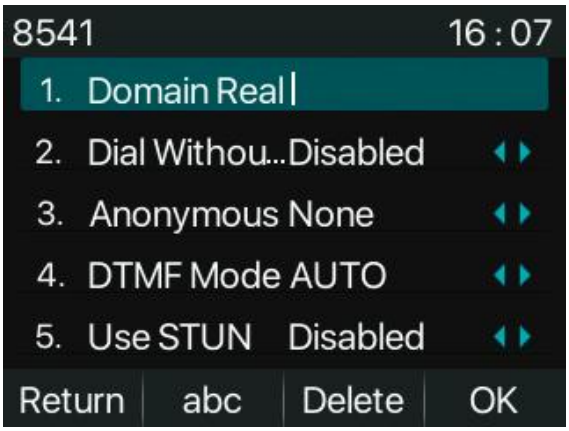
8.17 Anonymous Call

8.17.1 Anonymous Call

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

You can see anonymity in the context of [**Menu**] >> [**Advanced Setting**] >> [**Accounts**] >>[**SIP Line**]>>[**Advanced**]

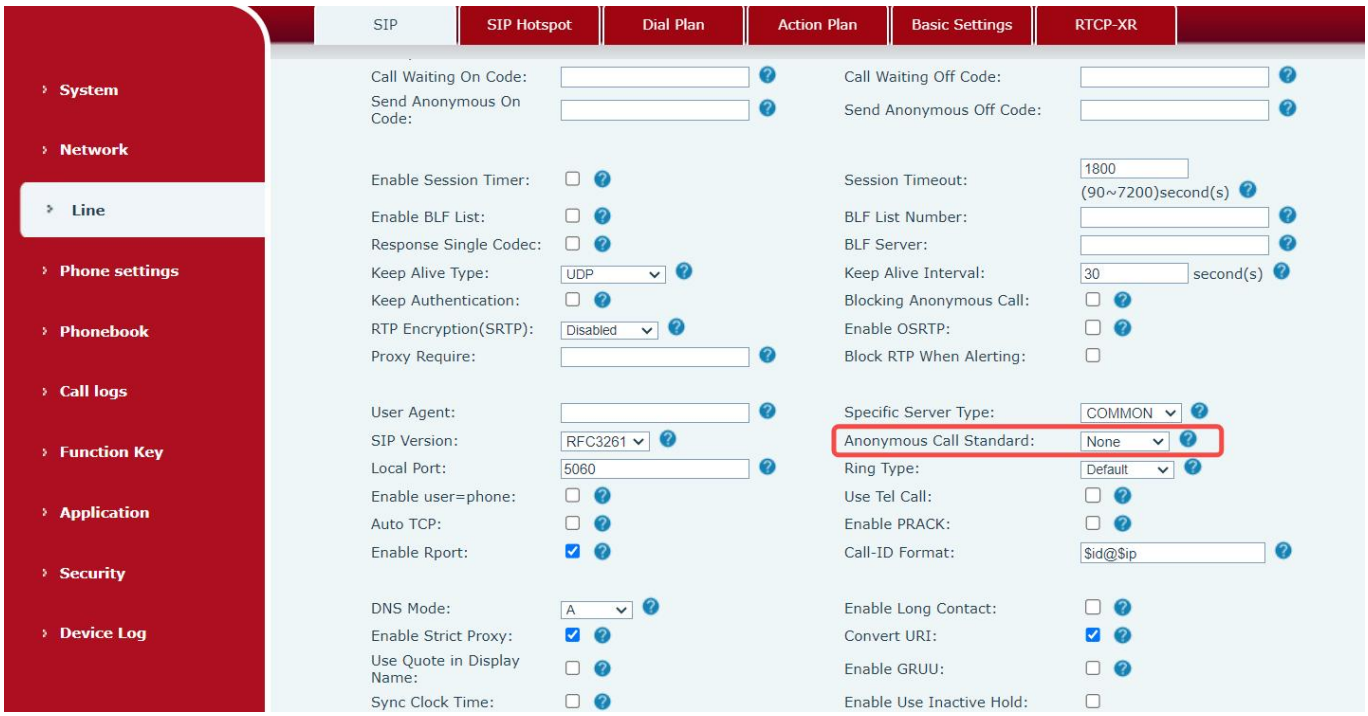
- The default is none, which is off, and RFC3323 and RFC3325 are optional.
- Select any one to open the anonymous call.



Picture 52 - Phone enable anonymous call

On the web page [**Line**] >> [**SIP**]>> [**Advanced Setting**] **s**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.



Picture 53 - Enable Anonymous web page call

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

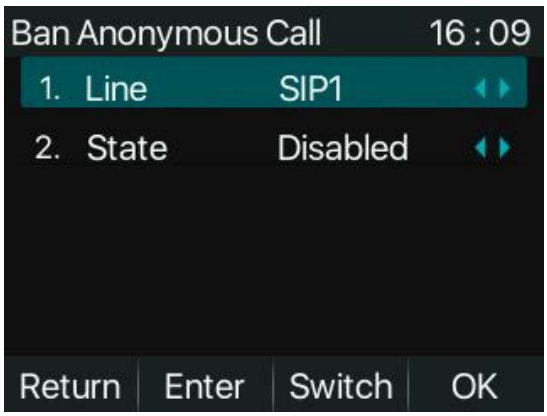


Picture 54 - Anonymous callLogs

8.17.2 Ban Anonymous Call

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

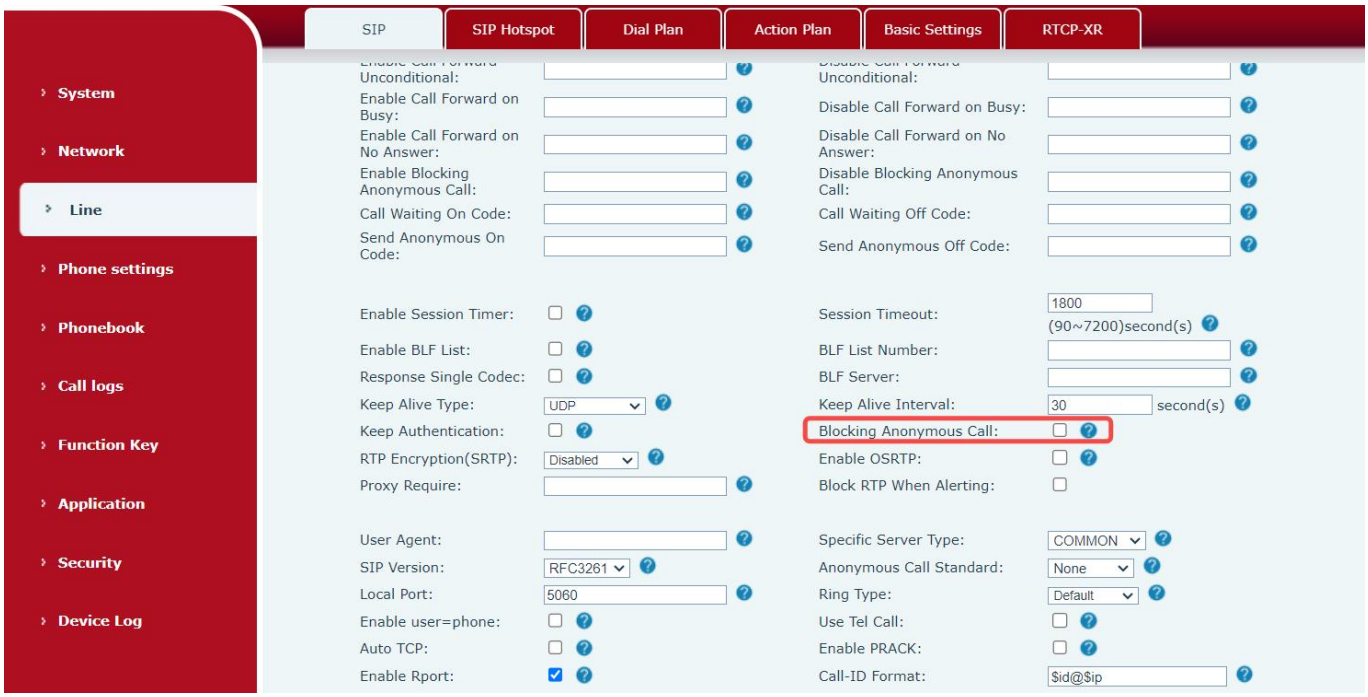
- In the phone [**Menu**] >> [**Features**] >> [**Ban anonymous call**], click to enter and all SIP lines will be displayed.
- Click Softkey [**Switch**] or [**<**] [**>**] to switch the SIP line and enable anonymous call.



Picture 55 - Anonymous calls are not allowed on the phone

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

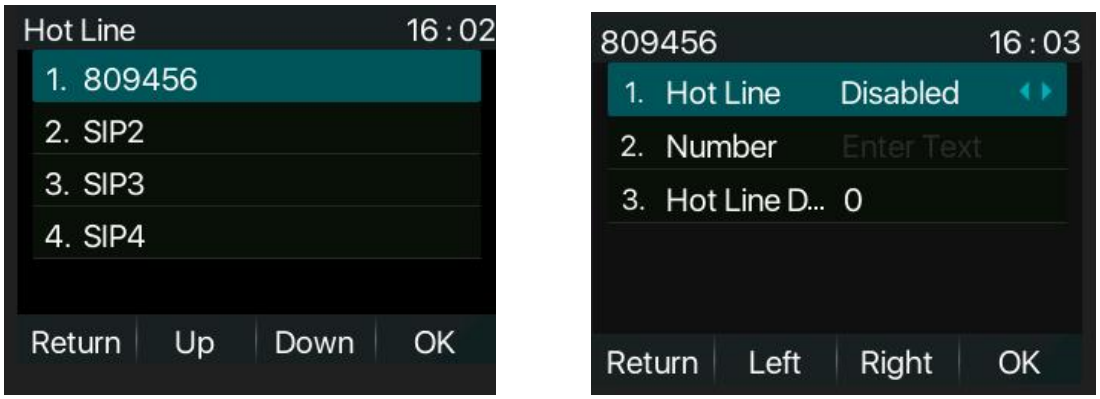


Picture 56 - Page Settings blocking anonymous call

8.18 Hotline

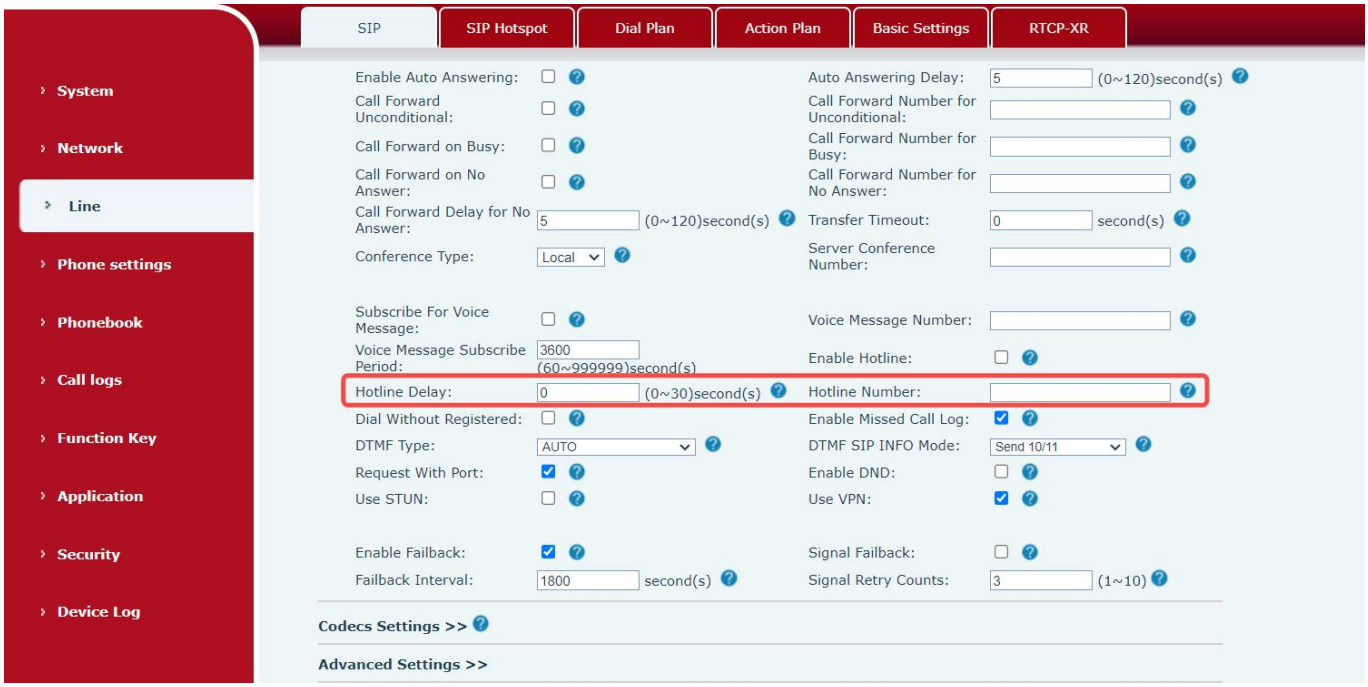
The device supports hotline dialing. After setting up the hotline dialing, directly pick up the handset, hands-free, earphone, etc., and the phone will automatically call according to the hotline delay time.

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



Picture 57 - Phone hotline setting interface

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

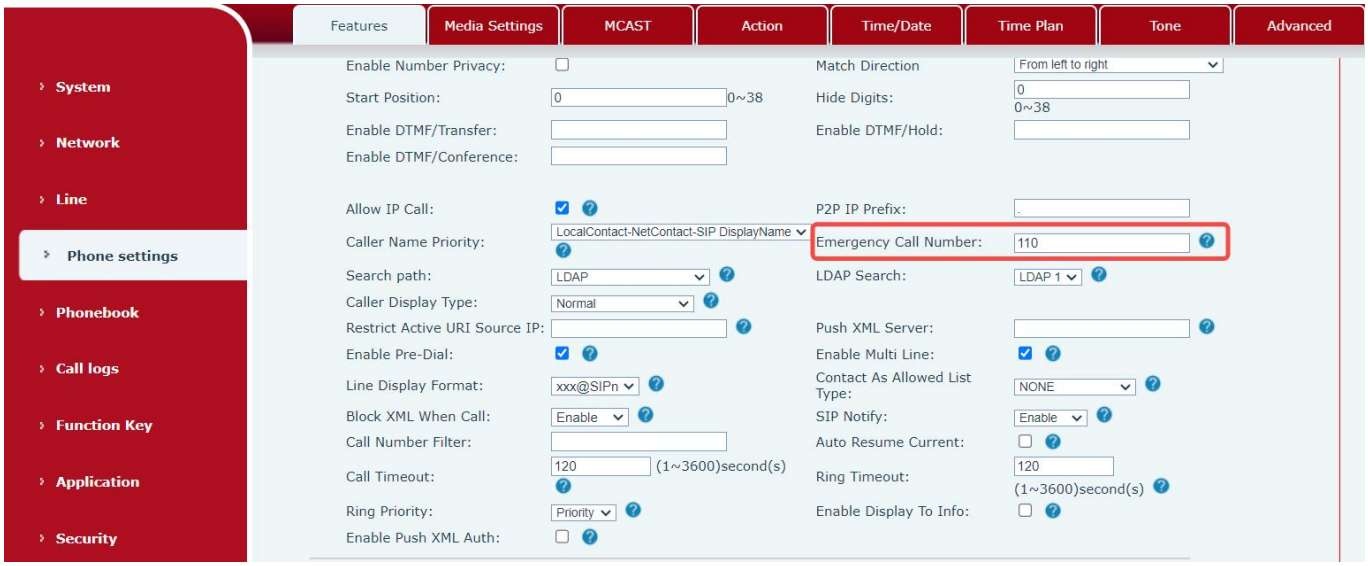


Picture 58 - Hotline set up on webpage

8.19 Emergency Call

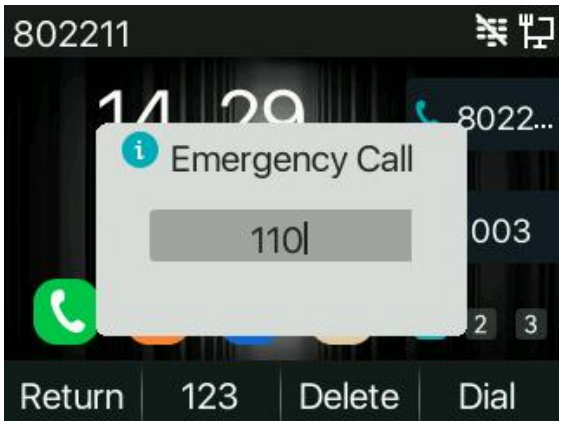
The emergency call function is used to et the corresponding emergency call number on the phone after enabling the keypad lock. You can also call emergency services when your phone is locked.

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.



Picture 59 - Set up an emergency call number

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



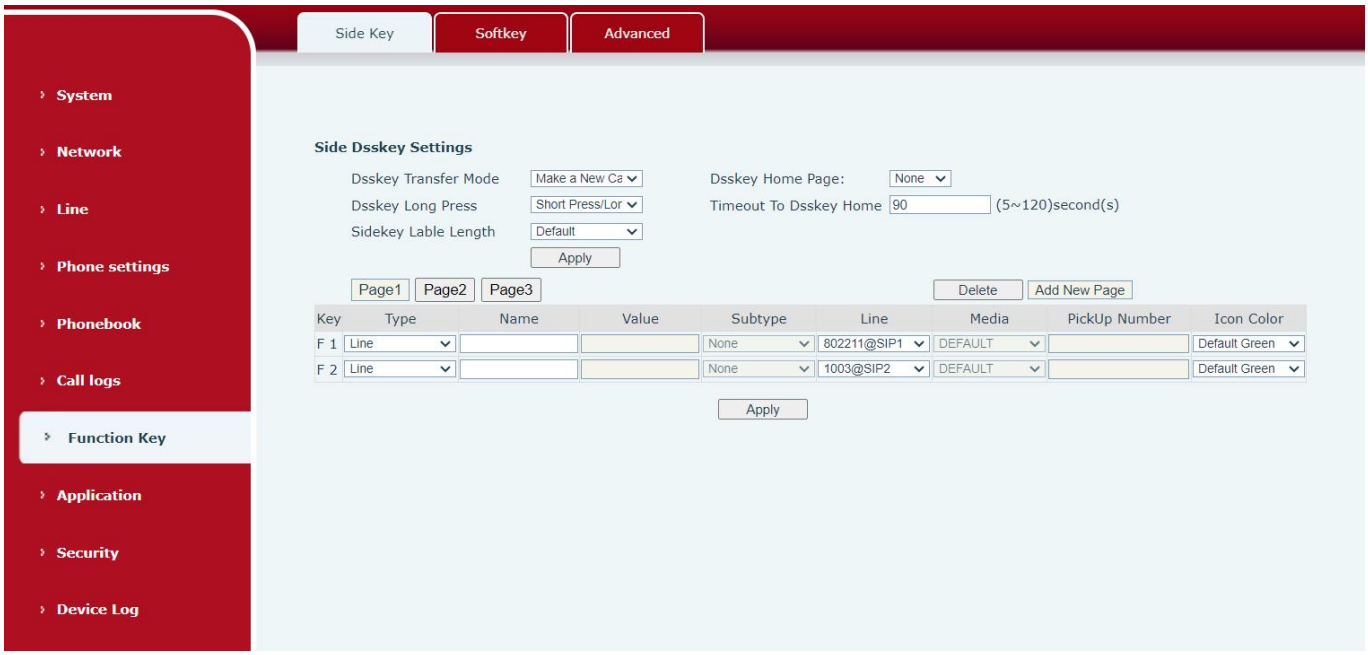
Picture 60 - Dial the emergency number

9 Advance Function

9.1 BLF (Busy Lamp Field)

9.1.1 Configure the BLF Functionality

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



Picture 61 - Web page configuration BLF function key

- Phone interface: long press a function key to enter the function key Settings interface, or go to the [**Menu**] >> [**Basic**] >> [**Keyboard**] to enter [**DSS Key Settings**] to set the settings interface, set the key function types as memory keys and a subtype of BLF/New Call, BLF/Bxfer, BLF/Axfer,BLF/Conf,BLF/Dtmf. The values is the subscription number, and set up corresponding SIP lines.



Picture 62 - Phone configuration BLF function key

Table 7 - BLF Function key subtype parameter list

Subtype	Standby is described	Calling is described
BLF/New Call	Pressing the BLF key while standby to dial the subscriber number.	When you press this BLF key while talking to another user, you create a new call along with the subscribed number.
BLF/Bxfer	Pressing the BLF key while standby to dial the subscriber number.	When you press this BLF key while talking to another user, you blind transfer the call to the subscribed number.
BLF/Axfer	Pressing the BLF key while standby to dial the subscriber number.	When you press this BLF key while talking to another user, you attendance transfer the call to the subscribed number.
BLF/Conference	Pressing the BLF key while standby to dial the subscriber number.	When you press this BLF key while talking to another user, you invite the subscriber number to join the meeting.
BLF/Dtmf	Pressing the BLF key while standby to dial the subscriber number.	When the BLF key is pressed while talking to another user, the phone automatically sends the DTMF corresponding to the BLF key number.

9.1.2 Use the BLF Function

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

BLF function:

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

1) Monitors the status of subscribed phones.

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

2) Call the subscribed number.

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

3) Transfer calls to the subscribed number.

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

4) Pickup incoming calls from subscribed phones.

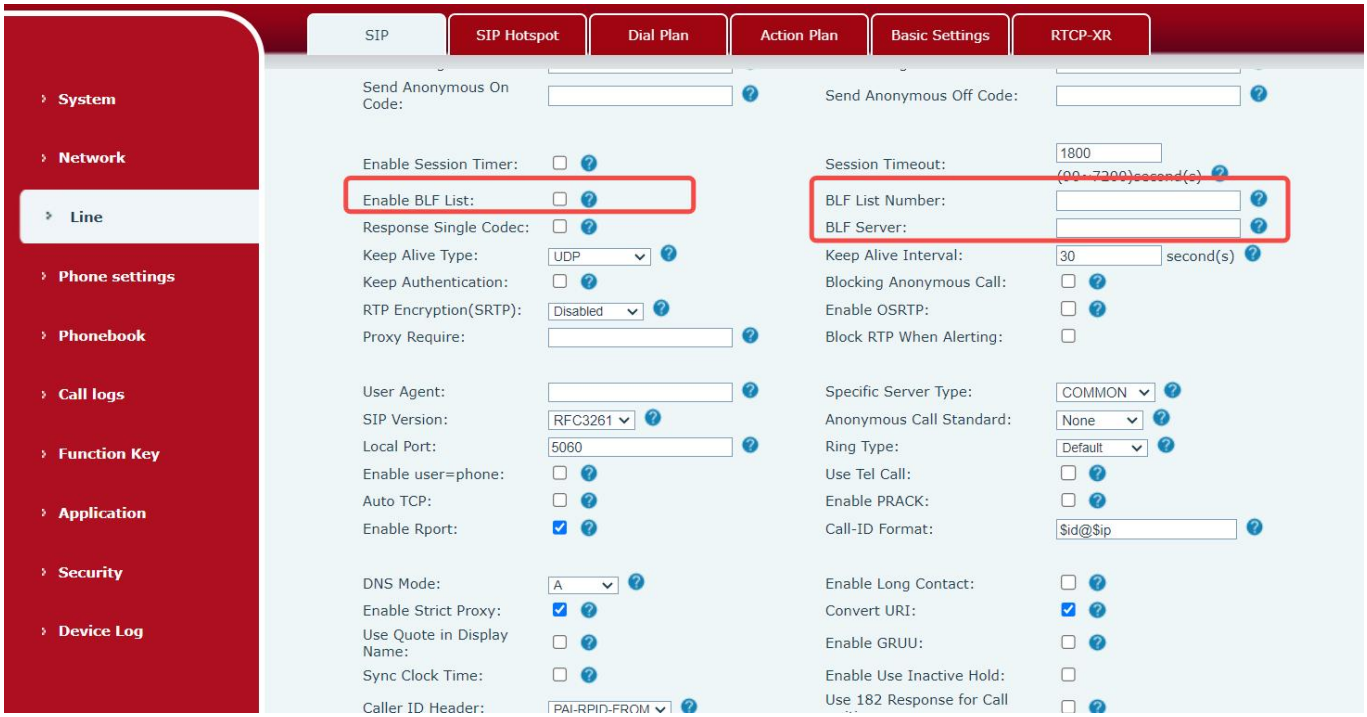
When configuring BLF function key, configure the pickup number.

When the subscription number telephone rings, refer to appendix III 6.3, BLF LED will turn red at this time. At this point, press the BLF button to answer the incoming call from the subscribed number.

9.2 BLF List

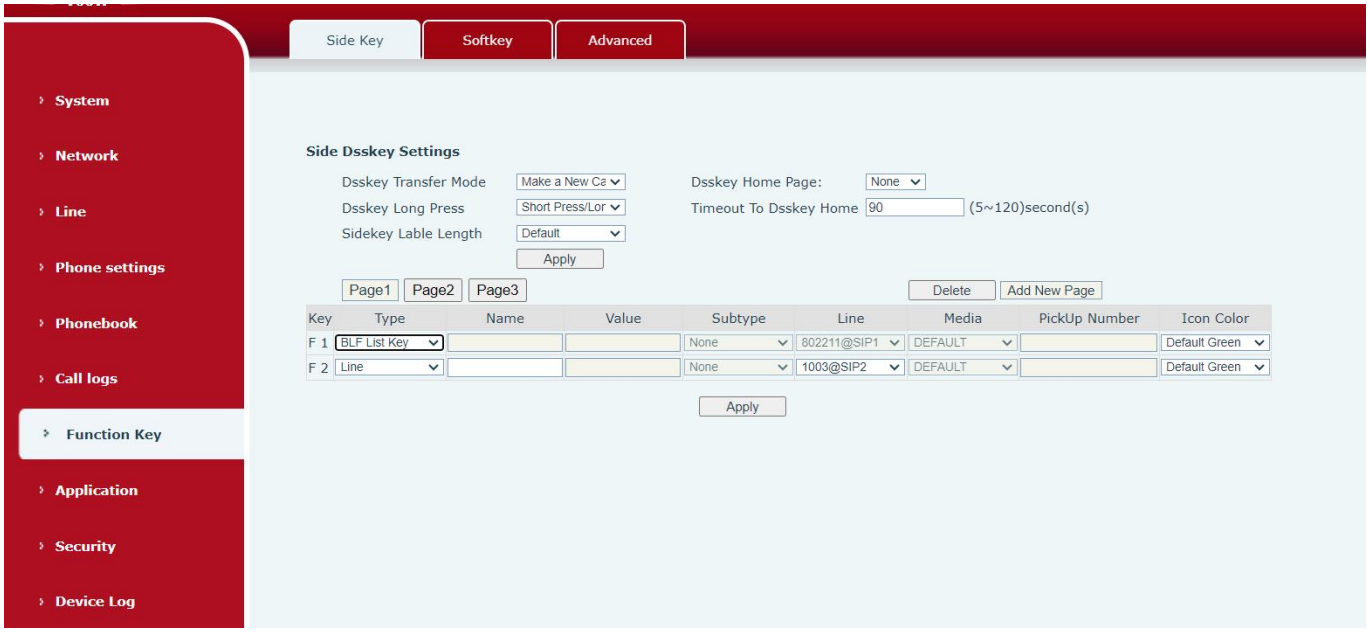
BLF List Key is to put the number to be subscribed into a group on the server side, and the phone uses the URL of this group to make unified subscription. The specific information, number, name and status of each number can be resolved based on notify sent from the server. The unoccupied Memory Key is then set as the BLF List Key. If the state of the subscription object changes later, the corresponding led light state will be changed.

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



Picture 63 - Configure the BLF List functionality

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



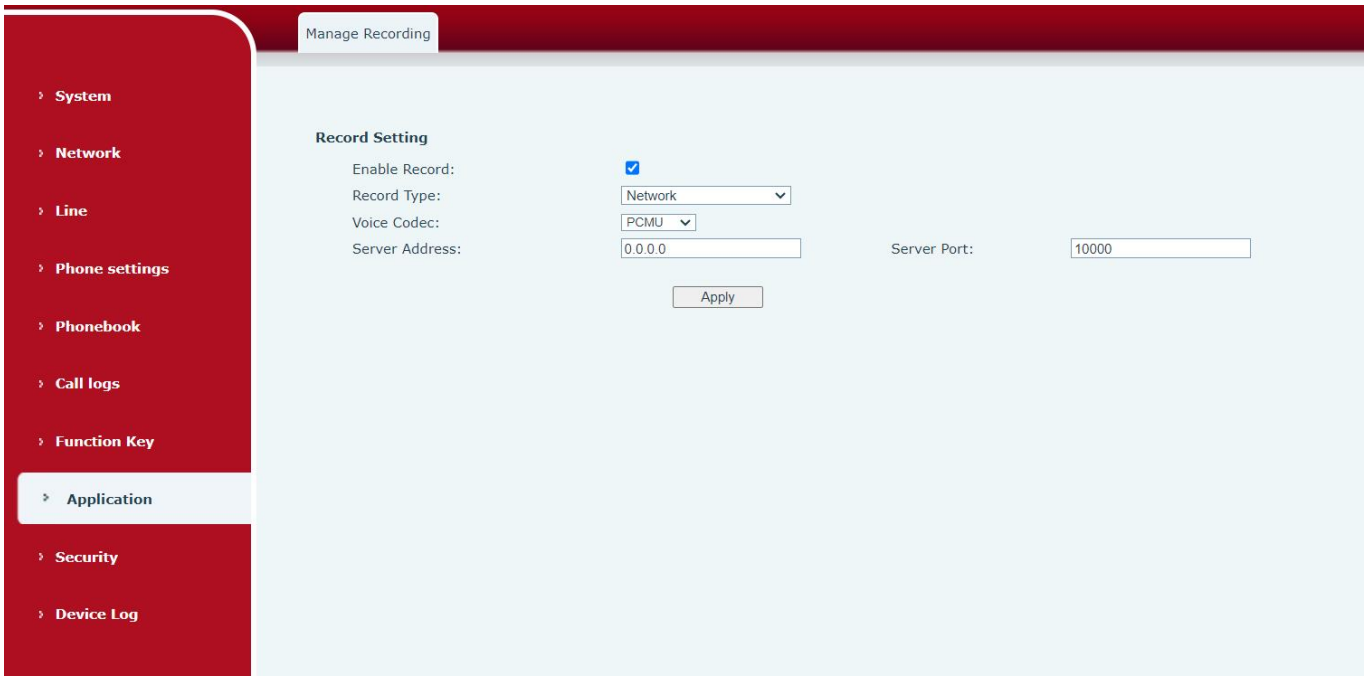
Picture 64 - BLF List number display

9.3 Record

The device supports recording during a call.

9.3.1 Server Record

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

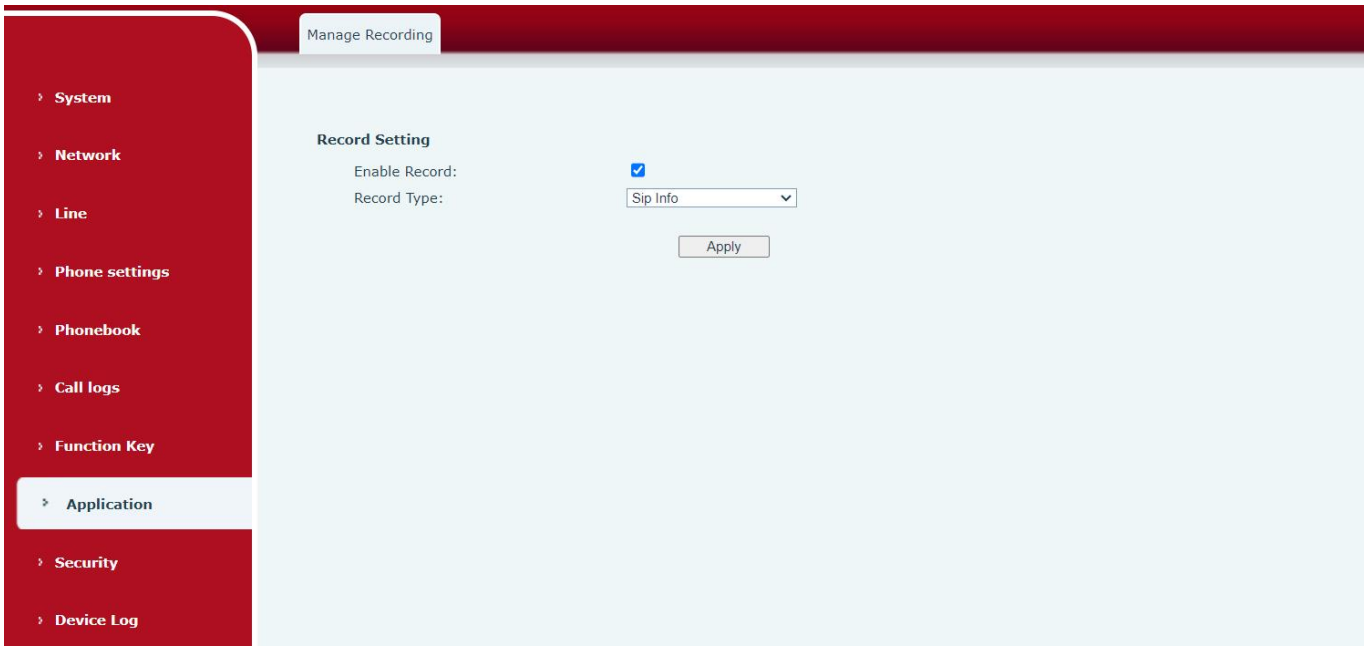


Picture 65 - Web server recording

Note: to be used with Fanvil recording software.

9.3.2 Sip Info Record

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



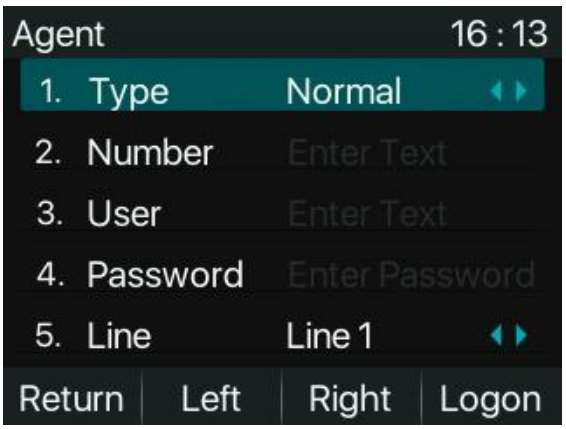
Picture 66 - Web Sip Info recording

9.4 Agent

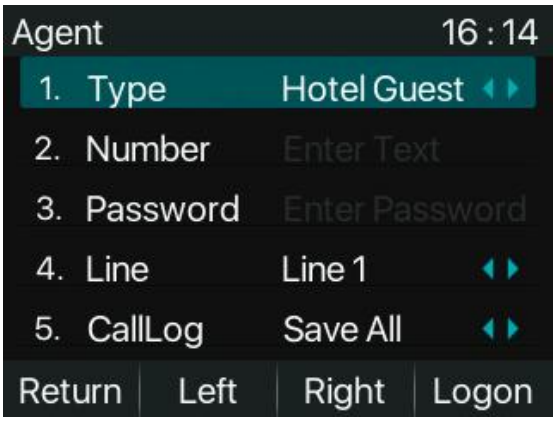
Agent (Agent function) of the phone can be realized: when multiple people use a device for Agent services at different times, he or she can quickly register his or her SIP account on the same server. The Agent functions of the phone can be divided into Normal and Hotel Guest. The Hotel Guest mode requires server support.

Normal Mode:

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



Picture 67 - Configure the agent account in normal mode



Picture 68 - Configure the proxy account-hotel Guest mode

Table 8 - Agency mode

Parameter	Description
Normal mode	
Number	Set the proxy account number.
User	Set the proxy account number to verify the user name.
Password	Set the proxy account number to verify the password.
Line	Select the SIP line.
CallLog	Users can choose between Save All and Delete All
Hotel Guest mode	
Number	Set the proxy account number.
Password	Set the proxy account number to verify the password.
Line	Select the SIP line.
CallLog	Users can choose between Save All and Delete All

Using agent functions:

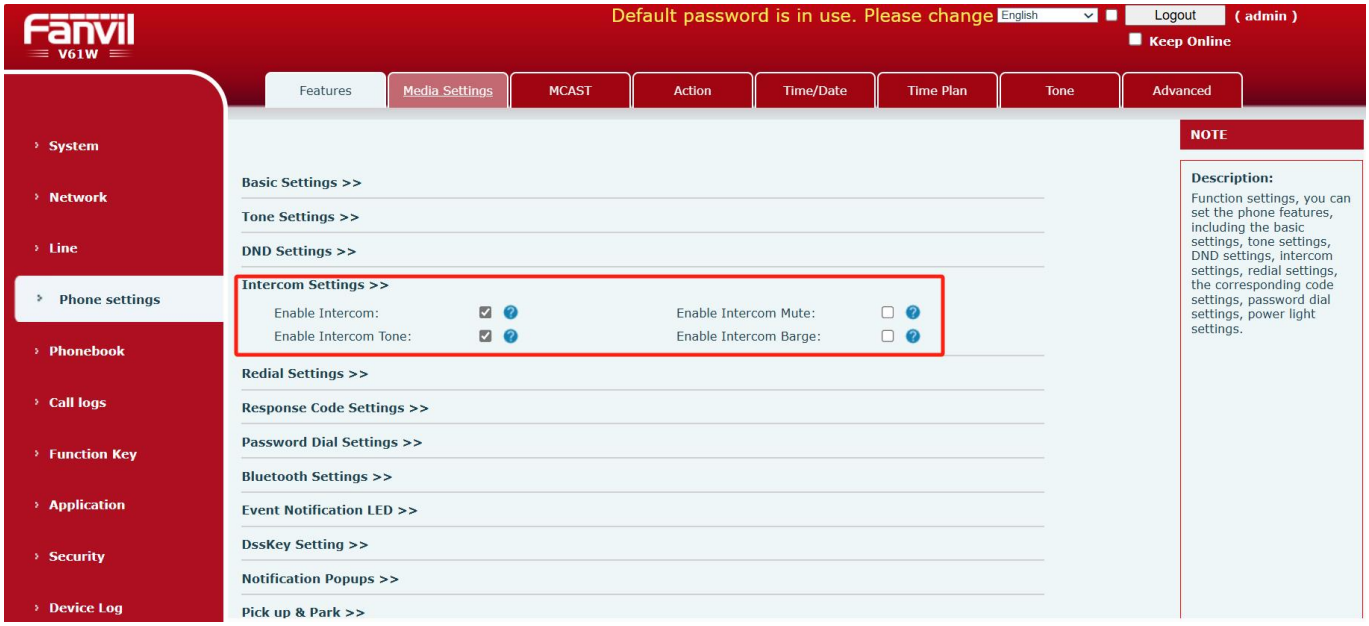
1) When he phone has been configured on SIP server, fill in the correct number and user name password, click login and then the phone can be registered to the SIP server;
2) After registration, click logout and the phone can delete the user name and password, and log out of the SIP account.
3) Click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



Picture 69 - Agent logon page

9.5 Intercom

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



Picture 70 - Web Intercom configure

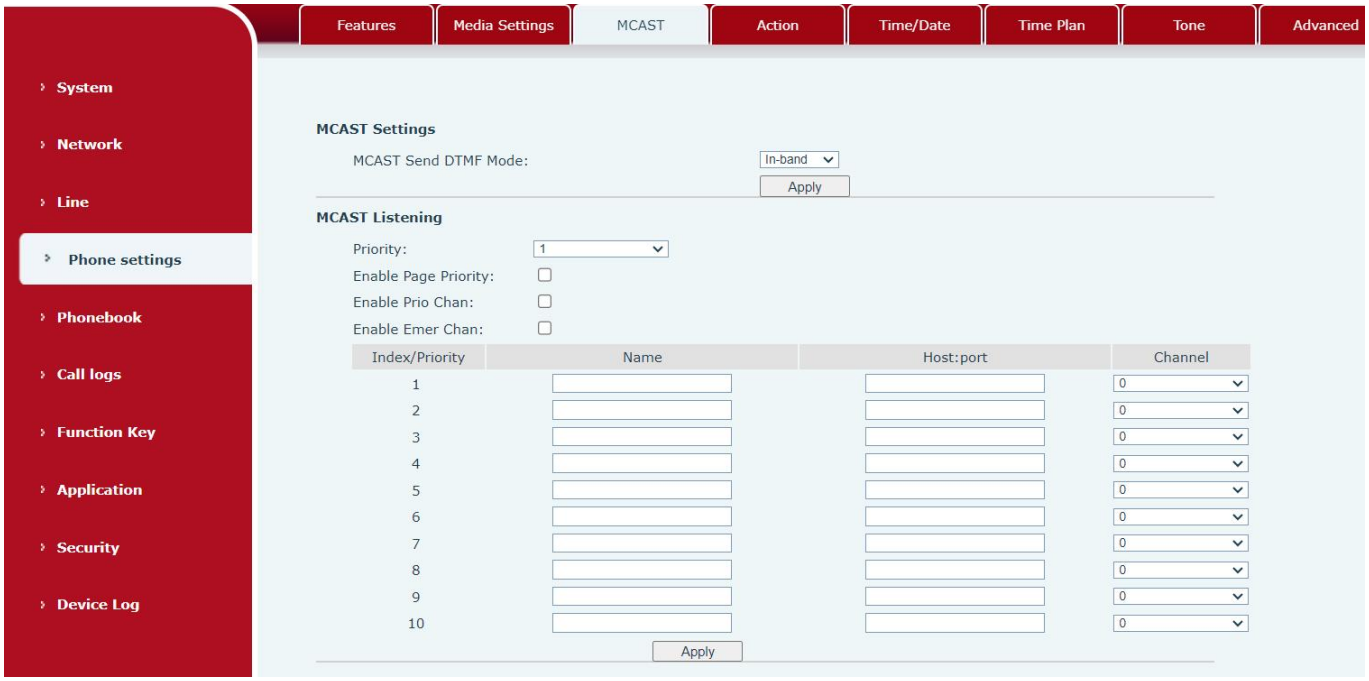
Table 9 - Intercom configure

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 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	Enable Intercom Barge by selecting it, the phone auto answers the intercom call

Barge	during a call. If the current call is intercom call, the phone will reject the second intercom call

9.6 MCAST

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



Picture 71 - Multicast Settings Page

Table 10 - MCAST Parameters on Web

Parameters	Description
MCAST Send DTMF Mode	Set the DTMF mode sent by MCAST
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 Prio Chan	Set the priority to enable multicast listening on the current channel
Enable Emer Chan	The multicast of each channel is not affected by the order, and other multicasts can be interrupted at will
Index/Priority	Set the priority of the curent multicast
Name	Listened multicast server name
Host:port	Listened multicast server's multicast IP address and port.

Channel	Set the multicast channel

Multicast:

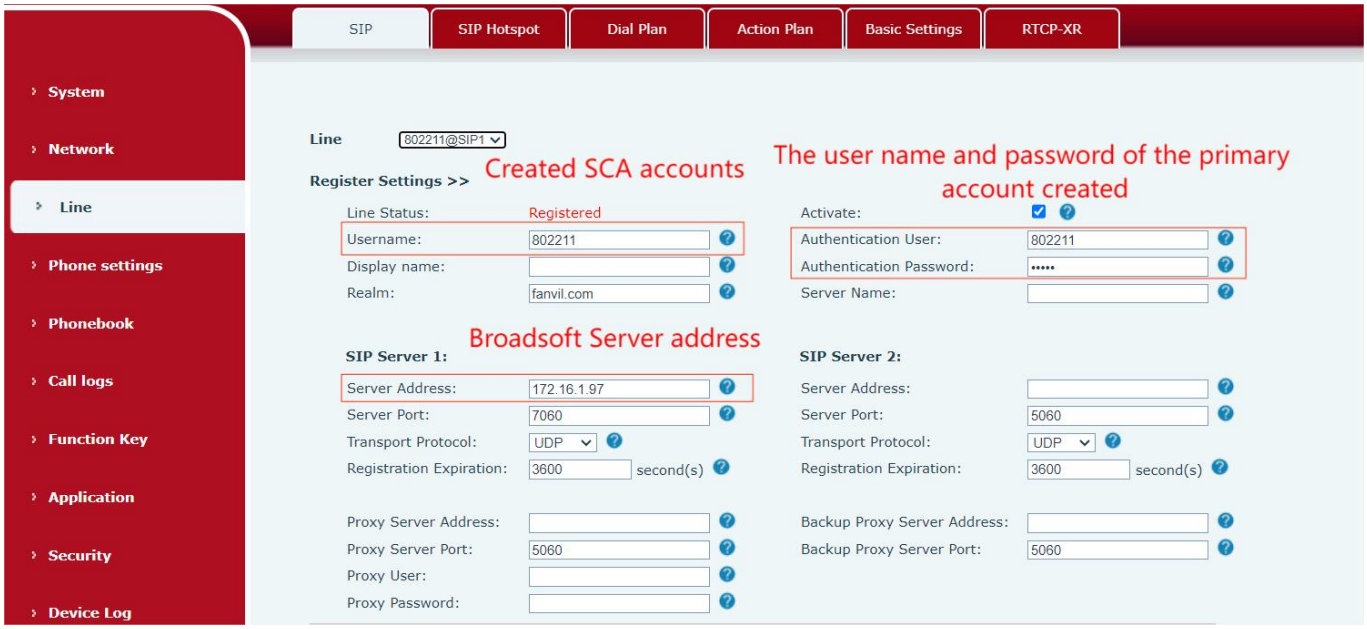
- Go to web page of [**Function Key**] >> [**Function Key**] , select the type to multicast, set the multicast address, and select the codec.
- Click Apply.
- Set up the name, host and port of the receiving multicast on the web page of [**Phone Settings**] >> [**MCAST**].
- Press the DSSkey of Multicast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

9.7 SCA (Shared Call Appearance)

Users need the support of server end to use SCA function. You can refer to： BroadSoft SCA Server and Terminal Configuration Description

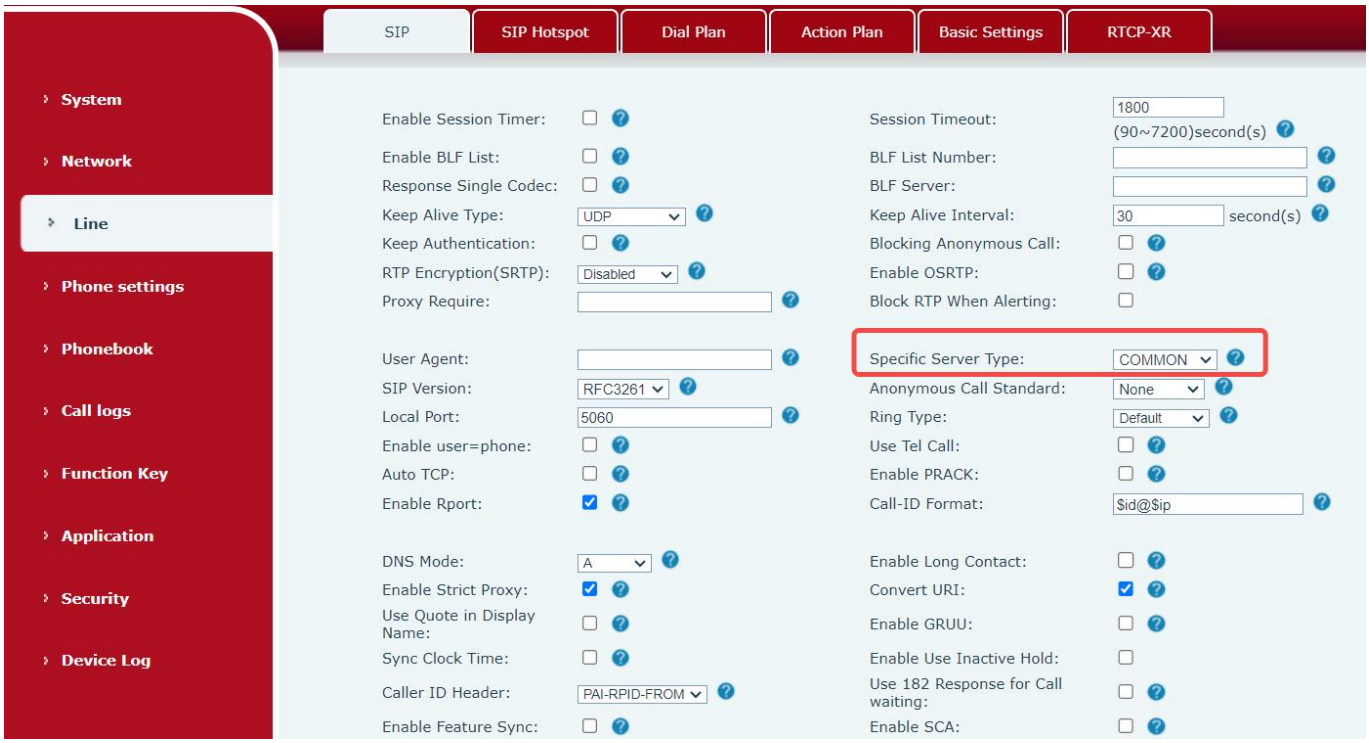
1) Configure SCA account on the phone

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



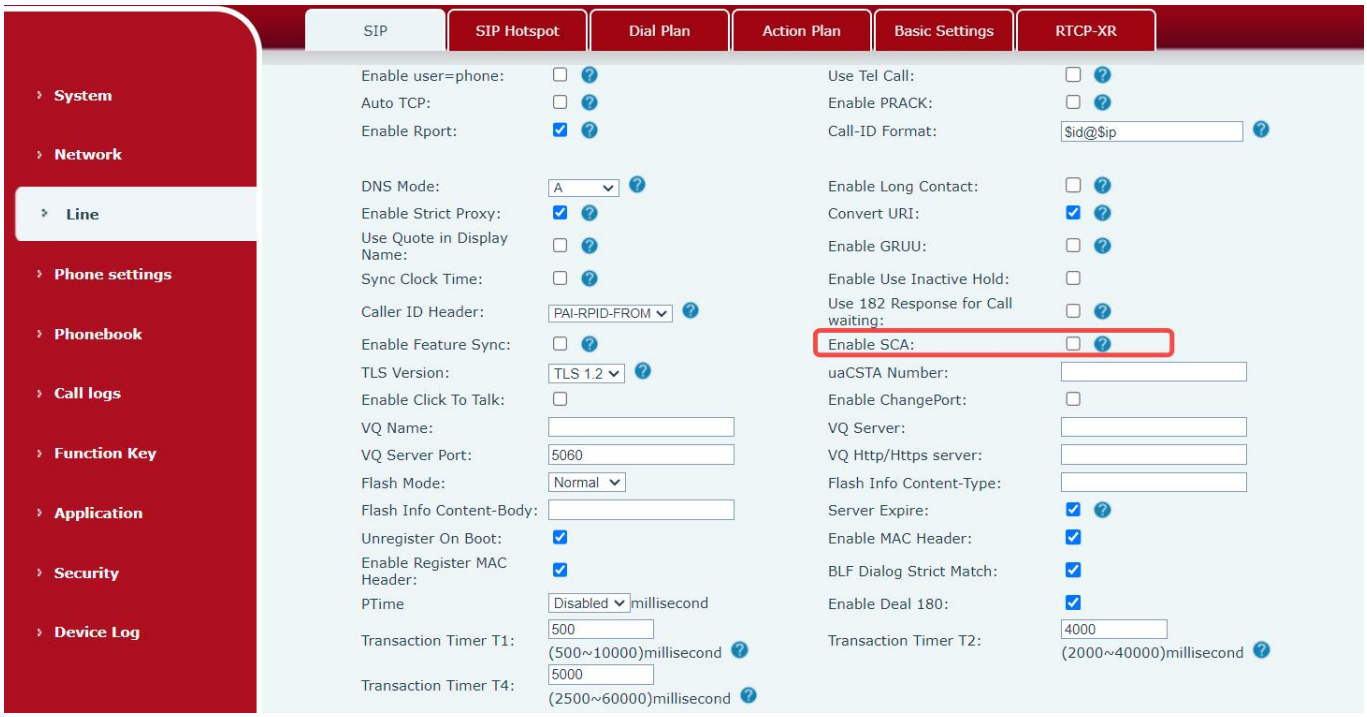
Picture 72 - Register BroadSoft account

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



Picture 73 - Set BroadSoft server

- If a Fanvil phone needs to enable the SCA function. Specifically, log in to the webpage of the phone set, choose [**Line**] >> [**SIP**] >> [**Advanced Settings**], and select Enable SCA. If SCA is not enabled, the registered line is the private line.

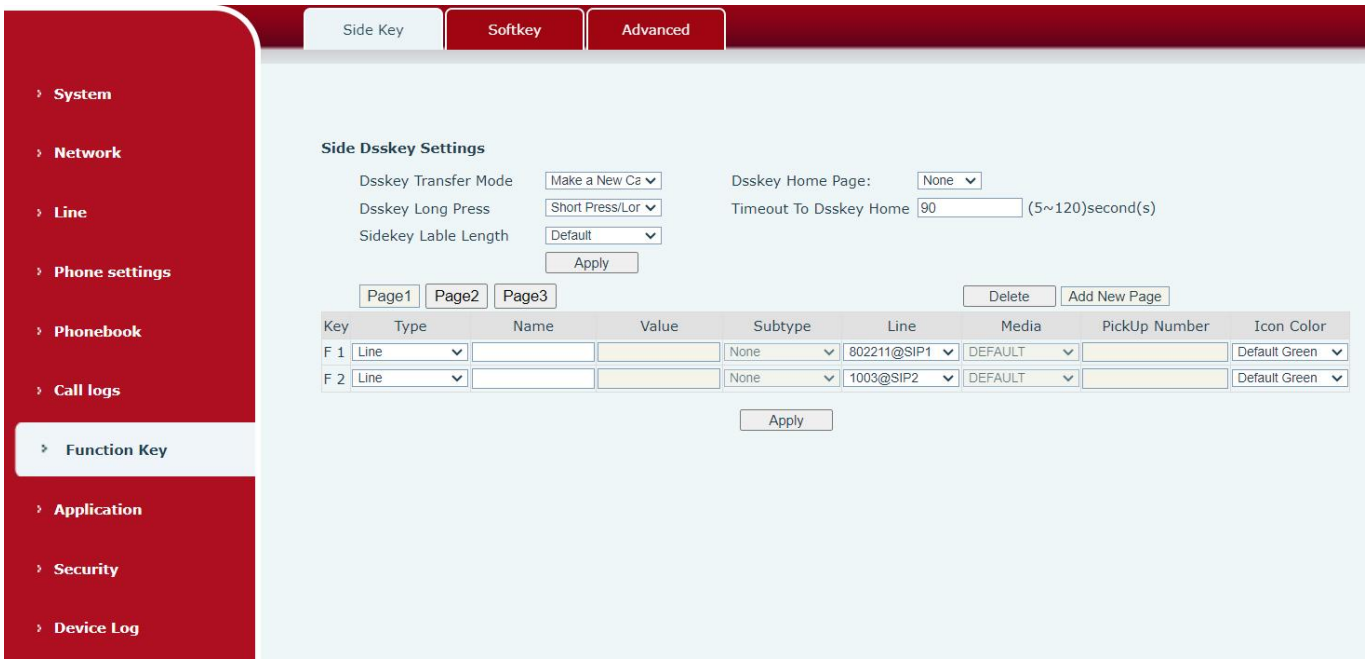


Picture 74 - Enable SCA

After an account is configured and successfully registered, you can configure lines whose DSS Key is Shared

Call Appearance on the Function Key page to facilitate viewing the call status of the group. Each line key represents a call appearance. Understand the call status by referring to 6.3 Appendix III –LED .

To facilitate private hold, configure keys whose DSS Key is Private Hold on the Function Key page. Pay attention that the public hold key is the softkey-hold key during a call.



Picture 75 - Set Private Hold Function Key

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

2) LED Status

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

Table 11 - LED Status of SCA

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

3) Shared Call Appearance(SCA)

The following lists a couple of instances to facilitate understanding.

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

Scenario 1: When this account receives an incoming call, the phone sets of both the manager and the secretary will receive the call and ring. If the manager is busy, the manager can reject the call and the manager's phone set stops ringing but the secretary's phone set keeps ringing until the secretary rejects/answers the call or the call times out.

Scenario 2: When this account receives an incoming call, if the secretary answers the call first and the manager is required to answer the call, the secretary can press the Public Hold key to hold this call and notify the manager. The manager can press the line key corresponding to the SCA to answer the call.

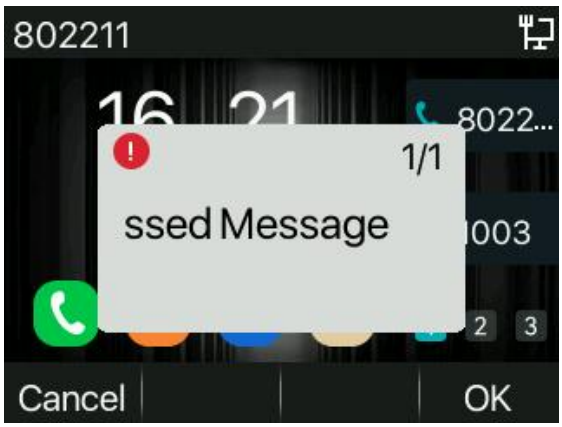
Scenario 3: The manager is in an important call with a customer and needs to leave for a while. If the manager does not want others to retrieve this call, the manager can press the Private Hold key.

Scenario 4: The manager is in a call with a customer and requires the secretary to join the call to make records. The secretary can press the corresponding SCA line key to barge in this call.

9.8 Message

9.8.1 SMS

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



Picture 76 - SMS icon

Send messages:

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

View SMS:

- Use the navigation keys to select the standby icon [**message**]

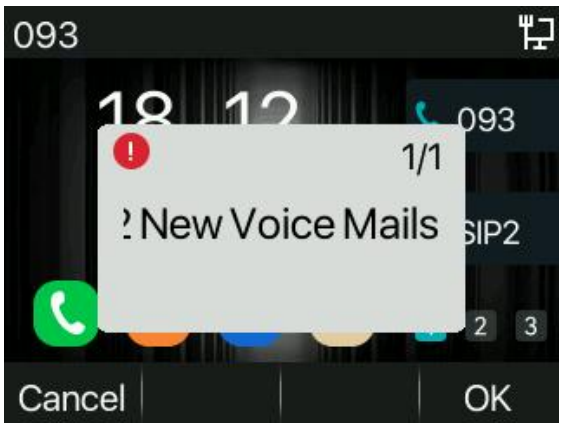
- After selecting, press the navigation key [**OK**] to enter the SMS inbox interface.
- Select the unread message and press [**OK**] to read the unread message.

Reply to SMS:

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

9.8.2 MWI (Message Waiting Indicator)

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



Picture 77 - New Voice Message Notification

Voice message icon

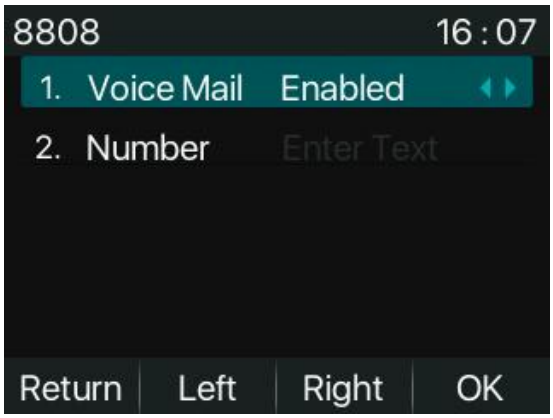
To listen to a voice message, the user must first configure the voicemail number. After the voicemail number is configured, the user can retrieve the voicemail of the default line. The voicemail icon displays the number of unread voicemails. (When the number of voicemail messages is more than or equal to 99, only 99 is displayed.)

When the phone is in the default standby state,

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



Picture 78 - Voice message interface



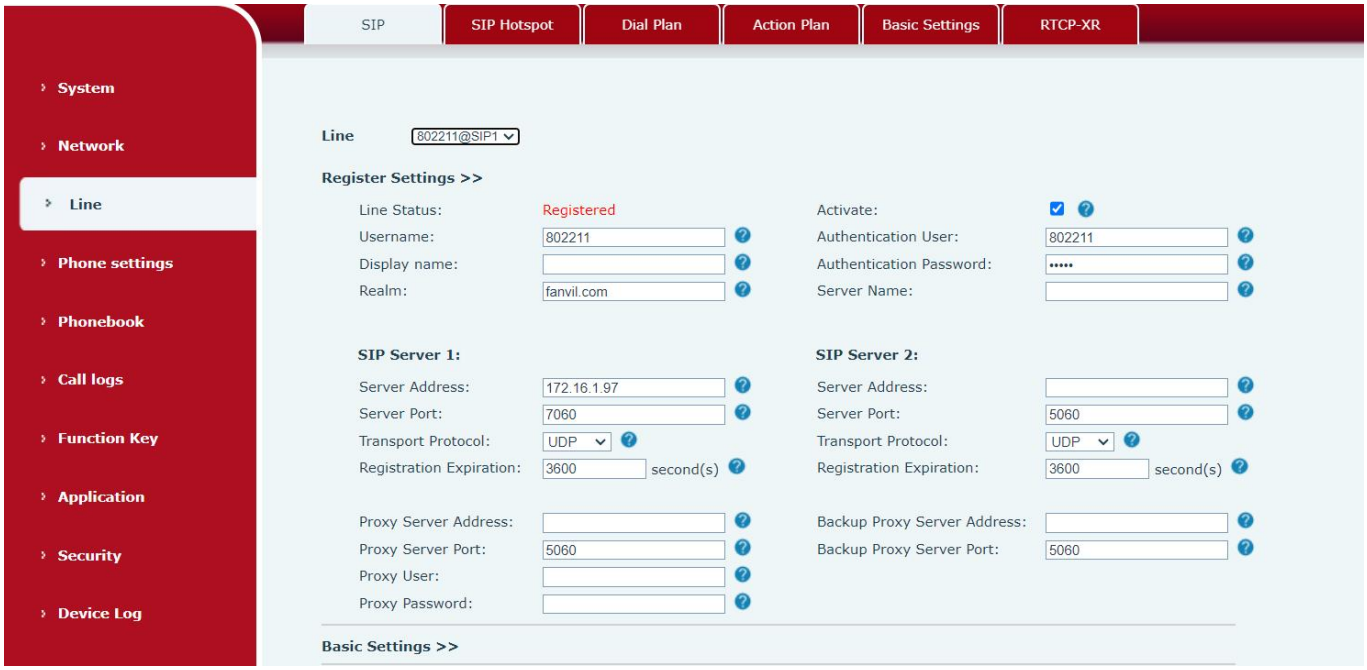
Picture 79 - Configure voicemail number

9.9 SIP Hotspot

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

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

To set a SIP hotspot, register at least one SIP account.

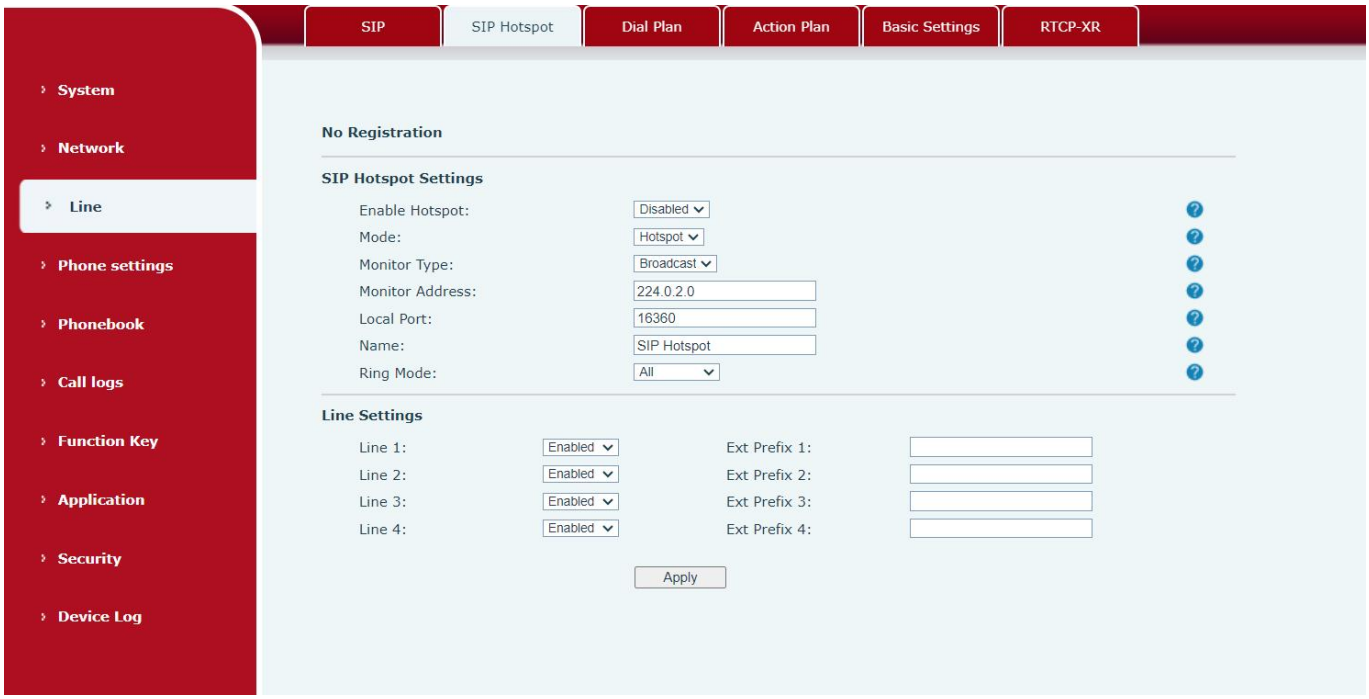


Picture 80 - Register SIP account

Table 12 - 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.
Local Port	Type the Remote port number.

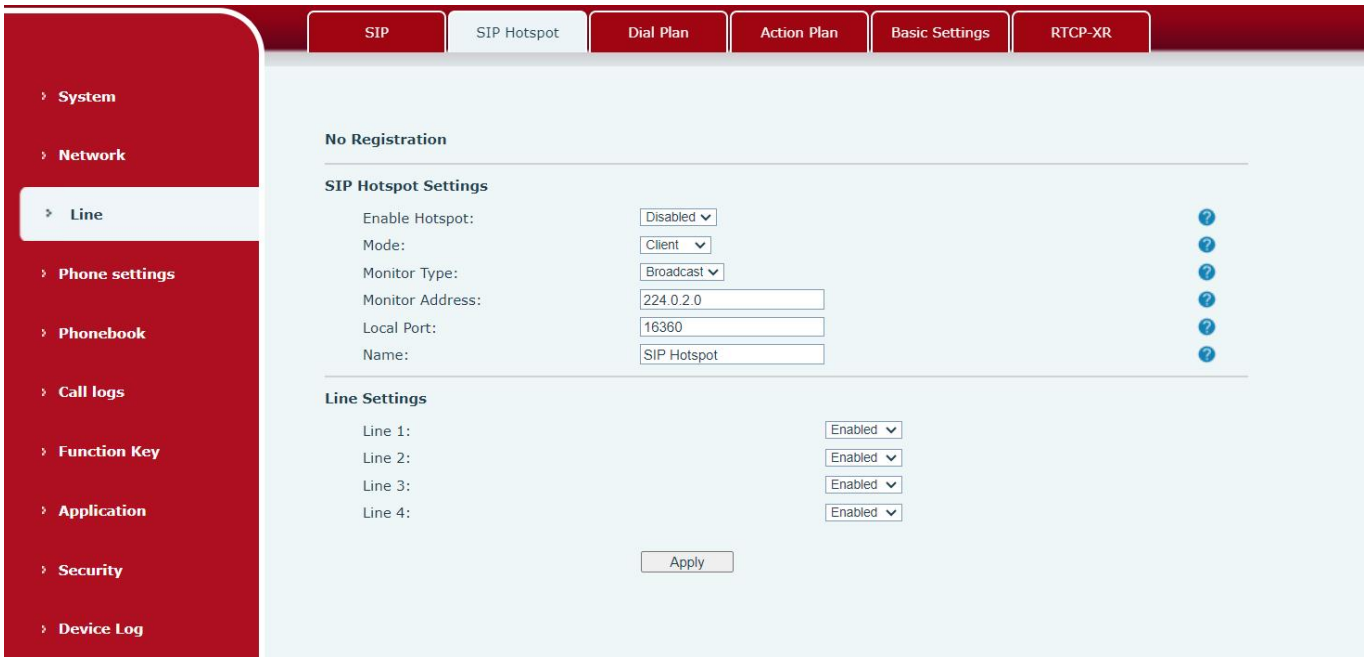
Configure SIP hotspot server:



Picture 81 - SIP hotspot server configuration

Configure SIP hotspot client:

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



Picture 82 - SIP hotspot client configuration

As the hotspot server, the default extension number is 0. When the phone is used as the client, the extension number is increased from 1, you can view the extension number through the [**SIP Hotspot**] page.

Call extension number:

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

10 Phone Settings

10.1 Basic Settings

10.1.1 Language

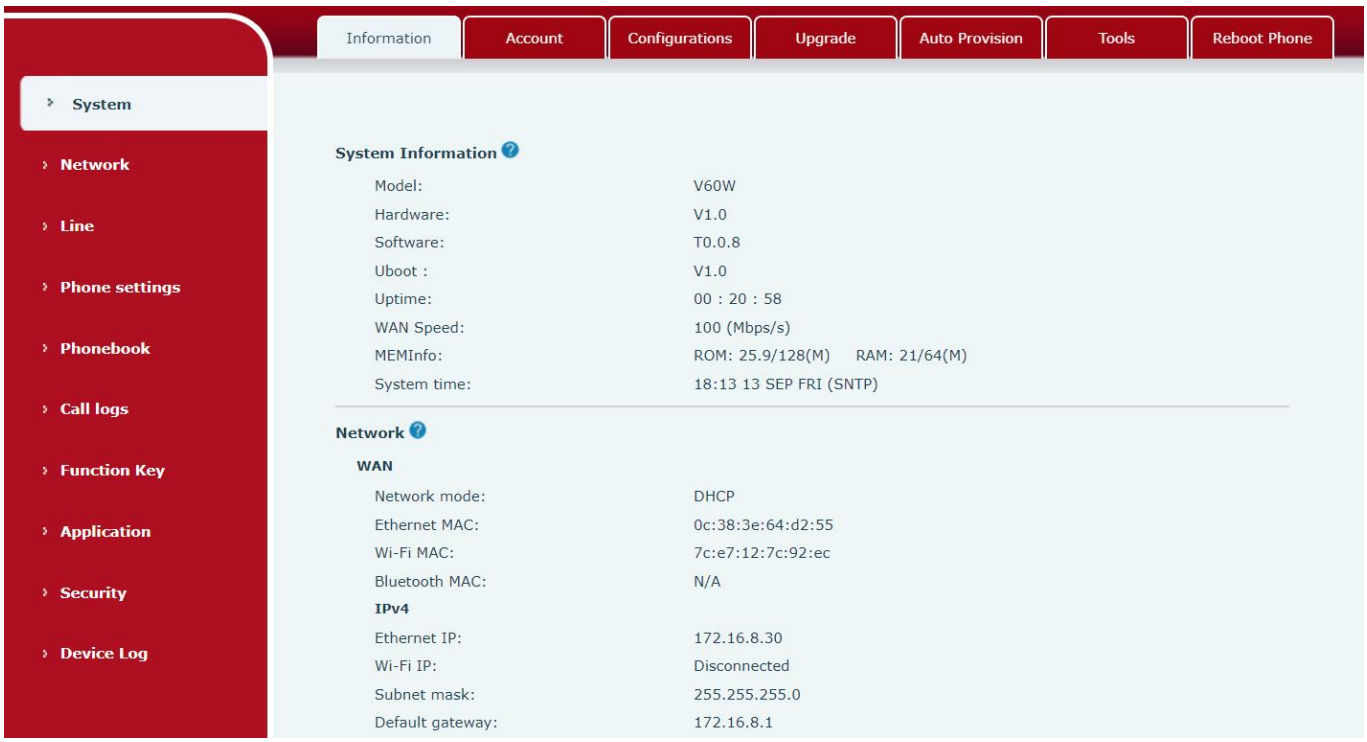
The user can set the phone language through the phone interface and web interface.

- Phone end: when setting the language during standby, go to [**Menu**] >> [**Basic**] >> [**Language**] Settings, as shown in the figure.



Picture 83 - Phone language setting

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



Picture 84 - Language setting on Web page

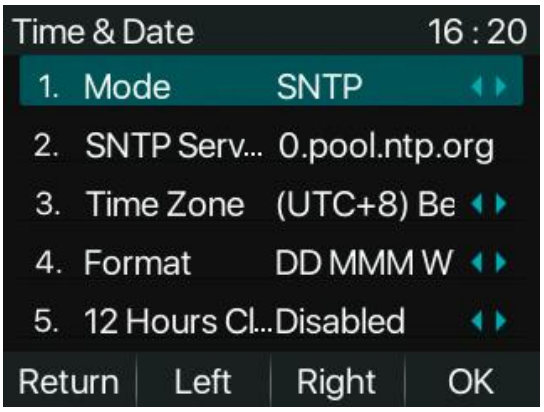
- The function box on the right side of the web interface language setting box is “Synchronize language to

phone"; if selected, the phone language will be synchronized with the webpage language. If it is not selected, it will not be synchronized.

10.1.2 Time & Date

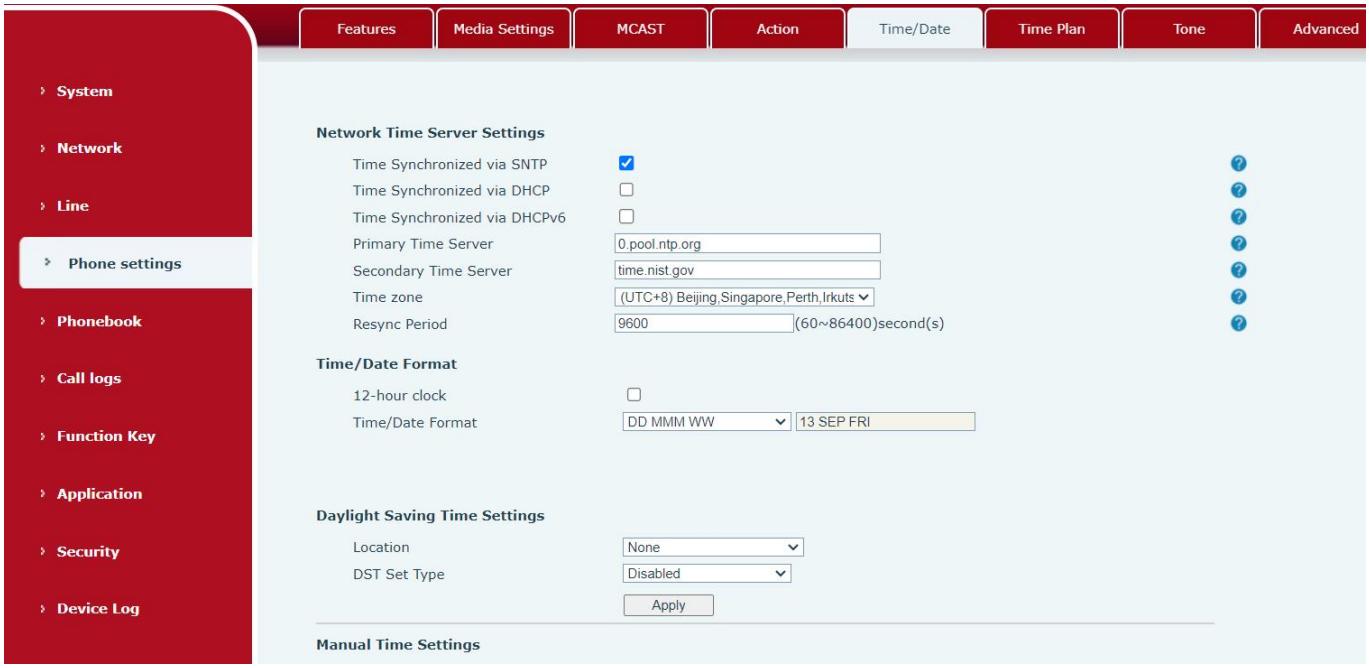
Users can set the phone time through the phone interface and web interface.

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



Picture 85 - Set time & date on phone

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



Picture 86 - Set time & date on webpage

Table 13 - 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: ■ 1 JAN, MON ■ 1 January, Monday ■ JAN 1, MON ■ January 1, Monday ■ MON, 1 JAN ■ Monday, 1 January ■ MON, JAN 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. If your country or region does not have daylight saving time, you do not need to set it.

10.1.3 Screen

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

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



Picture 87 - Set screen parameters on phone

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

save.

10.1.3.1 Brightness and backlight

Set the brightness level in use from 1 to 16, press [left] or [right] to switch brightness level.

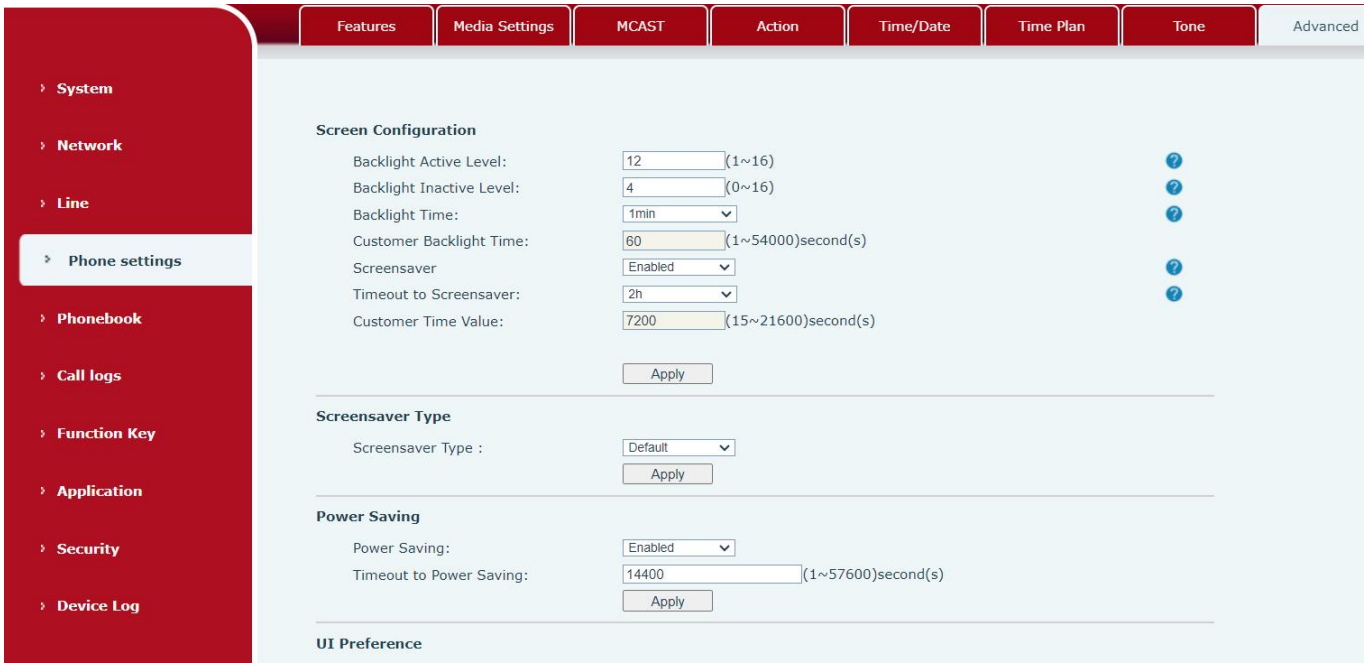
- Set the brightness level in the energy-saving mode from 0 to 16, press [**<**] or [**>**] to switch the brightness level.

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

10.1.3.2 Screen Saver

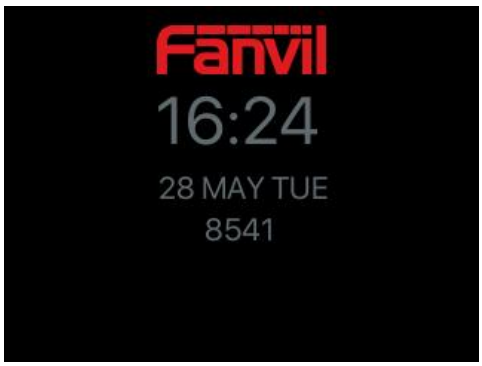
- Press [**Screen Settings**] to find the [**Screen protection**] button, press [**left**] / [**right**] button to open/close the screen protection, set the timeout time, the default is 2h, after completion, press [**OK**] button to save.

- Web interface: enter [**Phone Settings**] >> [**Advanced**], edit screen parameters, and click submit to save.



Picture 88 - Page screen Settings

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



Picture 89 - Phone screen saver

10.1.4 Ring

When the device is in the default standby mode,

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

10.1.5 Voice Volume

When the device is in the default standby mode,

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

10.1.6 Greeting Words

When the device is in the default standby mode,

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

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

10.1.7 Reboot

When the device is in the default standby mode,

- Press soft-button [**Menu**] till you find the [**Basic**] item.
- Enter [**Basic**] item till you find [**Reboot**] item.
- Press [**OK**] a prompt message, "restart now," prompts the user.
- Press [**OK**] to restart the phone or [**Cancel**].

  The phone is in standby mode,
- Press [**OK**] to restart the phone or [**Cancel**] to exit.

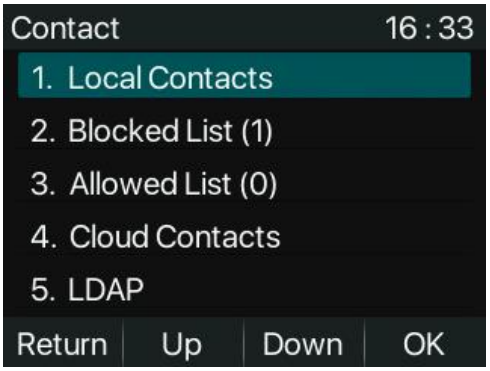
10.2 Phone Book

10.2.1 Local Contact

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

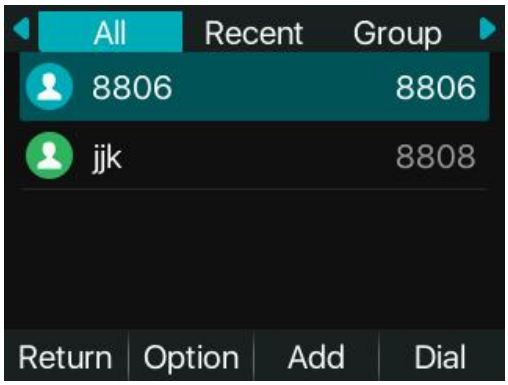
screen or keypad.

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



Picture 90 - Phone book screen

Note!Phone user account can store contact information,



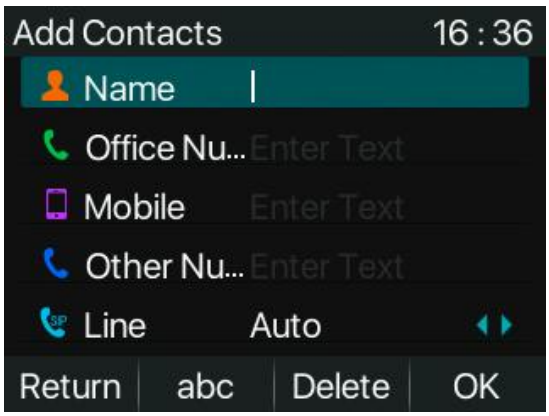
Picture 91 - Local Phone book

When there are contact records in the phone book, the contact records will be arranged in the alphabet order. User may browse the contacts with up/down navigator keys. The record indicator tells user which contact is currently focused.

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 Type
- Contact Group
- Photo



Picture 92 - Add New Contact

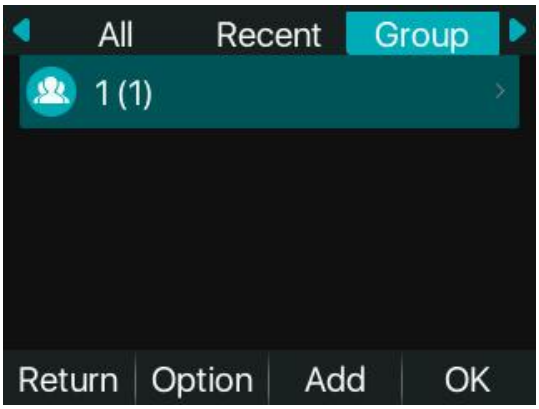
User can edit a contact by pressing [**Option**] >> [**Edit**] button.

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

10.2.1.2 Add / Edit / Delete Group

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

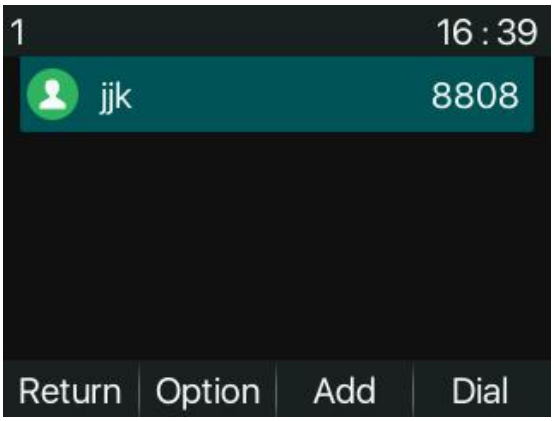
- To add a group, press [**Add Group**] button.
- To delete a group, press [**Option**] >> [**Delete**] button.
- To edit a group, press [**Edit**] button.
- The Number behind the group name means the total contacts number of selected groups.



Picture 93 - Group List

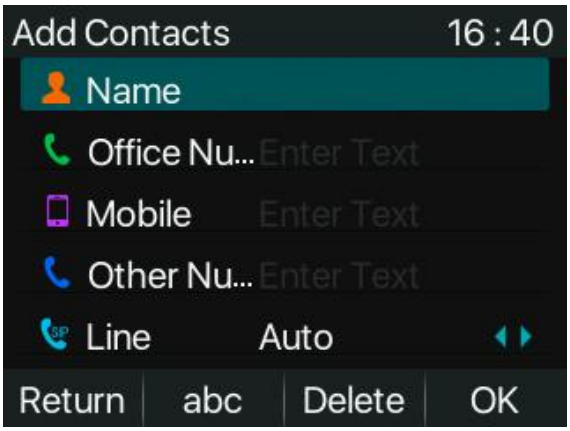
10.2.1.3 Browse and Add / Remove Contacts in Group

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



Picture 94 - Browsing Contacts in a Group

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



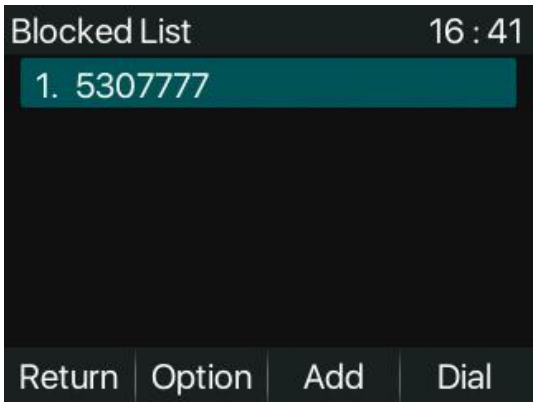
Picture 95 - Add Contacts in a Group

10.2.2 Blocked list

The device Support blocked list. If the number is added to the blocked list, it will be refused straightly when trying to make a call. (Blacklisted Numbers can be called out normally)

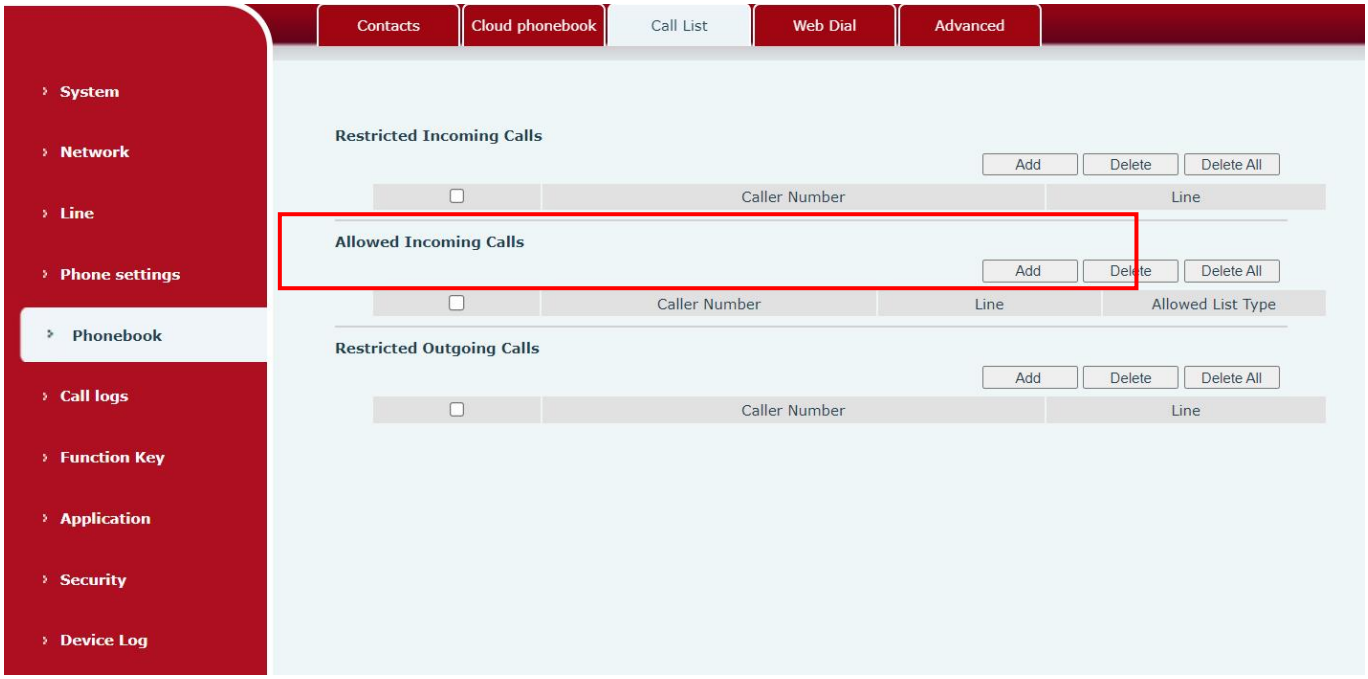
(Blacklisted Numbers can be called out normally)

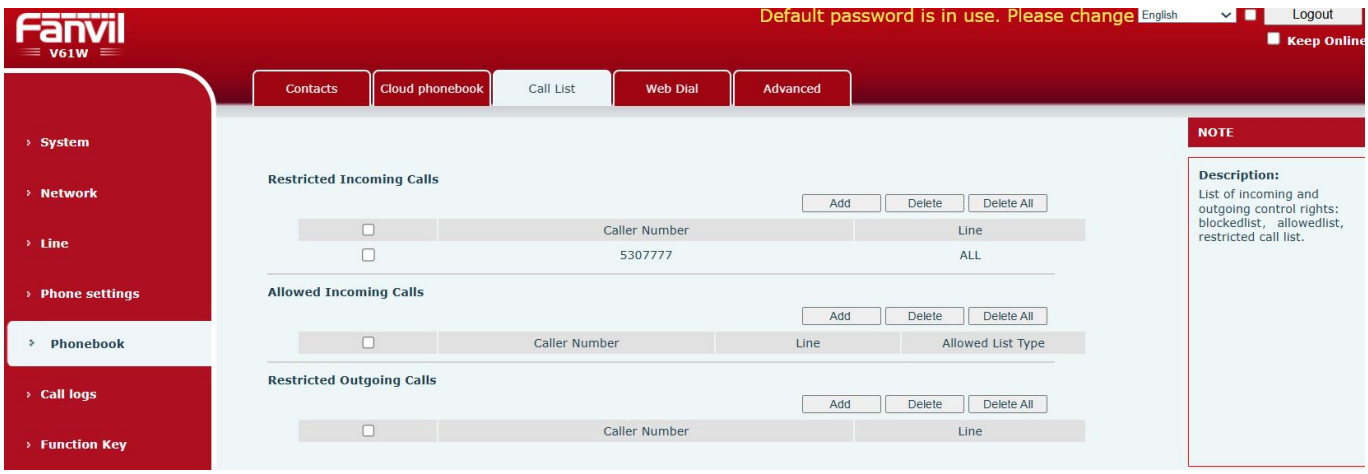
- There are multiple ways to add a number to Blacklist on X210 device. It can be added directly on [**Menu**] >> [**Contact**] >> [**BlockedList**].
- Select any number in the phone book (both local and network) for configuration addition.
- Select any number in the call log for configuration addition.



Picture 96 - Add BlockedList

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





Picture 97 - Web BlockedList

10.2.3 Cloud Phone Book

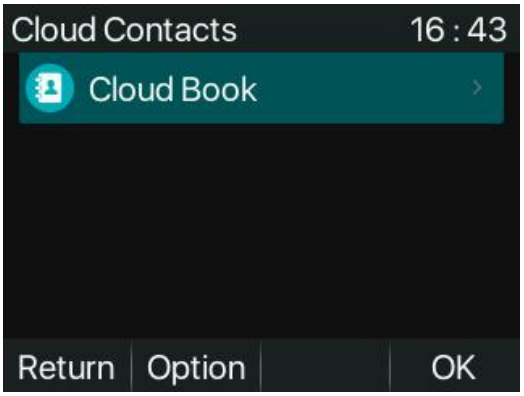
10.2.3.1 Configure Cloud Phone book

Cloud phonebook allows user to configure the device by downloading a phonebook from a cloud server. This is convenient for office users to use the phonebook from a single source and save the effort to create and maintain the contact list individually. It is also a useful tool to synchronize his/her phonebook from a personal mobile phone to the device with Fanvil 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.

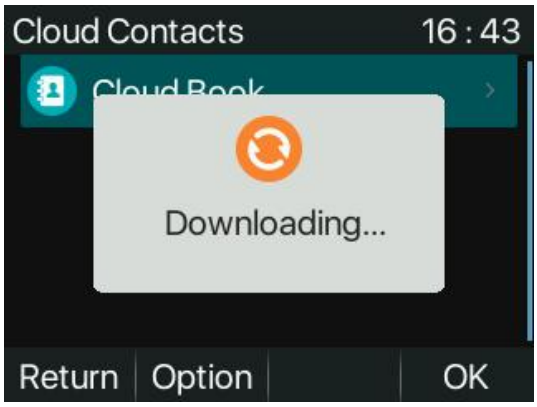


Picture 98 - Cloud phone book list

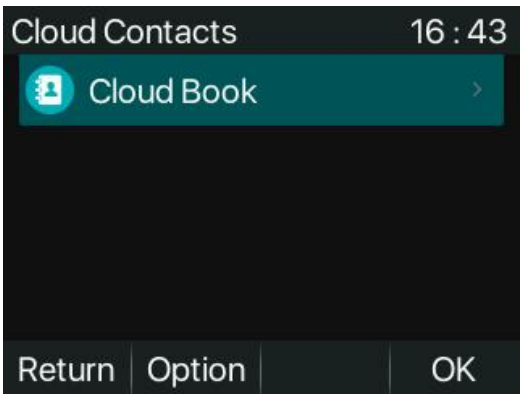
10.2.3.2 Downloading Cloud Phone book

In cloud phone book screen, user can open a cloud phone book by pressing [**OK**] / [**Enter**] button. The device will start downloading the phone book. The user will be prompted with a warning message if the download fails,

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



Picture 99 - Downloading Cloud Phone book



Picture 100 - Browsing Contacts in Cloud Phone book

10.3 Call Log

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

n 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 ‘caller number / name’. User can check more detail by pressing [**OK**] button or dial the number with [**Dial**] button, or add the number to phonebook with pressing [**Option**] >> [**Add to Contact**] .

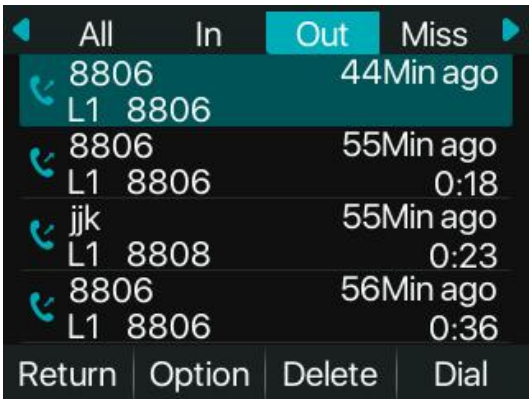
User can delete a call log by pressing [**Delete**] button and clear all call logs by pressing [**Delete All**] button.



Picture 101 - Call Log

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

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



Picture 102 - Filter call record types

10.4 Function Key

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



Picture 103 - DSS LCD key Page Configuration Screen

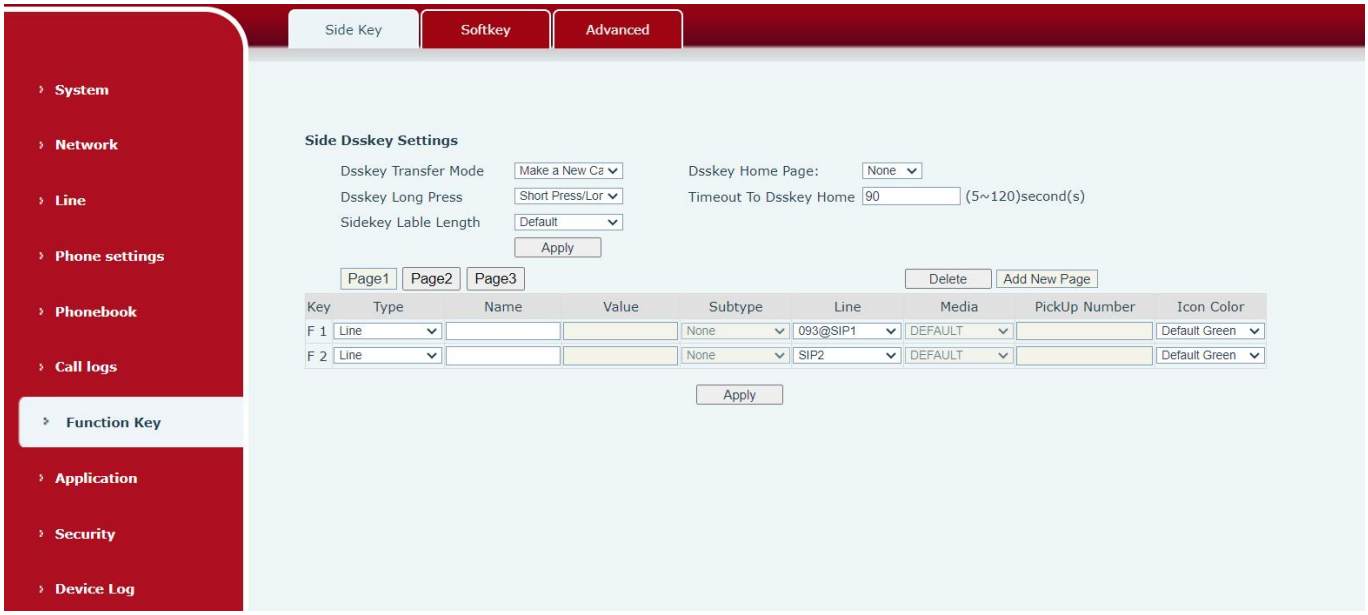
The DSS Key could be configured as followings,

- None
- Memory Key
  - N/A / Intercom/ Presence/ Voice Mail/ Call Park/ Call Forward /Speed Dial/ BLF/New Call / BLF/Bxfer / BLF/Axfer / BLF/Conf / BLF/Dtmf
- Line
- Key Event

None/Voice Mail/DND/Hold/Xfer/Dir/Redial/Pickup/Join/Call Forward/Call Log/Flash/Memo/Headset/ SMS/Release/Lock/Call Back/Hide DTMF/Intercom/Group Listening/Prefix/Transfer Prefix/Hot Desking/Agent/End/Disposition/Escalate/Trace/Handfree/Answer/Private Hold/Local Contacts/LDAP Group/XML Group/Broadsoft Group/Record/Prefix / Long Press Mute key /Simplex mode /visual park

- DTMF
- URL
- Action URL
  - HTTP Get/HTTP Post
- BLF List
- Mcast listenin
- XML Browser
- PTT
  - Intercom/ Speed Dial/ Multicast

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



Picture 104 - DSS settings

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

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

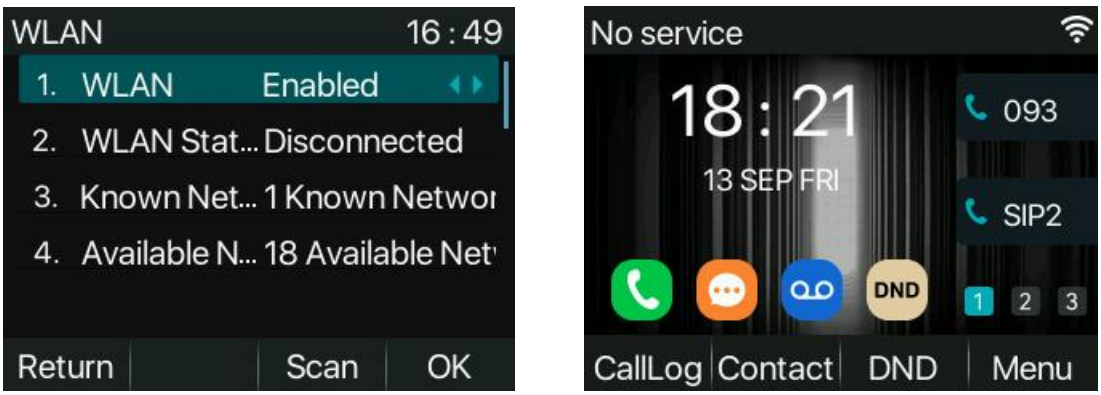
10.5 Wi-Fi (Only V60W)

The device supports wireless Internet access and has built-in Wi-Fi without external devices.

When the device is in the default standby mode,

Press [**Application**] till you find the [**Settings**]>> [**Network &Internet**].

- Enter [**Wi-Fi**] item.
- Enable the Wi-Fi to search the current wireless network automatically.
- Select to the available network, enter the user name and password to connect successfully.

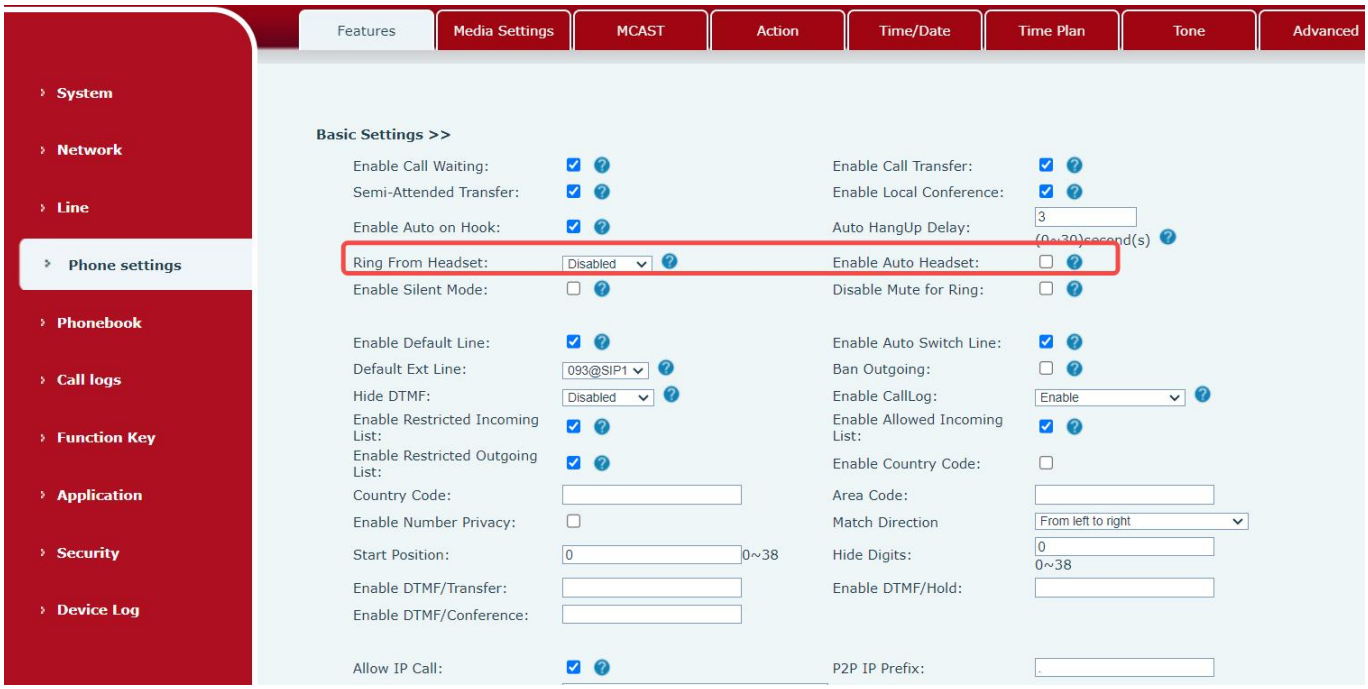


Picture 105 - Wi-Fi settings

10.6 Headset

10.6.1 Wired Headset

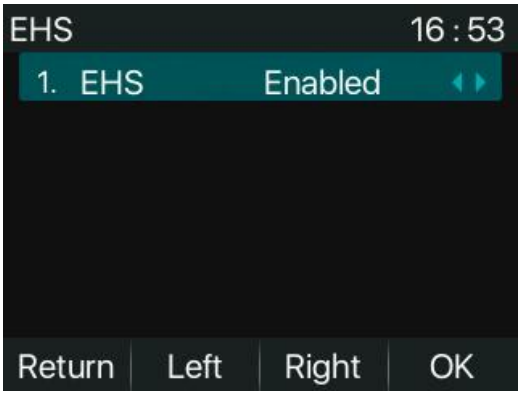
- The device supports wired earphone with RJ9 interface, which can play incoming call sound and talk with earphone.
- After the phone is connected to the headset, the default DSS key of headset will be green light which indicating that the headset can be used normally.
- On the webpage [**Phone settings**]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



Picture 106 - Headset function settings

10.6.2 EHS Headset

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



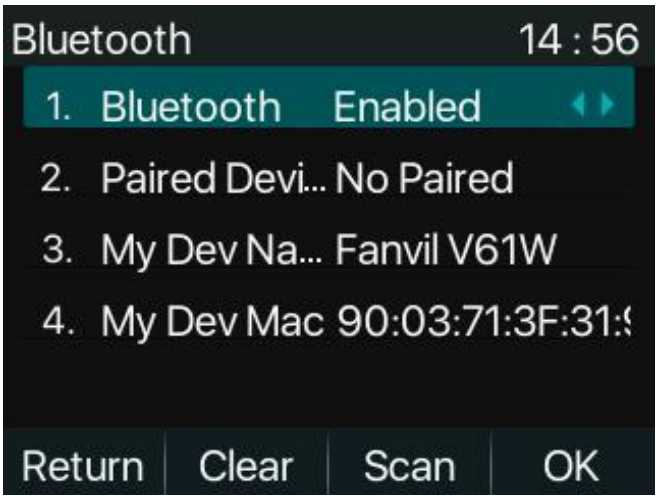
Picture 107 - EHS Headset setting

10.6.3 Bluetooth Headset(Only V60W)

The device is equipped with Bluetooth 5.4 and is compatible with multiple Bluetooth earphones

When the device is in the default standby mode,

- 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 108 - 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.

Note: Some earphones do not support the function of double-clicking the answer button to reject an incoming call. For example, the operation of MOTO BUDS 450 to reject an incoming call is "press and hold the answer button for 2s".

3) When the caller is in the ringing state, press the answer button of the headset to cancel the call.

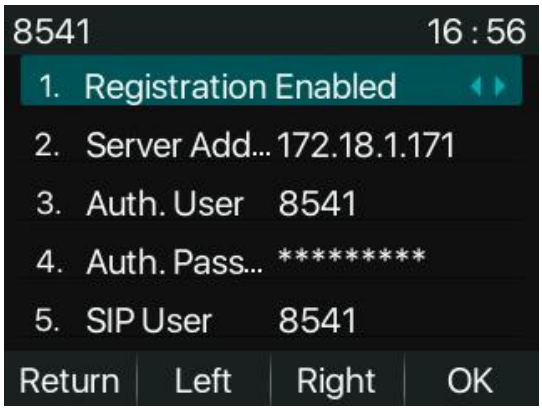
- Bluetooth redial

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

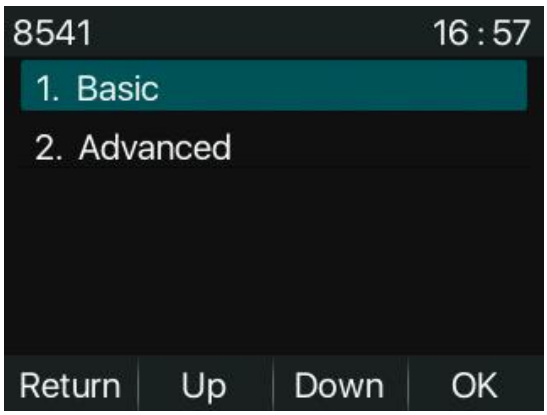
10.7.1 Line Configurations



Picture 109 - SIP address and account information

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

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



Picture 110 - Configure Advanced Line Options

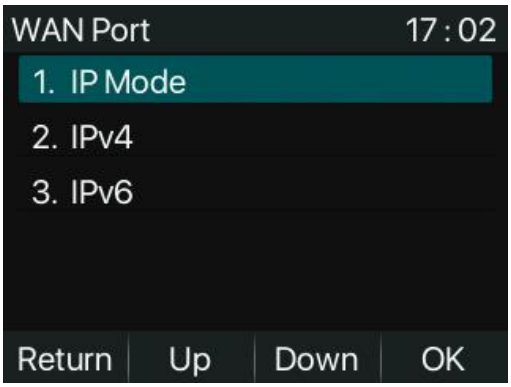
10.7.2 Network Settings

10.7.2.1 Network Settings

- **IP Mode**

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

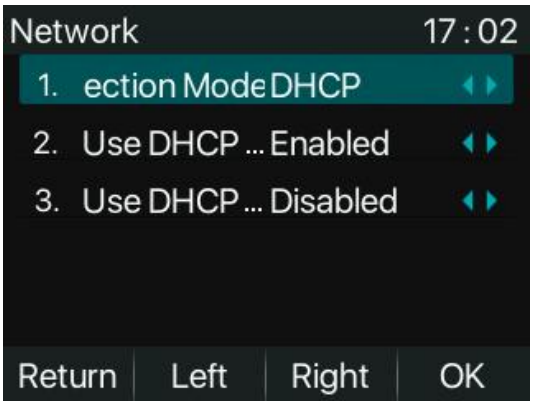
User could select available mode via “<” or “>”navigation button. The selected IP mode will be activated after pressing [OK] button.



Picture 111 - Network mode Settings

- **IPv4**

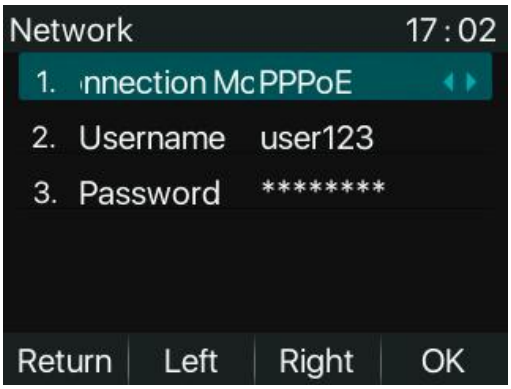
In IPv4 mode, there are 3 connection mode options: DHCP, PPPoE and Static IP.



Picture 112 - DHCP network mode

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

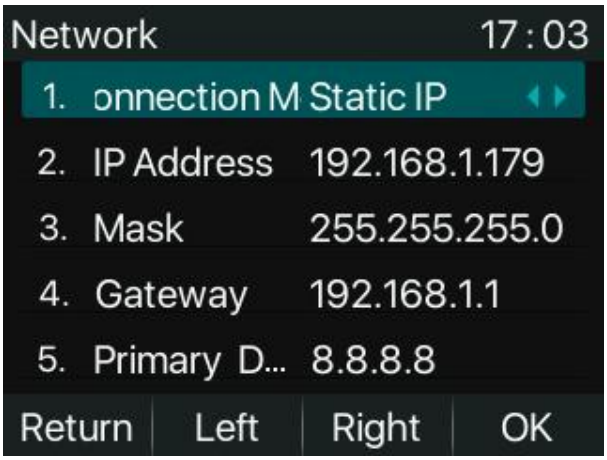
- Use DHCP DNS: It is enabled as default. “Enable” means phone will get DNS address from DHCP server and “disable” means not.
- Use DHCP time: It is disabled as default. “Enable” to manage the time of get DNS address from DHCP server and “disable” means not.



Picture 113 - PPPoE network mode

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

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



Picture 114 - Static IP network mode

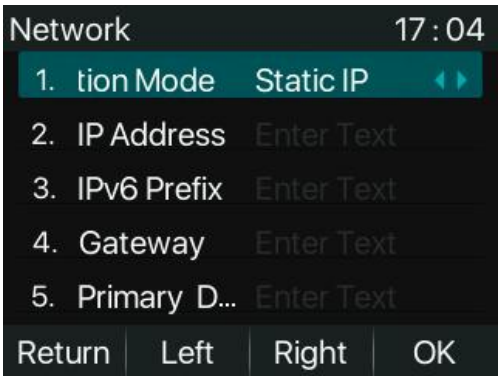
When using Static IP mode, user must configure the IP address manually.

- 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.
- 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.
- When a phone obtains an IPv6 address, it needs to add brackets inorder to visit the web page and ping the IP address, for example, [fe80::e38:3eff:fe4f:7daf]



Picture 115 - IPv6 Static IP network mode

10.7.2.2 QoS & VLAN

- **LLDP**

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

Phone could use LLDP to find the VLAN switch or other VLAN devices and use LLDP learn feature to apply the VLAN ID from VLAN switch to phone its self.

- **CDP**

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

Table 14 - QoS & VLAN

Parameters	Description
LLDP setting	
Report	Enable LLDP
Interval	LLDP requests interval time
Learning	apply the learned VLAN ID to the phone configuration
QoS	
QoS Mode	configure SIP DSCP or audio DSCP. Default: off.
WAN VLAN	
WAN VLAN	WAN port VLAN configuration. Default: off. When enabled, the user can see: 1.WAN VLAN ID 2.SIP Priority
LAN VLAN	
LAN VLAN	LAN port VLAN configuration. Default: off. When enabled, the user can see VLAN ID.
CDP	
CDP	CDP enable/disable ， CDP interval time

10.7.2.3 VPN

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

For some users, especially enterprise users, a VPN connection might be required to be established before activate a line registration. The device supports two VPN modes, Layer 2 Transportation Protocol (L2TP) and OpenVPN.

The VPN connection must be configured and started (or stopped) from the device web portal.

- **L2TP**

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,

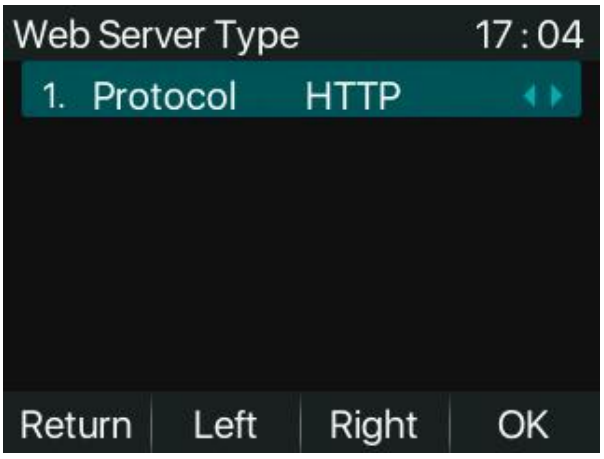
OpenVPN Configuration file:	client.ovpn
CA Root Certification:	ca.crt
Client Certification:	client.crt
Client Key:	client.key

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.

10.7.2.4 Web Server Type

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



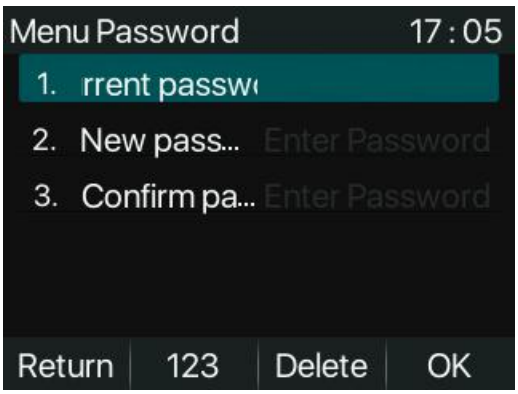
Picture 116 - The phone configures the web server type

10.7.3 Set The Secret Key

When the device is in the default standby mode,

- Select [**Menu**] >> [**System**], and enter it via [Confirm] or [OK] button.

- As default, the Advance setting password is 123.
- User will see the follow page after menu – System – Security.



Picture 117 - Keypad lock password

Menu password is the permission for accessing the System.

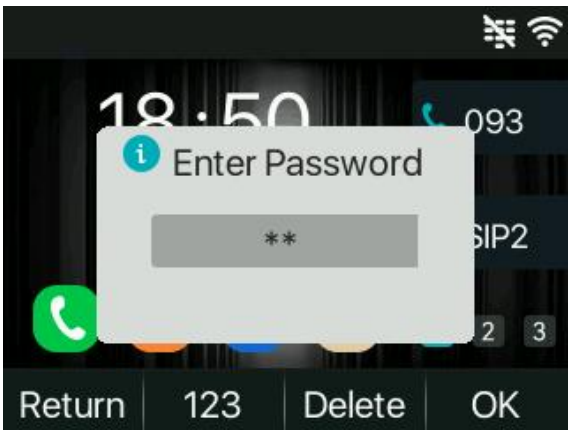
- [**Current password**] is the password user configured before. If no configuration before, the default password is 123.
- [**New password**] is the new password user to use.
- After configuring the menu password, it will work immediately.
- Keyboard password is used to unlock the phone once it's locked.



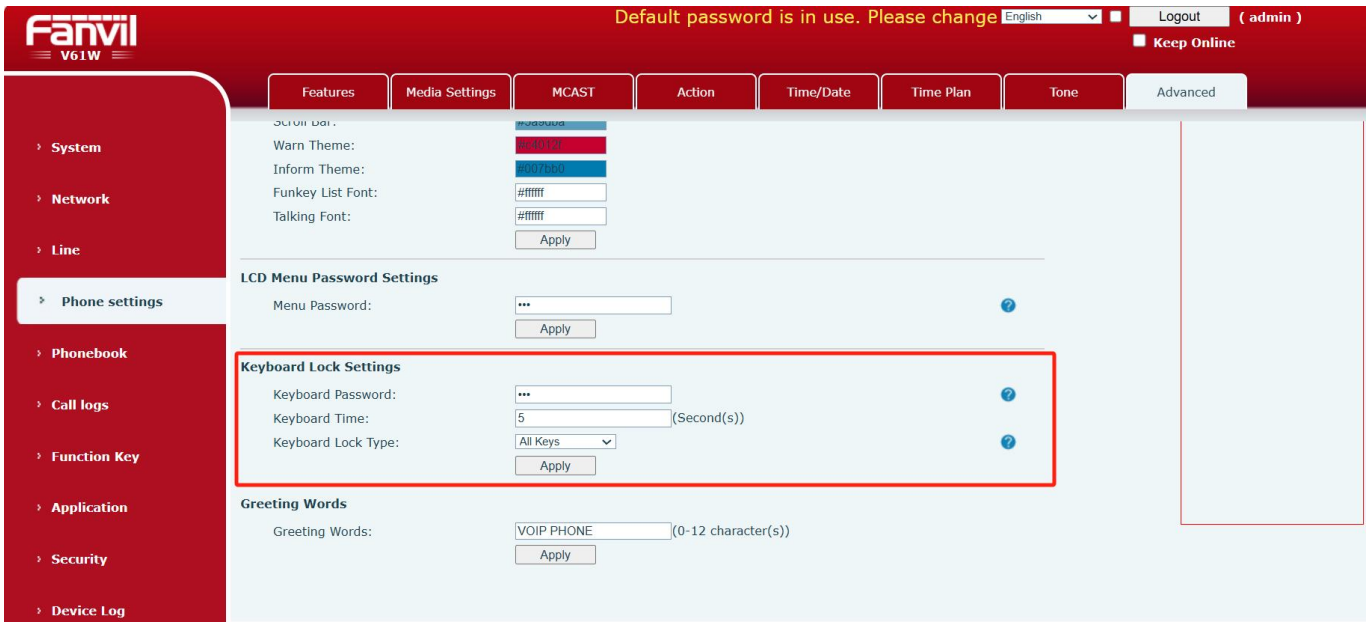
Picture 118 - Set keyboard lock password

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

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



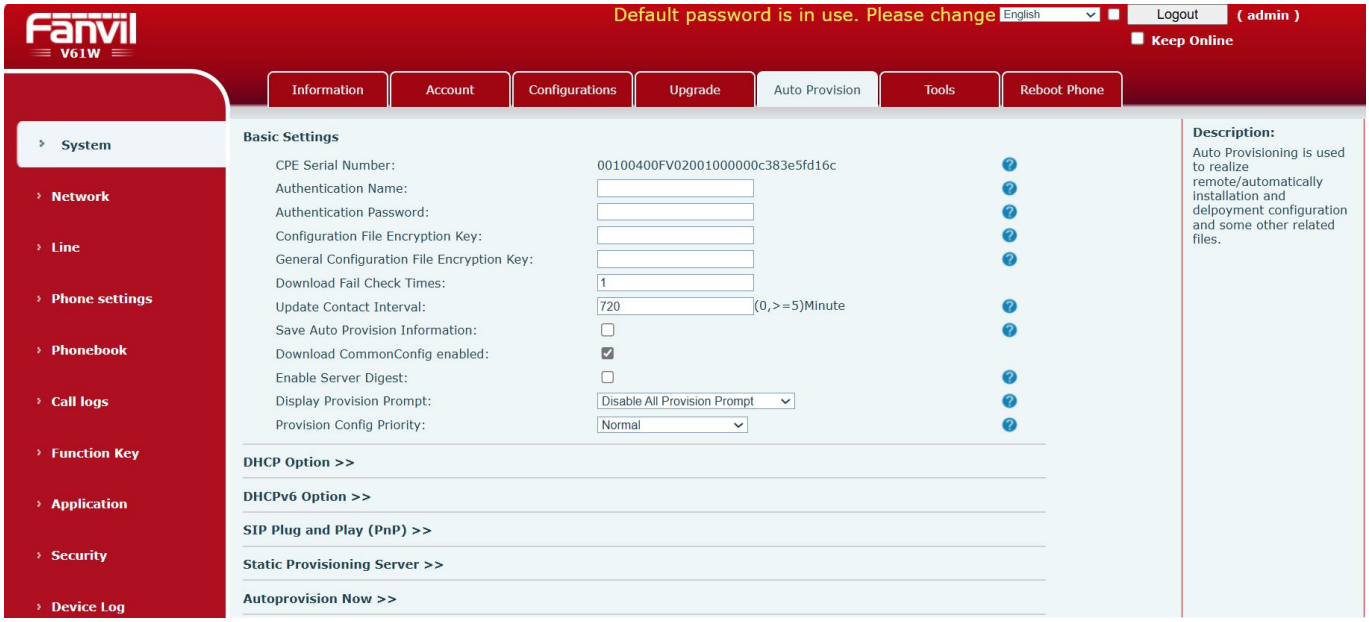
Picture 119 - Phone keypad lock password input interface



Picture 120 - Web keyboard lock password Settings

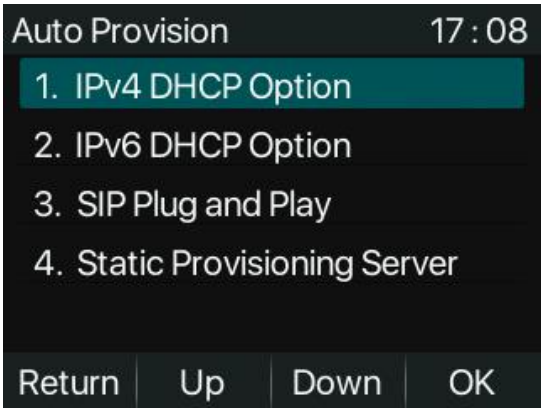
10.7.4 Maintenance

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



Picture 121 - Page auto provision Settings

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



Picture 122 - Phone auto provision settings

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

PNP>DHCP>TR069> Static Provisioning

Transferring protocol: FTP, TFTP, HTTP, HTTPS

Table 15 - Auto Provision

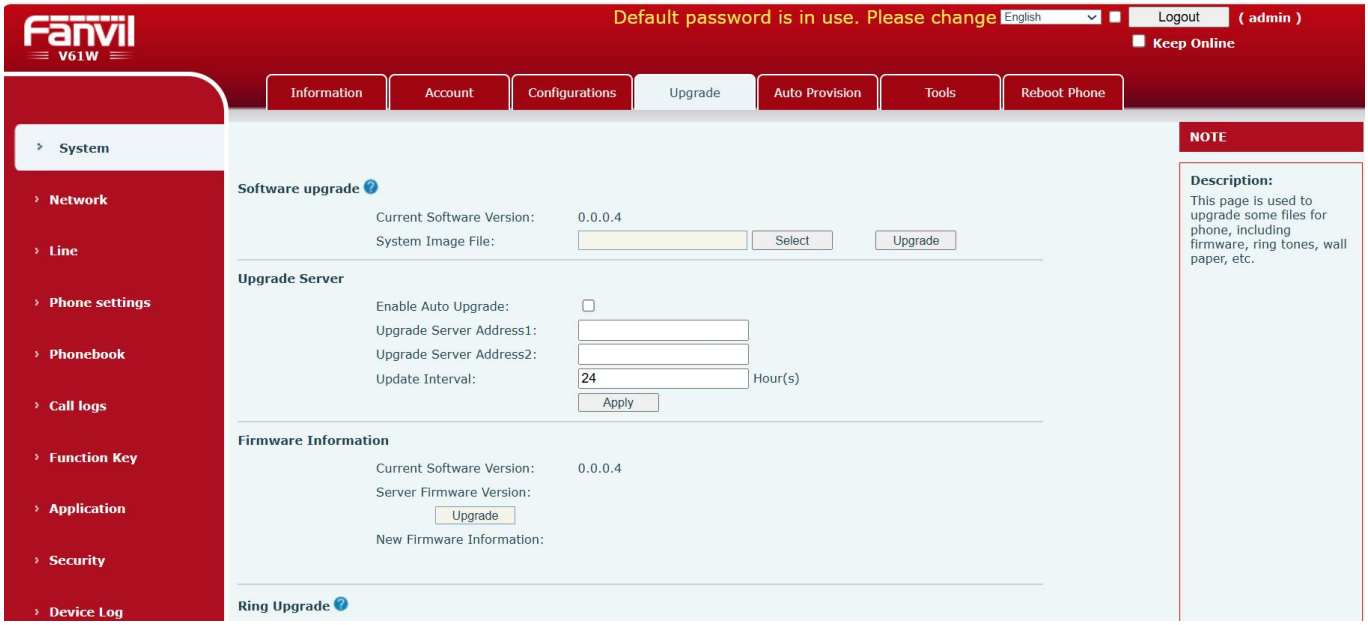
Parameters	Description
Basic settings	
CPE Serial Number	Display the device SN
Authentication Name	The user name of provision server
Authentication Password	The password of provision server
Configuration File	If the device configuration file is encrypted , user should add the encryption

Encryption Key	key here
General Configuration File Encryption Key	If the common configuration file is encrypted, user should add the encryption key here
Download Fail Check Times	If there download is failed, phone will retry with the configured times.
Update Contact Interval	Phone will update the phonebook with the configured interval time. If it is 0, the feature is disabled.
Save Auto Provision 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 enable, if the configuration of server is changed, phone will download and update.
Display Provision Prompt	Configure if the phone display the provision prompt.
Provision Config Priority	During auto provision, the configuration file preferentially uses the local configuration of the phone or the configuration obtained by the server
DHCP Option	
Option Value	Confiugre 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.
DHCPv6 Option	
Option Value	Confiugre DHCPv6 option
Custom Option Value	Custom Option value is allowed from 128 to 254. The option value must be same as server define.
SIP Plug and Play (PnP)	
Enable SIP PnP	Whether enable PnP or not. If PnP is enable, 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 at Time Interval
Autoprovision Now	**Configure the above three upgrade methods, click Autoprovision Now, and it will take effect immediately, without restart.**
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 255 character)
ACS Password	ACS server password (up to is 255 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 1~999999
STUN Server Address	Configure STUN server address
STUN Enable	To enable STUN server
Option Value	Confiugre option value or disable it.
DHCP Option ACS	Custom Option value is allowed from 128 to 254.

10.7.5 Firmware Upgrade

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



Picture 123 - Web page firmware upgrade

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



Picture 124 - Firmware upgrade information display

Table 16 - 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 available upgrade server address.
Update Interval	Set Update Interval.
Firmware Information	
Current Software Version	It will show Current Software Version.

Server Firmware Version	It will show Server Firmware Version.
[Upgrade] button	If there is a new version txt and new 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_hwv1_0.txt Hw followed by the hardware version number, it will be written as hw1_0 if there's no difference on hardware. For example, the vendor is VOIP, model is V60W, hardware version is 2.0, the file name will be voip_V60W_hw2_0.txt.

- All Spaces in the filename are replaced by underline.
- The URL requested by the phone is Http:// server address/vendor_Model_hwv1_0.txt: The new version and the requested file should be placed in the download directory of the HTTP server, as shown in the figure:



Picture 125 - Firmware upgrade file directory

- TXT file format must be UTF-8
- vendor_model_hw10.TXT The file format is as follows：
  Version=0.0.16 #Firmware
  Firmware=xxx/xxx.z #URL，Relative paths are supported and absolute paths are possible, distinguished by the presence of protocol headers.
  BuildTime=2024.03.30
  Info=TXT|XML

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

10.7.6 Factory Reset

The phone is in default standby mode.

- Press [**Menu**] to find [**Advanced**], and press [**OK**].
- 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.

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
- Uboot
- Uptime
- MEMinfo
- 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

And information about VQ status,

- Start time
- Stop time
- Local user
- Remote user
- Local IP
- Remote IP
- Local Port
- Remote port
- Local codec
- Remote codec
- Jitter
- JitterBufferMax

- Packets lost
- NetworkPacketLossRate
- MOS-LQ
- MOS-CQ
- RoundTripDelay
- EndSystemDelay
- SymmOneWayDelay
- JitterBufferRate

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. (Note: All basic configurations are cleared on a fixed basis; You can choose whether or not to keep/purge the following)

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

BASIC NETWORK: This includes the basic configuration of network

- **Clear Data Tables**

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

- **Clear ETC**

Select the ETC file to be cleared, all selected by default.

- **Reset Phone**

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

11.5 System >> Upgrade

Upgrade the phone software version, customized ringtone, background, DSS Key icon, etc.. They can also be deleted.Select the upgrade file in the corresponding location and click Upgrade. Ringtone uploads support .wav formats, and package uploads in .tar.gz formats. (The format supported by the upgrade file can be viewed at the corresponding location on the webpage)

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

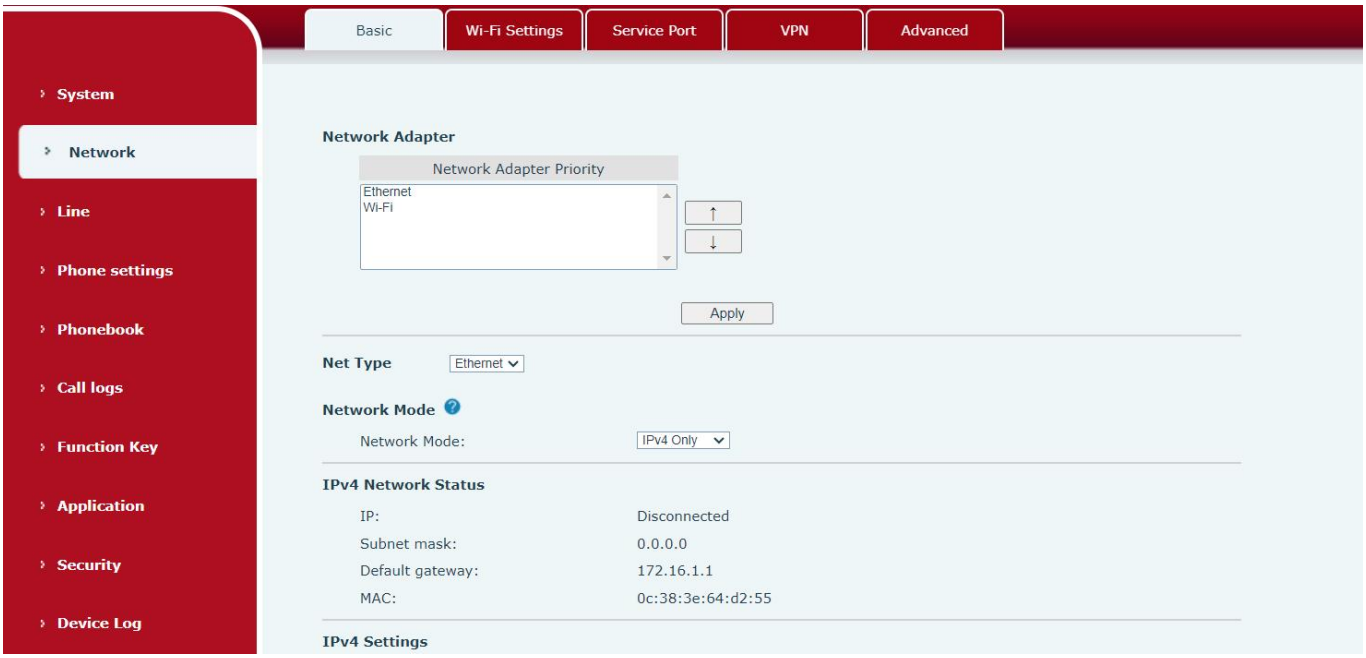
This page allows users to configure network connection types and parameters.

12.1 Network >> Wi-Fi Settings (Only V60W)

The default network priority is Ethernet

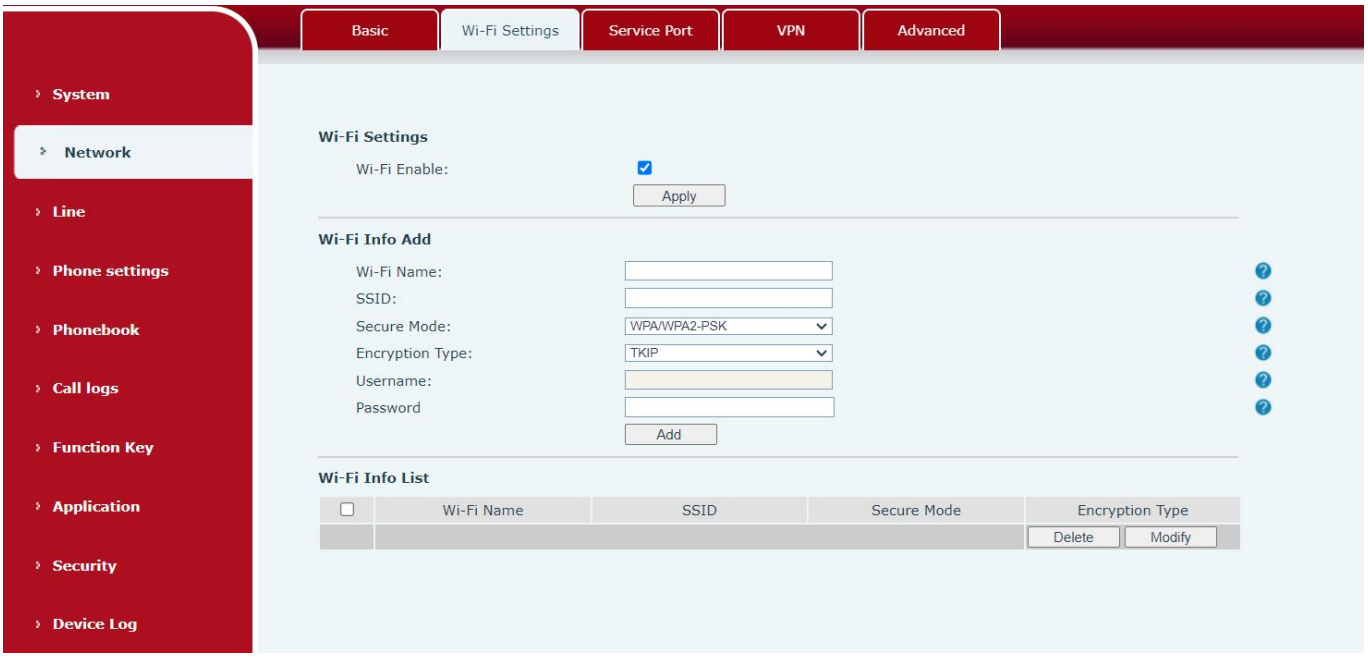
The current device supports coexistence of Wi-Fi and Ethernet, and users can log in to the web page with any network address for configuration

For example, Wi-Fi access IP is 172.16.3.138 and Ethernet access IP is 172.16.7.116 Page login 172.16.7.116, 172.16.3.138 Any network address login page for configuration



Picture 126 - Network Priority

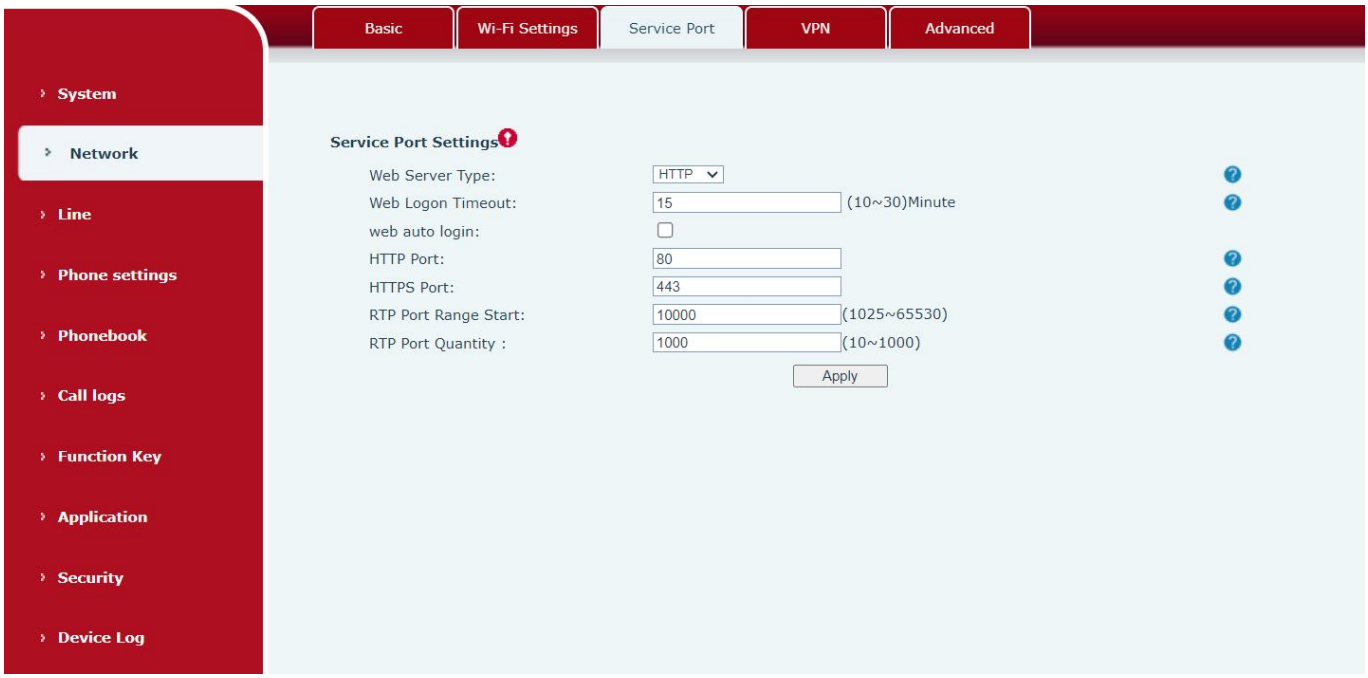
This page can turn on Wi-Fi, add Wi-Fi information, and view the wireless network list.



Picture 127 - Wi-Fi Settings

12.2 Network >> Service Port

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



Picture 128 - Service Port Settings

Table 17 - 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 1025-65530. 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 System for more details.

- **Link Layer Discovery Protocol (LLDP) Settings**
  - Enable LLDP: Select whether to enable LLDP
  - Packet Cycle: Set the packet period, the range is 1~3600 seconds
  - Enable Learning Function: Select whether to enable learning function
- **Cisco Discovery Protocol(CDP)**
  - Enable CDP: Select whether to enable CDP
  - Packet interval: Set the packet delivery interval in the range of 1~3600 seconds
- **DHCP VLAN settings**
  - Select a parameter value: Select a custom parameter or disable the DHCP VLAN
  - Option Value Data Type: Select the Option value data type
  - DHCP Option VLAN (128-254): Set DHCP VLAN parameters
- **QoS setting**
  - Enable DSCP: Select whether to enable DSCP
  - DSCP signal: Set DSCP signal, the range is 0~63
  - DSCP Audio: Set DSCP audio, the range is 0~63
- **ARP cache cycle**
  - Set the ARP cache period
- **WAN VLAN settings**
  - Enable VLAN: Select whether to enable VLAN
  - WAN VLAN ID: Set the WAN VLAN ID, the range is 0~4095
  - 802.1p signal priority: Select 802.1p signal priority, 0~7

- **LAN VLAN settings**
  - LAN VLAN Mode: Select LAN VLAN mode, or disable LAN VLAN
  - LAN VLAN ID: Set the LAN vlan id, the range is 0~4095
  - Virtual LAN Priority: Select the virtual LAN priority, 0~7
- **802.1x setting**
  - 802.1x mode: Select 802.1x authentication mode, or disable authentication
  - Authentication: Set the authentication username
  - Password: Set an authentication password
  - CA Certificate: Upload the CA certificate
  - Device Certificate: Upload the device certificate
- **Certificate documents**
  - You can upload an HTTPS certificate file

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 18 - 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 Auto Answering Delay
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 Call Forward Delay time for No Answer, 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 headphone
Hotline Delay	Set the delay for hotline before the system automatically dialed it
Hotline Number	Set the hotline dialing number
Dial Without Registered	Set whether to 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'
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.
Video Codecs	Select video code to preview video.
Advanced Settings	
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. (Note: The status of the function needs to be changed before the feature code is dialed to the server.)

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
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
Enable BLF List	Enable/Disable BLF List
BLF List Number	BLF List allows one BLF key to monitor the status of a group. Multiple BLF lists are supported.
Response Single Codec	If setting enabled, the device will use single codec in response to an incoming call request
BLF Server	The registered server will receive the subscription package from ordinary application of BLF phone. Please enter the BLF server, if the sever does not support subscription package, the registered server and subscription server will be separated.

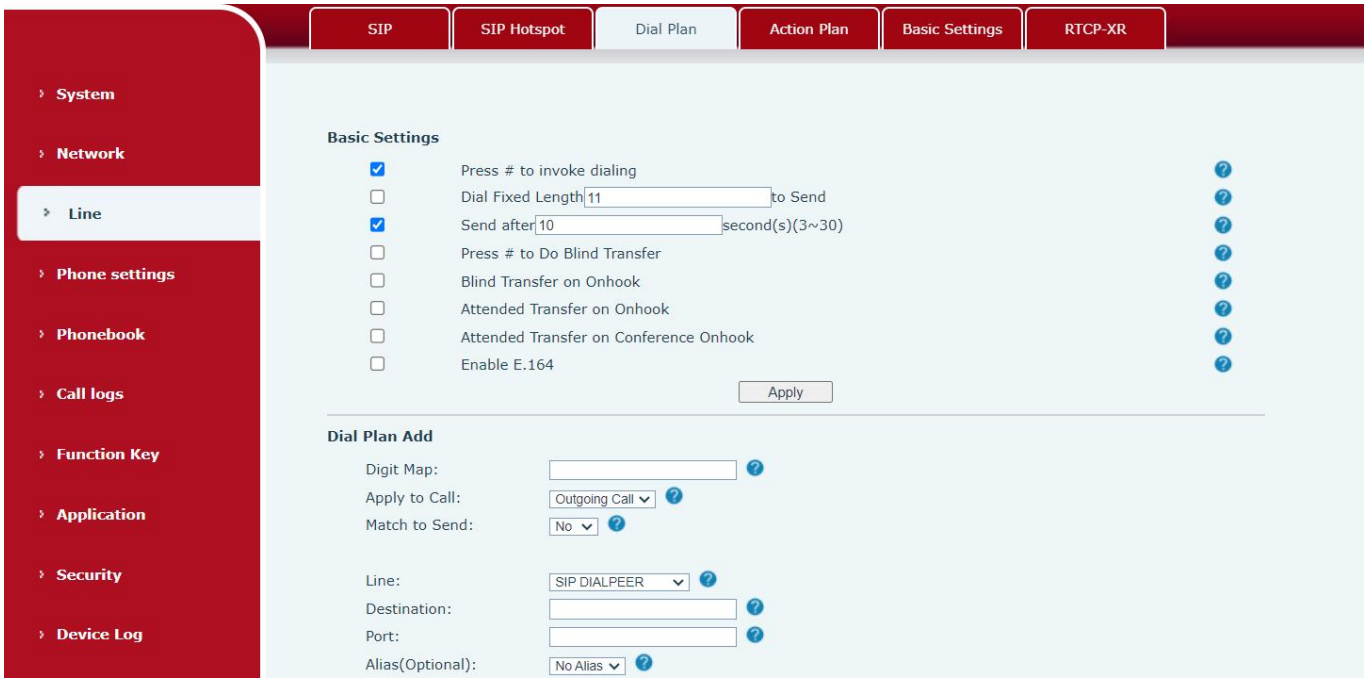
Keep Alive Type	Set the line to use dummy UDP or SIP OPTION packet to keep NAT pinhole opened
Keep Alive Interval	Set the keep alive packet transmitting interval
Keep Authentication	Keep the authentication parameters from previous authentication
Blocking Anonymous Call	Reject any incoming call without presenting caller ID
User Agent	Set the user agent, the default is Model with Software Version.
Specific Server Type	Set the line to collaborate with specific server type
SIP Version	Set the SIP version
Anonymous Call Standard	Set the standard to be used for anonymous
Local Port	Set the local port
Ring Type	Set the ring tone type for the line
Enable user=phone	Sets user=phone in SIP messages.
Use Tel Call	Set use tel call
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, i.e. “Fanvil” vs “Fanvil”
Enable GRUU	Support Globally Routable User-Agent URI (GRUU)
Sync Clock Time	Time Sync with server
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.
Enable Changeport	Set whether to enable changeport

VQ Name	Set the VQ name
VQ Server	Set the VQ server address
VQ Server Port	Set the VQ server port
VQ Http/Https Server	Set the VQ Http/Https server
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.
Enable Deal 180	Set whether the phone rings when receiving a 180 SIP message
Transaction Timer T1	Configure the transaction timer time T1, the range of T1 value is from 500 to 10000 milliseconds.
Transaction Timer T2	Configure the transaction timer time T2, the range of T2 value is from 2000~-40000 milliseconds.
Transaction Timer T4	Configure the transaction timer time T4, the range of T4 value is from 2500 to 60000 milliseconds.
CallPark Number	Set up supported callpark numbers by the server
PickUp Number	Set up the pick up number
JoinCall Number	Set up joincall numbers to join meetings
Retrieve Number	Set up the retrieve number to input when trying to retrieve the parked call
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.

12.6 Line >> SIP Hotspot

Please refer to 9.9 SIP Hotspot.

12.7 Line >> Dial Plan



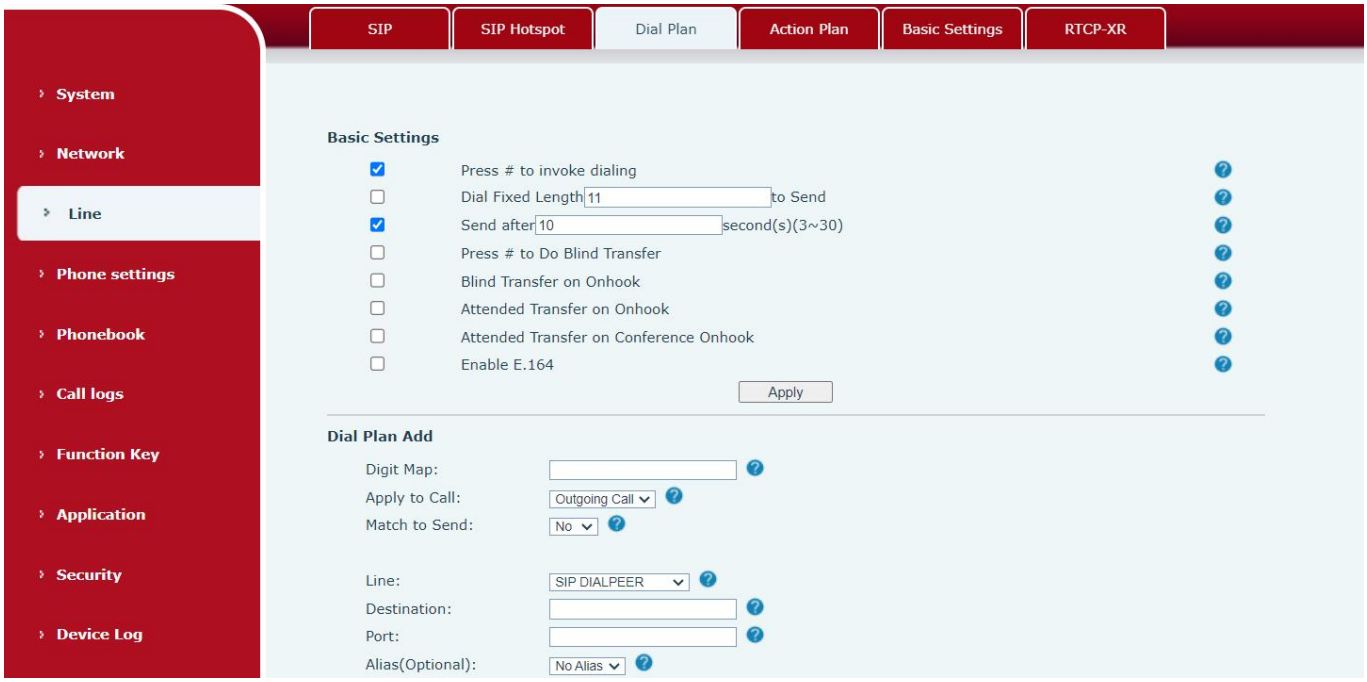
Picture 129 - Dial plan settings

Table 19 - 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
Press # to Do Blind Transfer	The user enters the number to be transferred and then presses the "#" key to transfer the current call to a third party
Blind Transfer on Onhook	After the user enters the number, hang up the handle or turn off the hands-free function to transfer the current call to a third party.
Attended Transfer on Onhook	Hang up the handle or press the hands-free button to realize the function of attention-transfer, which can transfer the current call to a third party.

Attended Transfer on Conference Onhook	During a three-way call, hang up the handle and the remaining two parties remain on the call.
Enable E.164	Please refer to e. 164 standard specification

Add dialing rules:



Picture 130 - Custom setting of dial - up rules

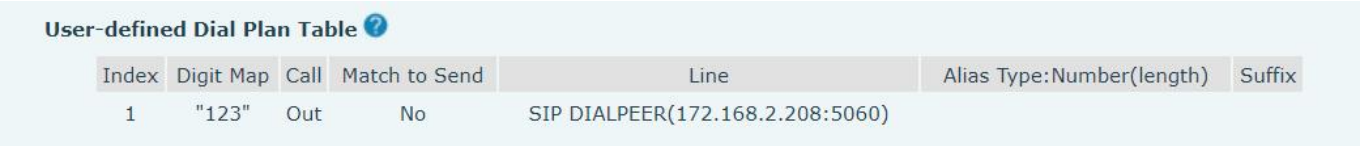
Table 20 - Dial - up rule configuration table

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.
Note: 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.	
Apply to Call	Configure dialing rule application scenarios: outbound, inbound, or both.
Match to Send	Enable precise matching.
Destination	Set Destination address. This is for IP direct.
Port	Set the Signal port, and the default is 5060 for SIP.

Alias(Optional)	Set the Alias. This is the text to be added, replaced or deleted. It is an optional item.
Note: There are four types of aliases. ■ 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.	
Phone Number	Configure dialing rule telephone number aliases.
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.

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.

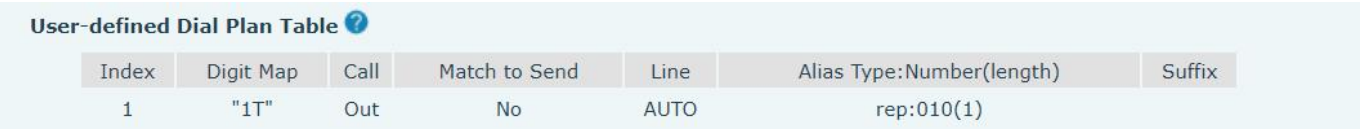


User-defined Dial Plan Table

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 131 - 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.



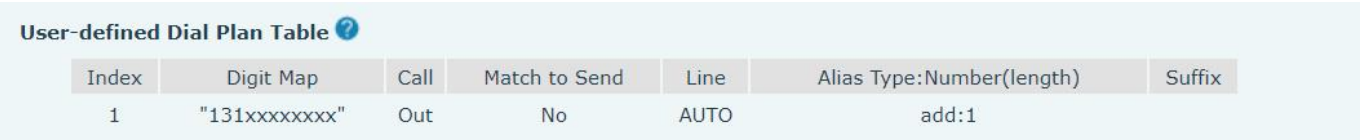
User-defined Dial Plan Table

Index	Digit Map	Call	Match to Send	Line	Alias Type:Number(length)	Suffix
1	"1T"	Out	No	AUTO	rep:010(1)	

Picture 132 - 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 131.



User-defined Dial Plan Table

Index	Digit Map	Call	Match to Send	Line	Alias Type:Number(length)	Suffix
1	"131xxxxxxxx"	Out	No	AUTO	add:1	

Picture 133 - Dial rules table (3)

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.



Picture 134 - Dial rules table (4)

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 Fanvil for remote control and behavior linkage between Fanvil terminal equipment and other equipment. That is, when an event occurs on the Fanvil 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.

Table 21 - Action Plan

Action	
Description	Actions triggered by the rules of number configuration.
Options	Default: when the rule is triggered, the phone displays video or converts multicast according to the RTSP URL or multicast address port set by the website. 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. Record: the phone automatically turns on the recording function when the rule is triggered. Mute: the phone will mute automatically when the rule is triggered. Answer: when the rule is triggered, the phone automatically answers the incoming call.
Default	Default
Number	
Description	The calling number corresponding to each linkage plan; supports number expressions identical to the receive number rules
Options	123; 1xx; 1.; 1[3,5,7,8]xxxxxxxxx; 5753[5-6]xxxx X represents a match for any single digit; . represents a match for any single digit; [] represents matching rules for a specific digit.
Default	None

Type	
Description	Types of time periods for rule triggering execution
Options	Early: Triggered and executed before call establishment. Connected: Triggered and executed after call establishment.
Direction	
Description	The corresponding behavior handling for the configured rule
Options	Both: Triggered for both incoming and outgoing calls simultaneously; Outgoing: Triggered for outgoing calls only; Incoming: Triggered for incoming calls only.
Default	Both
Line	
Description	The selected rule corresponds to the matched SIP line
Options	Auto,SIP1~SIP4
Default	Auto
MCAST Codec	
Description	The multicast encoding sent when the multicast conversion rule is triggered
Options	PCMU,PCMA,G726-16,G726-24,G726-32,G726-40,G.729,G.729A,G.729B, G.729AB,G723,iLBC,opus,G722 Note: The supported encodings may vary depending on the model, and the phone encoding used in practice should prevail.”
Default	PCMU
URL	
Description	When triggered by the default and conversion multicast rules, execute the URL.
Options	It supports HTTP/HTTPS/RTSP and multicast address and port. 1. When set to Default, it supports sending Action URL, as well as configuring the RTSP video stream, multicast address, and port. When triggered by the conversion multicast rule, it supports configuring the multicast address and port. The configuration formats are: For Default action selection, the configuration format is: “mcast://multicast address:port”. For Conversion Multicast action selection, the configuration format is: “mcast://multicast address:port”."
Default	None

12.9 Line >> Basic Settings

Set up the register global configuration.

Table 22 - Set the line global configuration on the web page

Parameters	Description
STUN Settings	
STUN NAT Traversal	Display whether STUN penetration is successful.
Server Address	Set the STUN server address
Server Port	Set the STUN server port, default is 3478
Binding Period	Set the STUN binding period which can be used to keep the NAT pinhole 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

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 23 - 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.
Display Report Options on Phone	Choose whether the following options should be enabled

12.11 Phone settings >> Features

Table 24 - 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 Local Conference	Enable Local Conference by selecting it
Enable Auto Onhook	The phone will hang up and return to the idle automatically at hands-free mode
Auto HangUp Delay	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 From Headset	Enable Ring for Headset by selecting it, the phone plays ring tone from Headset
Enable Auto Headset	Enable this feature, headset plugged in the phone, user press 'answer' key or line key to answer a call with the headset automatically.
Enable Silent Mode	When enabled, the phone is muted, there is no ringing when calls, you can use the volume keys and mute key to unmute.
Disable Mute for Ring	When it is enabled, you can't mute the phone
Enable Default Line	If enabled, user can assign default SIP line for dialing out rather than SIP1.
Enable Auto Switch Line	Enable phone to select an available SIP line as default automatically
Default Ext Line	Select the default line to use for outgoing calls
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.
Enable DTMF/Transfer	Set the DTMF value for the server upon receiving transfer operation
Enable DTMF/Hold	Set the DTMF value for the server upon receiving hold operation
Enable DTMF/Conference	Set the DTMF value for the server upon receiving conference operation
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. More details please refer to this link
Push XML Server	Set the server address for XML push, and only the content pushed by this server address will be displayed on the phone
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 Allowed List/FWD Allowed 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.
Call Number Filter	Set the characters filtered by the phone when dialing; if the dialed number contains configured characters, the phone will automatically filter these characters when dialing.
Auto Resume Current	When the configuration is enabled, the phone will automatically restore the current call.
Call Timeout	Set the call timeout period, after which the phone cancels the current call
Ring Timeout	Set the ring timeout period, after which the phone rejects the current call when the incoming call rings timeout.
Enable Push XML Auth	Enable XML push authentication.
Ring Priority	Set the incoming call priority, configure whether to prioritize displaying the incoming call interface.
Enable Display To Info	Set whether to display the “to” information.
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.
Auto Answer Tone	Upon activation, you will hear a “beep beep” prompt when auto-answering.
Ring Back Tone	Customize the ringing tone for outgoing calls.
Busy Tone	Customize the tone for hanging up calls.
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
Bluetooth Settings(only V60W)	
Enable Bluetooth	Enable Bluetooth settings
Bluetooth Name	Bluetooth display name
Event Notification LED	
Ringing	Power lamp status when there is an incoming call, including off/on/Fastblink、Slowblink, default flash.
Hold/Held	The power lamp state, including off/on/Fastblink、Slowblink, is turned off by default when left/retained.
Mute	Power lamp status in mute mode, including off/on/Fastblink、Slowblink , off by default.
Talk/Dial	In the talk/dial state, the power lamp state, off is off, on is always red bright, the default is off.
Missed call	The state of the power lamp when there is a missed call, including off/on/Fastblink、Slowblink, the default slow flash.
SMS/Voice Mail	The status of power lamp when there is unread short message/voice message, including off/on/Fastblink、Slowblink, default slow flash.
Registration Failed	Power indicator light status on registration failure, including off/on/Fastblink、Slowblink, default slow flashing.
Phone Silent	Power indicator light status when in silent mode during standby, including off/on/Fastblink、Slowblink default slow flashing.
Common	Standby power lamp state, off when off, open is always bright red. Off by

	default.
Power Saving	Whether to enable energy-saving mode, including off/on, default on.
DssKey Setting	Set the status and color of the DssKey light when the phone receives status text corresponding to the server's number.
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 voice Settings.

Table 25 - Voice settings

Parameters	Description
Codecs Settings	Select enable or disable voice encoding: G.711A/U,G.729,G.729A, G.729B, G.729AB,G.726-16/24/32/40, G.722, ILBC, opus,G.723.1
Media 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 earphone ringtone to 0~9.
Headset Volume	Set the volume of the headset to 1~9.
Speakerphone Ring Volume	Set the volume of hands-free ringtone to 1~9.
DTMF Payload Type	Enter the DTMF payload type, the value must be 96~127.
Headset Mic Gain	Set the earphone's radio volume gain to fit different models of earphones.
Handset Mic Gain	Set the handset's radio volume gain
Handfree Mic Gain	Set the handfree's radio volume gain
Opus playload type	Set Opus load type, range 96~127.

OPUS Sample Rate	Set Opus sampling rate, including opus-nb (8KHz) and opus-wb (16KHz).
ILBC Payload Type	Set the ILBC Payload Type, the value must be 96~127.
ILBC Payload Length	Set the ILBC Payload Length
Enable MWI Tone	When there is a new voice message message, the phone will start a special dial tone.
Enable VAD	Whether voice activity detection is enabled.
Onhook Time	Configure a minimum response time, which defaults to 120ms
Enable Hookflash	Whether to enable hookflash
EHS Type	EHS headset is available after enabling.
RTP Control Protocol(RTCP) Settings	
CNAME user	Set CNAME user
CNAME host	Set CNAME host
RTP Settings	
RTP keep alive	Hold the call and send the packet after 30s
RTP Relay	Set the RTP Relay
Alert Info Ring Settings	
Value	Set the value to specify the ring type.
Line	Set the corresponding line for incoming calls
Ring Type	None/Default/1.wav-10.wav

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 26 - Multicast parameters

Parameters	Description
MCAST Settings	
MCAST Send DTMF Mode	Set the DTMF mode sent by MCAST
MCAST Listening	
SIP Priority	Define the priority of the active call, 1 is the highest priority, 10 is the lowest.
Enable Page Priority	Regardless of who calls in first, the call will be answered first by the multicast with higher priority.
Enable Prio Chan	Set the priority to enable multicast listening on the current channel
Enable Emer Chan	The multicast of each channel is not affected by the order, and other

	multicasts can be interrupted at will
Index/Priority	Set the priority of the curent multicast
Name	Listened multicast server name
Host:port	Listened multicast server's multicast IP address and port.
Channel	Set the MCAST channel
MCAST Dynamic	
Auto Exit Expires	Set the timeout for automatic cancellation of group multicast to default 60
MCAST Dynamic List	Including index, priority, MCAST IP, and port.

12.14 Phone settings >> Action

Action URL for IPPBX system to submit phone events.

12.14.1 Action URL Description

The Action URL is used by the phone itself to initiate an HTTP Get request to a remote control panel when the phone's own state changes. This event is then sent to the remote control panel, which can perform corresponding phone operations based on this state change.

12.14.2 Protocal Description

The HTTP URL format of the Action URL is defined by the HTTP Server end of the console. The phone is only responsible for initiating an HTTP Get request when the corresponding state changes. In general, the HTTP URL format of the Active URL is: "http://192.168.1.100/newcall.xml?num=$call_id"

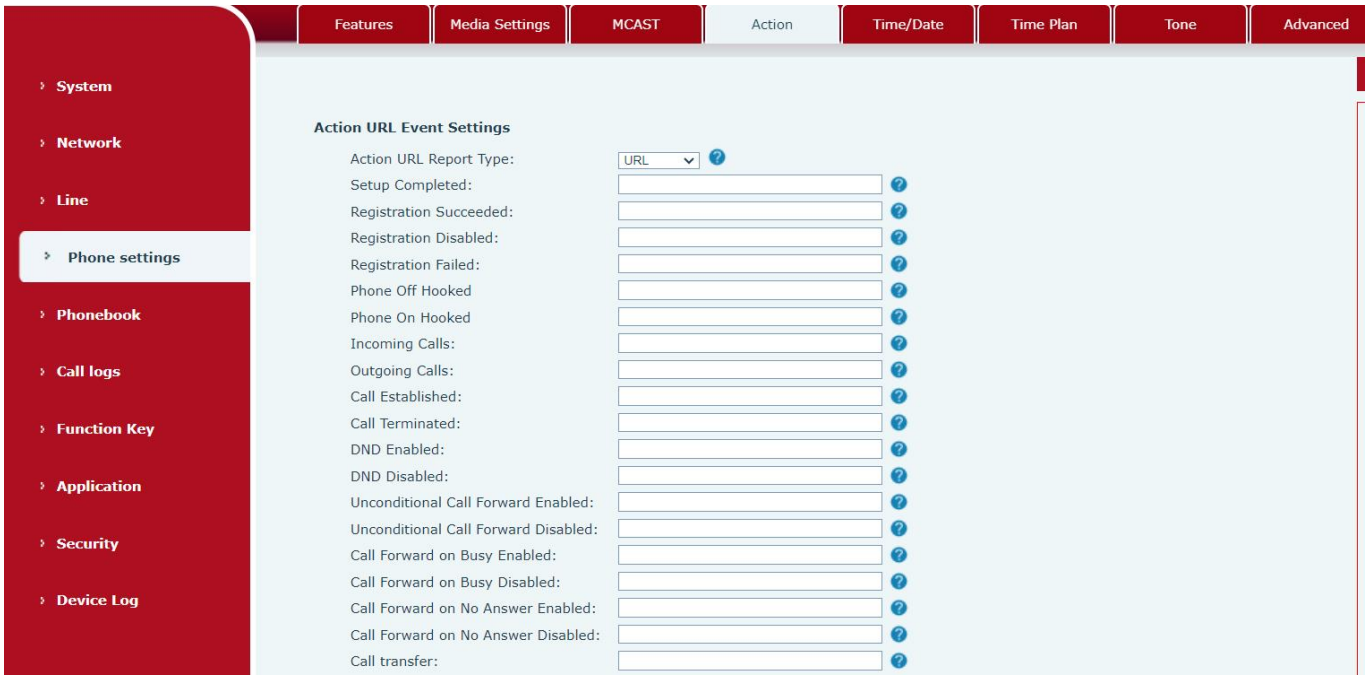
"192.168.1.100" is the IP address of the remote control panel;

"newcall.xml?" is the processing method corresponding to various states defined by the remote control panel's HTTP Server;

"$call_id": the variables supported internally by the phone are automatically replaced with the current real values of the system before initiating an HTTP Get request. Internal variables start with "$"

12.14.3 Action URL Settings

Access the web management page of the phone, go to [Phone Settings] > [Action] > [Action URL Event Settings], and enter the corresponding URL in each input box for each event. For example, after the Incoming Call event, input http://192.168.1.100/newcall.xml?num=$call_id. After configuration, if there is an incoming call with the number 1234, the phone will initiate an HTTP Get to http://192.168.1.100/newcall.xml?num=1 (the call number).



Picture 135 - Action URL

12.14.4 Event List

Users can choose the Action URL notification type, which includes URL, SIP Notify, SIP Info, with the default set to URL.

Table 27 - Event List

Event	Description
Setup Completed	Phone startup completed
Registration Succeeded	Account registration successful
Registration Disabled	Account unregistered
Registration Failed	Account registration failed
Phone Off Hooked	Phone picked up
Phone On Hooked	Phone hung up
Incoming Calls	New incoming call
Outgoing Calls	Outgoing call
Call Established	Call established
Call Terminated	Call ended
DND Enabled	Do Not Disturb activated
DND Disabled	Do Not Disturb deactivated
Unconditional Call Forward Enabled	Unconditional Call Forwarding activated
Unconditional Call Forward Disabled	Unconditional Call Forwarding deactivated
Call Forward on Busy Enabled	Call Forward on Busy activated

Call Forward on Busy Disabled	Call Forward on Busy deactivated
Call Forward on No Answer Enabled	Call Forward on No Answer activated
Call Forward on No Answer Disabled	Call Forward on No Answer deactivated
Call transfer	Call transfer
Call hold	Call on hold
Call resume	Call resumed
Phone Silent	Phone muted
Phone Unsilent	Phone unmuted
Call Mute	Call muted
Call Unmute	Call unmuted
Missed Calls	Missed call
IP Changed	Change phone IP address
Phone State Idle	Phone transitioning from other interface to standby page
Phone State Talking	Phone in active call state
Phone State Ringing	Phone ringing
Voice Mail	Voicemail
SMS	Short message
Start Reboot	Control phone reboot
Web API Auth Changed	Web API authentication identity change
Reset Phone	Control phone factory reset
Insufficient ROM	Insufficient ROM space
Received Sip Message	SIP message received

12.14.5 Parameter List

Table 28 - Parameter List

Parameter	Description
$mac	Device MAC Address
$ip	Currently available IP address
$model	Phone model
$firmware	Software version number
$active_uri	SIP URI of the current active SIP account (effective only during incoming, outgoing, and ongoing calls)
$active_user	User account part of the SIP URI of the current active account (effective only during incoming, outgoing, and ongoing calls)
$active_host	Server part of the SIP URI of the current active account (effective only during incoming, outgoing, and ongoing calls)

$local	Local SIP URI (effective during incoming, outgoing, and ongoing calls)
$remote	Remote SIP URI (effective during incoming, outgoing, and ongoing calls)
$display_local	Local display name (displays the number when there is no display name) (effective only during incoming and outgoing calls)
$display_remote	Remote display name (displays the number when there is no display name) (effective only during incoming and outgoing calls)
$call_id	Call ID (effective only during incoming, outgoing, and ongoing calls)
$duration	Call duration (effective only at the end of the call)
$date_time	Timestamp
$memory_free	Memory
$line	Line used for the call (effective during incoming, outgoing, ongoing, and registration)
$local_user	Local users in the call (effective during incoming, outgoing, and ongoing calls)
$local_server	Server used for SIP calls (effective during incoming, outgoing, and ongoing calls)
$local_domain	Domain for SIP calls (effective during incoming, outgoing, and ongoing calls)
$local_number	Local call number (effective during incoming, outgoing, and ongoing calls)
$local_displayname	Local call display name (effective during incoming, outgoing, and ongoing calls)
$remote_number	Remote number in the call (effective during incoming, outgoing, ongoing, and missed calls)
$remote_displayname	Display name of the remote number in the call (effective during incoming, outgoing, and ongoing calls)

Note:

1) Effective only during incoming calls means that the variable will be replaced with the corresponding information only when the variable is filled in the Incoming call options.

2) Effective only during outgoing calls means that the variable will be replaced with the corresponding information only when the variable is filled in the Outgoing call options.

3) Effective only during ongoing calls means that the variable will be replaced with the corresponding

information only when the variable is filled in options related to calls such as Call established, Call terminated, Transfer call, Blind transfer call, Attended transfer call, Hold, Unhold, Mute, Unmute, etc.

12.15 Phone settings >> Time/Date

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

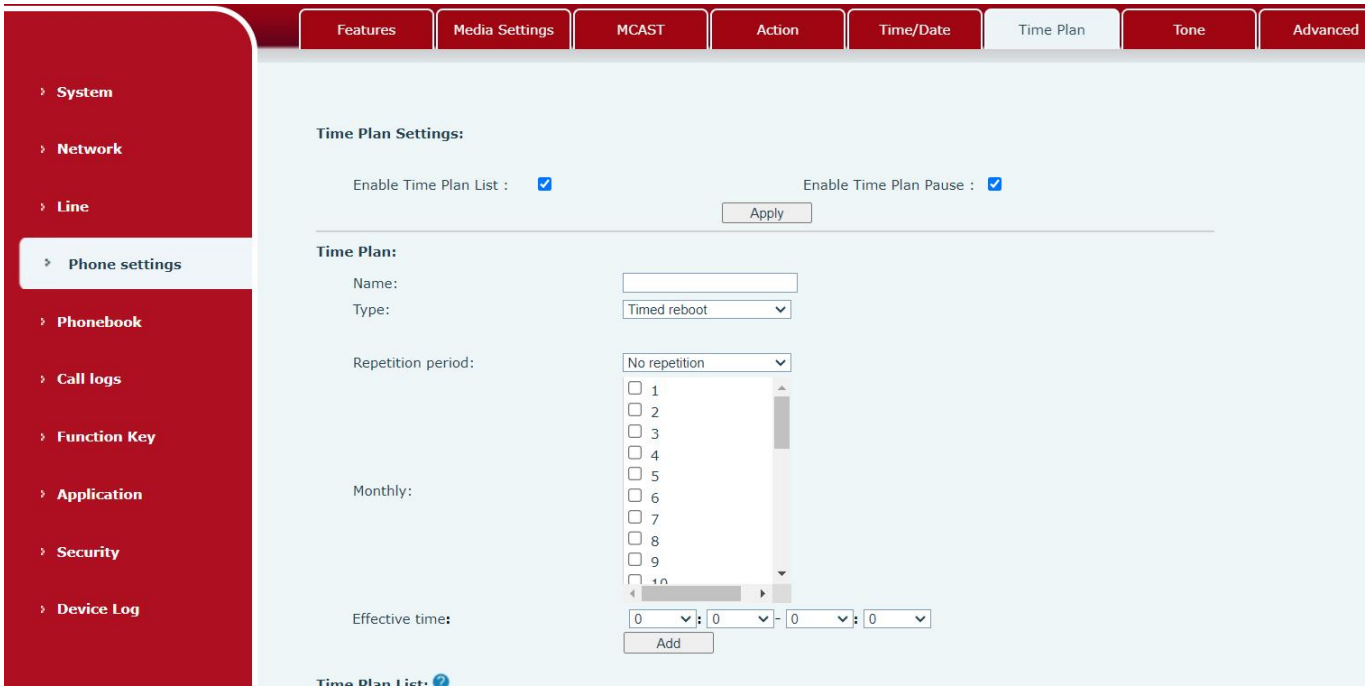
Table 29 - Time&Date settings

Parameters	Description
Network Time Server Settings	
Time Synchronized via SNTP	Enable time-sync through SNTP protocol
Time Synchronized via DHCP	Enable time-sync through DHCP protocol
Time Synchronized via DHCPv6	Enable time-sync through DHCPv6 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
Time/Date Format	
12-hour clock	Set the time display in 12-hour mode
Time/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
Month End	The DST end month
Week End	The DST end week
Weekday End	The DST end weekday

Hour End	The DST end hour
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.



Picture 136 - Time Plan (1)

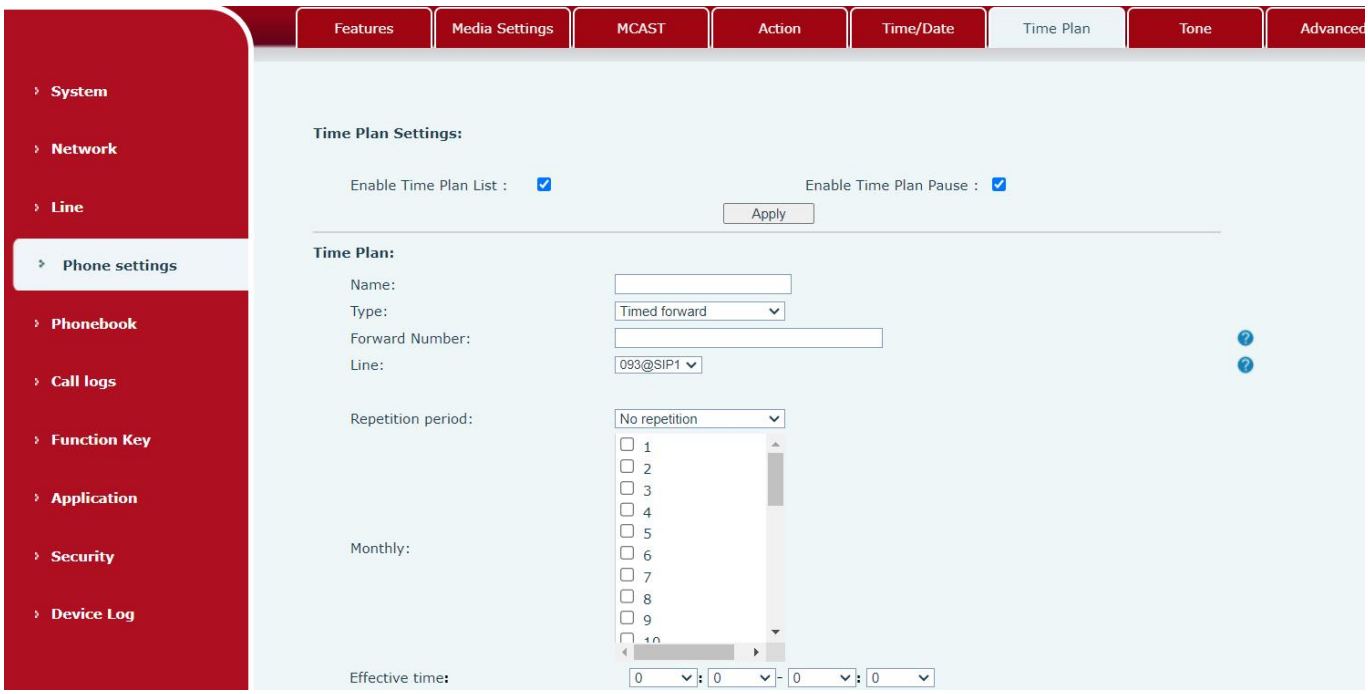
Table 30 - Time Plan

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
No repetition/ Daily/Weekly/Monthly	0-6 ： Sunday-Saturday, supports multiple separated by ";" 1-31：1-31 day	Choose the exact repetiton period

	When the repetition type is daily/non-repeating, the value is empty	
Effective time	xx:xx-xx:xx	Start time - End time

■ Timed forward

When type is set to timed forward, the webpage will prompt for input of the forwarding number and line.



Picture 137 - Time Plan (2)

Forward 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.

■ Timed upgrade

The administrator configures the software version URL in the webpage [Auto Provision], and then goes to [Phone Settings] >> [Time Plan] to select the type as “Timed upgrade”, configure the repetition period, effective time, etc. Within the set time period, the phone will automatically upgrade its version.

■ Timed reboot

When the type is set to timed reboot, configure the repetition period, effective time, etc. Within the set time period, the phone will automatically reboot.

■ Timed config

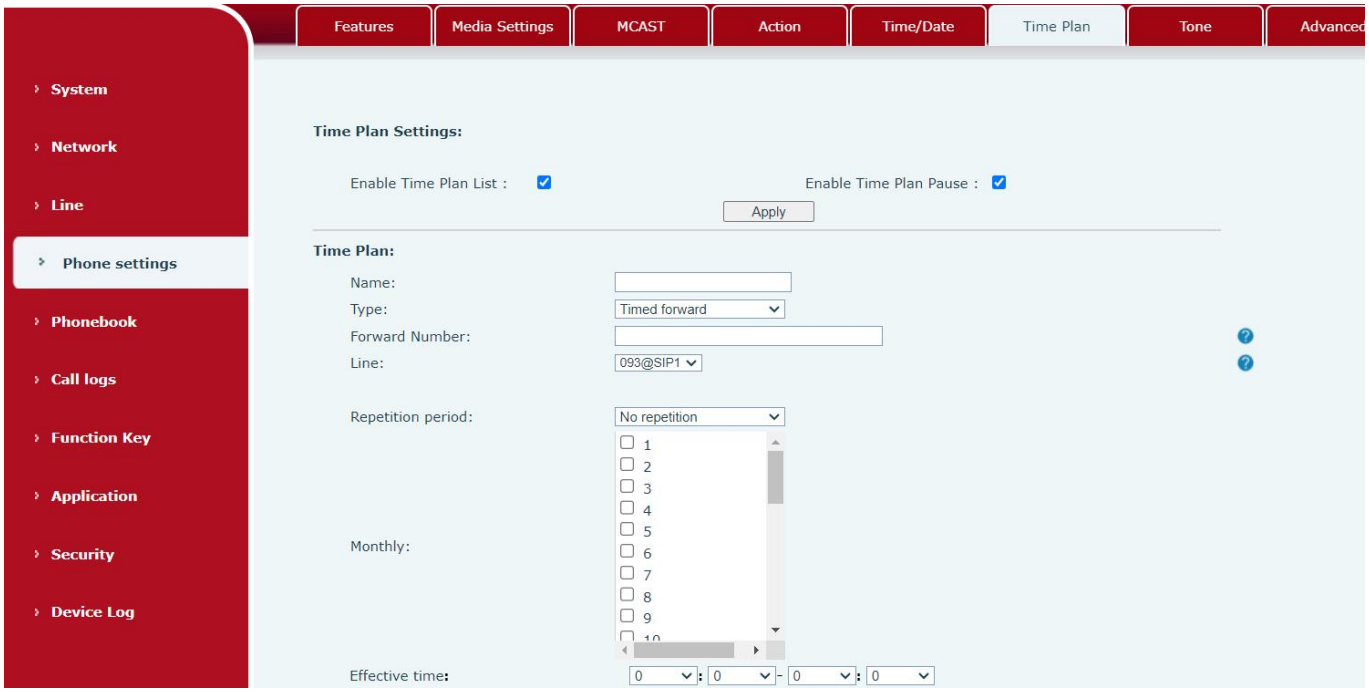
You can fill in the configuration items that need to be modified and their corresponding configuration values at the “config” location, and set the repetition period and effective time. Within the set time period, the phone will automatically update the corresponding configuration.

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 select box.

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

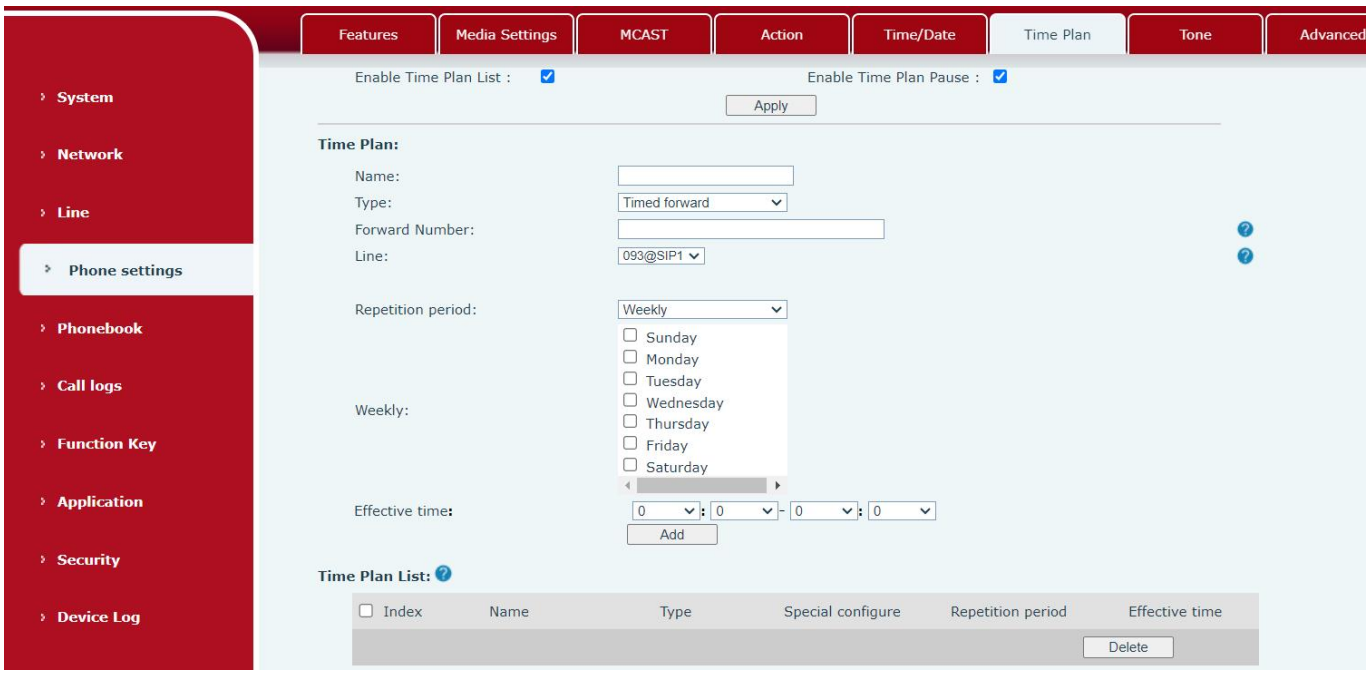


Picture 138 - Time Plan (3)

12.16.2 Repeat Period Select Weekly

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

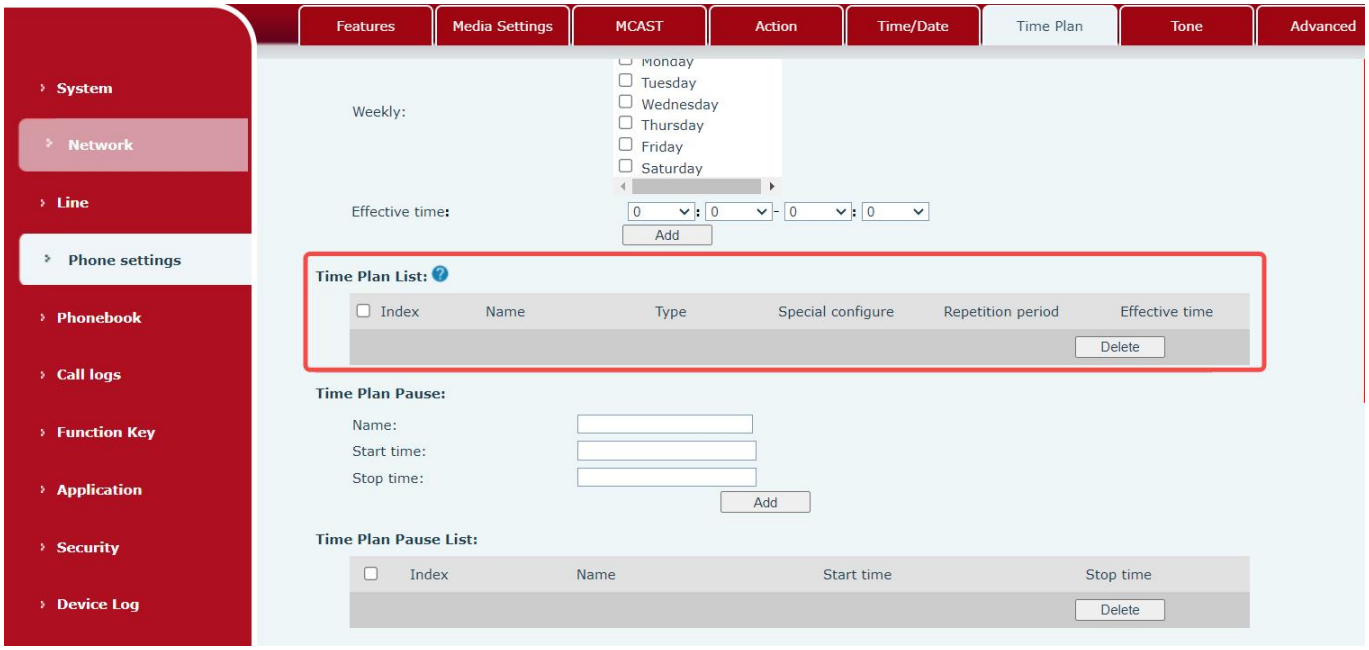
The final effective time is the combination of the day of the week and the set time.



Picture 139 - Time Plan (4)

12.16.3 Time Plan List

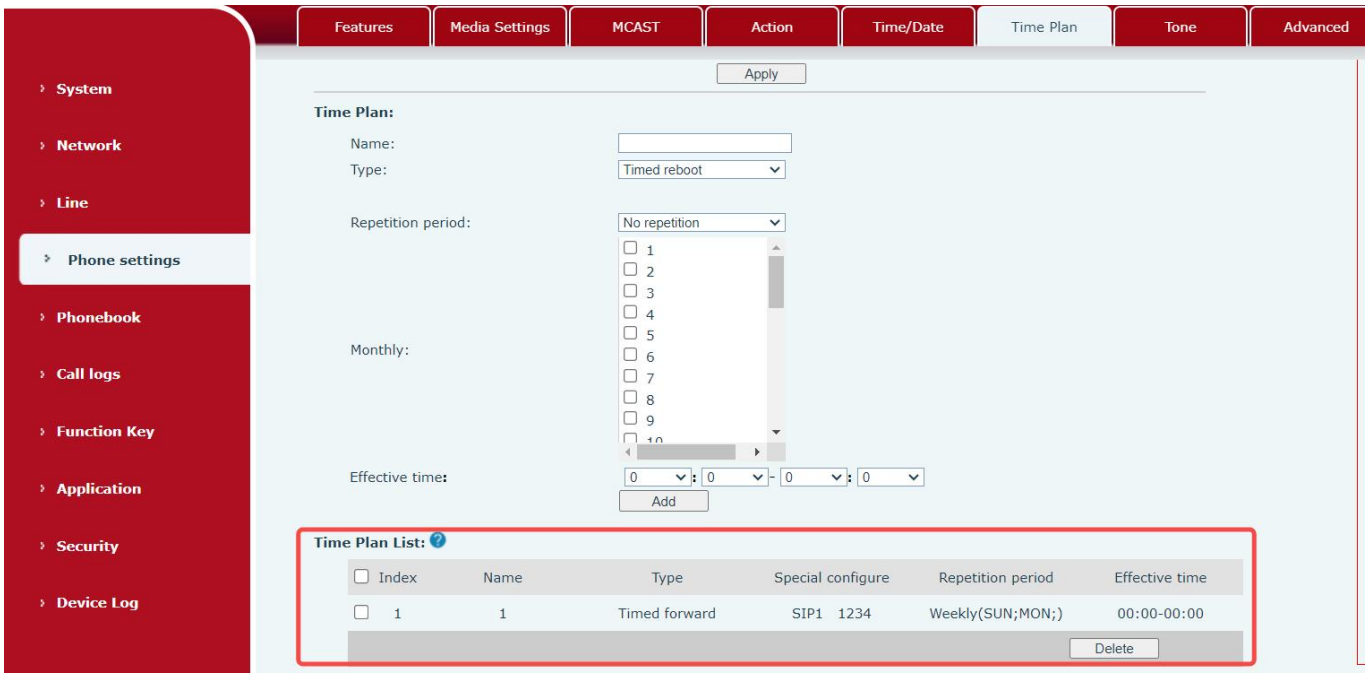
All configurations submitted after the configuration is submitted are displayed in a list, and the order is sorted by week (day, Monday, Tuesday...), and if the week is the same, it is sorted by time (time from small to large). The function sequence is restarted first and then upgraded.



12.16.4 Delete

Check the box before the serial number, click to select all configuration items in the list.

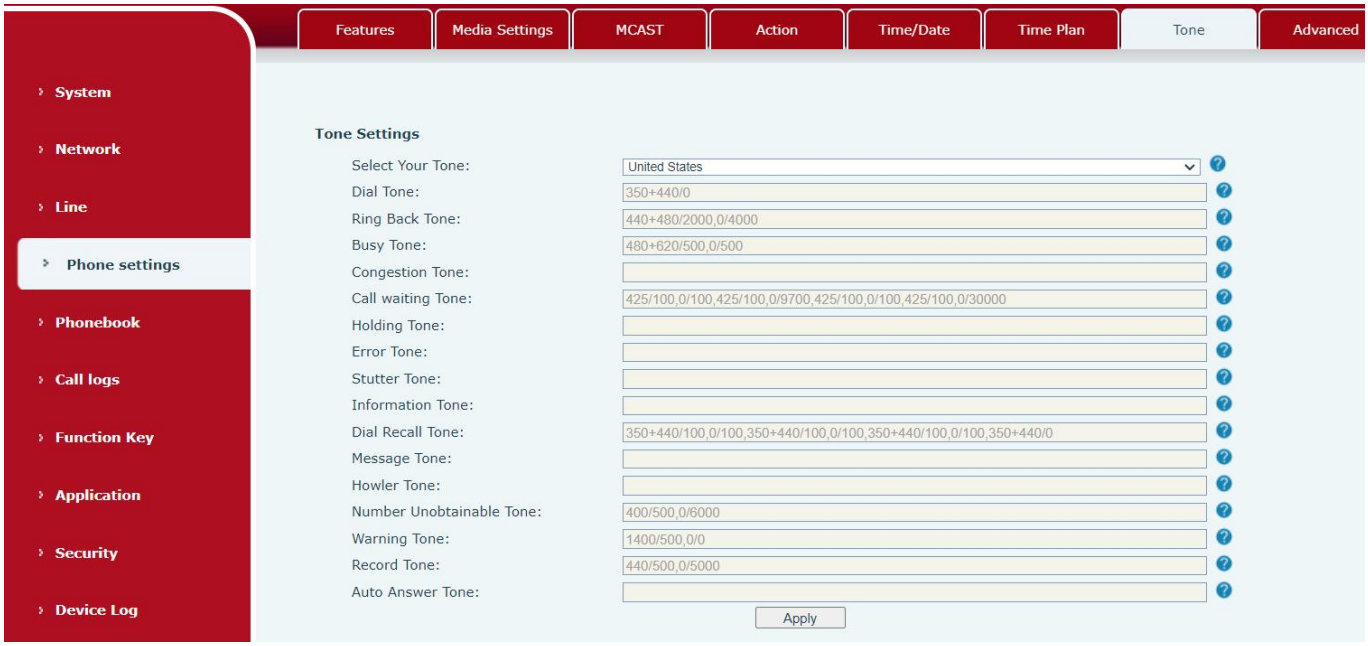
Click Delete to delete the checked configuration in the configuration list, and it will become invalid after deletion.



12.17 Phone settings >> Tone

This page allows users to configure a phone prompt.

You can either select the country area or customize the area. If the area is selected, it will bring out the following information directly. If you choose to customize the area, you can modify the button tone, call back tone and other information.



Picture 140 - Tone settings on the web

12.18 Phone settings >> Advanced

User can configure the advanced configuration settings in this page.

- Screen Configuration.
  - Backlight Active Level
  - Backlight Inactive Level
  - Backlight Time
  - Customer Backlight Time
  - Screensaver
  - Timeout to Screensaver
  - Customer Time Value
- Power Saving
  - Power Saving
  - Timeout to Power Saving
- UI Preference
  - Idle Time Font
  - Common Title Font
  - Softkey Font
  - Menu List Font
  - Scroll Bar
  - Warn Theme
  - Inform Theme
  - Funkey List Font
  - Talking Font
  - Desktop Time Display
  - Display Miss Call Icon
  - Display SMS Icon
  - Display Voice Mail Icon
  - Display DND Icon
  - Display Logo on Screensaver
  - Display Time on Screensaver
  - Display Date on Screensaver
  - Display SIP on Screensaver
- LCD Menu Password Settings.

The password is 123 by default.

- Keyboard Lock Settings.
  - Keyboard Password

- Keyboard Time
- Keyboard Lock Type

- 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 12 characters. The default chars are 'VoIP Phone'.

Note: Only when the default line function is disabled can the Greeting Words be displayed in the upper left corner of the standby screen. (You can disable the default line in the [Menu] >> [Features] >> [General] interface.)

12.19 Phonebook >> Contacts

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 New contact" 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 "Delete ALL" button with selecting any contacts to clear the phonebook.

User can also add multiple contacts into a group by selecting the group in the dropdown options in front of "Add to Group" button at the bottom of the contact list, selecting contacts with checkbox and click "Add to Group" to add selected contacts into the group.

Similarly, user can select multiple users and add them into blacklist by click "Add Blocked list " button.

12.20 Phonebook >> Cloud phonebook

Cloud Phonebook

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

To configure a cloud phonebook, the following information should be entered,

- Phonebook name (optional)
- 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 (optional)
- LDAP Server Address (must)
- LDAP Server Port (must)
- Search Base (must)
- Access username (optional)
- Access password (optional)

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

Broadsoft Call logs Settings

The Broadsoft server itself can store call records and contact information. Users can configure the Broadsoft server address, username, and password to view relevant information on the LCD screen.

- Display Title (optional)
- Server Address (must)
- Username (optional)
- Password (optional)
- SIP Line (optional)

Broadsoft Directory Settings

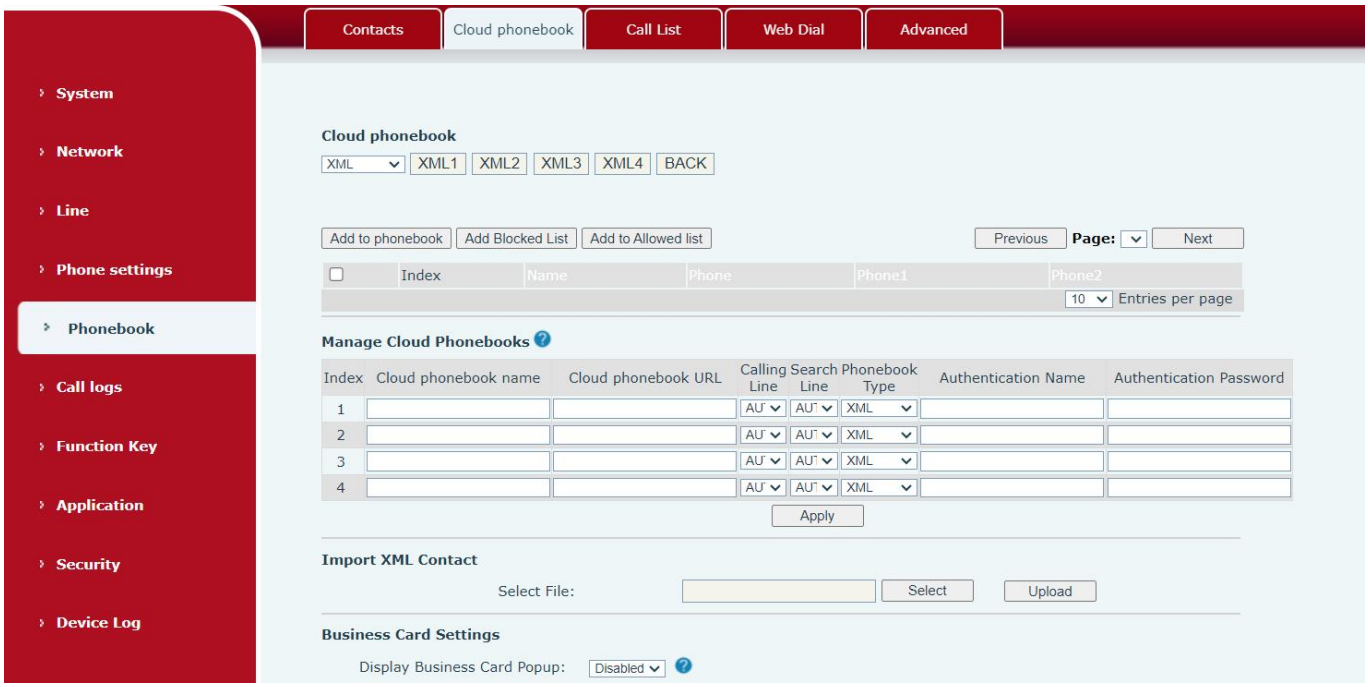
To configure a Broadsoft directory, the following information should be entered,

- Display Title (optional)
- Server Address (must)
- Username (optional)
- Password (optional)
- SIP Line (optional)

Web page preview

Phone page supports preview of Internet phone directory and contacts

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



Picture 141 - Web cloud phone book Settings

12.21 Phonebook >> Call List

- Restricted Incoming Calls:

It is similar like a blacklist. Add the number to the blacklist, and the user will no longer receive calls from the stored number until the user removes it from the list.

Users can add specific Numbers to the restricted incoming calls list or add specific prefixes to the blacklist to block calls with all Numbers with this prefix.

- Allowed Incoming Calls:

Allowed list type includes ALL, DND, FWD. When DND is enabled, the incoming call number can still be called.

- Restricted Outgoing Calls:

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

12.22 Phonebook >> Web Dial

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

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 blacklist/whitelist.

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

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

12.25 Function Key >> Side Key

Side key is the side button located on the left side of the screen, which functions as a function key. It is initially configured as the line key and can be customized on the web page.

Dsskey Transfer Mode: Establish a new call, blind transfer, attended transfer, one-touch three-way calling, Play DTMF.

Dsskey Home Page: None, Page 1.

Dsskey Long Press: Disable editing, allow long press and short press editing, only allow long press editing, only allow short press editing.

Sidekey Label Length: Default, medium, long.

Table 31 - Sidekey Configuration

Parameters	Description
Memory key	**BLF**: You can view the status of the subscribed extension number and answer the call when the subscribed extension number rings. The status of a subscription number can be idle, Ringing, or talking Note: If the user needs to scramble the subscribed extension number, the scramble code must be configured **Presence**: Compared to BLF, Presence can also see if the user is online **Voice Mail**：Click to make an immediate call to the corresponding voice mailbox code **Speed dial**:Users can dial the specified number directly. This feature makes it easy for customers to dial frequent numbers **walkie-talkie**: This feature allows the operator or secretary to quickly connect to the phone and is widely used in office environments **Call resident**：Click to park the call in the server

	Call forwarding：When the phone receives an incoming call, tap to forward the call to the subscriber number
line	It can be configured as a line key. Users can make and receive calls by pressing the line button
Function key	The user can select a function key as a shortcut to trigger the event For example, Voice Mail/Do not disturb/release/headset/Hold/etc.
DTMF	Configuring numbers You can perform operations such as making calls on the dial
URL	Open the specific path URL directly
BLF List key	Configure the BLF List key. Users can dial subscription numbers after pressing the BLF list key
MCAST Paging	Configure the multicast address and voice coding. A user can press this key to initiate a multicast
Action URL	Users can perform basic call operations on the IP phone using a specific URL
XML Browser	You can set the DSSkey to download specific URL
MCAST Listening	Configure the group listening address. The user presses this key to perform multicast listening
PTT	Configure the PTT button and number. Hold down the PTT button to set up a call, and then start and end a call

12.26 Function Key >> Softkey

The user can set the mode, display style and display page.

Users can also customize the DSSkey and use it on an appropriate page based on the actual application scenario.

Note: The function options of the DSSkey are included on all pages. Therefore, some function options may not be available on some pages

Table 32 - Softkey configuration

Parameter	Description
Softkey mode	
Softkey mode	Disabled and more, the default is more
Exit Display Style	
Exit Display Style	Exit on the Left and Exit on the Right
Display page	
Call Dialer	Redial/2aB/Delete/Exit/callback/Dial/Join /MWI /local contacts/Pickup/CallLog/Missed/Clear/In/Out/ Pause/Next line

	/Prev line/Headset/Cloud Phonebook/and DSSkey
Conference(Conf)	Hold/split/End/Release/ mute /DSSkey/ Headset
Desktop	CallLog/Menu/Local contacts/Manage/Conference(conf)/None/Previous Account /Next Account/Blocked Call List/Callback/Call Transfer/Lock/Memo/Missed /Voice mail/ out/Redial/Cloud Phonebook/ SMS/Headset/Network /DSSkey/In
Divert Dialer	Redial /2aB/ Delete/Exit /Forward/ Local contacts /CallLog/Clear/Missed/Out/Headset/Remote XML/DSSkey
Ending	Redial/End/Headset/Release /DSSkey
Predictive Dialer	Dial /2aB/ Delete/Exit/Callback/Local contacts/Redial/Pickup /MWI/ Join /CallLog/Clear/Missed/Pause/Dial/Headset/Remote XML /DSSkey/In/Next line/Prev line
Ringing	Answer /Forward/ Reject/MIC mute/Release/Headset/DSSkey
Talking	Hold/Transfer/Meeting/End/Microphone mute/Release/NewCall/Local contacts /Listen/ CallLog/Next call/Prev call/ Private/Headset/DSSkey
Transfer Alerting	End/Transfer/Headset/Release /DSSkey
Transfer Dialer	Redial/Delete/Exit/2aB/Dial/Local Contacts/Transfer/CallLog/Clear/ Missed/Out/ Pause/Headset/Cloud phonebook/DSSkey
Trying	End/Release/Headset /Transfer/DSSkey
Waiting	Hold/Transfer/End/Answer /Forward/mute /Next call/New call/Prev call/ Reject/Release/Headset /Listen/ DSSkey

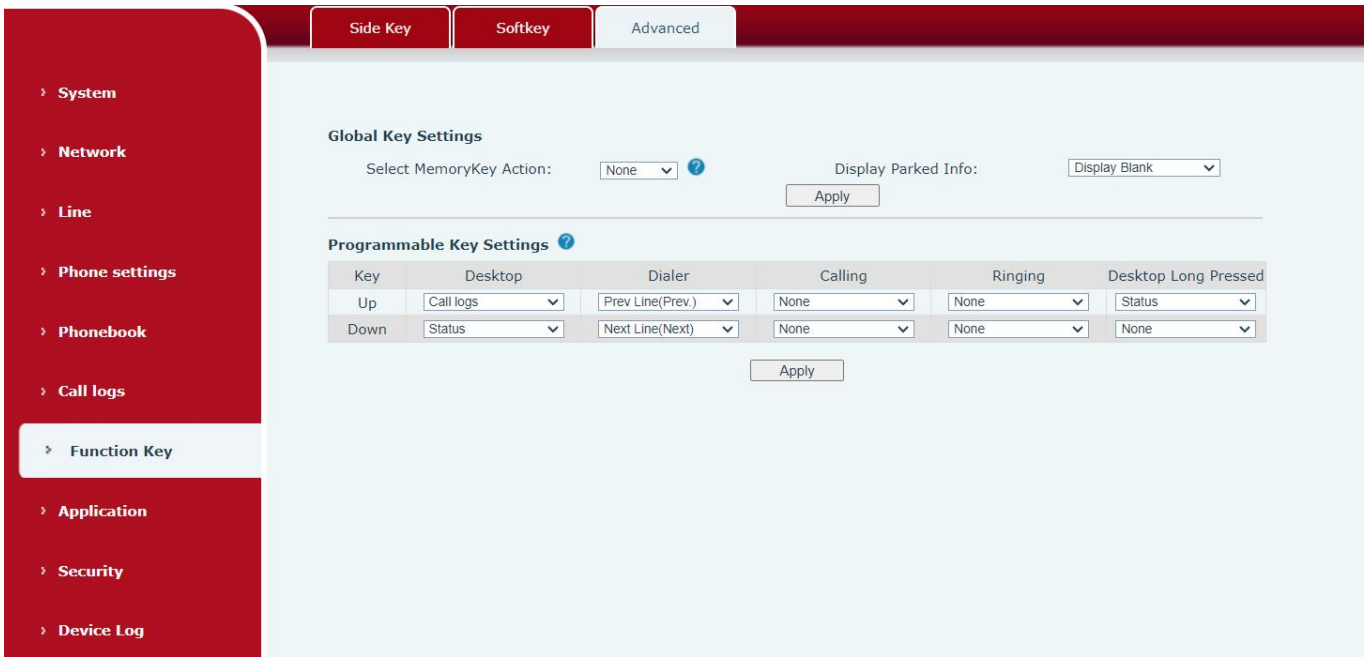
12.27 Function Key >> Advanced

■ **Global Key Settings**

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.

Display resident information: Select the resident information to be displayed, including blank display, first name display, and only number and standard display.

Hide the Dsskey icon: Select whether to hide the shortcut key icon.



Picture 142 - Global Key Settings

- **Programmable key Settings**

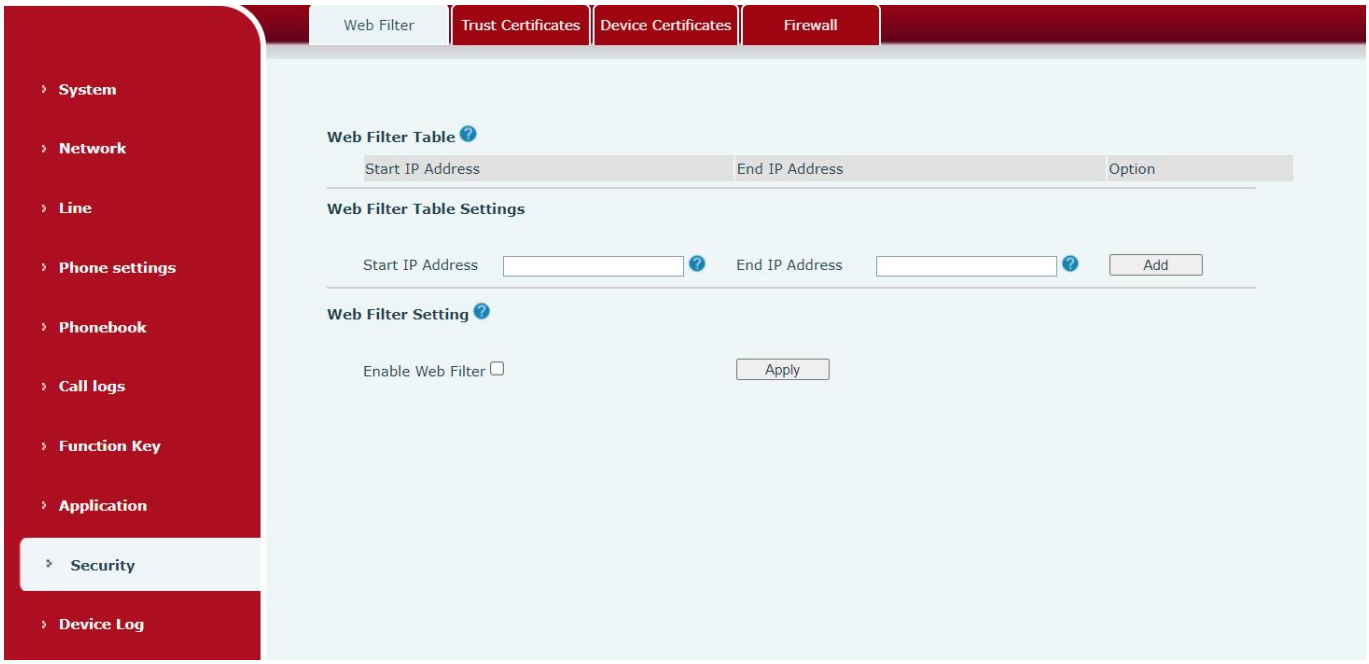
Please refer to the Table 25 Softkey configuration

12.28 Application >> Manage Recording

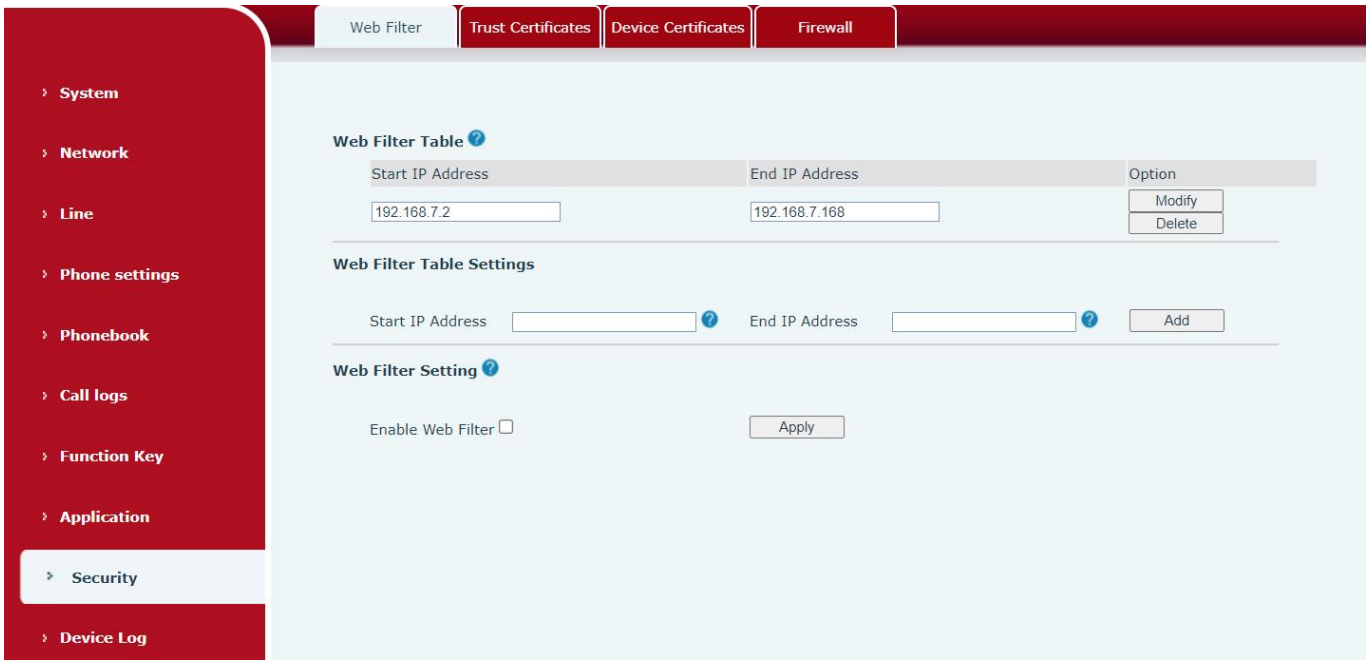
See 9.3 Record for details of recording.

12.29 Security >> Web Filter

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



Picture 143 - Web Filter settings



Picture 144 - Web Filter Table

Adding and removing IP segments are accessible. Configure the starting IP address within the start IP, end the IP address within the end IP, and click [**Add**] to submit to take effect. A large network segment can be set, or it can be divided into several network segments to add. If the user wants to delete, select the initial IP of the network segment to be deleted from the drop-down menu, and then click [**Delete**] to take effect.

Enable web page filtering: configure enable/disable web page access filtering; Click the "apply" button to take effect.

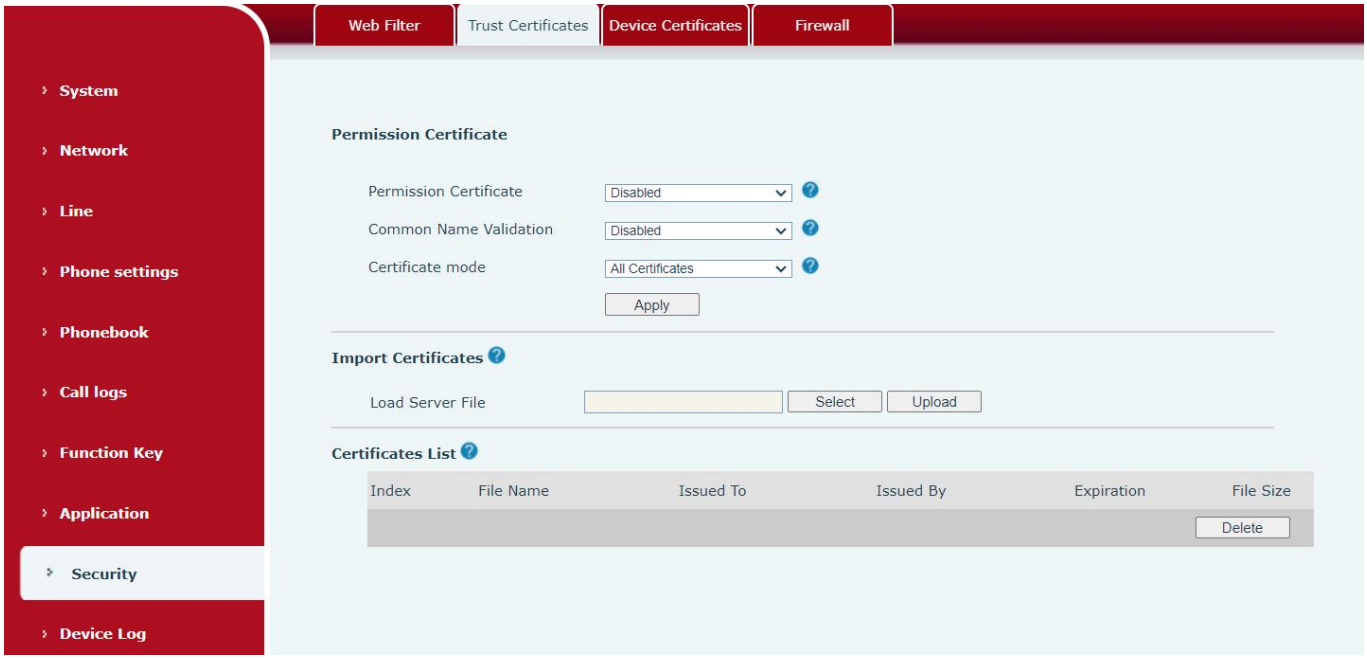
Note: if the device you are accessing is in the same network segment as the phone, please do not configure

the filter segment of the web page to be outside your own network segment, otherwise you will not be able to log in the web page.

12.30 Security >> Trust Certificates

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

You can upload and delete uploaded certificates.

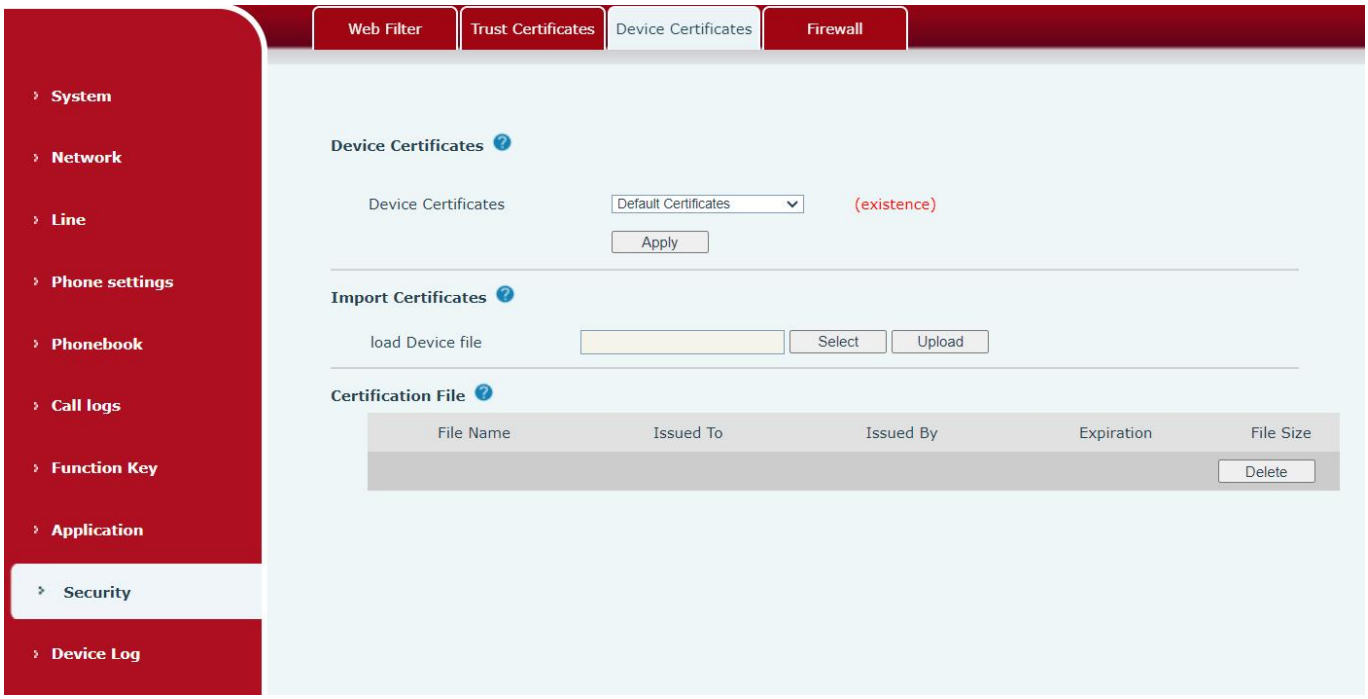


Picture 145 - Certificate of settings

12.31 Security >> Device Certificates

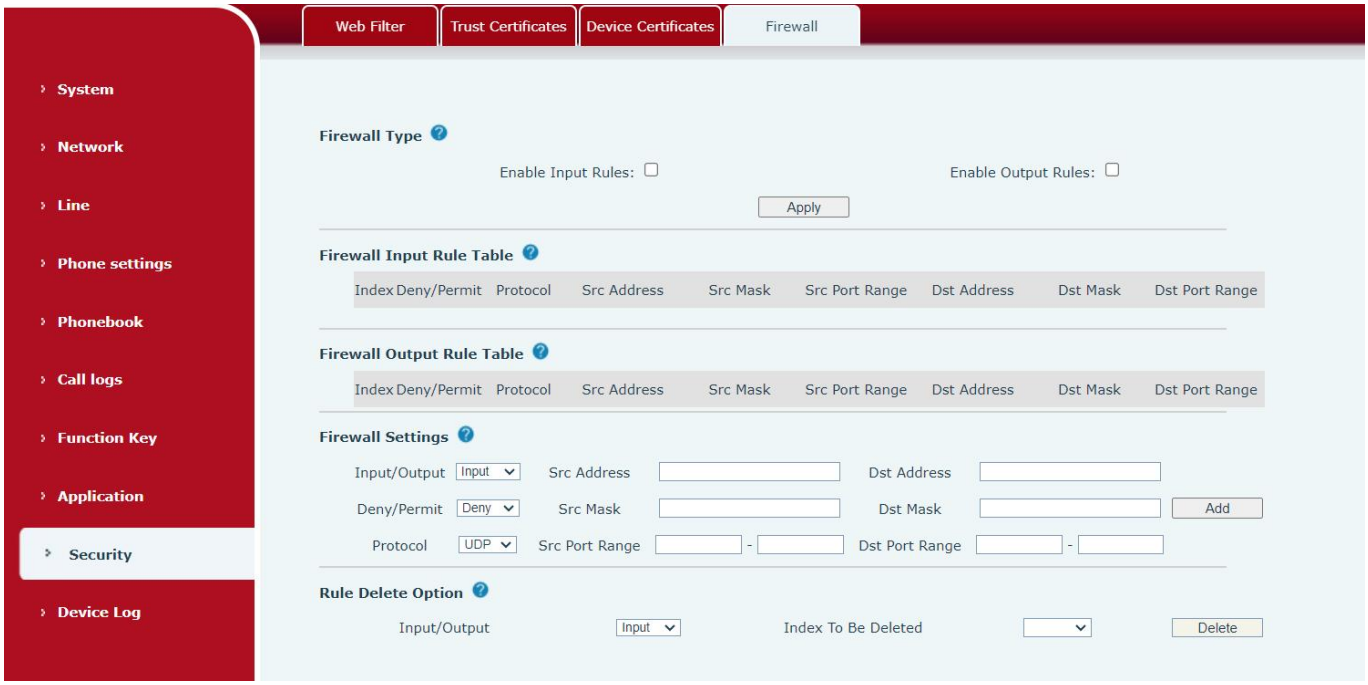
Select the device certificate as the default and custom certificate.

You can upload and delete uploaded certificates.



Picture 146 - Device certificate setting

12.32 Security >> Firewall



Picture 147 - Network firewall Settings

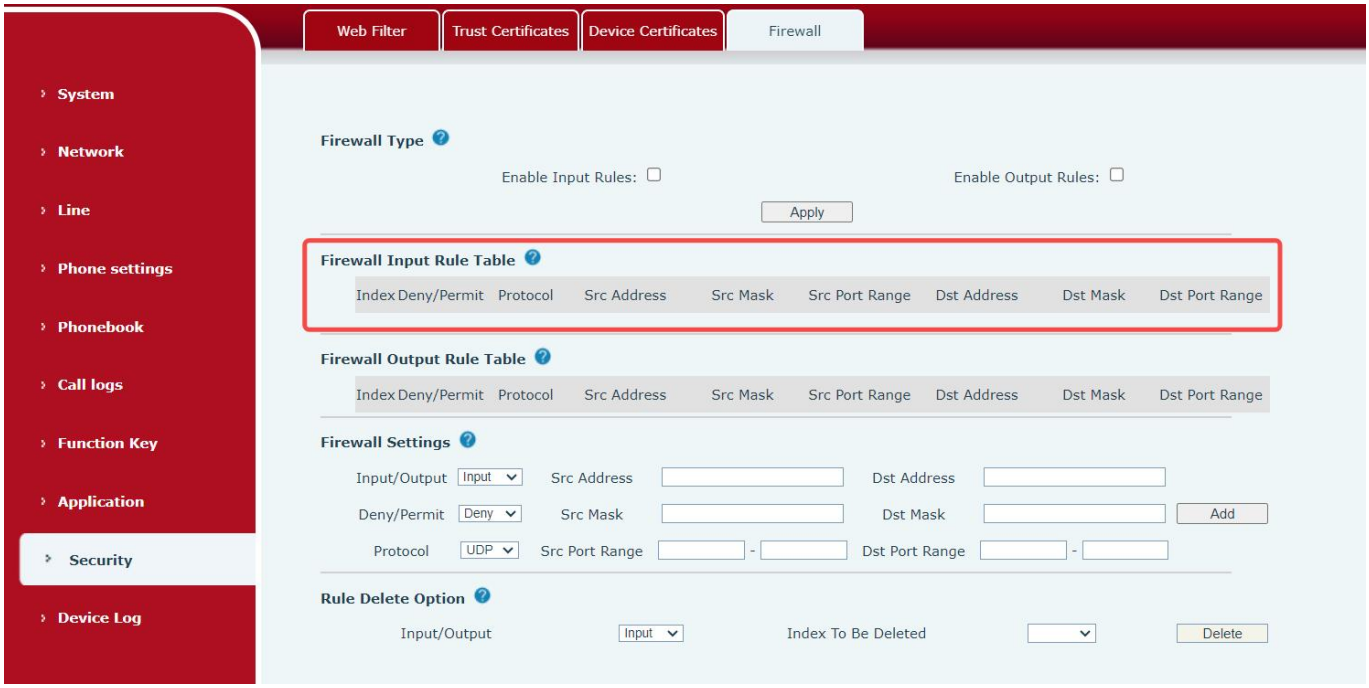
The user can set whether to enable the input through this page, output firewall and set the firewall input and output rules. Using these Settings can prevent some malicious network access, or restrict internal users access to some resources of the external network, which can improve security.

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 32 - 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.

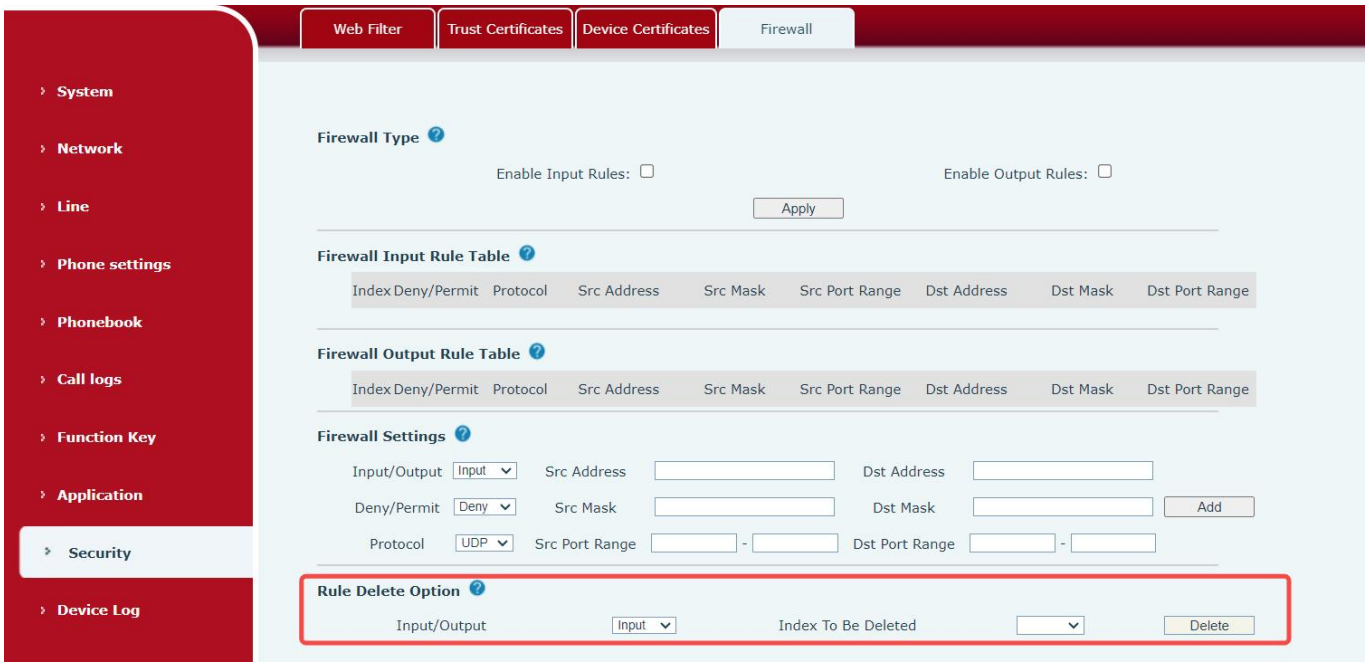
After setting, click [**Add**] and a new item will be added in the firewall input rule, as shown in the figure below:



Picture 148- 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.



Picture 149- Delete firewall rules

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

12.33 Device Log >> Device Log

You can grab the device log, and when you encounter an abnormal problem, you can send the log to the technician to locate the problem. See 13.6 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 Fanvil technical support mailbox.

13.1 Get Device System Information

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

The network information

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

13.2 Reboot Device

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

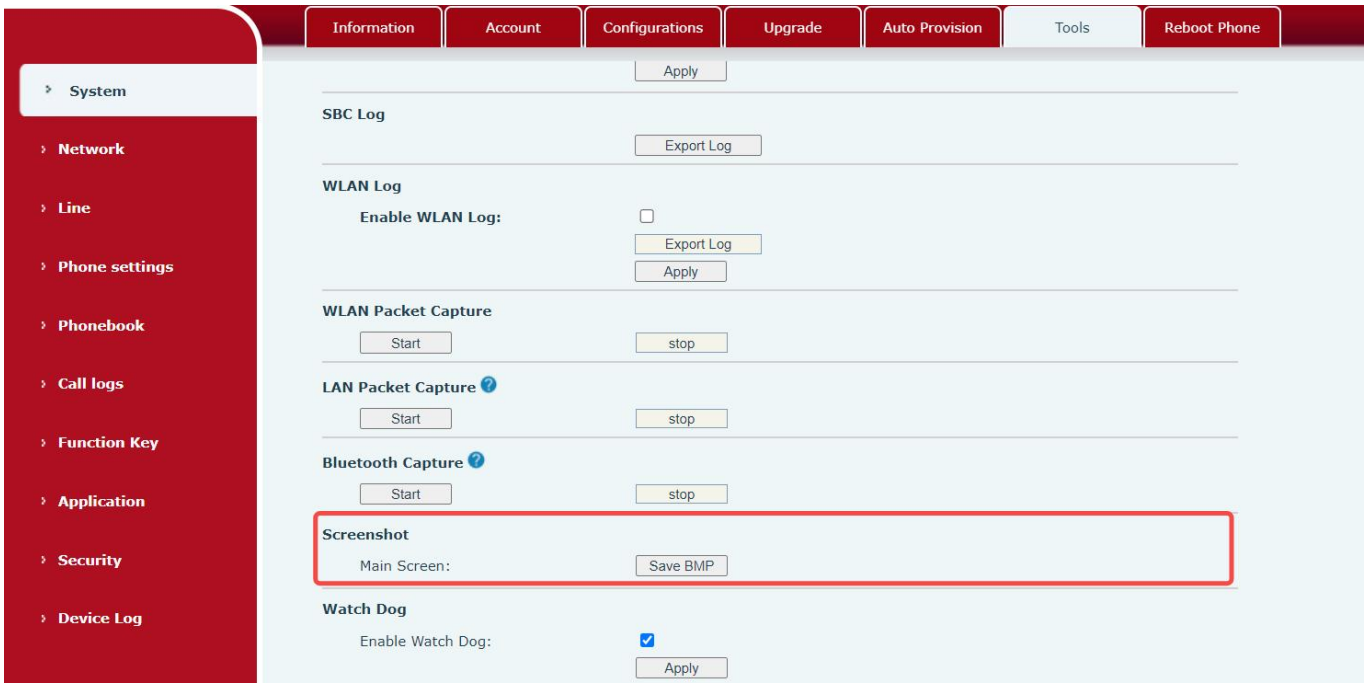
13.3 Reset Device to Factory Default

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

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

13.4 Screenshot

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



Picture 150 - Screenshot

13.5 Watch dog

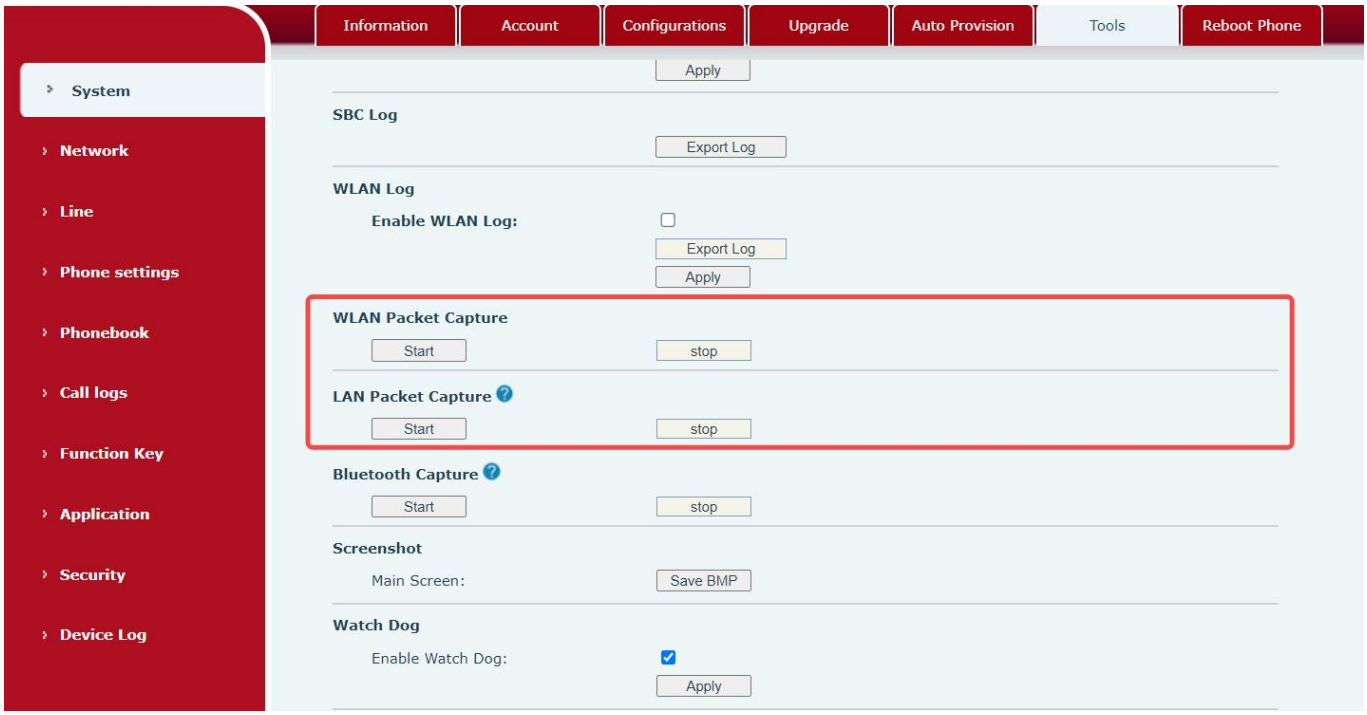
When encountering an exception, the watchdog can detect the exception and restart the phone. You can log in to the web page [**System**] >> [**Tools**] >> [**Watchdog**] to enable or disable the watchdog. The startup script periodically checks whether the watchdog is running. If the watchdog is not detected within a short period of time, it will run again. Will reboot the entire system.

13.6 Diagnosis

The device diagnosis function of the web page [**System**] >> [**Tools**] >> [**Diagnosis**] can be used to diagnose the connection between the phone and the network. You can select PING or Route Tracing. After selecting PING or Route tracing, enter the computer ip address, phone ip address, or public ip address, and click Start. You can check whether the connection is normal.

13.7 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.



Picture 151 - Web capture

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

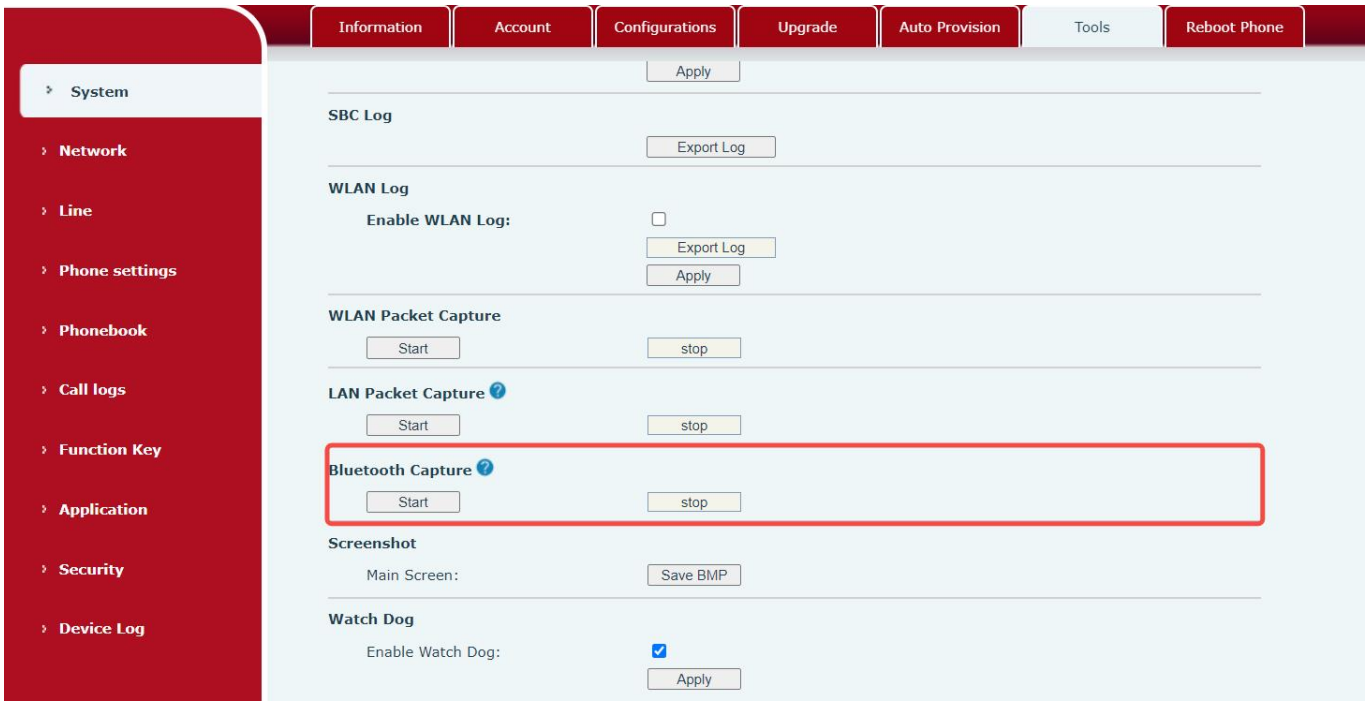
Note: WLAN Packet Capture is only applicable to V60W

13.8 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.

13.9 Bluetooth Capture（Only V60W）

You can start capturing the phone's Bluetooth debugging information through the webpage by navigating to [System] >> [Tools] >> [Bluetooth Capture] and clicking "Start" to capture the Bluetooth debugging information for troubleshooting the phone's Bluetooth functionality; click "Close" to save the debugging packet capture file.



Picture 152 - Bluetooth Packet Capture Tool

The Bluetooth packet capture file can be used to troubleshoot Bluetooth-related issues with the phone, such as Bluetooth external lines, Bluetooth headset compatibility, and more.

13.10 Common Trouble Cases

Table 33 - Trouble Cases

Trouble Case	Solution
Device could not boot up	1. The device is powered by external power supply via power adapter or PoE switch. Please use standard power adapter provided by manufacturer or PoE switch met with the specification requirements and check if device is well connected to power source. 2. If you saw “POST MODE” on the device screen, the device system image has been damaged. Please contact location technical support to help you restore the phone system.
Device could not register to a service provider	1. Please check if device is well connected to the network. The network Ethernet cable should be connected to the [Network] port NOT the [PC] port. If the cable is not well connected to the network icon [WAN disconnected] will be flashing in the middle of the screen. 2. Please check if the device has an IP address. Check the system

	information, if the IP displays “Negotiating…”, the device does not have an IP address. Please check if the network configurations is correct. 3. If network connection is fine, please check again your line configurations. If all configurations are correct, please kindly contact your service provider to get support, or follow the instructions in “13.5 Network Packet Capture” to get the network packet capture of registration process and send it to manufacturer support to analy manufacturer ze the issue.
No Audio or Poor Audio in Handset	1. Please check if Handset is connected to the correct Handset ( ) port NOT Headphone ( ) port. 2. The network bandwidth and delay may be not suitable for audio call at the moment.
Poor Audio or Low Volume in Headphone	1. There are two Headphone wire sequence in the market. Please use the Headphone provided by manufacturer, or consult manufacturer the wire sequence if you wish to use a third-party headphone. 2. The network bandwidth and delay may be not suitable for audio call at the moment.
Audio is chopping at far-end in Hands-free speaker mode	This is usually due to loud volume feedback from speaker to microphone. Please lower down the speaker volume a little bit, the chopping will be gone.