



# X305

## User Manual

Software Version: 2.12.2.15

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### 3 Safety Instruction

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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 design for indoor use. Do not install the device in places where there is direct sunlight. Also do not put the device on carpets or cushions. It may cause fire or breakdown.
- Avoid exposure the phone to high temperature or below 0°C or high humidity.
- Avoid wetting the unit with any liquid.
- Do not attempt to open it. Non-expert handling of the device could damage it. Consult your authorized dealer for help, or else it may cause fire, electric shock and breakdown.
- Do not use harsh chemicals, cleaning solvents, or strong detergents to clean it. Wipe it with a soft cloth that has been slightly dampened in a mild soap and water solution.
- When lightning, do not touch power plug, it may cause an electric shock.
- Do not install this phone in an ill-ventilated place. You are in a situation that could cause bodily injury. Before you work on any equipment, be aware of the hazards involved with electrical circuitry and be familiar with standard practices for preventing accidents.

## 4 Overview

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### 4.1 Overview

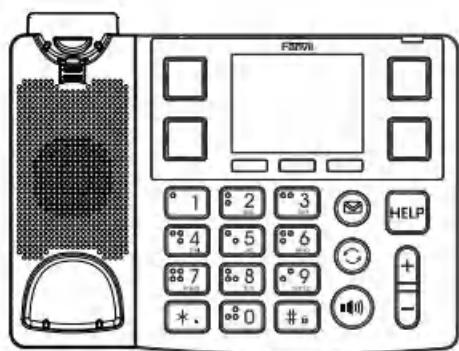
X305 is a network phone designed specifically for the internet age, suitable for small and medium-sized enterprises and households. The device provides excellent user experience for home and office users with its simple design. The device is not just a desktop phone, but also a masterpiece placed in the living room or office.

X305 is the latest generation of enterprise level network telephones developed on the basis of the X series research and development, inheriting many excellent features of the previous X series telephones, such as high-definition voice, headphones, high-performance echo cancellation full duplex speakers, 100 Gigabit Ethernet, QoS, encrypted transmission, automatic configuration, etc; A brand new system, smooth operation, flat interface settings, and many other advantages; In addition, the X305 is also equipped with a wireless transmission function based on the 433MHz frequency band, which can be used to seek help in emergency situations with the HELP button. Its buttons break the size design of conventional phones and add Braille to each number button, making it a versatile phone that can serve special groups.

For enterprise users, the device is a cost-effective office device that provides convenient operation while achieving environmental protection; For home users, the device is a highly efficient communication device, allowing users to flexibly configure and customize the functions of the DSS key, saving space and costs. For enterprise and home users who pursue high quality and efficiency, it will be a very ideal choice.

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

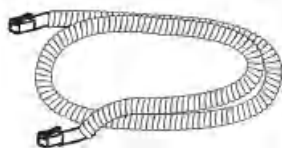
## 4.2 Packing Contents



Phone



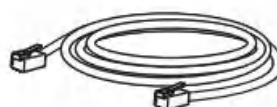
Handset



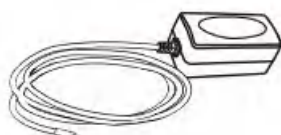
Handset cable



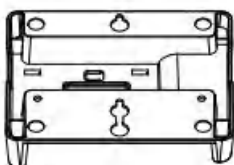
Stand



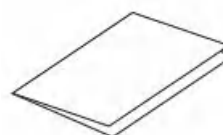
Network cable



Power adapter (Optional)



Wall Stand(Buy separately)



Quick Installation Guide

## 5 Desktop Installation

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### 5.1 PoE And the use of external power adapters

X305, called as 'the device' hereafter, supports two power supply modes, power supply 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.

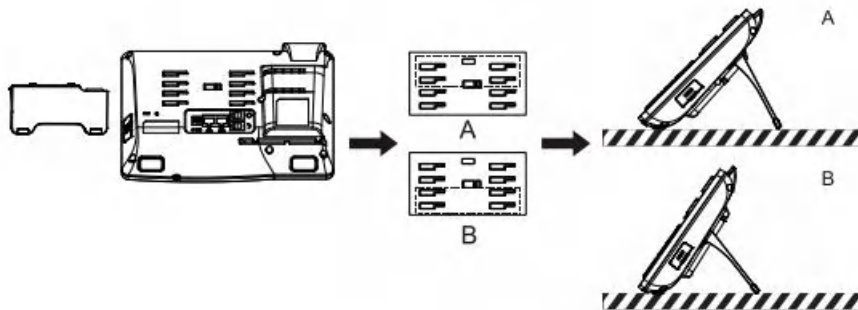
For users who do not have PoE equipment, the traditional power adaptor should be used. If the device is connected to a PoE switch and power adapter at the same time, the power adapter will be used in priority and will switch to PoE power supply once it fails.

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

## 5.2 Desktop and wall mounted method

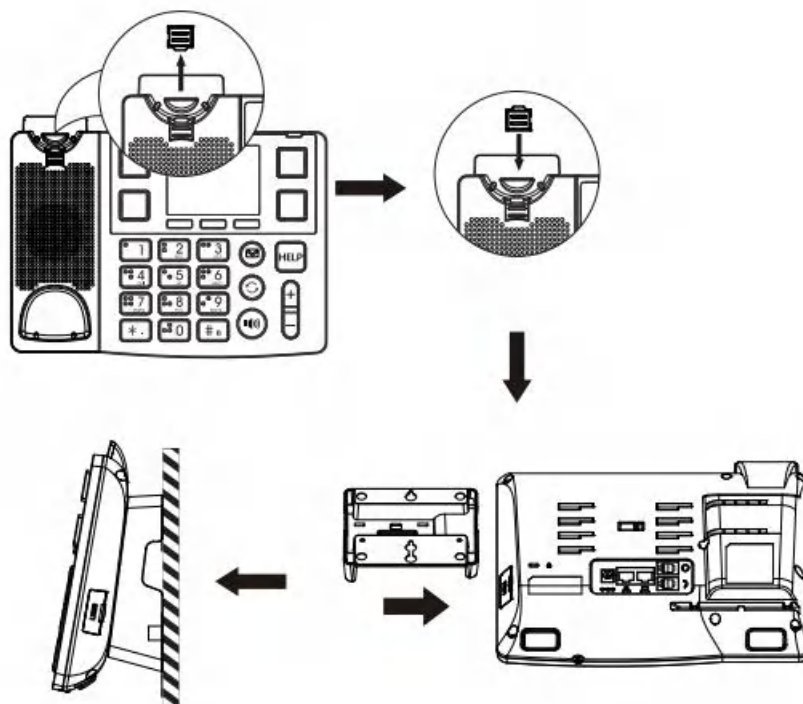
The device supports two installation modes, desktop and wall mounted.

### 1) Bracket desktop installation



**Picture 1 - Desktop installation**

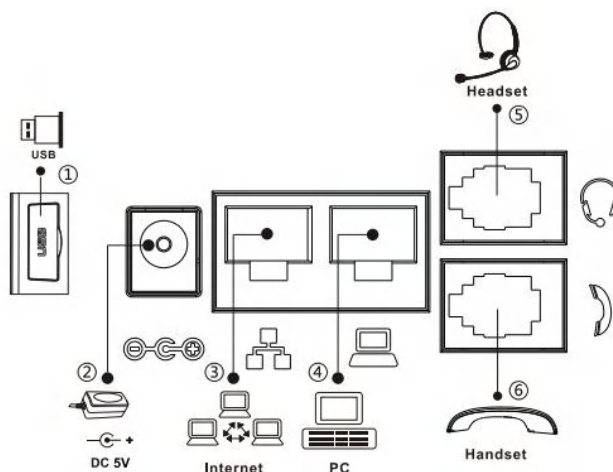
### 2) Wall mounting (wall stand need buy separately)



**Picture 2 - Wall-mounted installation**

Connect the power adapter, network, PC, phone and Headset 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	USB port	connect USB device (USB flash drive )
②	Power port	connect the power adapter.
③	Network port	connecting local area network or internet.
④	PC port	the network port connect to the computer.
⑤	Headset port	connect headset.
⑥	Handset port	connect IP Phone handset



## 5.3 Network Configuration Steps For X305

### Method 1:

1. Enter **[Advanced Settings]** on the W611W, then go to **[Share Wi-Fi]** to enable the Wi-Fi sharing function and set the office network SSID and password. At this point, the W611W functions as an AP.
2. Power on the X305 devices.
3. After powering up, the W611W will push the office network SSID and password to the X305, enabling them to connect to the office network. Once the Wi-Fi connection is successful, the power indicator will flash quickly 5 times.

### Method 2:

1. The user creates a Wi-Fi network with the SSID "**WiFi-device-ssid**" and the password "**i<0%aY8+**".
2. After powering on, the X305 devices will automatically connect to this Wi-Fi.
3. Once the connection is successful, the power indicator will flash quickly 5 times. The Wi-Fi information of the X305 can be modified through automatic deployment to connect to the office network.
4. Wi-Fi module configuration file as shown:

```
<<VOIP CONFIG FILE>>Version:2.0000000000
```

```
<NET CONFIG MODULE>
```

```
--WIFI List-- :
Item1 WIFI Name      :Redmi K60
Item1 WIFI SSID      :Redmi K60
Item1 Secure Mode    :1
Item1 WIFI Encryption :1
Item1 WIFI User Name  :
Item1 WIFI Password  :12345678
```

```
<<END OF FILE>>
```

## 6 Appendix Table

### 6.1 Appendix I - Icon

**Table 2 - Keypad Icons**

	Voice message key
	increase or decrease ringer volume Left (-) or Right (+) navigation keys
	Redial key
	Hand-free key
	HELP KEY

**Table 3 - Screen status icon display**

	In hands-free mode
	In headset mode
	In 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
	Bluetooth device paired connection
	New SMS

	New VM messages
	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
	Numeric	1	1
		2	2
		3	3
		4	4
		5	5
		6	6
		7	7
		8	8
		9	9
		0	0
		*	*.:/@[],-_='?\"
		#	#
	Lower Case Alphabets	1	@:;()<>[]{}
		2	a b c
		3	d e f
		4	g h i
		5	j k l

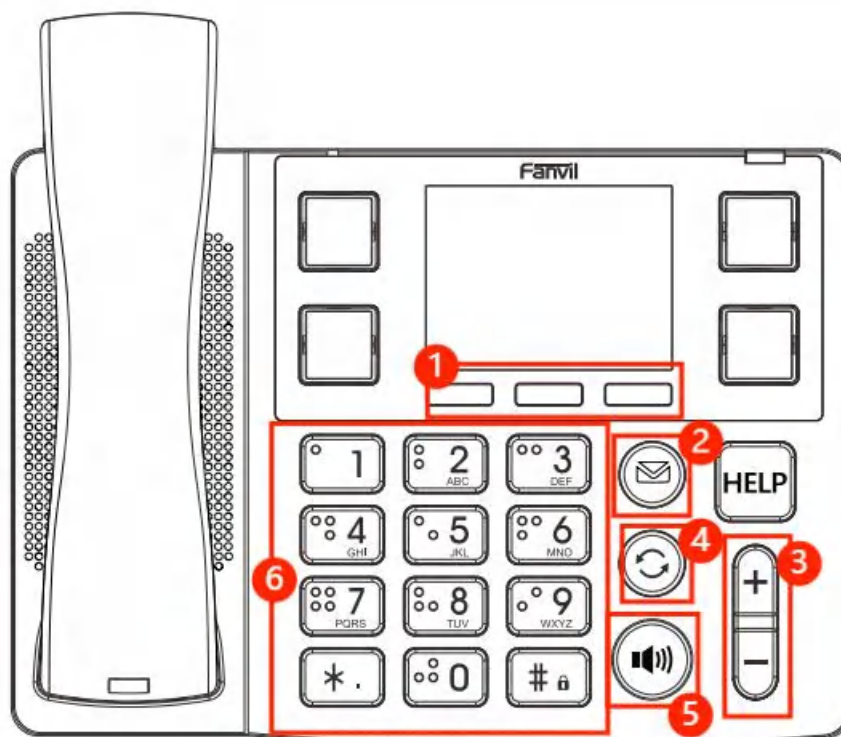
		6	m n o
		7	p q r s
		8	t u v
		9	w x y z
		0	(space)
		*	.,*/+:-_' ?\ "
		#	# ^!&\$%£¥☉~¡¿§

	Upper Case Alphabets	1	@:;()<>
		2	A B C
		3	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 Z Y X
		0	(space)
		*	.,*/+:-:_ =
		#	# ^!&\$%
	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 I J K L
		6	6 m n o M N O
		7	7 p q r s P Q R S
		8	8 t u v T U V
		9	9 w z y x W Z Y X
		0	0
		*	.,*/+:-:_ =
		#	# ^!&\$%
	Alphabets	1	@:;()<>[]{}
		2	a b c
		3	d e f
		4	g h i
		5	j k l

		6	m n o
		7	p q r s
		8	t u v
		9	w x y z
		0	(space)
		*	.,*/+:-_=' ?\"
		#	# ^!&\$% £ ¥ ☉ ~ ¡ ¨ §

## Introduction to the User

### 6.3 Instruction of Keypad



**Picture 4 - Instruction of Keypad**

The picture above shows the keypad layout of the phone. Each button provides its own specific function. Users can refer to the instructions for the keys in the illustration in this section to operate the phone.

**Table 5 - Instruction of Keypad**

Number	The keypad names	Instruction
①	Soft-menu Buttons	These three buttons provide different functions corresponding to the soft-menu displayed on the screen.
②	Voice message key	the user enters the interface of SMS and voice mail list.
③	Volume Up/DownKey	In the standby state, ring and ring configuration interface, press this button to increase/reduce the ring volume; Press this button to increase/lower the

		<p>volume on the call or volume adjustment screen.</p> <p>Left (-) or Right (+) navigation keys: Users can move the cursor in the screen list to the left/right by pressing the volume.</p> <p>On some settings and text editing pages, users can press the left/right navigation keys to change options or move the cursor left/right in the screen list.</p>
④	Redial	Press the Redial key to redial the last number dialed
⑤	Hands-free Key	The user can press this key to open the audio channel of the speakerphone.
⑥	Standard Telephone Keys	The 12 standard telephone keys provide the same function as standard telephones, but further to the standard function, some keys also provide special function by long-pressing the key,
⑦	HELP	Speed dial button, configured with a number, can be used to call out for help in an emergency with the HELP button

## 6.4 Using Handset / Hands-free Speaker / headset

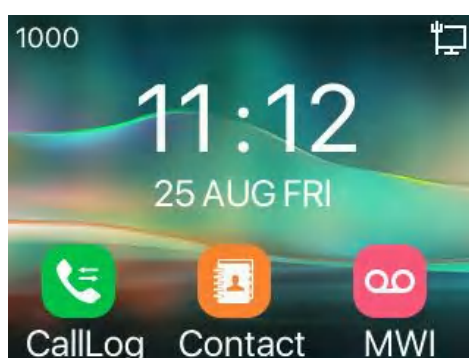
### ■ Using Handset

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 opened in speaker or headset.

### ■ 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.

## 6.5 Idle Screen



**Picture 5 - Screen layout/default home screen**

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

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

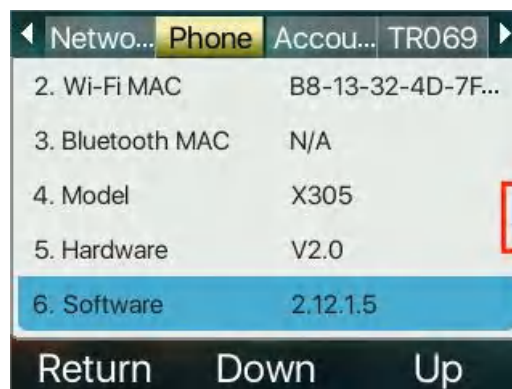
The lower half of the area is the function menu key, which is also the first layer of function menu keys, through which users can operate the phone.

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 key, which dynamically displays 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 user sees a scroll bar, user 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**

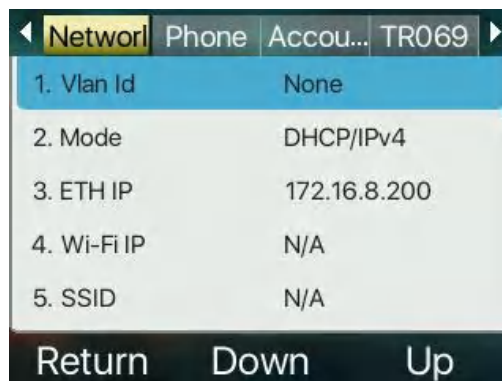
## 6.6 Phone Status

The phone status includes the following information about the phone:

- Network Status:
  - VLAN ID
  - IPv4 or IPv6 status
  - IP Address
  - Network Mode
- The Phone Device Information:
  - Mac Address
  - Phone Mode
  - Hardware Version number
  - Software Version number
  - Phone Storage (RAM and ROM)
  - System Running Time

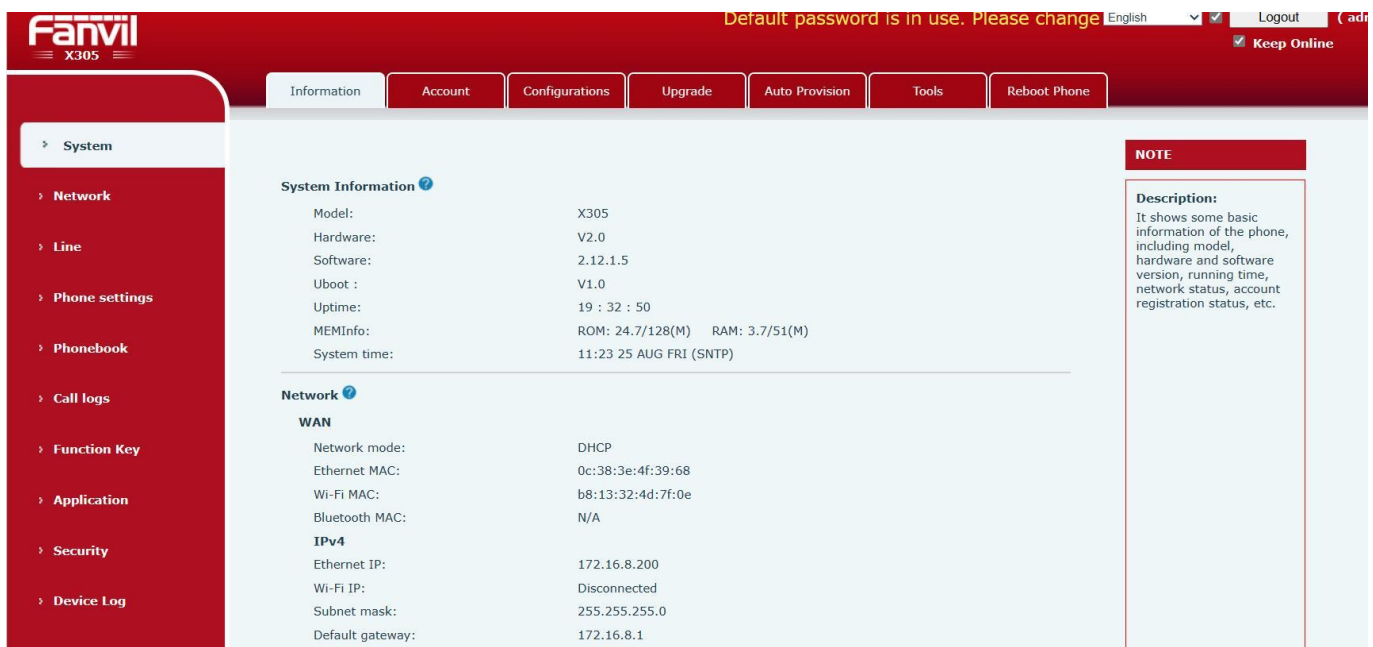


- SIP Account Information:  
SIP Account  
SIP Account Status ( register / uncommitted / trying / time out)
- TR069 Connect Status (Displays only in the phone interface state)  
The user can view the phone status through the phone interface and the web interface.
- Phone interface: When the phone is in standby mode, enter the " # \* 107" to enter the phone menu and select [Status], or press and hold the # key to quickly enter the phone [Status], 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**

## 6.7 Web Management

Phone can be configured and managed on the web page of the phone. The user first needs to enter the IP address of the phone in the browser and open the web page of the phone. The user can check the IP address

of the phone by pressing the " # \* 107" to enter the phone menu and select [Status], or press and hold the # key to quickly enter the phone [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](#).

## 6.8 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 enter the " # \* 107" to enter [Menu] >> [Advanced] >> [Network] >> [Network].

The default password for advanced 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 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 user to configure each IP parameters manually, including IP Address, Subnet Mask, Default Gateway, and DNS servers. This is usually used in an office environment or by power users.
- PPPoE – This option is often used by users who connect the device to a broadband modem or router. To establish a PPPoE connection, user should configure username and password provided by the service provider.

The device is default configured in DHCP mode.

There are three common IP configuration modes about IPv6

- DHCP - This is the automatic configuration mode by getting network configurations from a DHCP server.

Users need not to configure any parameters manually. All configuration parameters will be getting from DHCP server and applied to the device. This is recommended for most users.

- Static IP configuration - this option allows users to manually configure each IP parameter, including IP address, mask, gateway, and primary and secondary domains. This usually applies to some professional network user environments.

Please see 10.7.2.1 network Settings for detailed configuration and use.

## 6.9 SIP Configurations

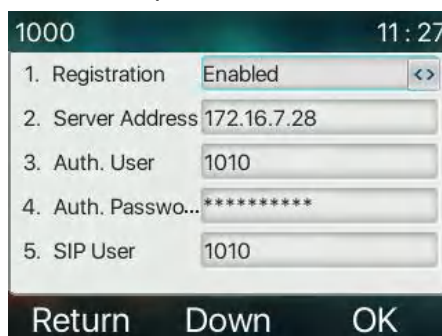
A line must be configured properly to be able to provide telephony service. The line configuration is like a virtualized SIM card. Just like a SIM card on a mobile phone, it stores the service provider and the account information used for registration and authentication. When the device is applied with 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, display name 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 enter the " # \* 107" to enter [Menu] >> [System] >> [Accounts] >> [Line 1] / [Line 2] configuration, click OK to save the configuration.

**NOTICE! User must enter correct PIN code to be able to advanced settings 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 SIP1/SIP2 for configuration, click apply to complete registration after configuration, as shown below:

Line 1000@SIP1

**Register Settings >>**

Line Status:	<b>Registered</b>	Activate:	<input checked="" type="checkbox"/> ?
Username:	<input type="text" value="1010"/> ?	Authentication User:	<input type="text" value="1010"/> ?
Display name:	<input type="text" value="1000"/> ?	Authentication Password:	<input type="password" value="....."/> ?
Realm:	<input type="text"/> ?	Server Name:	<input type="text"/> ?

<b>SIP Server 1:</b>		<b>SIP Server 2:</b>	
Server Address:	<input type="text" value="172.16.7.28"/> ?	Server Address:	<input type="text"/> ?
Server Port:	<input type="text" value="5060"/> ?	Server Port:	<input type="text" value="5060"/> ?
Transport Protocol:	<input type="text" value="UDP"/> ?	Transport Protocol:	<input type="text" value="UDP"/> ?
Registration Expiration:	<input type="text" value="3600"/> second(s) ?	Registration Expiration:	<input type="text" value="3600"/> second(s) ?

Proxy Server Address:	<input type="text"/> ?	Backup Proxy Server Address:	<input type="text"/> ?
Proxy Server Port:	<input type="text" value="5060"/> ?	Backup Proxy Server Port:	<input type="text" value="5060"/> ?
Proxy User:	<input type="text"/> ?		
Proxy Password:	<input type="text"/> ?		

**Basic Settings >>**

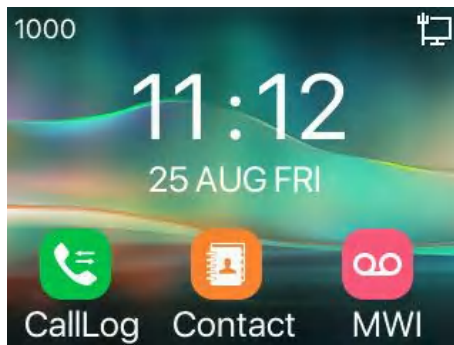
Picture 11 - Web SIP registration

## 7 Basic Function

### 7.1 Making Phone Calls

#### ■ Default Line

The device provides 2 line services(1 backup line). Enable or disable default line, user can press **[Menu]** >> **[Features]** >> **[General]** >> **[Default Line]** or configure from Web Interface (Web / PHONE / Features / Basic Settings).



*Picture 12 - Default line*

#### ■ Dialing Number then Opening Audio

To make a phone call, users can dial numbers by directly pressing the number keys. When the dialed number is completed, user can press the hand-free button to turn on the speaker , or lift the handset to call out.



*Picture 13 - Enable voice channel dialing*

#### ■ Opening Audio then Dialing the Number

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



**Picture 14 - Open the voice channel and dial the number**

■ **Cancel Call**

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



**Picture 15 - Call number**

## 7.2 Answering Calls

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



**Picture 16 - Answering calls**

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

### 7.2.1 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	Call peer	The number of the other party on the call.
②	Call peer	The name of the other party on the call.
③	Call duration	The duration of a call after it has been established.

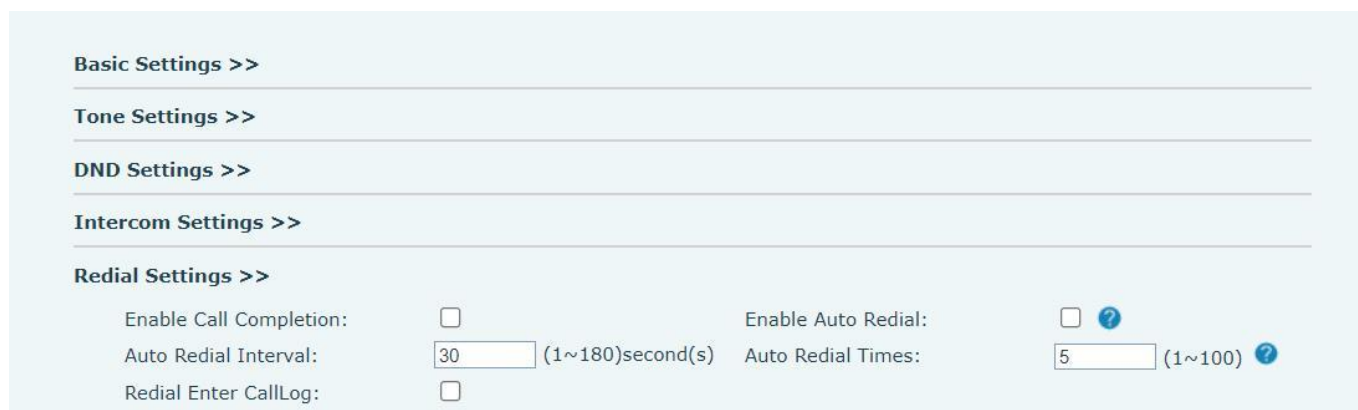
## 7.3 End of the Call

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

**Note!** When the phone is in the reserved state, the user must press the [Resume] key to return to the call state end the call

## 7.4 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 number dialed.
- 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, press the redial button when standby to enter the call record page, and press again to call out the currently located number.



**Picture 18 - Redial set**

## 7.5 Auto-Answering

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

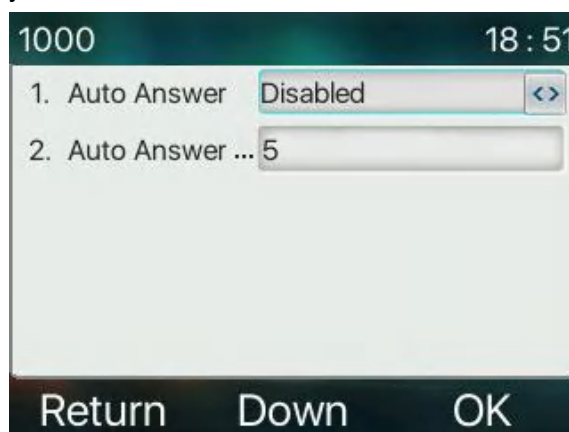
The user can start the automatic answer function in the telephone interface or the webpage interface.

- **Phone interface:**

Enter the “#\*107” to enter the **[Menu]** , and use the volume -(L)/+(R)buttons to select **[Function]>>[Auto Answer]** left and right.

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.

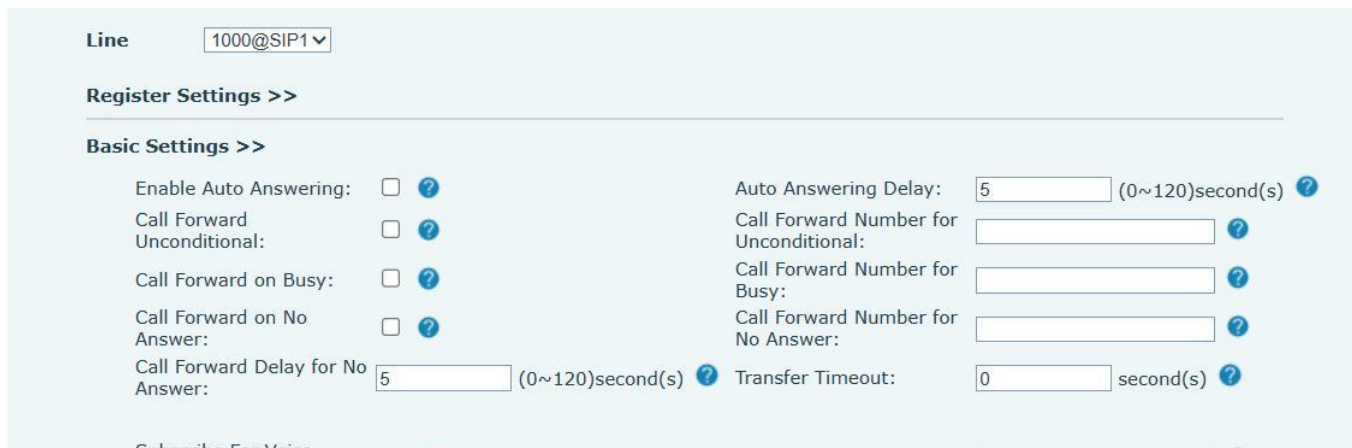


**Picture 19 - Line 1 enables auto-answering**

- **WEB interface:**

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





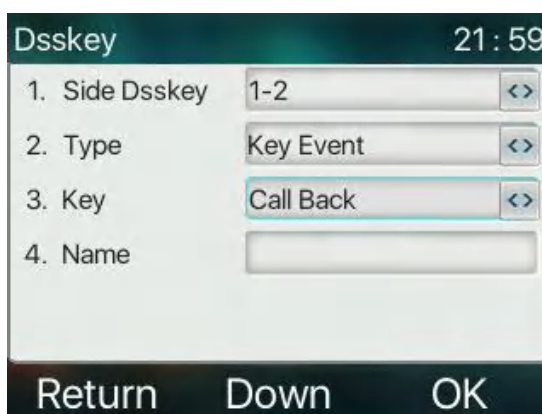
*Picture 20 - Web page to start auto-answering*

## 7.6 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:

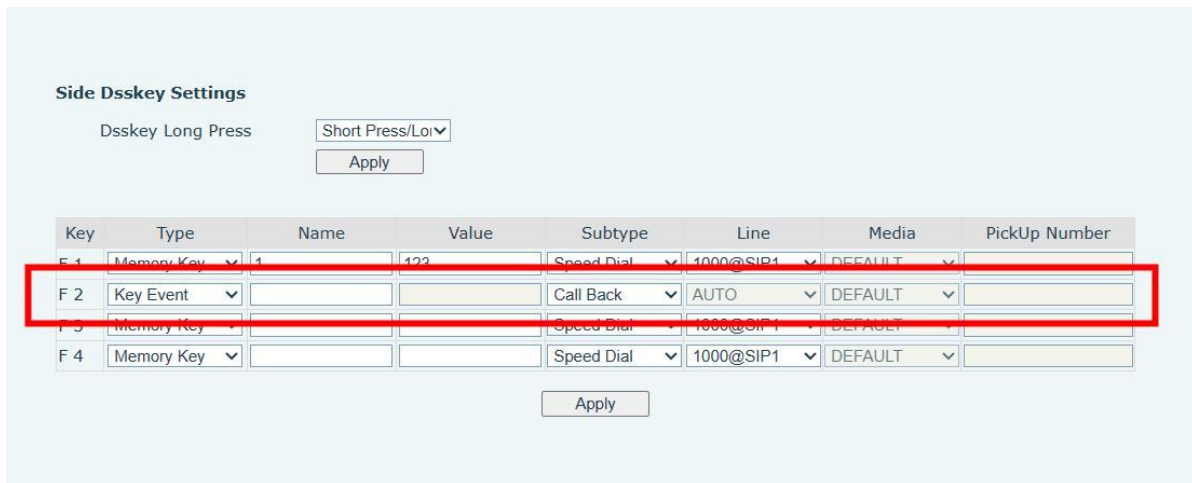
Under standby, Enter the “#\*107” to enter the [**Menu**] , and use the volume -(L)/(R) buttons to select [**Basic**] >> [**Keyboard**] >> [**Function key**] >> [**DSS Key key**] choose to set up the function keys, key type, type selection function name select callback function, input the callback key name, press [**OK**] key to save.



*Picture 21 - 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**] >> [**Function Key**] page, select the function Key, set the type as the function Key, and set the subtype as the callback, as shown in the figure:



**Picture 22 - Set the callback key on the web page**

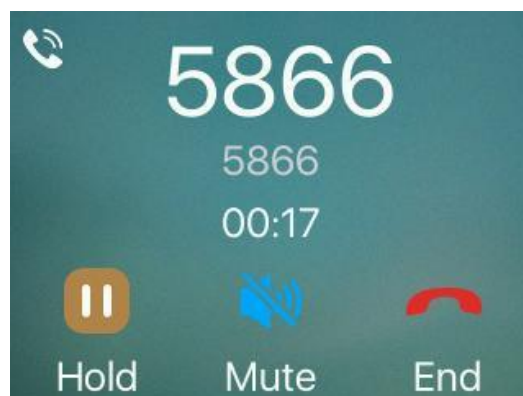
## 7.7 Mute

You can configure the mute key by configuring the side keys ([Function Key >> Side Key](#)) or softkey ([Function Key >> Softkey](#)), to turn on mute mode during a call and turn off the microphone so that the local voice is not heard. Normally, mute mode is automatically turned off at the end of a call. You can also turn on mute on any screen (such as the free screen) and mute the ringtone automatically when there is an incoming call. Mute mode can be turned on in all call modes (handles, headsets or hands-free).


### 7.7.1 Mute the Call

- During the conversation, press the mute button: 

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





**Picture 23 - Mute the call**

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

### 7.7.2 Ringing Mute

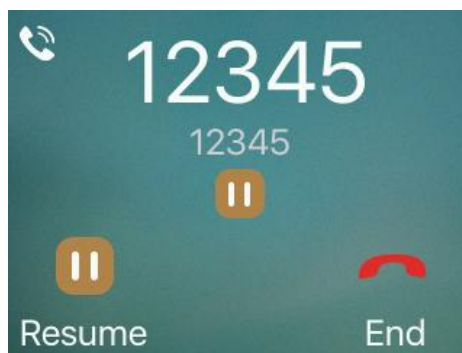
- Mute: Adjust the volume to 0 by pressing the volume down button on the phone

The ringtone mute icon  is displayed in the upper right corner of the phone. When there is an incoming call, the phone displays the incoming call interface but will not ring.

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

### 7.8 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 24 - Call hold interface**

### 7.9 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.

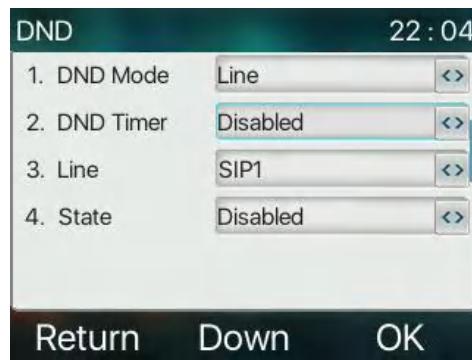
Enable/Disable phone all lines DND, Methods the following:

- 1) Phone interface:

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

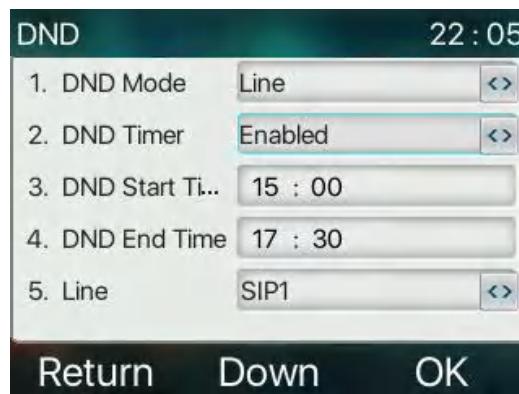
- 1) Enter the "#\*107" to enter the **[Menu]** , and use the volume -(L)/+(R)buttons to select **[Features]** >> **[DND]** button, Enter the **[DND]** editing interface.
- 2) Click the volume -(L)/+(R)buttons to select the line to adjust the mode and state of "do not disturb", and then press the **[OK]** to save.

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



**Picture 25 - 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 in the time rang



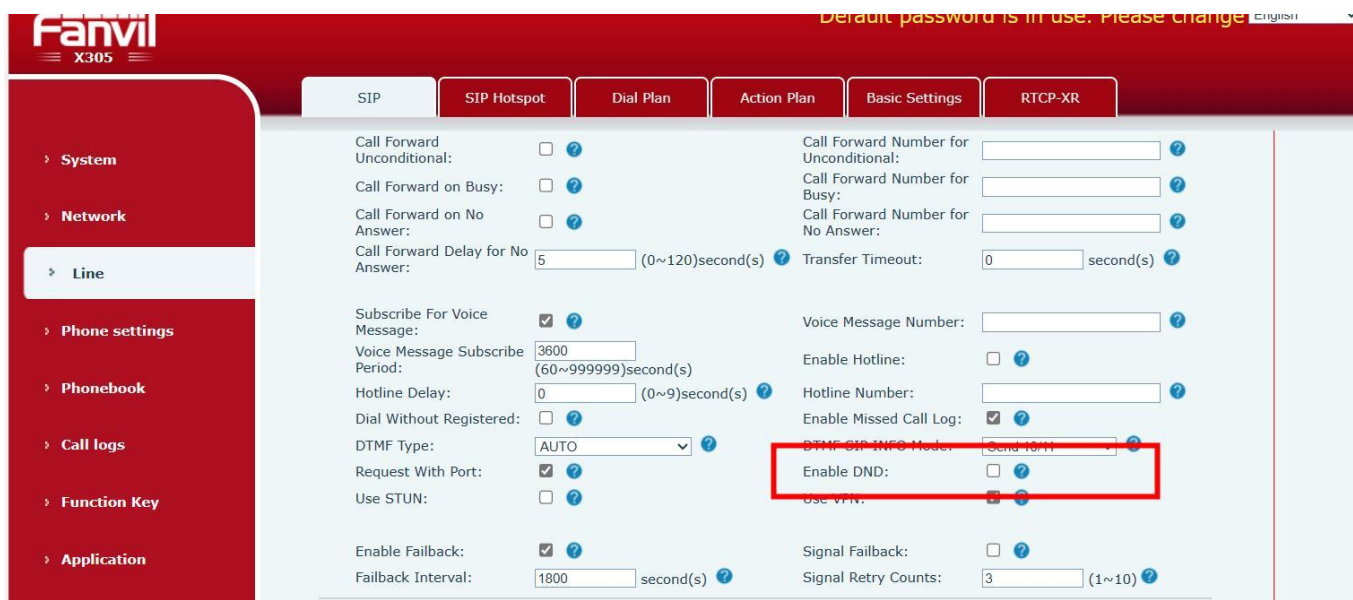
**Picture 26 - DND timer**

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



**Picture 27 - 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.



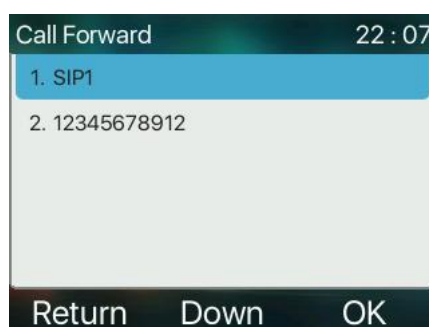
**Picture 28 - Line DND**

## 7.10 Call Forward

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

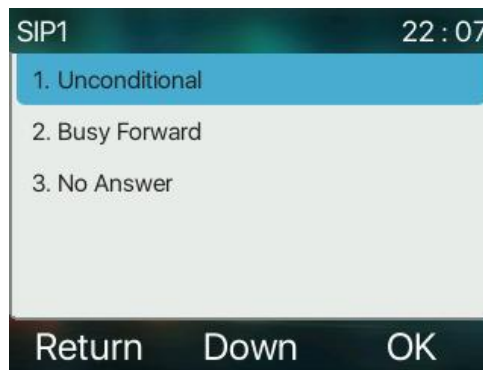
There are three types

- **Unconditional Call Forward** – Forward any incoming call to the configured number.
- **Call Forward on Busy** – When user is busy, the incoming call will be forwarded to the configured number.
- **Call Forward on No Answer** – When user does not answer the incoming call after the configured delay time, the incoming call will be forwarded to the configured number.
- Phone interface: Default standby mode
  - 1) Enter the “#\*107” to enter the **[Menu]** , and use the volume -(L)/(R) buttons to select **[Features]** >> **[Call Forward]** button, select the line by up/down navigation key, press **[OK]** button to set call forward.



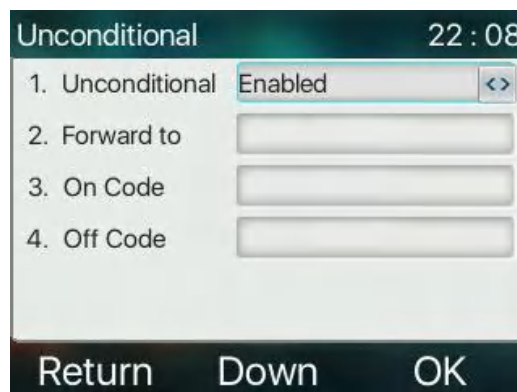
**Picture 29 - Select the line to set up call forwarding**

- 2) Select the call forward type and Click **[OK]** to configure call forwarding and delay time.



**Picture 30 - Select call forward type**

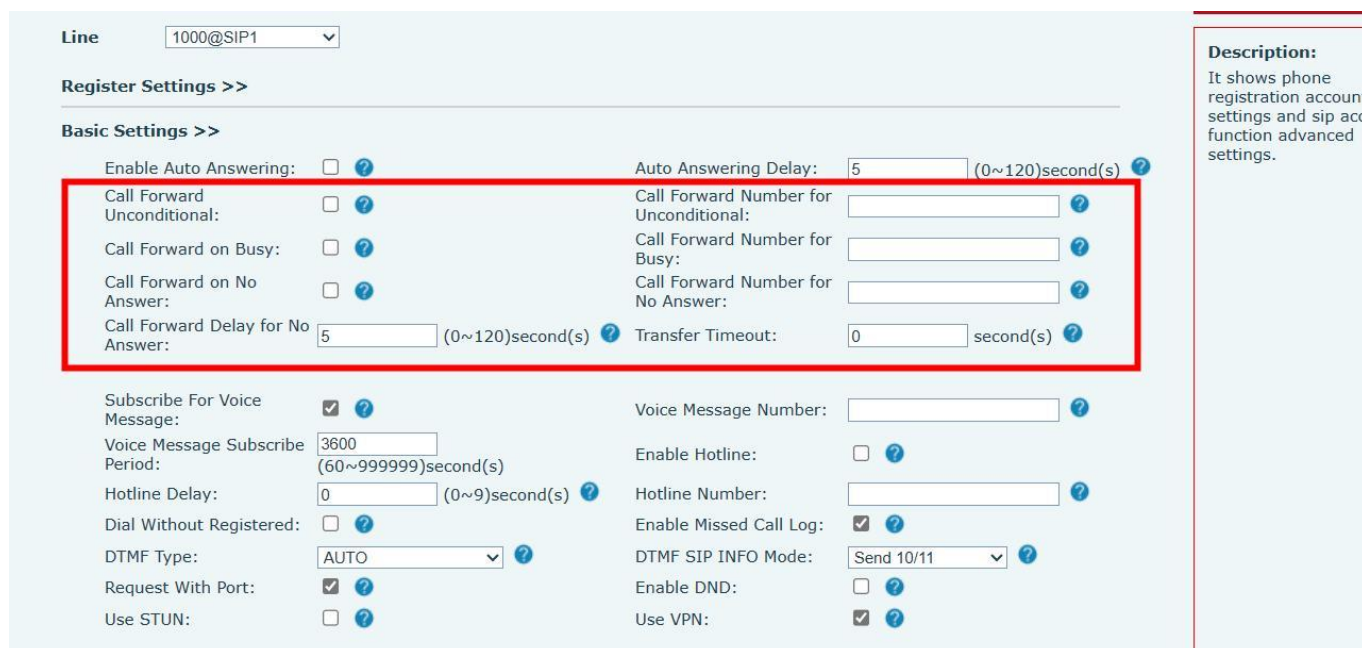
3) Press the volume -(L)/+(R) buttons to switch enable/disable by pressing the left/right navigation button.



**Picture 31 - Enable call forwarding and configure the call forwarding number**

4) 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 32 - Set call forward**

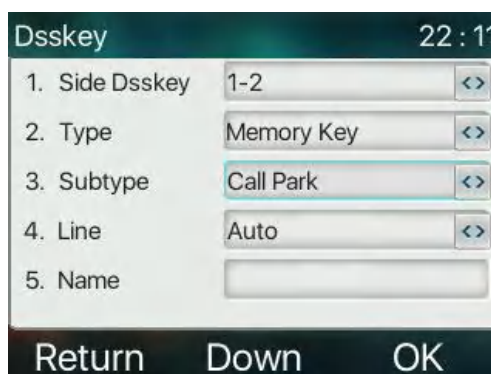
## 7.11 Call Park

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

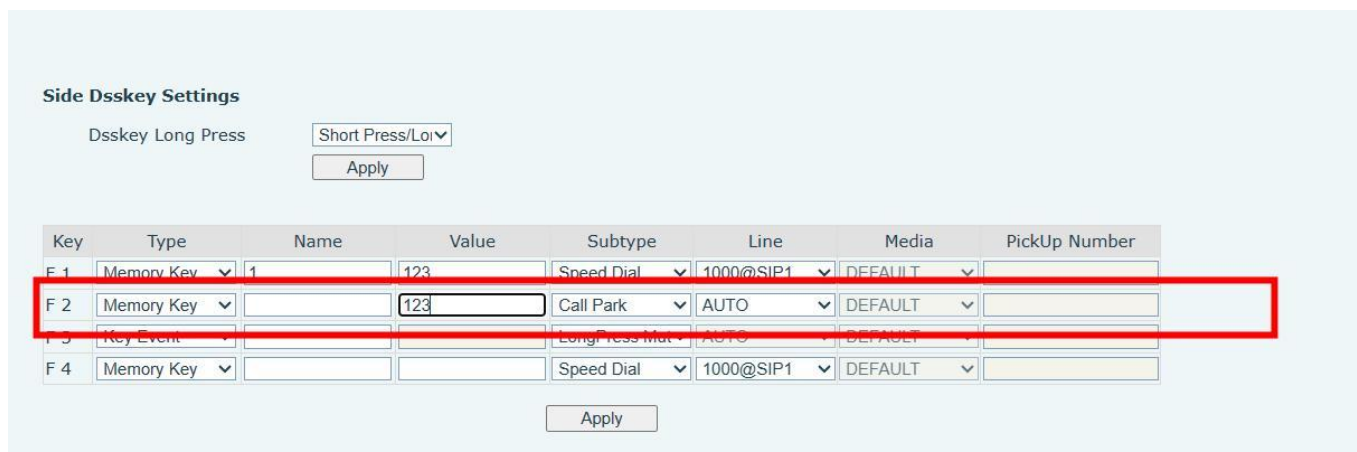
When you are on the call, if it is not convenient to answer the phone at this time, you can press the configured park button to hold the call. After a successful park, you can resume the call by pressing the configured park button on other devices.

Set the call park button:

- Phone interface: long press a function key to enter the function key Settings interface, or Enter the “#\*107” to enter the **[Menu]** , and use the volume -(L)/+(R)buttons to select **[Basic]** >> **[Keyboard Settings]** enter the function keys function key Settings interface, key function key type as memory and subtypes to 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]** >> **[Function 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 33 - Phone set call park**



**Picture 34 - WEB set call park**

## 7.12 Pick Up

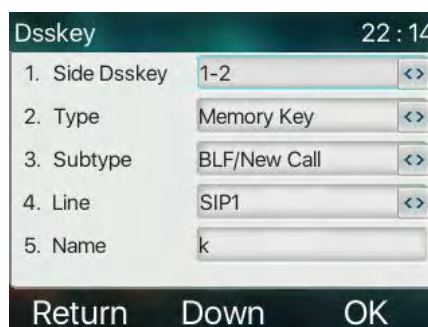
Pick up requires server support. Consult your system administrator for support.

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: Enter the “#\*107” to enter the **[Menu]** , and use the volume -(L)/+(R)buttons to select **[Basic]** >> **[Keyboard Settings]** >> **[DSS Key Settings]**, select the function key to set.

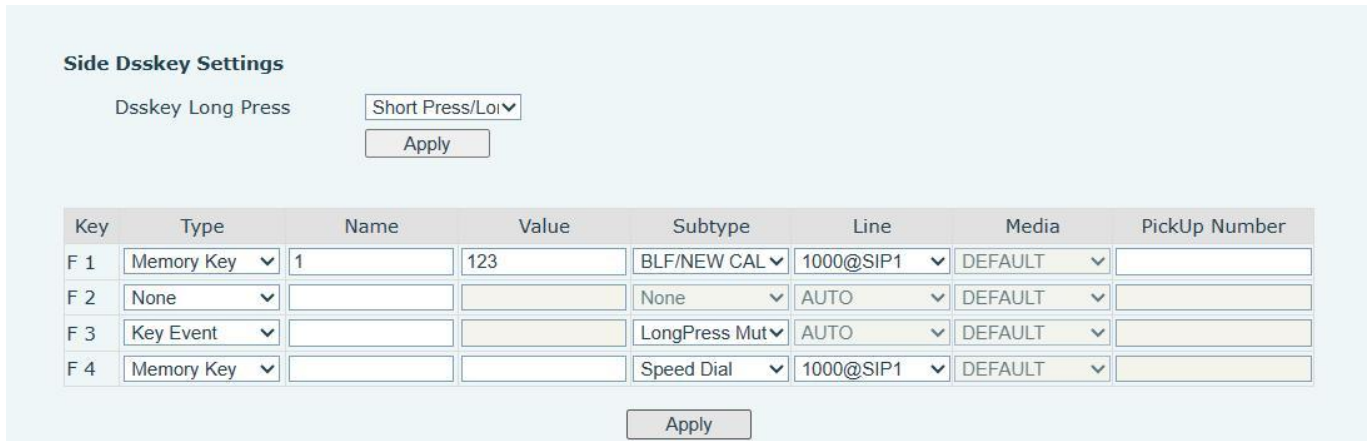
- Set the line, function key type as memory key, subtype as BLF/NEW CALL, set subscription number, and pick up code
  - Other phones call the subscription number, and the opposite end is in the incoming ring.
  - Press the DSS key to pick up the phone.
  - The caller picks up the call and speaks to it.

WEB interface: Log in the phone webpage, enter the **[Function Key]** >> **[Function 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 35 - Phone pick up setting**





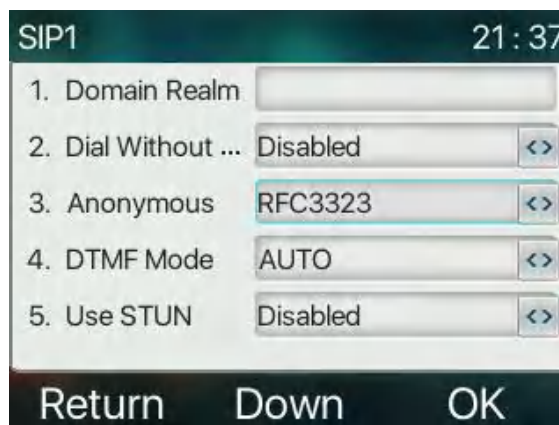
Picture 36 - WEB pick up setting

## 7.13 Anonymous Call

### 7.13.1 Anonymous Call

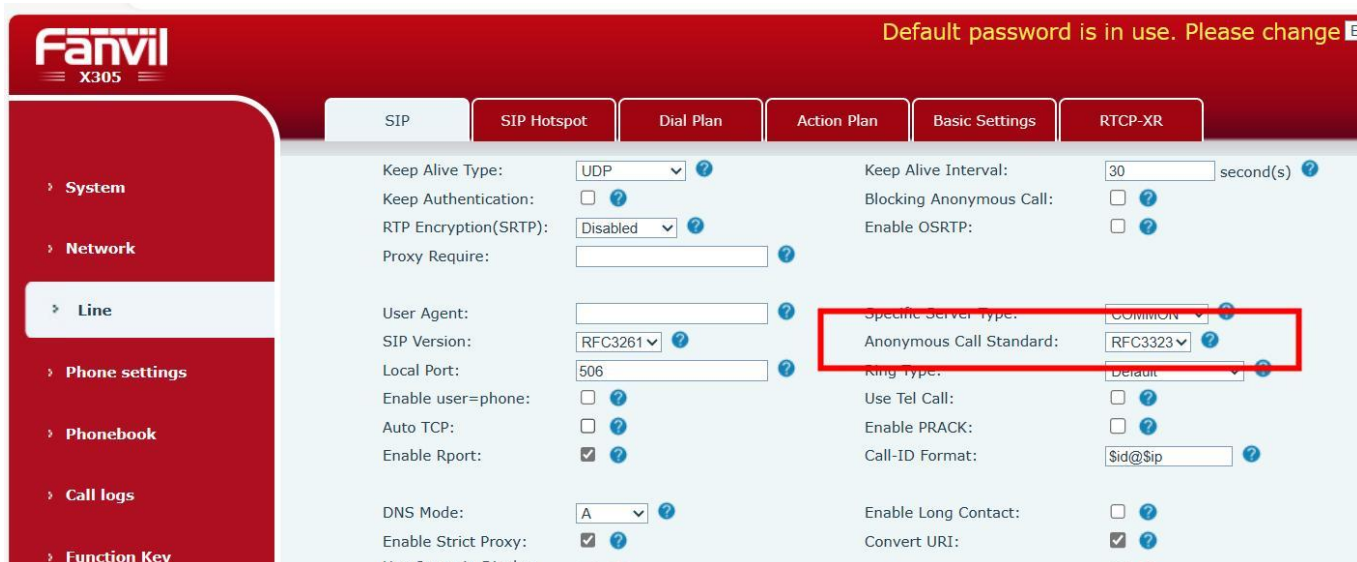
The phone can set up anonymous calls to hide the calling number and the calling name.

- Enter the “#\*107” to enter the **[Menu]** , and use the volume -(L)/(R) buttons to select **[System]** >> **[Accounts]** >> **[Advanced]**.
- The default is none, which is off, and RFC3323 and RFC3325 are optional.
- Select any one to open the anonymous call.



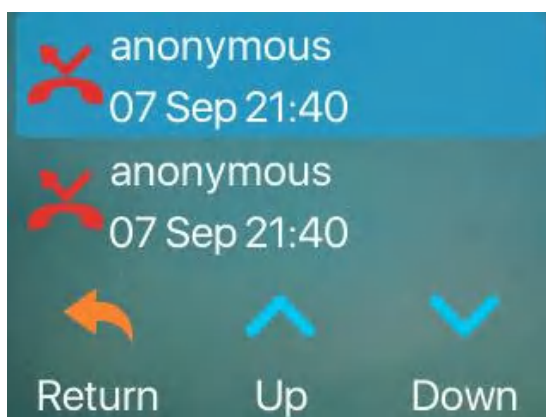
Picture 37 - Enable anonymous call

- On the web page **[Line]** >> **[SIP]** >> **[Advanced Settings]** can also open 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 38 - Enable Anonymous web page call**

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

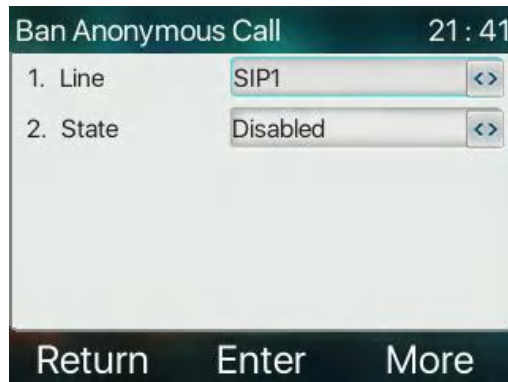


**Picture 39 - Anonymous call log**

### 7.13.2 Ban Anonymous Call

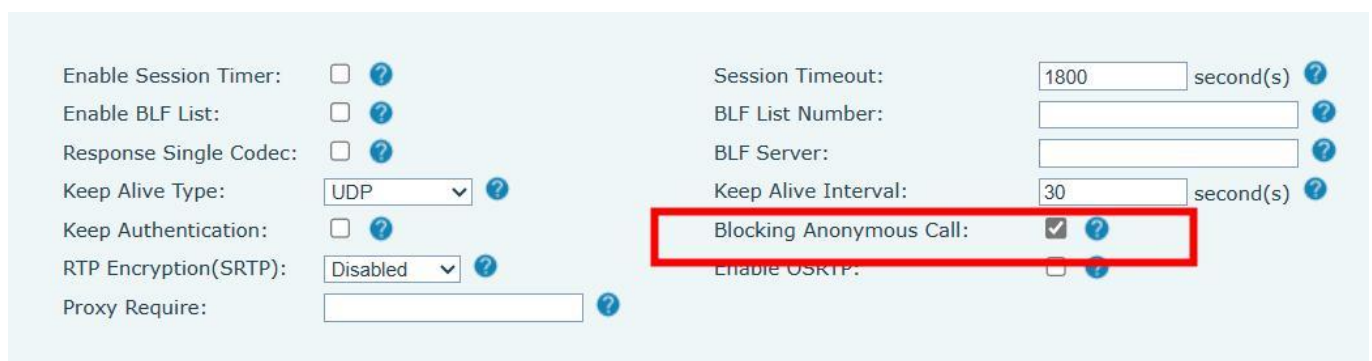
The device can be set to prohibit anonymous calls, that is anonymous calls to the number will be directly rejected.

- Enter the “#\*107” to enter the [Menu] >> [Features] >> [Ban anonymous call], click to enter and all SIP lines will be displayed.
- Click the volume -(L)/+(R) buttons to switch the SIP line and enable anonymous call.



**Picture 40 - 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.

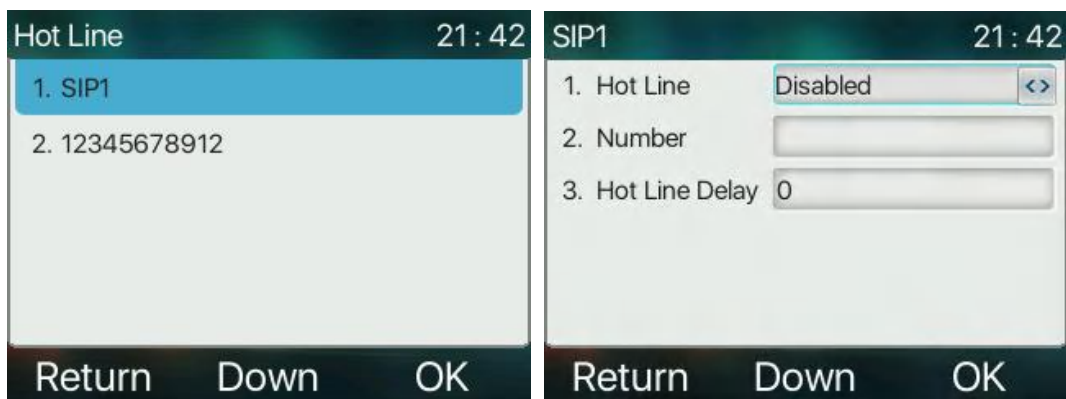


**Picture 41 - Page Settings blocking anonymous call**

## 7.14 Hotline

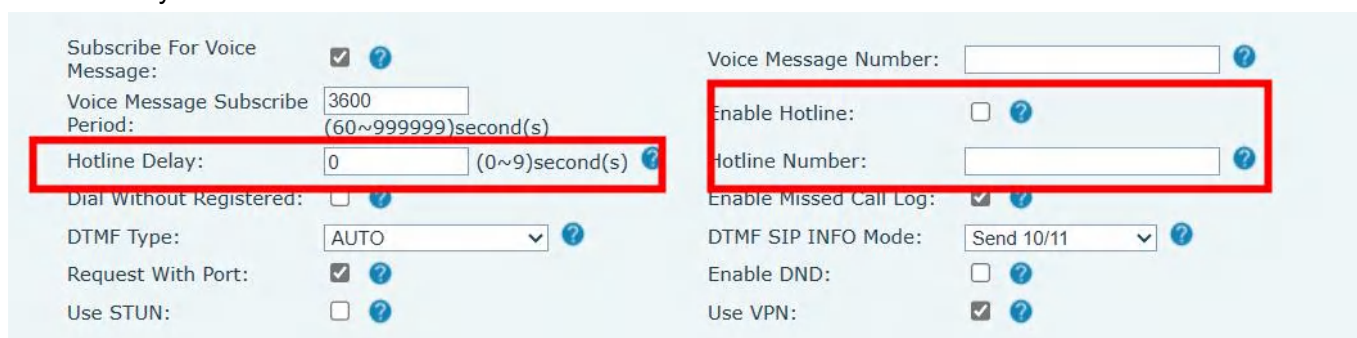
The device supports hotline dialing. After setting up the hotline dialing, directly pick up the handset, hands-free, etc, and the phone will automatically call according to the hotline delay time.

- Enter the “#\*107” to enter the [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 42 - 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.

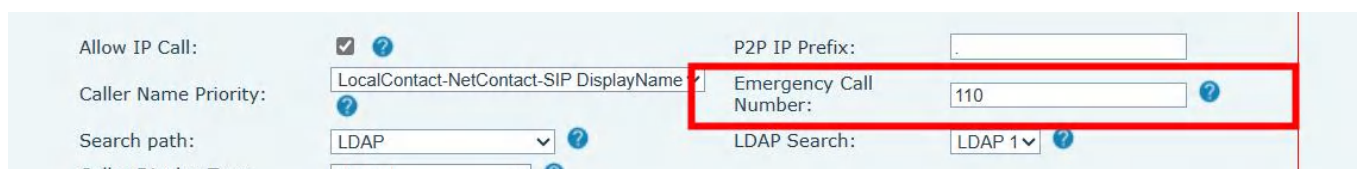


**Picture 43 - Hotline set up on webpage**

## 7.15 Emergency Call

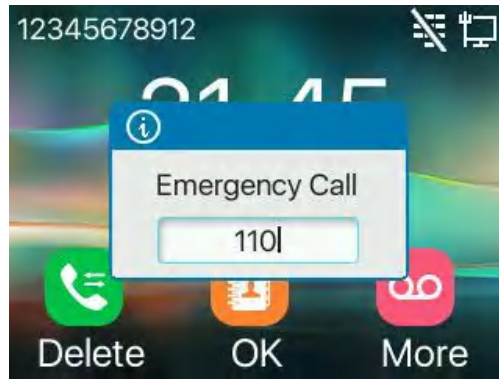
The emergency call function is used to enable the keypad lock. Users can set the corresponding emergency call number on the phone. You can also call emergency services when your phone is locked.

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 44 - 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 45 - Dial the emergency number**

## 8 Advance Function

### 8.1 BLF (Busy Lamp Field)

#### 8.1.1 Configure the BLF Functionality

- Page interface: log in the phone page, enter the [Function key] >> [Function 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 use of reference [8.16 Pick up](#).

**Side Dsskey Settings**

Dsskey Long Press

Key	Type	Name	Value	Subtype	Line	Media	PickUp Number
F 1	Memory Key	1	123	BLF/NEW CAL	1000@SIP1	DEFAULT	
F 2	None			None	AUTO	DEFAULT	
F 3	Key Event			LongPress Mut	AUTO	DEFAULT	
F 4	Memory Key			Speed Dial	1000@SIP1	DEFAULT	

**Picture 46 - Web page configuration BLF function key**

- Phone interface: long press a function key to enter the function key Settings interface, or Enter the “#\*107” to enter the [Menu] >> [Basic] >> [Keyboard ] to enter the function key to set settings interface, key function key types of memory, a subtype of BLF/NEW CALL, BLF/BXFER, BLF/AXFER, BLF/CONF, BLF/DTMF, the values to be subscription number, and set up corresponding SIP lines.

**Dsskey** 21:53

1. Side Dsskey
2. Type
3. Subtype
4. Line
5. Name

Return Down OK

**Picture 47 - 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/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.

## 8.2 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 to the BLF List Key.

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.

Code:

Enable Session Timer:  ?

**Enable BLF List:  ?**

Response Single Codec:  ?

Keep Alive Type: UDP ?

Keep Authentication:  ?

RTP Encryption(SRTP): Disabled ?

Proxy Require:  ?

Session Timeout: 1800 second(s) ?

**BLF List Number:  ?**

**BLF Server:  ?**

Keep Alive Interval: 30 second(s) ?

Blocking Anonymous Call:  ?

Enable OSRTP:  ?

**Picture 48 - Configure the BLF List functionality**

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

Side Dsskey Settings

Dsskey Long Press: Short Press/Loi

Apply

Key	Type	Name	Value	Subtype	Line	Media	PickUp Number
F 1	Memory Key	1	123	BLF/NEW CAL	1000@SIP1	DEFAULT	
F 2	None			None	AUTO	DEFAULT	
F 3	Key Event			LongPress Mut	AUTO	DEFAULT	
F 4	Memory Key			Speed Dial	1000@SIP1	DEFAULT	

Apply

**Picture 49 - BLF List number display**

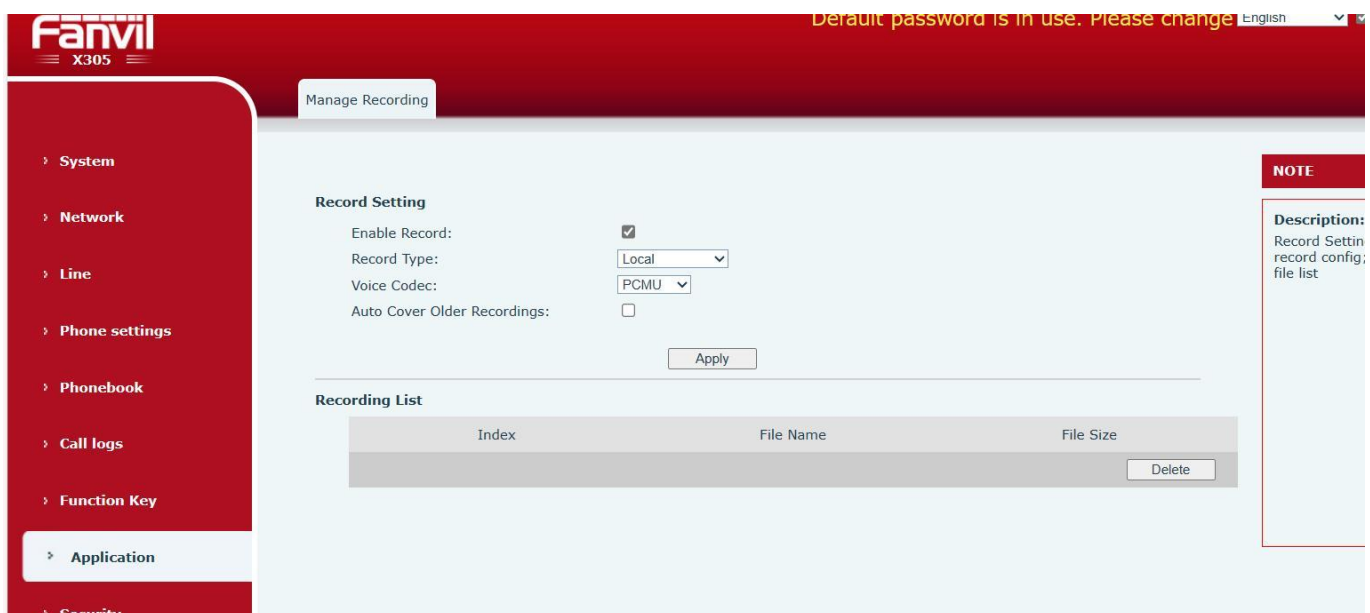
## 8.3 Record

The device supports recording during a call.

### 8.3.1 Local Record

The local recording must be mounted on a usb flash drive to support recording, so the device needstosupport a usb flash drive. When using local recording, it is necessary to start recording on the phone page [Application] >> [Manage recording], select the local type and set the voice coding.

The webpage is as follows:



Local recording steps:

- Plug the U disk into the USB port of the phone, open the recording on the web page, and set therecording type as local recording.
- Set DSSkey type as key event and type as record in the phone/web interface.
- Set up one line call and press the recording key (set DSSkey).
- End the recording. End the call.

View local recording:

- Enter the “#\*107” to enter the [Menu] >> [Application] >> [USB].
- Enter [USB] to view the recording file.
- Or enter the webpage [Application] under the [Manage recording] to view the recording file.

Listen to the record:

- Enter the “#\*107” to enter the [Menu] >> [Application] >> [USB].



- Enter [USB] to view the recording file.
- Select the recording file that you want to listen to, and click the "play" button of Soft key to listentotherecording.

### 8.3.2 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:

**Record Setting**

Enable Record:

Record Type: Network

Voice Codec: PCMU

Server Address: 0.0.0.0 Server Port: 10000

Auto Cover Older Recordings:

Apply

---

**Recording List**

Index	File Name	File Size
Delete		

**Picture 50 - Web server recording**

*Note: to be used with Fanvil recording software.*

### 8.3.3 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.

**Record Setting**

Enable Record:

Record Type: Sip Info

Auto Cover Older Recordings:

Apply

---

**Recording List**

Index	File Name	File Size
Delete		

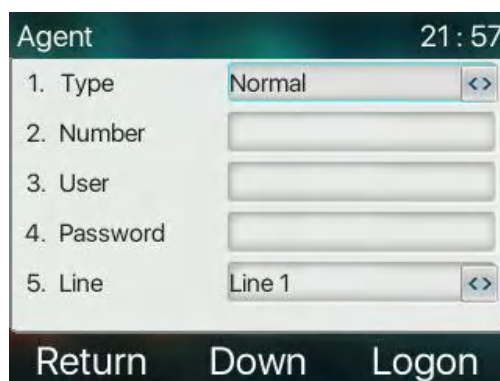
**Picture 51 - Web SIP info recording**

## 8.4 Agent

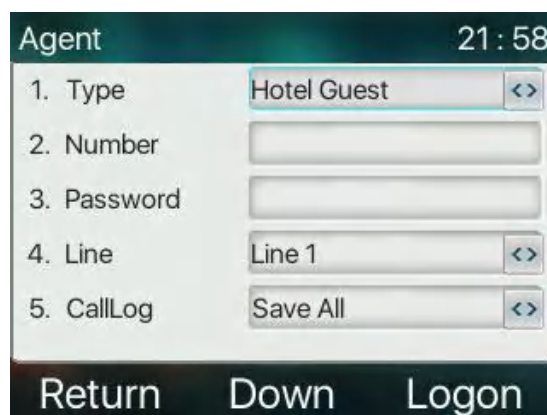
Agent (Agent function) of the phone can be realized: when multiple people use a device for Agent services at different times, he or she can quickly register his or her SIP account on the same server. The Agent functions of the phone can be divided into Normal and Hotel Guest. The Hotel Guest mode requires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

Normal Mode:

Configure agent function: set a DSSkey as agent, press the function key or enter the “#\*107” to enter the [Menu] >> [Features] >> [Agent] to enter the agent page. The SIP server needs to be configured before the account can be configured.



**Picture 52 - Configure the Agent account in normal mode**



**Picture 53 - Configure the proxy account-hotel Guest mode**

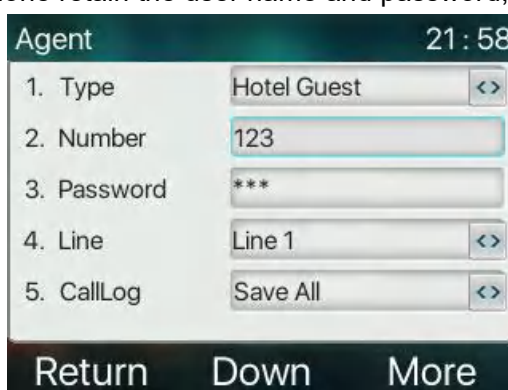
**Table 8 - Agent mode**

Parameter	Description
<b>Normal mode</b>	
Number	Set the proxy account number.
User	Set the proxy account number to verify the user name.
Password	Set the proxy account number to verify the password.
Line	Select the SIP line.
CallLog	Users can choose to save all types, or delete.

Hotel Guest 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 to save all types, or delete.

Using agent functions:

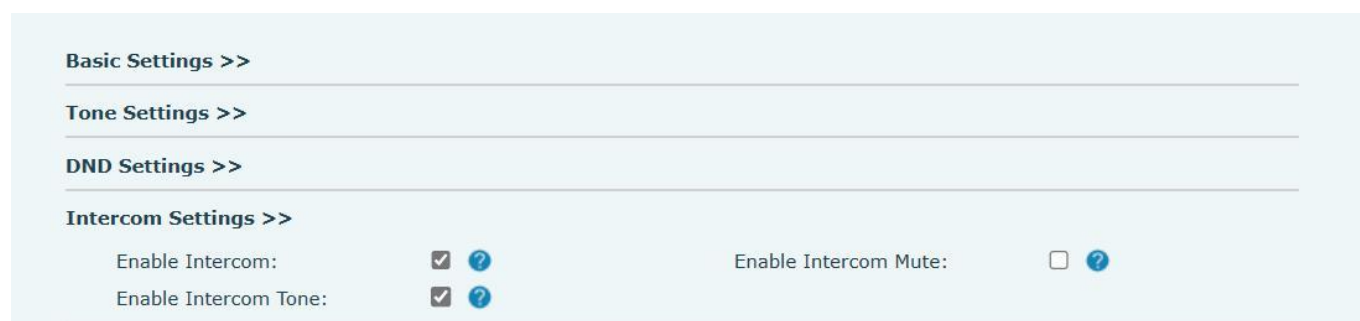
- 1) When the phone has been configured on SIP server, fill in the correct number and user name password, click login and then the phone can be registered to the SIP server;
- 2) After registration, click logout and the phone can delete the user name and password, and log out of the SIP account.
- 3)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



**Picture 54 - Agent logon page**

## 8.5 Intercom

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



**Picture 55 - Web Intercom configure**

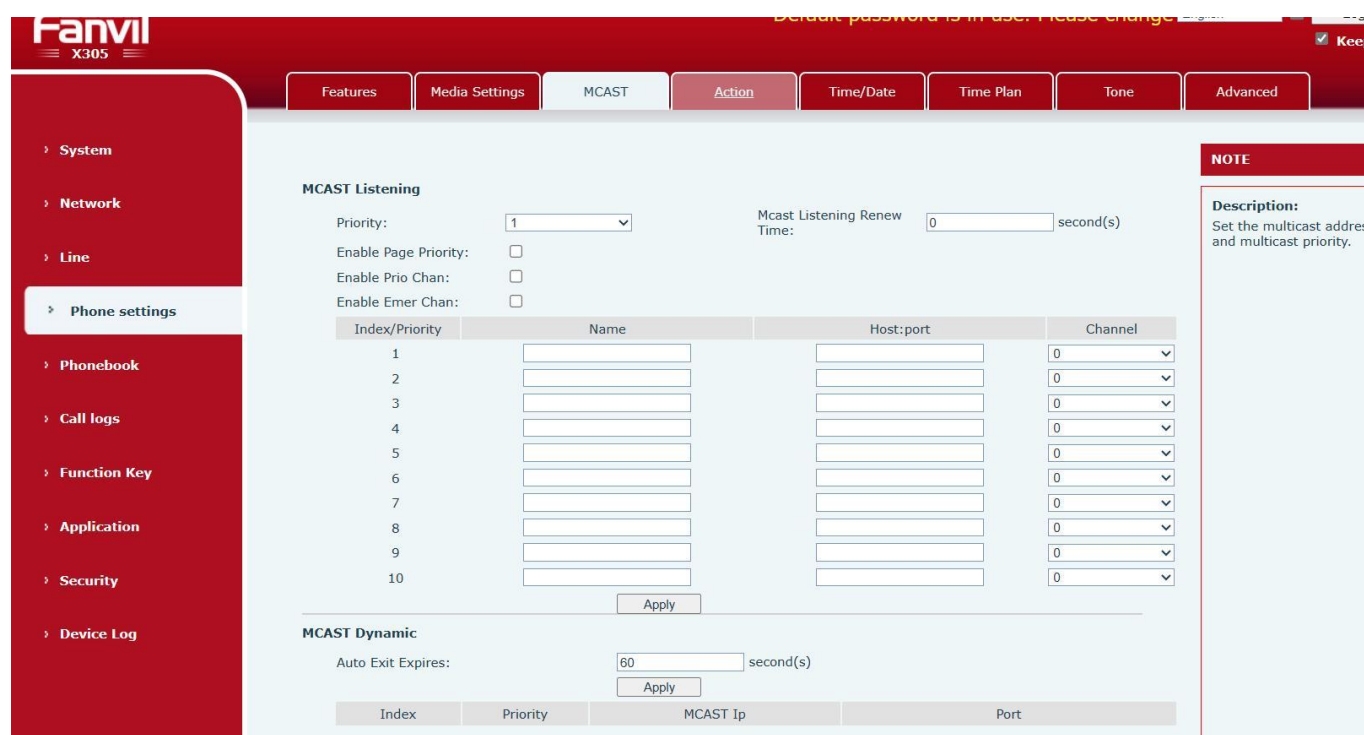
**Table 9 - Intercom configure**

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

## 8.6 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 56 - Multicast Settings Page**

**Table 10 - MCAST Parameters on Web**

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

### Multicast:

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

## 8.7 SCA (Shared Call Appearance)

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

### 1) Configure on Phone

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

The screenshot displays the configuration page for a SIP line. At the top, the line is identified as '123@SIP1'. Under 'Register Settings', the line status is 'Registered'. The 'Username' is set to '123' and the 'Display name' is also '123'. The 'SIP Server 1' is configured as a 'Broadsoft Server address' with a 'Server Address' of '172.16.1.2', 'Server Port' of '5060', and 'Transport Protocol' of 'UDP'. The 'Registration Expiration' is set to '3600' seconds. The 'SIP Server 2' fields are also visible but not fully configured. Authentication fields for the primary account are shown with 'Authentication User' as '123' and 'Authentication Password' as masked characters. A red box highlights these fields with the text 'The user name and password of the primary account created'. Other fields include 'Server Name', 'Proxy Server Address', 'Proxy Server Port', 'Proxy User', and 'Proxy Password'. Navigation links for 'Basic Settings' and 'Codecs Settings' are at the bottom.

**Picture 57 - 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.

User Agent:	<input type="text"/>	<b>Specific Server Type:</b>	BroadSoft ▾
SIP Version:	RFC3261 ▾	Anonymous Call Standard:	None ▾
Local Port:	5060	Ring Type:	Default ▾
Enable user=phone:	<input type="checkbox"/>	Use Tel Call:	<input type="checkbox"/>
Auto TCP:	<input type="checkbox"/>	Enable PRACK:	<input type="checkbox"/>
Enable Rport:	<input checked="" type="checkbox"/>	Call-ID Format:	\$id@\$ip

**Picture 58 - Set BroadSoft server**

- If a Fanvil phone set needs to use the SCA function, enable it for the phone set. 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 private line.

DNS Mode:	A ▾	Enable Long Contact:	<input type="checkbox"/>
Enable Strict Proxy:	<input checked="" type="checkbox"/>	Convert URI:	<input checked="" type="checkbox"/>
Use Quote in Display Name:	<input type="checkbox"/>	Enable GRUU:	<input type="checkbox"/>
Sync Clock Time:	<input type="checkbox"/>	Enable Use Inactive Hold:	<input type="checkbox"/>
Caller ID Header:	PAI-RPID-FROM ▾	Use 182 Response for Call waiting:	<input type="checkbox"/>
Enable Feature Sync:	<input type="checkbox"/>	<b>Enable SCA:</b>	<input type="checkbox"/>
TLS Version:	TLS 1.2 ▾	uaCSTA Number:	<input type="text"/>
Enable Preview:	<input type="checkbox"/>	Preview Mode:	Preview2xx ▾
Enable Click To Talk:	<input type="checkbox"/>	Enable ChangePort:	<input type="checkbox"/>
VQ Name:	<input type="text"/>	VQ Server:	<input type="text"/>
VQ Server Port:	5060	VQ Http/Https server:	<input type="text"/>
Flash Mode:	Normal ▾	Flash Info Content-Type:	<input type="text"/>
Flash Info Content-Body:	<input type="text"/>	Server Expire:	<input checked="" type="checkbox"/>
Unregister On Boot:	<input checked="" type="checkbox"/>	Enable MAC Header:	<input checked="" type="checkbox"/>
Enable Register MAC Header:	<input checked="" type="checkbox"/>	BLF Dialog Strict Match:	<input checked="" type="checkbox"/>
PTime	Disabled ▾ millisecond	Enable Deal 180:	<input checked="" type="checkbox"/>
Transaction Timer T1:	500 (500~10000)millisecond	Transaction Timer T2:	4000 (2000~40000)millisecond
Transaction Timer T4:	5000 (2500~60000)millisecond		

**Picture 59 - 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.

**Side Dsskey Settings**

Dsskey Long Press

Key	Type	Name	Value	Subtype	Line	Media	PickUp Number
F 1	Key Event	1		Private Hold	AUTO	DEFAULT	
F 2	None			None	AUTO	DEFAULT	
F 3	None			None	AUTO	DEFAULT	
F 4	None			None	AUTO	DEFAULT	

**Picture 60 - Set Private Hold Function Key**

- After each phone set registered with the BroadSoft server is configured as above, the SCA function can be used.

### 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.

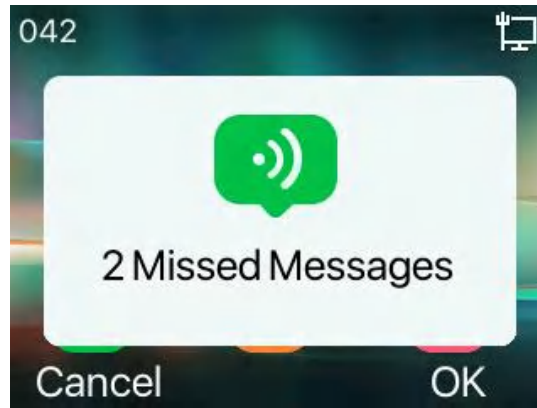
Scenario 3: The manager is in an important call with a customer and needs to leave for a while. If the manager does not want others to retrieve this call, the manager can press the Private Hold key.

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.

## 8.8 Message

### 8.8.1 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.



**Picture 61 - SMS icon**

Send messages:

- Enter the “#\*107” to enter the **[Menu]** >> **[Message]** >> **[SMS]**.
- Users can create new messages, select lines and send numbers.
- After editing is complete, click Send.

View SMS:

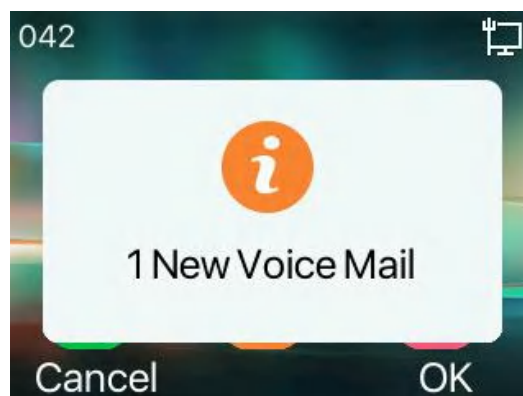
- Enter the “#\*107” to enter the **[Menu]** , and select **[message]**
- After selecting, press the **[OK]** to enter the SMS inbox interface.
- Select the unread message and press **[OK]** to read the unread message.

Reply to SMS:

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

### 8.8.2 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 62 - New Voice Message Notification**



**Voice message icon**

To listen to voice messages, users must first configure a voice mailbox number. After configuring a voice mailbox number, users can retrieve voice messages for the default line.

- When the phone is in default standby mode,
- The sub screen is preset with a voice message shortcut key - the 'Voice Mail' button



**Picture 63 - Voice message interface**

## 8.9 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.

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

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

Line 9@SIP1

**Register Settings >>**

Line Status: **Registered**

Activate:  ?

Username:  ?

Authentication User:  ?

Display name:  ?

Authentication Password:  ?

Realm:  ?

Server Name:  ?

**SIP Server 1:**

Server Address:  ?

Server Port:  ?

Transport Protocol:  ?

Registration Expiration:  second(s) ?

**SIP Server 2:**

Server Address:  ?

Server Port:  ?

Transport Protocol:  ?

Registration Expiration:  second(s) ?

Proxy Server Address:  ?

Backup Proxy Server Address:  ?

Proxy Server Port:  ?

Backup Proxy Server Port:  ?

Proxy User:  ?

Proxy Password:  ?

**Picture 64 - Register SIP account**

**Table 11 - 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.
<b>SIP hotspot</b>	
Enable hotspot	Set it to be Enable to enable the feature.
Mode	Choose hotspot, phone will be a "SIP hotspot server"; Choose Client, phone will be a "SIP hotspot Client"
Monitor Type	Either the Multicast or Broadcast is ok. If you want to limit the broadcast packets, you'd better use broadcast. But, if client choose broadcast, the SIP hotspot phone must be broadcast.
Monitor Address	The address of broadcast, hotspot server and hotspot client must be same.
Remote Port	Type the Remote port number.

Configure SIP hotspot server:

**Client Table**

IP	MAC	Alias	Line
172.16.7.100	0c:38:3e:3d:b0:20	1	1,2
172.16.7.90	0c:38:3e:23:65:91	2	2,1
172.16.7.123	0c:38:3e:2f:7a:eb	3	1,2

**SIP Hotspot Settings**

Enable Hotspot:  ?

Mode:  ?

Monitor Type:  ?

Monitor Address:  ?

Local Port:  ?

Name:  ?

Ring Mode:  ?

**Line Settings**

Line	Enabled	Ext Prefix
Line 1:	<input type="text" value="Enabled"/>	<input type="text"/>
Line 2:	<input type="text" value="Enabled"/>	<input type="text"/>
Line 3:	<input type="text" value="Enabled"/>	<input type="text"/>
Line 4:	<input type="text" value="Enabled"/>	<input type="text"/>
Line 5:	<input type="text" value="Enabled"/>	<input type="text"/>
Line 6:	<input type="text" value="Enabled"/>	<input type="text"/>

**Picture 65 - 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.

**Hotspot Table**

IP	Server name	Online Status	Connection Status	Alias	Line	
172.16.7.136	SIP Hotspot	OffLine	Disconnected			<input type="button" value="Connect"/>
172.16.7.120	SIP Hotspot	OnLine	Connected	1	1	<input type="button" value="Disconnect"/>

**SIP Hotspot Settings**

Enable Hotspot:

Mode:

Monitor Type:

Monitor Address:

Local Port:

Name:

**Line Settings**

Line	Enabled
Line 1:	<input type="text" value="Enabled"/>
Line 2:	<input type="text" value="Enabled"/>
Line 3:	<input type="text" value="Enabled"/>
Line 4:	<input type="text" value="Enabled"/>
Line 5:	<input type="text" value="Enabled"/>
Line 6:	<input type="text" value="Enabled"/>

***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.

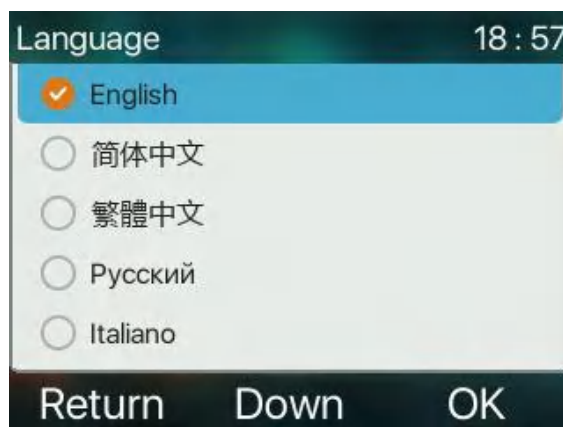
## 9 Phone Settings

### 9.1 Basic Settings

#### 9.1.1 Language

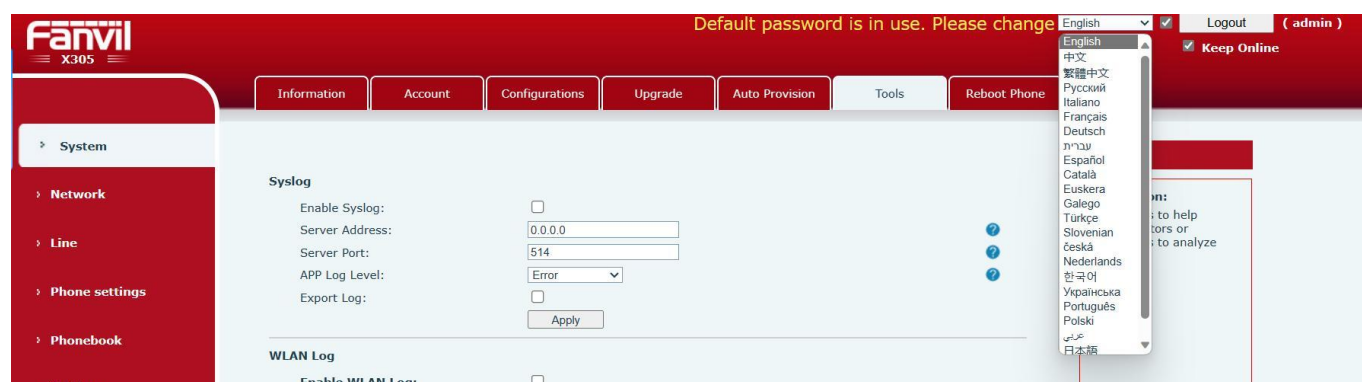
The user can set the phone language through the phone interface and web interface.

- Phone end: After resetting the factory settings, the user needs to set the language; when setting the language during standby, Enter the “#\*107” to enter the [Menu] >> [Basic] >> [Language] Settings, as shown in the figure.



**Picture 67 - 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 68 - 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.

#### 9.1.2 Time & Date

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

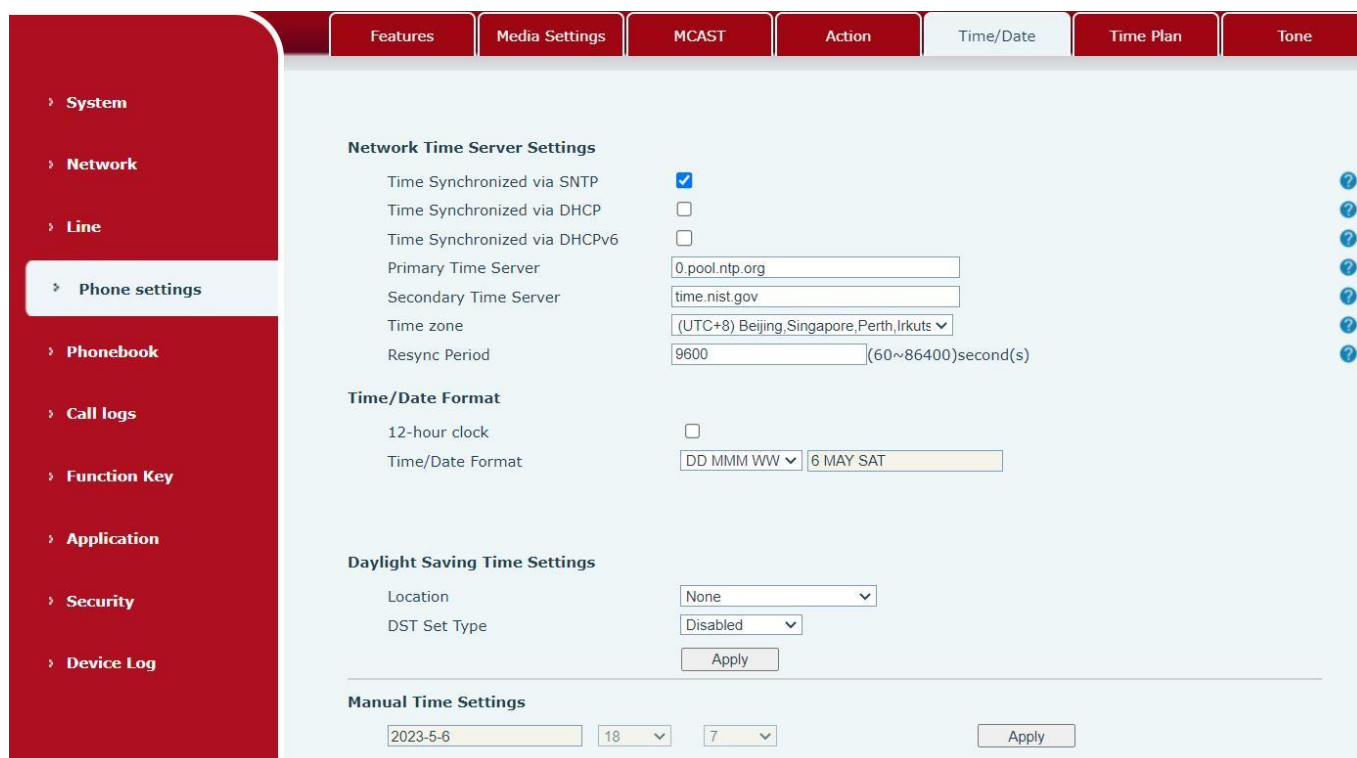
- Phone end: When the phone is in the default standby state, Enter the “#\*107” to enter the [Menu] >>

[Basic] >> [Time & Date] , use the up/down key to edit parameters, press the [OK] to save after completion, as shown in the figure:



**Picture 69 - 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 70 - Set time & date on webpage**

**Table 12 - Time Settings Parameters**

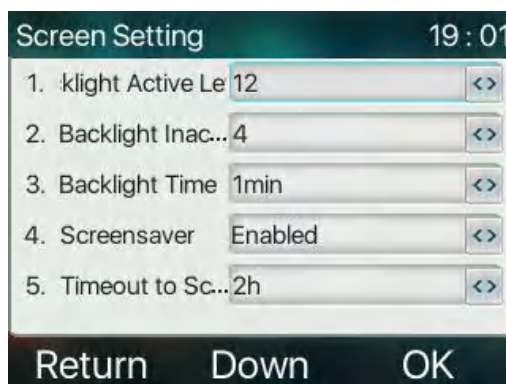
Parameters	Description
Mode	Auto/Manual Auto: Enable network time synchronization via SNTP protocol, default enabled. Manual: User can modify data manually.
SNTP Server	SNTP server address

Time zone	Select the time zone
Time format	Select time format from one of the followings: <ul style="list-style-type: none"> <li>■ 1 JAN, MON</li> <li>■ 1 January, Monday</li> <li>■ JAN 1, MON</li> <li>■ January 1, Monday</li> <li>■ MON, 1 JAN</li> <li>■ Monday, 1 January</li> <li>■ MON, JAN 1</li> <li>■ Monday, January 1</li> <li>■ DD-MM-YY</li> <li>■ DD-MM-YYYY</li> <li>■ MM-DD-YY</li> <li>■ MM-DD-YYYY</li> <li>■ YY-MM-DD</li> <li>■ YYYY-MM-DD</li> </ul>
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

### 9.1.3 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, Enter the “#\*107” to enter the **[Menu]** >> **[Basic]** >> **[Screen Settings]** to edit the screen parameters. After editing, click **[OK]** to save, as shown in the figure:



**Picture 71 - Set screen parameters on phone**

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

#### 9.1.3.1 Brightness and backlight

- Set the brightness level in use from 1 to 16, [-] or [+]switch brightness level.

- Set the brightness level in the energy-saving mode from 0 to 16, [-] or [+] switch the brightness level.
- Set the backlight time to 1 min by default. You can turn it off or select 15 S/30 S/1 min/2 min/5 min/10 min/30 min/ 1 h /2h 3h /6h /15h.
- The screen saver can be turned on or off by default.
- Web interface: enter [**Phone Settings**] >> [**Advanced**], edit screen parameters, and click submit to save.

The screenshot shows a web interface for configuring phone settings. It is divided into three main sections: Screen Configuration, Power Saving, and UI Preference. On the right side, there is a red 'NOT' button and a 'Desc' section with text: 'Set u funct such pass locks'. Each setting in the 'Screen Configuration' section has a blue question mark icon to its right.

**Screen Configuration**

Backlight Active Level:	<input type="text" value="12"/>	(1~16)	?
Backlight Inactive Level:	<input type="text" value="4"/>	(0~16)	?
Backlight Time:	<input type="text" value="1min"/>		?
Customer Backlight Time:	<input type="text" value="60"/>	(1~54000)second(s)	?
Screensaver	<input type="text" value="Enabled"/>		?
Timeout to Screensaver:	<input type="text" value="2h"/>		?
Customer Time Value:	<input type="text" value="7200"/>	(15~21600)second(s)	

---

**Power Saving**

Power Saving:	<input type="text" value="Enabled"/>	
Timeout to Power Saving:	<input type="text" value="14400"/>	(0~57600)second(s)

---

**UI Preference**

Display Logo on Screensaver:	<input checked="" type="checkbox"/>
Display Time on Screensaver:	<input checked="" type="checkbox"/>
Display Date on Screensaver:	<input checked="" type="checkbox"/>
Display SIP on Screensaver:	<input checked="" type="checkbox"/>
Display Icon on Screensaver:	<input checked="" type="checkbox"/>

**Picture 72 - Page screen Settings**

### 9.1.3.2 Screen Saver

- Press [**Screen Settings**] to find the [**Screen protection**] button, press the volume -(L)/+(R) buttons to open/close the screen protection, set the timeout time, the default is 2H, after completion, press [**OK**] key to save.
- After saving, return to standby mode and enter the screen saver after 2H, as follows:



**Picture 73 - Phone screen saver**



### 9.1.4 Ring

When the device is in the default standby mode,

- Enter the “#\*107” to enter the [Menu] , and use the volume -(L)/+(R)buttons to select [Basic] item.
- Enter [Basic] item till you find [Ring] item.
- Enter [Ring] item and you will find [Headset] or [Handsfree] item, press the volume -(L)/+(R)buttons to adjust the ring volume, save the adjustment by pressing [OK] when done.
- Enter [Ring type] item, use the volume -(L)/+(R)buttons to select to change the ring type, save the adjustment by pressing [OK] when done.

### 9.1.5 Voice Volume

When the device is in the default standby mode,

- Enter the “#\*107” to enter the [Menu] , and use the volume -(L)/+(R)buttons to select [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, and adjust the audio volume for different mode.
- Save the adjustment by pressing [OK] when done.

### 9.1.6 Greeting Words

When the device is in the default standby mode,

- Enter the [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.*

### 9.1.7 Reboot

When the device is in the default standby mode,

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

The phone is in standby mode,

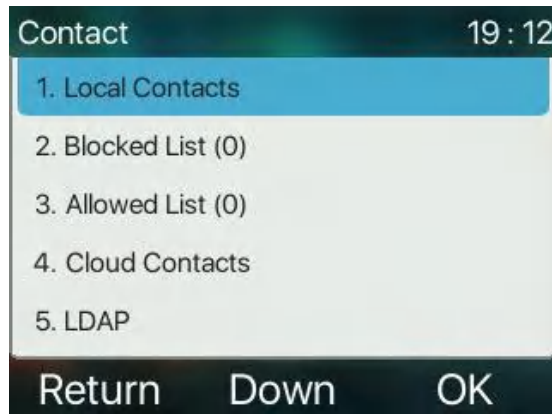
- The configurable [OK] key is the restart key. Press [OK], a prompt message, "restart now" prompts the user.
- Press [OK] to restart the phone or [Cancel] to exit.

## 9.2 Phone Book

### 9.2.1 Local Contact

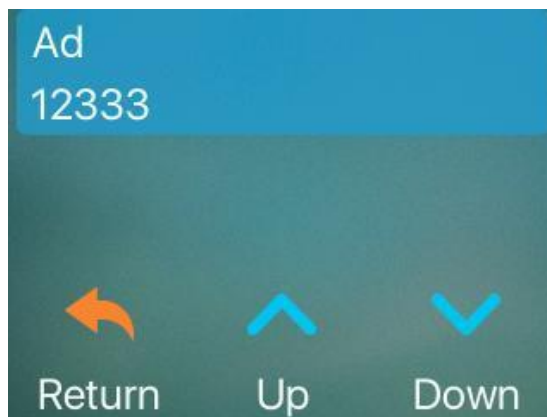
User can save contacts' information in the phone book and dial the contact's phone number(s) from the phone book((By pressing the hands-free button or lifting the handle). To open the phone book, user can press

soft-menu button [**Contact**] in the default standby screen or keypad.



**Picture 74 - Phone book screen**

**NOTICE!** The device can save up to total 1000 contact records.



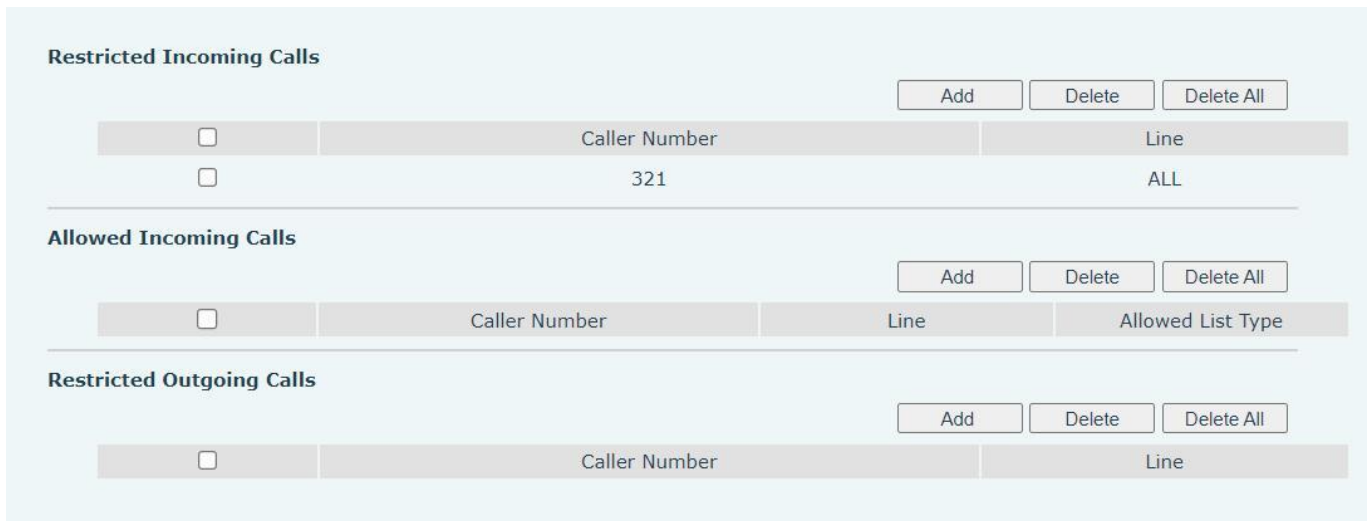
**Picture 75 - Local Phone book**

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 keys. The record indicator tells user which contact is currently focused.

### 9.2.2 Blocked List

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

- There are various ways to add number to the Blocked List 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 76 - Web Blocked List**

## 9.2.3 Cloud Phone Book

### 9.2.3.1 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] >> [PhoneBook] >> [Cloud Contacts] in phonebook screen.

**TIPS!** The first configuration on cloud phone should be completed on Web page by selecting [PhoneBook] >> [Cloud Contacts]. The setting of addition/deletion on device could be done after the first setting on Web page.



**Picture 77 - Cloud phone book list**

### 9.2.3.2 Downloading Cloud Phone book

In cloud phone book screen, user can open a cloud phone book by pressing [**Enter**] button. The device will start downloading the phone book. The user will be prompted with a warning message if downloading failed. 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 78 - Downloading Cloud Phone book**

## 9.3 Call Log

The device can store up to 1000 call log records and user can open the call logs to check all incoming, outgoing, and missed call records by pressing soft-menu button [**CallLog**].

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

Each call log record is presented with 'call type' and 'call party number / name'.



**Picture 79 - Call Log**

The types of call ringtones and corresponding icons can be divided into the following categories:

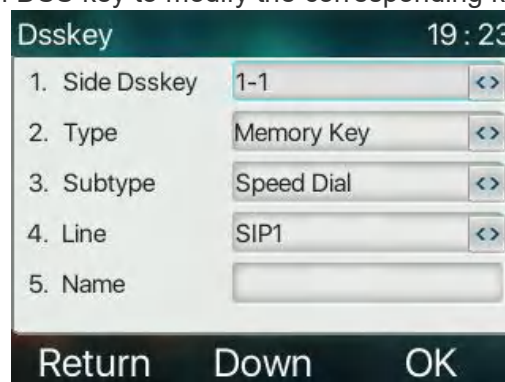
- Missed Call Logs
- Incoming Call Logs
- Outgoing Call Logs
- Forward Call Logs



**Picture 80 - Filter call record types**

## 9.4 Function Key

Users can configure speed dial key numbers or use them as customizable function keys quickly. In addition, the user can also long press each DSS key to modify the corresponding key Settings.



**Picture 81 - DSS LCD key Page Configuration Screen**

The DSS Key could be configured as followings,

- ◆ Memory Key
  - Speed Dial/Intercom/BLF/Presence/Call Park
- ◆ Line
- ◆ Key Event
  - MWI/DND/Hold/Phonebook/Redial/Pickup/Headset/ SMS/Release
- ◆ DTMF
- ◆ Action URL
- ◆ BLF List Key
- ◆ Multicast
- ◆ Action URL
- ◆ XML Browser

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

**Side Dsskey Settings**

Dsskey Long Press

Key	Type	Name	Value	Subtype	Line	Media	PickUp Number
F 1	Memory Key	<input type="text"/>	<input type="text"/>	Speed Dial	042@SIP1	DEFAULT	<input type="text"/>
F 2	Key Event	<input type="text"/>	<input type="text"/>	Call hold	AUTO	DEFAULT	<input type="text"/>
F 3	Memory Key	<input type="text"/>	<input type="text"/>	Speed Dial	042@SIP1	DEFAULT	<input type="text"/>
F 4	Memory Key	<input type="text"/>	<input type="text"/>	Speed Dial	042@SIP1	DEFAULT	<input type="text"/>

**Picture 82 - 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.

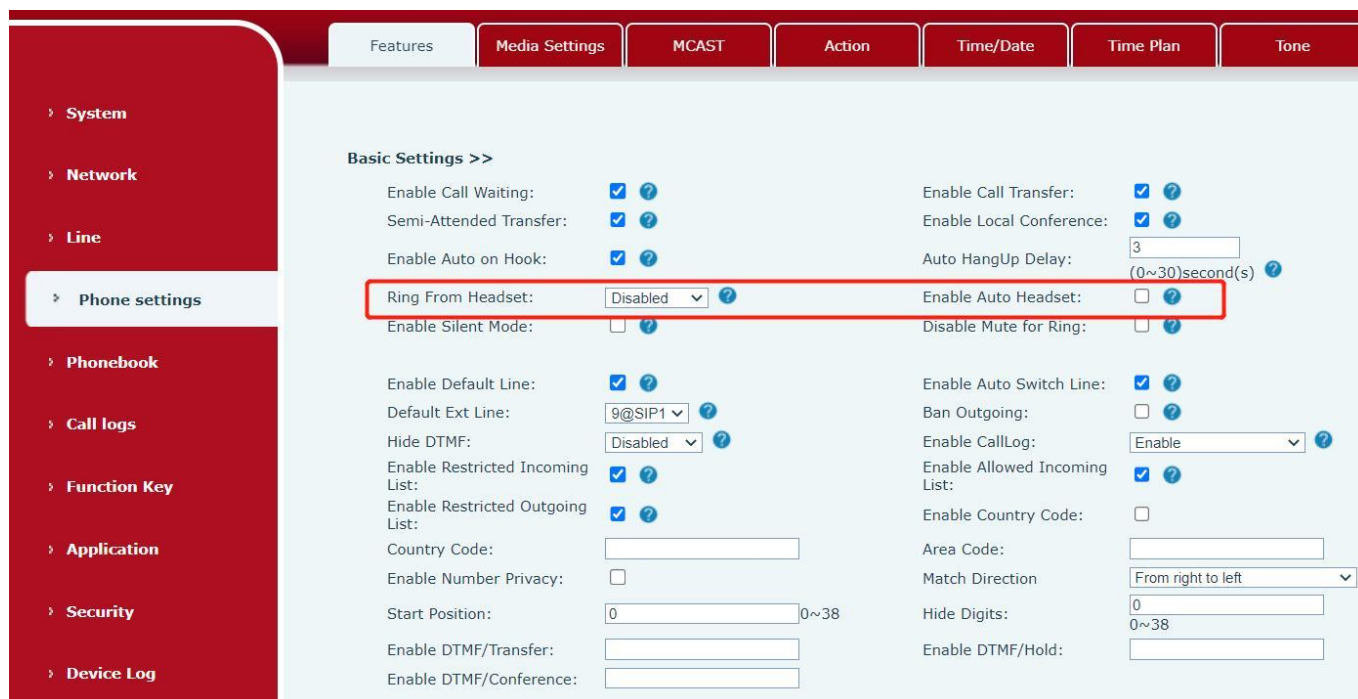
**NOTICE!** User-defined title is up to 10 characters.

More detailed information refers to [12.23 Function Key](#) and [6.3 Appendix III –LED Definition](#) .

## 9.5 Headset

### 9.5.1 Wired Headset

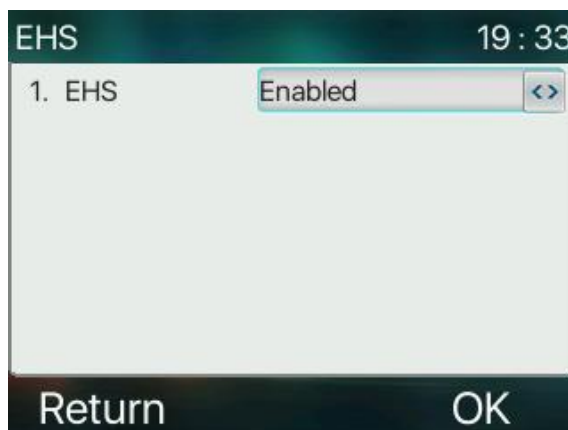
- The device supports wired Headset with RJ9 interface, which can play incoming call sound and talk with Headset.
- After the phone is connected to the headset, the default DSS key of headset will be green light which indicating that the headset can be used normally.
- On the webpage [**Phone settings**]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



**Picture 83 - Headset function settings**

## 9.5.2 EHS Headset

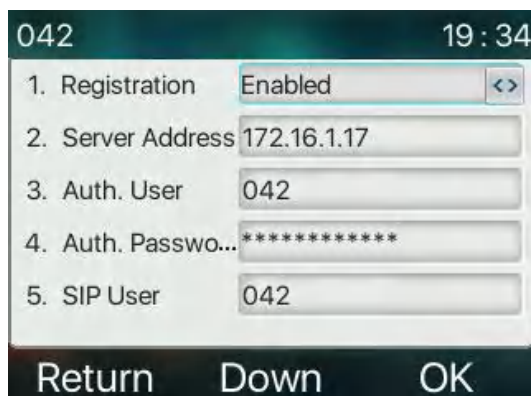
Phone into [Menu] >> [Features] >> [Advanced], Select [EHS Headset], can open EHS Headset (default closed EHS Headset).



**Picture 84 - EHS Headset setting**

## 9.6 Advanced

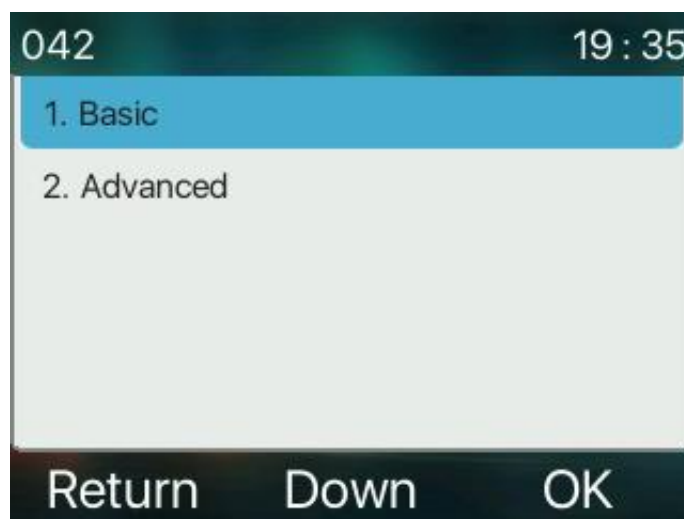
### 9.6.1 Line Configurations



**Picture 85 - SIP address and account information**

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

For users who want to configure more options, user should use web management portal to modify or Advanced Settings in accounts on the individual line to configure those options.



**Picture 86 - Configure Advanced Line Options**

### 9.6.2 Network Settings

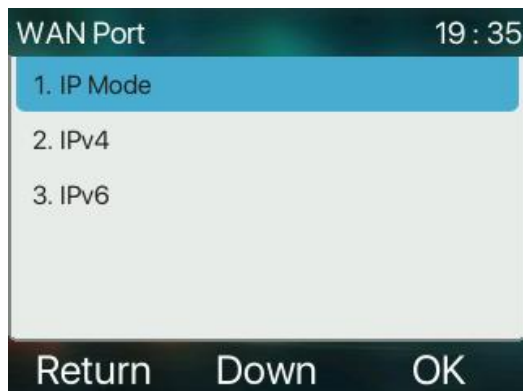
#### 9.6.2.1 Network Settings

##### ■ IP Mode

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

User could select available mode via “+” or “-”. The selected IP mode will be activated after pressing [**OK**] button.

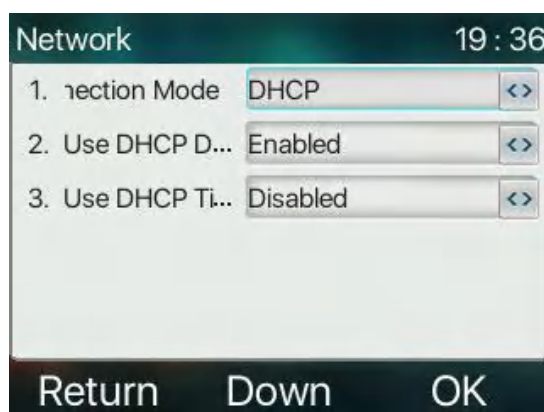




**Picture 87 - Network mode Settings**

■ **IPv4**

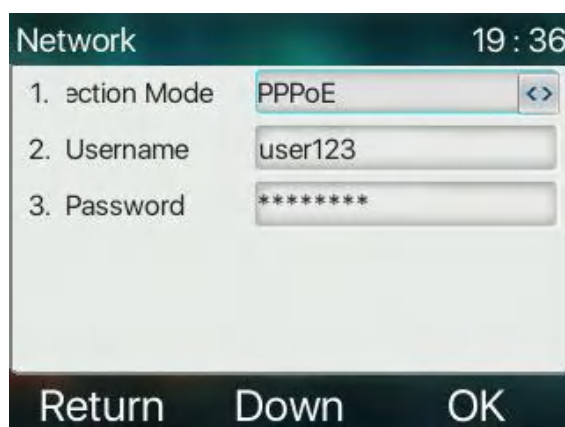
In IPv4 mode, there are 3 connection mode options: DHCP, PPPoE and Static IP.



**Picture 88 - DHCP network mode**

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

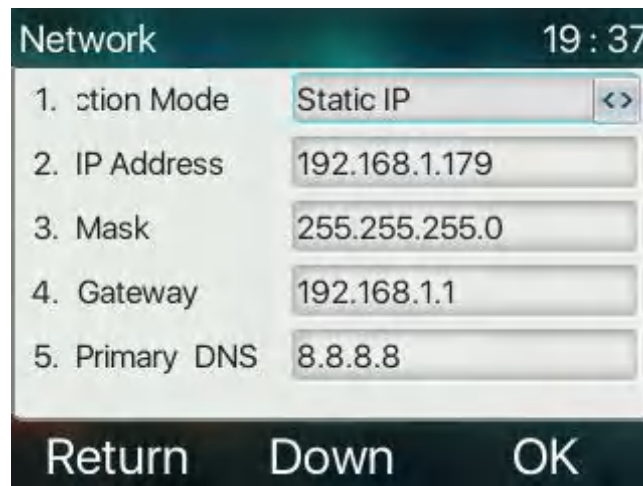
- Use DHCP DNS: It is enabled as default. “Enable” means phone will get DNS address from DHCP server and “disable” means not.
- Use DHCP time: It is disabled as default. “Enable” to manage the time of get DNS address from DHCP server and “disable” means not.



**Picture 89 - PPPoE network mode**

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

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



**Picture 90 - Static IP network mode**

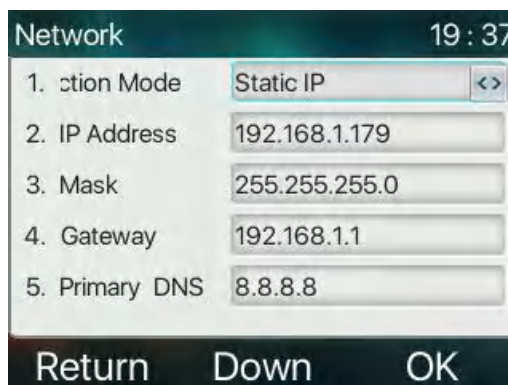
When using Static IP mode, user must configure the IP address manually.

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

#### ■ IPv6

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

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



**Picture 91 - IPv6 Static IP network mode**

### 9.6.2.2 QoS & VLAN

#### ■ LLDP

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

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

#### ■ CDP

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

**Table 15 - QoS & VLAN**

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

#### 9.6.2.3 VPN

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

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

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

#### ■ L2TP

**NOTICE! The device only supports non-encrypted basic authentication and non-encrypted data tunneling.**

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 some 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

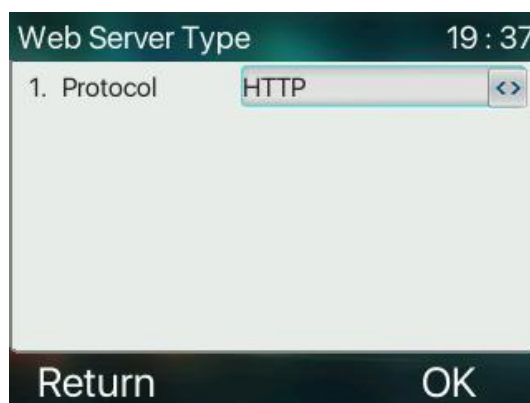
User then upload these files to the device in the web page [Network] >> [VPN], select OpenVPN Files. Then user should check “Enable VPN” and select “OpenVPN” in VPN Mode and click “Apply” to enable OpenVPN connection.

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

PH

### 9.6.2.4 Web Server Type

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

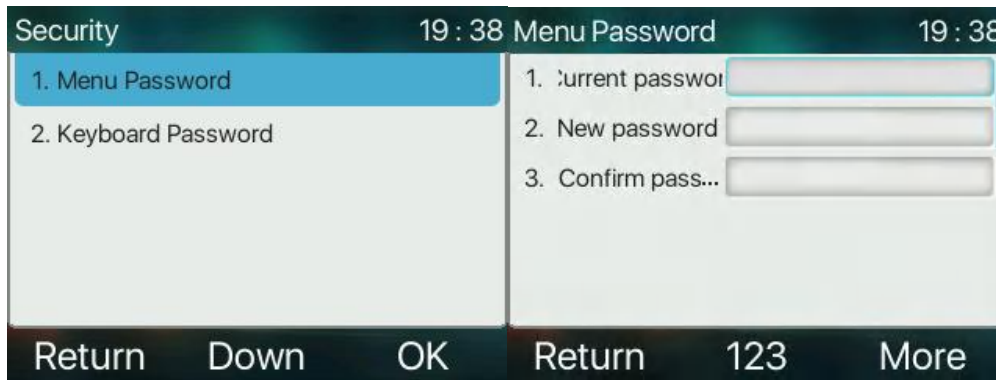


*Picture 92 - The phone configures the web server type*

### 9.6.3 Set The Secret Key

When the device is in the default standby mode,

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



**Picture 93 - Menu password**

Menu password is the permission for accessing the advanced setting.

- **[Current password]** is the password user configured before. If no configuration before, the default password is 123.
- **[New password]** is the new password user to use.
- The password takes effect immediately after the setting is completed, and the password is not displayed in plain text after input

The keyboard lock password is used to unlock the keyboard after the phone keyboard is locked



**Picture 94 - Keypad password**

- Select **[Keyboard password]** setting by pressing **[confirm]** or **[OK]** button after Keyboard password entered.
- If the password is correct, you will enter the keyboard lock status interface. The keyboard lock status is closed by default. You can select all the keys, the menu key, and the DSSkey key, and the timeout time can be set to take effect.
- If the timeout period is not set (the default is 0), you need to press and hold **[#]** on the standby interface, the phone will lock the keyboard, and there will be a lock icon on the top of the phone. Pressing any key at this time will prompt for a password.

### Keyboard Lock Settings

Keyboard Password:

Keyboard Time:

Keyboard Lock Type:

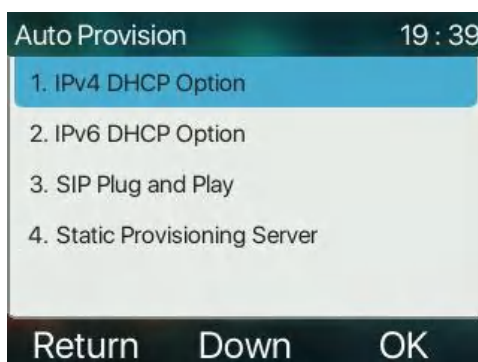
**Picture 95 - Web keyboard lock password Settings**

## 9.6.4 Maintenance

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

**Picture 96 - Page auto provision Settings**

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



**Picture 97 - 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

Details refer to **Fanvil Auto Provision in**

**Table 14 - Auto Provision**

Parameters	Description
<b>Basic settings</b>	
CPE Serial Number	Display the device SN
Authentication Name	The user name of provision server
Authentication Password	The password of provision server
Configuration File Encryption Key	If the device configuration file is encrypted , user should add the encryption key here
General Configuration File Encryption Key	If the common configuration file is encrypted, user should add the encryption key here
Download Fail Check Times	If 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.
<b>DHCP Option</b>	
Option Value	Configre 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.
<b>SIP Plug and Play (PnP)</b>	
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.
<b>Static Provisioning Server</b>	
Server Address	Provisioning server address. Support both IP address and domain address.
Configuration File Name	The configuration file name. If it is empty, phone will request the common file and device file which is named as its MAC address. The file name could be a common name, \$mac.cfg, \$input.cfg. The file format supports CFG/TXT/XML.
Protocol Type	Transferring protocol type , supports FTP、TFTP、HTTP and HTTPS
Update Interval	Configuration file update interval time. As default it is 1, means phone will check the update every 1 hour.
Update Mode	Provision Mode. 1. Disabled. 2. Update after reboot. 3. Update after interval.
<b>TR069</b>	
Enable TR069	Enable TR069 after selection
ACS Server Type	There are 2 options Serve type, common and CTC.
ACS Server URL	ACS server address
ACS User	ACS server username (up to is 59 character)
ACS Password	ACS server password (up to is 59 character)
Enable TR069 Warning Tone	If TR069 is enabled, there will be a prompt tone when connecting.
TLS Version	TLS version (TLS 1.0, TLS 1.1, TLS 1.2)
INFORM Sending Period	INFORM signal interval time. It ranges from 1s to 999s
STUN Server Address	Configure STUN server address
STUN Enable	To enable STUN server for TR069

### 9.6.5 Firmware Upgrade

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



**Software upgrade** ?

Current Software Version: 0.0.4

System Image File:

---

**Upgrade Server**

Enable Auto Upgrade:

Upgrade Server Address1:

Upgrade Server Address2:

Update Interval:  Hour(s)

---

**Firmware Information**

Current Software Version: 0.0.4

Server Firmware Version:

New Firmware Information:

**Picture 98 - Web page firmware upgrade**

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



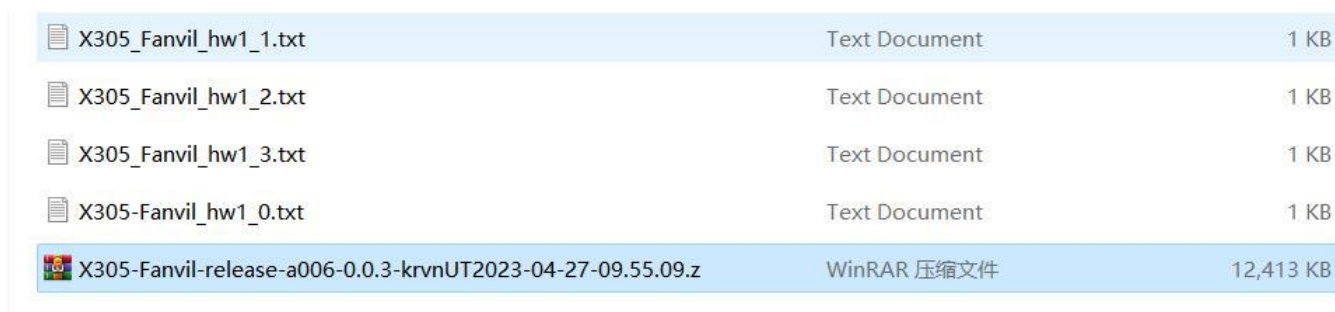
**Picture 99 - Firmware upgrade information display**

**Table 15 - Firmware upgrade**

Parameter	Description
<b>Upgrade server</b>	
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.
<b>Firmware Information</b>	

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\_hw10.txt.Hw followed by the hardware version number, it will be written as hw10 if no difference on hardware. All Spaces in the filename are replaced by underline.
- The URL requested by the phone is HTTP:// server address/vendor\_Model\_hw10.txt: The new version and the requested file should be placed in the download directory of the HTTP server, as shown in the figure:



- TXT file format must be UTF-8
- vendor\_model\_hw10.TXT The file format is as follows:  
Version=0.0.4 #Firmware  
Firmware=xxx/xxx.z #URL, Relative paths are supported and absolute paths are possible, distinguished by the presence of protocol headers.  
BuildTime=2023.05.11 20:00  
Info=TXT|XML

Xxxxx  
Xxxxx  
Xxxxx  
Xxxxx

- After the interval of update cycle arrives, if the server has available files and versions, Click [view] to check the version information and upgrade.

## 9.6.6 Factory Reset

The phone is in default standby mode.

method one:

- Press **[Menu]** to find **[System]**, and press **[OK]**.
- Press **[System]** to enter the password (default password is 123) to enter the interface.
- Press the **[Restore factory Settings]** button to select the file to be cleared.
- Press **[OK]** to clear after completion. When you select clear configuration file and clear all, the phone will restart automatically after clearing.

## 10 Web Configurations

---

### 10.1 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.

### 10.2 System >> Information

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

- Model
- Hardware Version
- Software Version
- Uptime

And summarization of network status,

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

Besides, summarization of SIP account status,

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

### 10.3 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.

### 10.4 System >> Configurations

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

#### ■ Clear Configurations

Select the module in the configuration file to clear.

SIP: account configuration.

AUTOPROVISION: automatically upgrades the configuration

TR069:TR069 related configuration

MMI: MMI module, including authentication user information, web access protocol, etc.

DSS Key: DSS Key configuration

- **Clear Tables**

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

- **Reset Phone**

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

## 10.5 System >> Upgrade

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

## 10.6 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](#).

## 10.7 System >> Tools

Tools provided in this page help users to identify issues at trouble shooting. Please refer to [13 Trouble Shooting](#) for more detail.

## 10.8 System >> Reboot Phone

This page can restart the phone.

## 11 Network >> Basic

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

### 11.1 Network >> Service Port

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

**Service Port Settings** ⓘ

Web Server Type: HTTP ▾

Web Logon Timeout: 15 (10~30)Minute

web auto login:

HTTP Port: 80

HTTPS Port: 443

RTP Port Range Start: 10000 (1025~65530)

RTP Port Quantity : 1000 (10~1000)

Apply

**Picture 100 - Service Port Settings**

**Table 16 - Service port**

Parameters	Description
Web Server Type	Reboot to take effect after settings. Optionally, the web page login is HTTP/HTTPS.
Web Logon Timeout	Default as 15 minutes, the timeout will automatically exit the login page, need to login again.
Web auto login	After the timeout does not need to enter a user name password, will automatically login to the web page.
HTTP Port	The default is 80. If you want system security, you can set ports other than 80. Such as :8080, webpage login: HTTP://ip:8080
HTTPS Port	The default is 443, the same as the HTTP port.
RTP Port Range Start	The value range is 1025 to 65530. The value of RTP port starts from the initial value set. For each call, the value of voice and video port is added 2.
RTP Port Quantity	The value range is 10 to 1000. Number of calls.

## 11.2 Network >> VPN

Users can configure a VPN connection on this page. See [10.6.2.3 VPN](#) for more details.

## 11.3 Network >> Advanced

Advanced network Settings are typically configured by the IT administrator to improve the quality of the phone service. For configuration, query the [10.6 advanced](#) Settings.

## 11.4 Line >> SIP

Configure the Line service configuration on this page.

**Table 17 - Line configuration on the web page**

Parameters	Description
<b>Register Settings</b>	
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.
<b>SIP Server 1</b>	
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.
<b>SIP Server 2</b>	
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.
<b>Basic Settings</b>	
Enable Auto Answering	Enable auto-answering, the incoming calls will be answered automatically after the delay time
Auto Answering Delay	Set the delay for incoming call before the system automatically answered it
Call Forward Unconditional	Enable unconditional call forward, all incoming calls will be forwarded to the number specified in the next field
Call Forward Number for Unconditional	Set the number of unconditional call forward
Call Forward on Busy	Enable call forward on busy, when the phone is busy, any incoming call will be forwarded to the number specified in the next field.
Call Forward Number for Busy	Set the number of call forward on busy .
Call Forward on No Answer	Enable call forward on no answer, when an incoming call is not answered within the configured delay time, the call will be forwarded to the number specified in the next field.
Call Forward Number for No Answer	Set the number of call forward on no answer.
Call Forward Delay for No Answer	Set the delay time of not answered call before being forwarded.
Transfer Timeout	Set the timeout of call transfer process.
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	Enable hotline configuration, the device will dial to the specific number immediately at audio channel opened by off-hook handset or turn on hands-free speaker or headset
Hotline Delay	Set the delay for hotline before the system automatically dialed it
Hotline Number	Set the hotline dialing number
Dial Without Registered	Set call out by proxy without registration
Enable Missed Call Log	If enabled, the phone will save missed calls into the call history record.
DTMF Type	Set the DTMF type to be used for the line



DTMF SIP INFO Mode	Set the SIP INFO mode to send '*' and '#' or '10' and '11'
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.
<b>Codecs Settings</b>	Set the priority and availability of the codecs by adding or remove them from the list.
<b>Video Codecs</b>	Select video code to preview video.
<b>Advanced Settings</b>	
Use Feature Code	When this setting is enabled, the features in this section will not be handled by the device itself but by the server instead. In order to control the enabling of the features, the device will send feature code to the server by dialing the number specified in each feature code field.
Enable DND	Set the feature code to dial to the server
Disable DND	Set the feature code to dial to the server
Enable Call Forward Unconditional	Set the feature code to dial to the server
Disable Call Forward Unconditional	Set the feature code to dial to the server
Enable Call Forward on Busy	Set the feature code to dial to the server
Disable Call Forward on Busy	Set the feature code to dial to the server
Enable Call Forward on No Answer	Set the feature code to dial to the server
Disable Call Forward on No Answer	Set the feature code to dial to the server
Enable Blocking	Set the feature code to dial to the server

Anonymous Call	
Disable Blocking Anonymous Call	Set the feature code to dial to the server
Call Waiting On Code	Set the feature code to dial to the server
Call Waiting Off Code	Set the feature code to dial to the server
Send Anonymous On Code	Set the feature code to dial to the server
Send Anonymous Off Code	Set the feature code to dial to the server
SIP Encryption	Enable SIP encryption such that SIP transmission will be encrypted
RTP Encryption	Enable RTP encryption such that RTP transmission will be encrypted
Enable Session Timer	Set the line to enable call ending by session timer refreshment. The call session will be ended if there is not new session timer event update received after the timeout period
Session Timeout	Set the session timer timeout period
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
Enable Inactive Hold	With the post-call hold capture package enabled, you can see that in the INVITE package, SDP is inactive.
Caller ID Header	Set the Caller ID Header
Use 182 Response for Call waiting	Set the device to use 182 response code at call waiting response
Enable Feature Sync	Feature Sync with server
Enable SCA	Enable/Disable SCA (Shared Call Appearance )
Server Expire	Set the timeout to use the server.
TLS Version	Choose TLS Version.
uaCSTA Number	Set uaCSTA Number.
Enable Click To Talk	With the use of special server, click to call out directly after enabling.
Flash mode	Chose Flash mode, normal or SIP info.
Flash Info Content-Type	Set the SIP info content type.
Flash Info Content-Body	Set the SIP info content body.
PickUp Number	Set the scramble number when the Pickup is enabled.
JoinCall Number	Set JoinCall Number.
Intercom Number	Set Intercom Number.
Unregister On Boot	Whether to enable logout function.
Enable MAC Header	Whether to open the registration of SIP package with user agent with MAC or not.
Enable Register MAC Header	Whether to open the registration is user agent with MAC or not.
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.

## 11.5 Line >> SIP Hotspot

Please refer to [9.9 SIP Hotspot](#).

## 11.6 Line >> Dial Plan

**Basic Settings**

- Press # to invoke dialing
- Dial Fixed Length  to Send
- Send after  second(s)(3~30)
- Press # to Do Blind Transfer
- Blind Transfer on Onhook
- Attended Transfer on Onhook
- Attended Transfer on Conference Onhook
- Enable E.164

**Picture 101 - Dial plan settings**

**Table 18 - Phone 7 dialing methods**

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

**Add dialing rules:**

**Dial Plan Add**

Digit Map:

Apply to Call:

Match to Send:

Line:

Destination:

Port:

Alias(Optional):

Phone Number:

Length:

Suffix:

**Picture 102 - Custom setting of dial - up rules**

**Table 19 - Dial - up rule configuration table**

Parameters	Description
Dial rule	There are two types of matching: Full Matching or Prefix Matching. In Full matching, the entire phone number is entered and then mapped per the Dial Peer rules. In prefix matching, only part of the number is entered followed by T. The mapping with then take place whenever these digits are dialed. Prefix mode supports a maximum of 30 digits.
<p>Note: Two different special characters are used.</p> <ul style="list-style-type: none"> <li>■ x -- Matches any single digit that is dialed.</li> <li>■ [ ] -- 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.</li> </ul>	
Destination	Set Destination address. This is for IP direct.
Port	Set the Signal port, and the default is 5060 for SIP.
Alias	Set the Alias. This is the text to be added, replaced or deleted. It is an optional item.
<p>Note: There are four types of aliases.</p> <ul style="list-style-type: none"> <li>■ all: xxx – xxx will replace the phone number.</li> <li>■ add: xxx – xxx will be dialed before any phone number.</li> <li>■ del –The characters will be deleted from the phone number.</li> <li>■ rep: xxx – xxx will be substituted for the specified characters.</li> </ul>	
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 is desired to place a direct IP call to IP address 172.168.2.208. Using this feature, 123 can be substituted for 172.168.2.208.

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

**Picture 103 - Dial rules table (1)**

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

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

**Picture 104 - Dial rules table (2)**

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

x -- Matches any single digit that is dialed.

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

## 11.7 Line >> Action Plan

Action plan: 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 execute an action, which is completed according to a plan rule.

Log in to the phone web, visit [Line] > [Action plan], and configure action plan rules.

**Action Plan Add**

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

**Picture 105 - Action Plan**

**Table 20 - Action Plan**

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

## 11.8 Line >> Basic Settings

Set up the register global configuration.

**Table 21 - Set the line global configuration on the web page**

Parameters	Description
<b>STUN Settings</b>	
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
<b>The TLS authentication</b>	
TLS Certification File	Upload or delete the TLS certification file used for encrypted SIP transmission.

## 11.9 Line>>RTCP-XR

**Table 22 - RTCP-XR**

Parameters	Description
VQ RTCP-XR Settings	
VQ RTCP-XR Session Report:	Enable VQ RTCP-XR Session Report.
VQ RTCP-XR Interval Report	Set the Interval of Session Report.
Period for Interval Report	Valid values range from 5 to 99,the default value is 60.
Warning threshold for Moslq	Valid values range from 15 to 40,the default value is 25.
Critical threshold for Moslq	Valid values range from 15 to 40,the default value is 25.
Warning threshold for Delay	Valid values range from 10 to 2000,the default value is 150.
Critical threshold for Delay(10~2000)	Valid values range from 10 to 2000,the default value is 200.
Display Report options on phone	It is enabled by default.
Display Report options on Web	It is enabled by default.



## 11.10 Phone settings >> Features

Configuration phone features.

**Table 23 - General function Settings**

Parameters	Description
<b>Basic Settings</b>	
Enable Auto Onhook	The phone will hang up and return to the idle automatically at hands-free mode
Auto Onhook Time	Specify Auto Onhook time, the phone will hang up and return to the idle automatically after Auto Hand down time at hands-free mode, and play dial tone Auto Onhook time at handset mode
Ring for Headset	Enable Ring for Handset by selecting it, the phone plays ring tone from handset.
Auto Headset	Enable this feature, headset plugged in the phone, user press 'answer' key 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.
Allow IP Call	If enabled, user can dial out with IP address
P2P IP Prefix	Prefix a point-to-point IP call.
Caller Name Priority	Change caller ID display priority.
Emergency Call Number	Set Emergency Call Number
Search path	Select the search path.
LDAP Search	Select from with one LDAP for search
Emergency Call Number	Configure the Emergency Call Number. Despite the keyboard is locked, you can dial the emergency call number
Restrict Active URI Source IP	Set the device to accept Active URI command from specific IP address.
Push XML Server	Configure the Push XML Server, when phone receives request, it will determine whether to display corresponding content on the phone which sent by the specified server or not.
Enable Pre-Dial	Disable this feature, user enter number will open audio channel automatically. Enable the feature, user enter the number without opening audio channel.
Enable Multi Line	If enabled, up to 10 simultaneous calls can exist on the phone, and if disabled, up to 2 simultaneous calls can exist on the phone.
Line Display Format	Custom line format: SIPn/SIPn: xxx/xxx@SIPn
Contact As Allowed 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.
<b>Tone Settings</b>	
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.
<b>DND Settings</b>	
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
<b>Intercom Settings</b>	
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
<b>Response Code Settings</b>	
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
<b>Password Dial Settings</b>	
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
<b>Power LED</b>	
Common	Standby power lamp state, off when off, open is always bright red. Off by default.
SMS/MWI	The status of power lamp when there is unread short message/voice message, including off/on/slow flash/quick flash, default slow flash.
Missed	The state of the power lamp when there is a missed call, including off/on/slow flash/quick flash, the default slow flash.
Talk/Dial	In the talk/dial state, the power lamp state, off is off, on is always red bright, the default is off.
Ringing	Power lamp status when there is an incoming call, including off/on/slow flash/quick flash, default flash.
Mute	Power lamp status in mute mode, including off/on/slow flash/quick flash, off by default.
Hold/Held	The power lamp state, including off/on/slow flash/quick flash, is turned off by default when left/retained.
<b>Notification Popups</b>	
Display Missed Call Popup	No incoming call popup prompt after opening, no popup prompt when closing, open by default.

Display Voice Mail Popup	Voice Mail 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.

## 11.11 Phone settings >> Media Settings

Change voice Settings.

**Table 24 - Voice settings**

Parameters	Description
Codecs Settings	Select enable or disable voice encoding: G.711A/U, G.722, G.729AB, G726, ILBC, opus,G723.1
<b>Audio Settings</b>	
Handset Volume	Set the Handset volume, the value must be 1~9
Default Ring Type	Configure default ringtones. If no special ringtone is set for the phone number, the default ringtone will be used.
Speakerphone Volume	Set the hands-free volume to 1-9.
Headset Ring Volume	Set the volume of the Headset ringtone to 1~9.
Headset Volume	Set the volume of the headset to 1~9.
Speakerphone Ring Volume	Set the volume of hands-free ringtone to 1~9.
G.723.1 Bit Rate	5.3kb/s or 6.3kb/s is available.
DTMF Payload Type	Enter the DTMF payload type, the value must be 96~127.
Headset Mic Gain	Set the Headset's radio volume gain to fit different models of Headsets.
Opus payload type	Set Opus load type, range 96~127.
OPUS Sample Rate	Set Opus sampling rate, including opus-nb (8KHz) and opus-wb (16KHz).
ILBC Payload Type	Set the ILBC Payload Type, the value must be 96~127.
ILBC Payload Length	Set the ILBC Payload Length
Enable MWI Tone	When there is a new voice message message, the phone will start a special dial tone.
Enable VAD	Whether voice activity detection is enabled.
Onhook Time	Configure a minimum response time, which defaults to 200ms
EHS Type	EHS headset is available after enabling.
<b>RTP Control Protocol(RTCP) Settings</b>	
CNAME user	Set CNAME user

CNAME host	Set CNAME host
<b>RTP Settings</b>	
RTP keep alive	Hold the call and send the packet after 30s
<b>Alert Info Ring Settings</b>	
Value	Set the value to specify the ring type.
Ring Type	Type1-Type9

## 11.12 Phone settings >> MCAST

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

**Table 25 - Multicast parameters**

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

## 11.13 Phone settings >> Action

### Action URL

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

## 11.14 Phone settings >> Time/Date

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

**Table 26 - Time&Date settings**

Parameters	Description
<b>Network Time Server Settings</b>	
Time Synchronized via SNTP	Enable time-sync through SNTP protocol
Time Synchronized via DHCP	Enable time-sync through DHCP protocol
Primary Time Server	Set primary time server address
Secondary Time Server	Set secondary time server address, when primary server is not reachable, the device will try to connect to secondary time server to get

	time synchronization.
Time Zone	Select the time zone
Resync Period	Time of re-synchronization with time server
12-Hour Clock	Set the time display in 12-hour mode
Date Format	Select the time/date display format
<b>Daylight Saving Time Settings</b>	
Local	Choose your local, phone will set daylight saving time automatically based on the local
DST Set Type	Choose DST Set Type, if Manual, you need to set the start time and end time.
Fixed Type	Daylight saving time rules are based on specific dates or relative rule dates for conversion. Display in read-only mode in automatic mode.
Offset	The offset minutes when DST started
Month Start	The DST start month
Week Start	The DST start week
Weekday Start	The DST start weekday
Hour Start	The DST start hour
Minute Start	The DST start minute
Month End	The DST end month
Week End	The DST end week
Weekday End	The DST end weekday
Hour End	The DST end hour
Minute End	The DST end minute
<b>Manual Time Settings</b>	You can set your time manually

## 11.15 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.

**Tone Settings**

Select Your Tone:	United States
Dial Tone:	350+440/0
Ring Back Tone:	440+480/2000,0/4000
Busy Tone:	480+620/500,0/500
Congestion Tone:	
Call waiting Tone:	425/100,0/100,425/100,0/9700,425/100,0/100,425/100,0/30000
Holding Tone:	
Error Tone:	
Stutter Tone:	
Information Tone:	
Dial Recall Tone:	350+440/100,0/100,350+440/100,0/100,350+440/100,0/100,350+440/0
Message Tone:	
Howler Tone:	
Number Unobtainable Tone:	400/500,0/6000
Warning Tone:	1400/500,0/0
Record Tone:	440/500,0/5000
Auto Answer Tone:	

**Picture 106 - Tone settings on the web**

## 11.16 Phone settings >> Advanced

User can configure the advanced configuration settings in this page.

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

The password is 123 by default.

- Keyboard Lock Settings.
- Configure Greeting Words

The greeting message will display on the top left corner of the LCD when the device is idle, which is limited to 12 characters. The default chars are 'VoIP Phone'.

Note: The welcome message can only be displayed in the upper left corner of standby mode when the default line selection function is disabled (the default line can be turned off in the menu>>functions>>general interface).

## 11.17 Phonebook >> Contact

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

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

To edit a contact, click on the checkbox in front of the contact, the contact information will be copied to the

contact edit boxes, press “Modify” button after finished editing.

To delete one or multiple contacts, check on the checkbox in front of the contacts wished to be deleted and click the “Delete” button, or click the “Clear” button with selecting any contacts to clear the phonebook.

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

Similarly, user can select multiple users and add them into Blocked List by click “Add to Blocked List” button.

## 11.18 Phonebook >> Cloud phonebook

### Cloud Phonebook

User can configure up to 4 cloud phonebooks. Each cloud phonebook must be configured with an URL where an XML phonebook is stored. The URL may be based on HTTP/HTTPS or FTP protocol with or without authentication. If authentication is required, user must configure the username and password.

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

- Phonebook name (must)
- Phonebook URL (must)
- Access username (optional)
- Access password (optional)

### LDAP Settings

The cloud phonebook allows user to retrieve contact list from a LDAP Server through LDAP protocols.

User must configure the LDAP Server information and Search Base to be able to use it on the device. If the LDAP server requests an authentication, user should also provide username and password.

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

- Display Title (must)
- LDAP Server Address (must)
- LDAP Server Port (must)
- Search Base (must)
- Access username (optional)
- Access password (optional)

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

Web page preview

Phone page supports preview of Internet phone directory and contacts

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



**Cloud phonebook**

XML

**Page:**

<input type="checkbox"/>	Index	Name	Phone	Phone1	Phone2

10  Entries per page

**Manage Cloud Phonebooks**

Index	Cloud phonebook name	Cloud phonebook URL	Calling Line	Search Line	Phonebook Type	Authentication Name	Authentication Password
1	11	http://172.16.7.49:8080/	AU <input type="button" value="v"/>	AU <input type="button" value="v"/>	XML <input type="button" value="v"/>		
2			AU <input type="button" value="v"/>	AU <input type="button" value="v"/>	XML <input type="button" value="v"/>		
3			AU <input type="button" value="v"/>	AU <input type="button" value="v"/>	XML <input type="button" value="v"/>		
4			AU <input type="button" value="v"/>	AU <input type="button" value="v"/>	XML <input type="button" value="v"/>		

---

**Import XML Contact**

Select File:

---

**Business Card Settings**

Display Business Card Popup:

Display Attribute:

**Picture 107 - Web cloud phone book Settings**

## 11.19 Phonebook >> Call List

■ **Restricted Incoming Calls:**

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

Users can add specific Numbers to the Blocked List or add specific prefixes to the Blocked List to block calls with all Numbers with this prefix.

■ **Allowed Incoming Calls:**

When 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.

## 11.20 Phonebook >> Web Dial

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

## 11.21 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.

## 11.22 CallLog

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

The user can also save the number in the call record to his/her phone book or add it to the Blocked List/Allowed List

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.

## 11.23 Function Key >> Side Key

Dsskey Long Press: Disable、Edit

The device provides 5 user-defined shortcuts that users can configure on a web page.

**Table 27 - Function Key configuration**

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

Multicast	Configure the multicast address and audio codec. User presses the key to initiate the multicast.
Action URL	The user can use a specific URL to make basic calls to the phone.
XML browser	Users can set the DSS Key for specific URL download and other operations.

## 11.24 Function Key >> Softkey

The User Settings mode and display style, display page.

**Table 28 - Softkey configuration**

Parameter	Description
<b>Softkey Mode</b>	
Softkey mode	Disabled and More, Default is Disabled
<b>Softkey Style</b>	
Softkey display style	Softkey Exit on Left or Right
Screen	
Call Dialer	Redial/2aB/Delete/Exit/Call Back/Dial/MWI/Local Contacts/Pickup/CallLog/Missed/Clear/In/Dialed/Pause/Headset/Audio/Remote XML/DSS Key
Conference	Hold/Split/End/Release/Mute/DSS Key/Headset
Desktop	CallLog/Menu/Local Contacts/DND/Prev Account/Next Account/Blocked List/Call Back/CallForward/Locked/Memo/Missed/MWI/Dialed/Reboot/Redial/Remote XML/SMS/Headset/Status/DSS Key/In
Divert Dialed	Redial/2aB/Delete/Exit/Forward/Local Contacts/CallLog /Clear/Missed/Dialed/Headset/Video/Audio/Remote XML /DSS Key
Ending	Redial/End/Headset/Release/DSS Key
Predictive Dialer	Dial/2aB/Delete/Exit/Call Back/Local Contacts/Redial /Pickup/MWI/Join/CallLog/Release/Missed/Pause/Dialed/Headset/Video/Audio/Remote XML/DSS Key/In
Ringing	Answer/Forward/Reject/Mute/Release/Headset/Video/Audio/DSS key
Talking	Hold/End/Mute/Release/Local Contacts/Listen/CallLog Private/Headset/Audio/DSS Key
Trying	End/Release/Headset/DSS Key
Waiting	Hold/End/Answer/Forward/Mute/New cal/Reject/Release/Headset/Listen/Audio/DSS Key

## 11.25 Function Key >> Wireless Key

Delete
Delete All

<input type="checkbox"/>	Index	Name	Addr ID	Type	Subtype	Value	Pairing Status	Operation
<input type="checkbox"/>	1	Visiting	000052c8	Ring	WirelessRing.wr		Paired	Disconnect
<input type="checkbox"/>	2			None	AUTO			Binding
<input type="checkbox"/>	3			None	AUTO			Binding
<input type="checkbox"/>	4			None	AUTO			Binding
<input type="checkbox"/>	5			None	AUTO			Binding
<input type="checkbox"/>	6			None	AUTO			Binding
<input type="checkbox"/>	7			None	AUTO			Binding
<input type="checkbox"/>	8			None	AUTO			Binding
<input type="checkbox"/>	9			None	AUTO			Binding
<input type="checkbox"/>	10			None	AUTO			Binding

*picture 108 - Wireless Key*

*Table 29 - Wireless Key Settings*

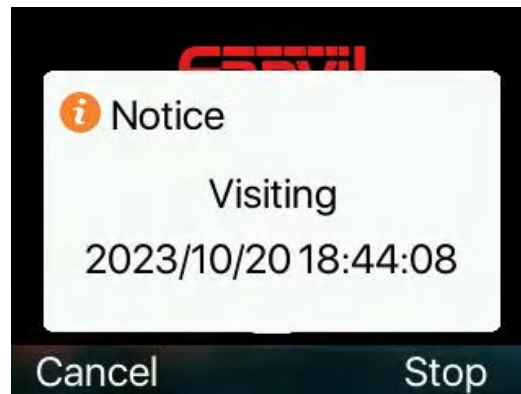
Parameters	Description
Index	The serial number of the added wireless button
Name	You can set specific names for different wireless buttons
Addr id	Unique identification id of the wireless button, the addrid of each wireless button is unique (ID is displayed in hexadecimal, only numbers and letters are supported, special characters are not supported)
Type	Select the function type of the wireless button, the functions include: Dial number, Ring
Subtype	When call is selected for Type, the subtype displays the Line selection; When select ring, the subtype displays the Ringtone selection item.
Value	When select Dial number,the subtype display of line selection;
Pairing Status	Displays the pairing status, including pairing, pairing, and disconnecting
Operation	To bind or disconnect the button

■ pairing method:

**Manual input addr ID method**

- Login to the IP address of the device and enter the **[Function key]** >> **[Wireless key]** module to add a new wireless key operation
- When adding a new key, the user needs to fill in the new name, addr id (a unique identifier to distinguish different keys), type, subtype, and value (optional). After filling in, click Bind or Submit, then the device will be paired with the device with this addr id. If the status shows paired, it means the new

button is successfully added.



**Picture 109 - Wireless button ringing pop-up**

### Auto-scan addr ID method

- Log in the IP address of the device and go to [Function key] >> [Wireless key]
- Add a new key: Click Bind in the key list, and the device will enter the pairing state. Open the wireless key and press it. The pairing state of the device web page changes to paired and the addr id of the key is displayed. Indicates successful pairing.

If the pairing fails after pressing the button once, you can try to press the wireless button several times to avoid the pairing failure due to information loss

- After successful pairing, the user can fill in the name, type, subtype and value (optional) of the selected new button, and click Submit to save the settings after completion.



**Picture 110 - Wireless key dialing**

## 11.26 Function Key >> Advanced

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

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

## ■ Global Key Settings

**Global Key Settings**

Select MemoryKey Action: None ?      Display Parked Info: Display Blank ▼

Apply

---

**Programmable Key Settings**

Key	Name	Value	Subtype	Line	Media
HELP	<input type="text"/>	<input type="text"/>	<span>Speed Dial</span> <span>▼</span>	<span>AUTO</span> <span>▼</span>	<span>DEFAULT</span> <span>▼</span>

Apply

**Picture 111 - Global Key Settings**

## ■ Programmable key Settings

The HELP button is a speed dial button that can be configured with a speed dial number name [name] and a number [value]. After pressing it, the corresponding number can be quickly called out

*Note: When a one-way call is in progress, pressing the HELP button will hang up the current call and call out the configuration number*

## 11.27 Application >> Manage Recording

See [9.3 Record](#) for details of recording.

## 11.28 Security >> Web Filter

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

**Web Filter Table** ?

Start IP Address	End IP Address	Option
------------------	----------------	--------

---

**Web Filter Table Settings**

Start IP Address  ?      End IP Address  ?      Add

---

**Web Filter Setting** ?

Enable Web Filter       Apply

**Picture 112 - Web Filter settings**



**Picture 113 - Web Filter Table**

Add and remove IP segments that 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. When deleting, select the initial IP of the network segment to be deleted from the drop-down menu, and then click **[Delete]** to take effect.

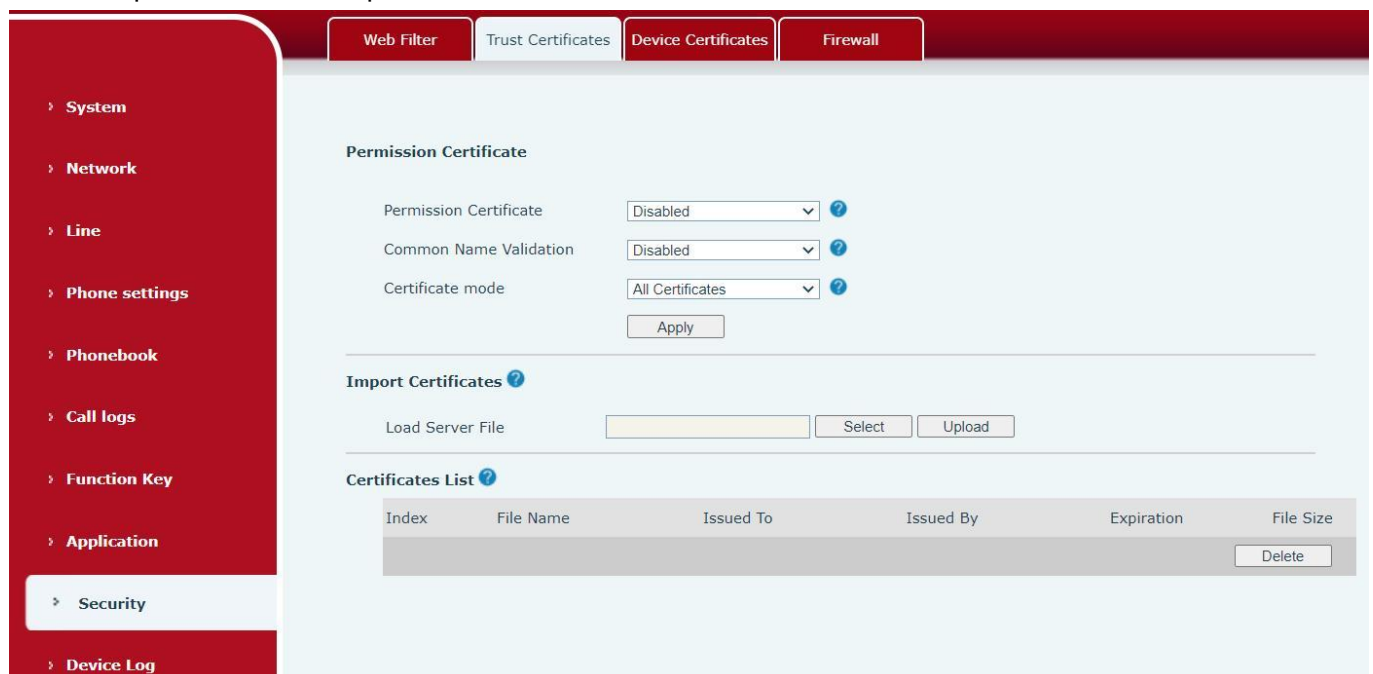
Enable web page filtering: configure enable/disable web page access filtering; Click the "apply" button to take effect.

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.

## 11.29 Security >> Trust Certificates

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

You can upload and delete uploaded certificates.

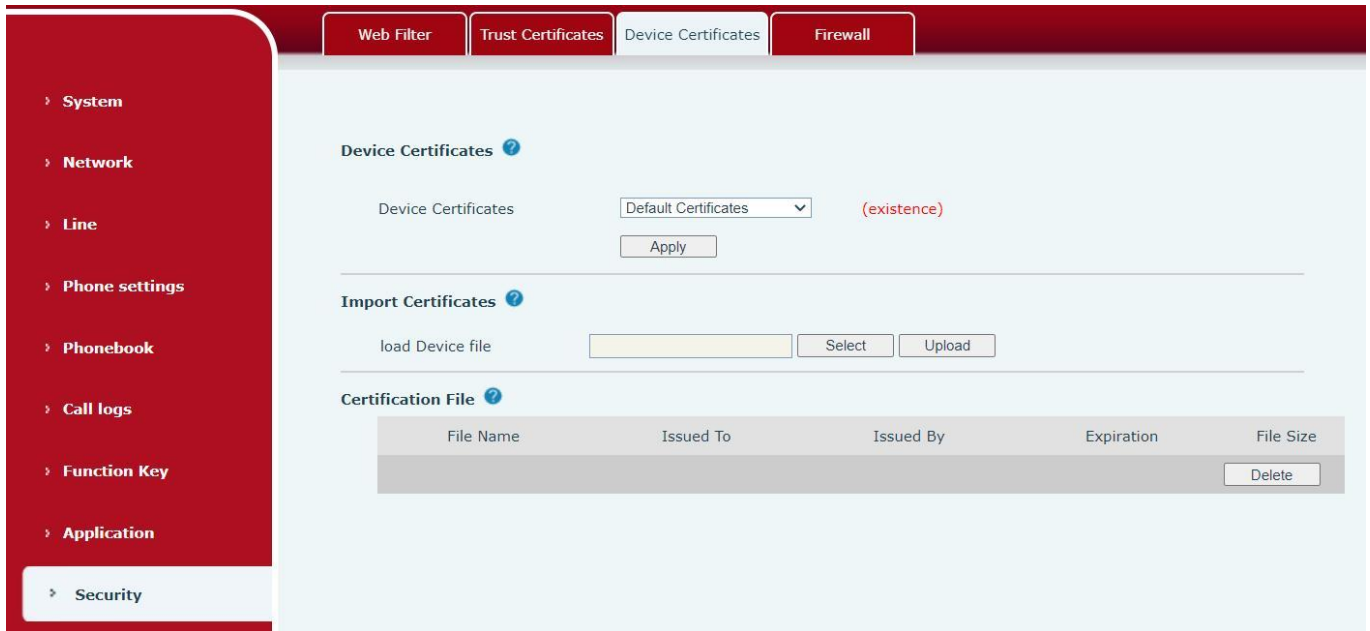


**Picture 114 - Certificate of settings**

## 11.30 Security >> Device Certificates

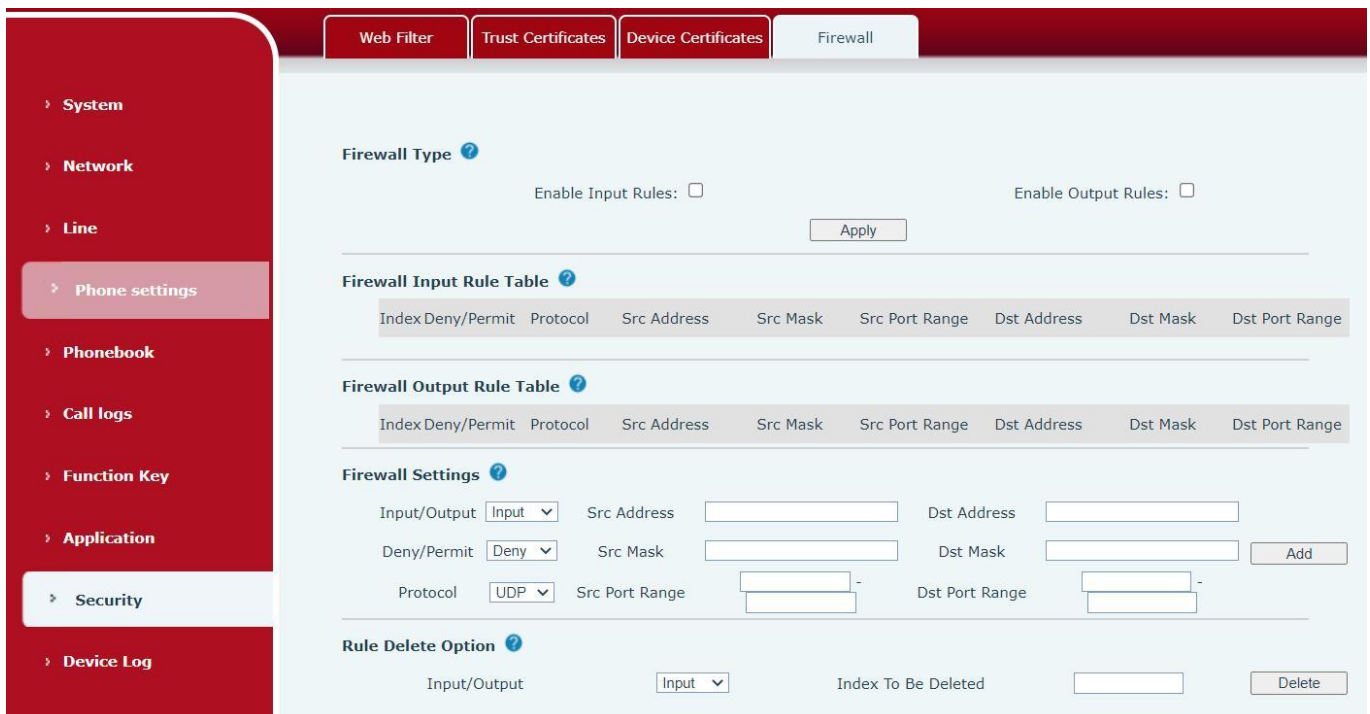
Select the device certificate as the default and custom certificate.

You can upload and delete uploaded certificates.



**Picture 115 - Device certificate setting**

## 11.31 Security >> Firewall



**Picture 116 - Network firewall Settings**

Through this page can set whether to enable the input, output firewall, at the same time can 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, 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 30 - 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:

Index	Deny/Permit	Protocol	Src Address	Src Mask	Src Port Range	Dst Address	Dst Mask	Dst Port Range
1	deny	udp	192.168.1.0	192.168.1.154	0-9	255.255.255.0	255.255.255.0	0-9

**Picture 117 - 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, other IP of the ping 192.168.1.0 network segment can still receive the response packet from the destination host normally.

Rule Delete Option

Input/Output        Index To Be Deleted

***Picture 118 - Delete firewall rules***

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

## **11.32 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](#).

## 12 Trouble Shooting

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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.

### 12.1 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.

### 12.2 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.

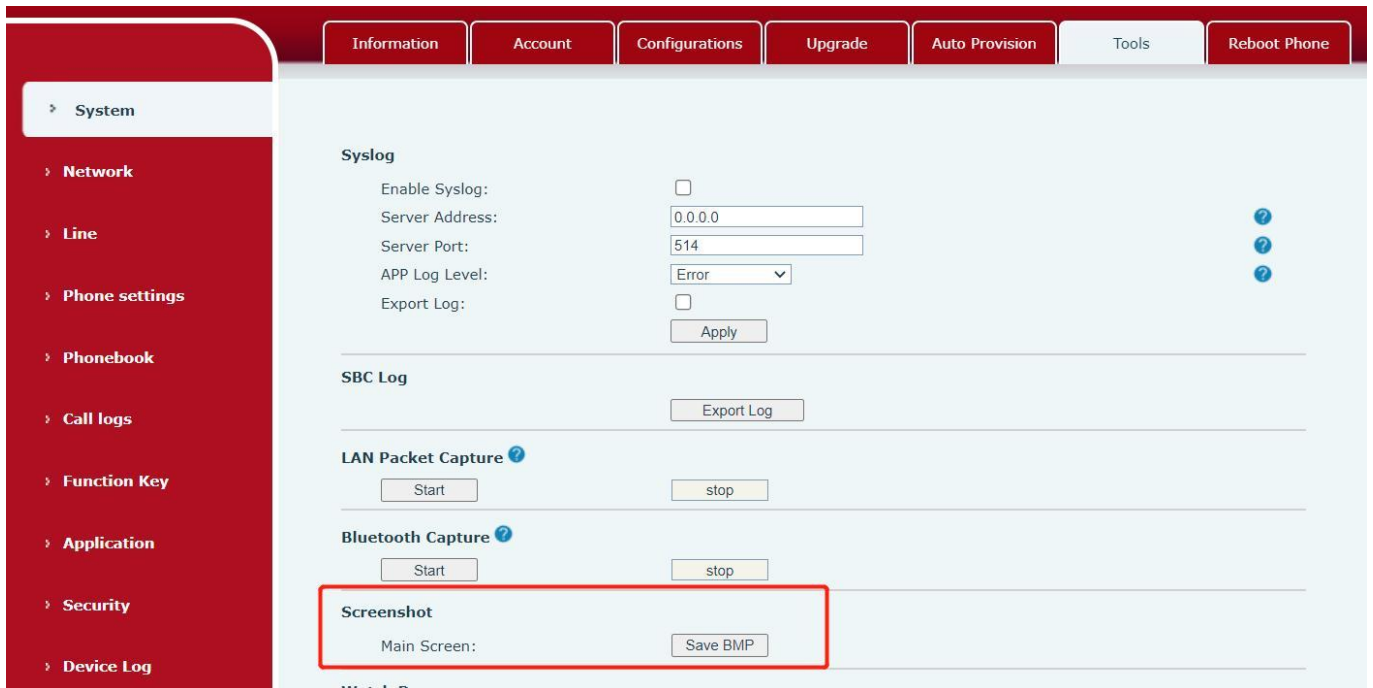
### 12.3 Reset Device to Factory Default

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

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

### 12.4 Screenshot

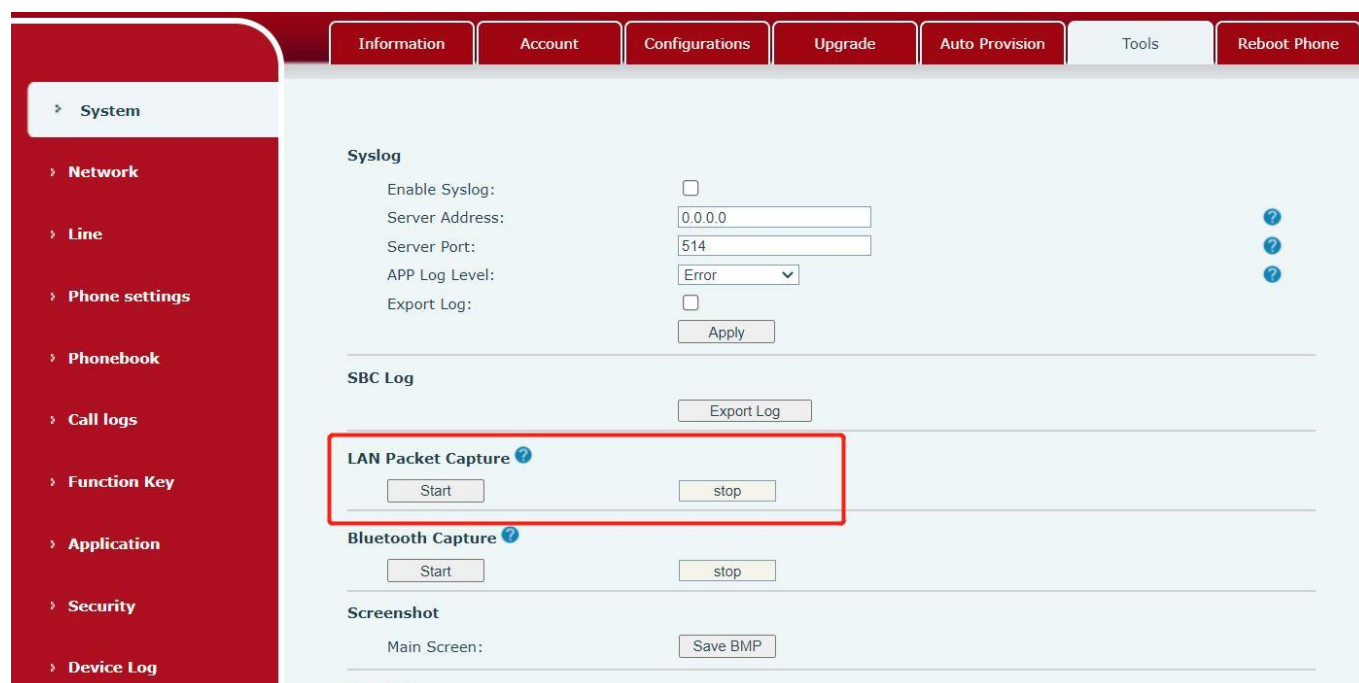
If there is a problem with the phone, the screenshot can help the technician locate the function and identify the problem. In order to obtain screen shots, log in the phone webpage **[System]** >> **[Tools]**, and you can capture the pictures of the main screen and the secondary screen (you can capture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



**Picture 119 - Screenshot**

## 12.5 Network Packets Capture

Sometimes it is helpful to dump the network packets of the device for issue identification. To get the packets dump of the device, user needs to log in the device web portal, open page **[System]** >> **[Tools]** and click **[Start]** in “Network Packets Capture” section. A pop-up message will be prompt to ask user to save the capture file. User then should perform relevant operations such as activate/deactivate 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 120 - Web capture**



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




## 12.6 Get Log Information

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

## 12.7 Common Trouble Cases

**Table 31 - Trouble Cases**

Trouble Case	Solution
Device could not boot up	<ol style="list-style-type: none"> <li>1. The device is powered by external power supply via power adapter or PoE switch. Please use standard power adapter provided by Fanvil or PoE switch met with the specification requirements and check if device is well connected to power source.</li> <li>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.</li> </ol>
Device could not register to a service provider	<ol style="list-style-type: none"> <li>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</li> </ol>

	<p>icon  [WAN disconnected] will be flashing in the middle of the screen.</p> <ol style="list-style-type: none"> <li>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.</li> <li>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 “<a href="#">13.5 Network Packet Capture</a>” to get the network packet capture of registration process and send it to Fanvil support to analyze the issue.</li> </ol>
<p>No Audio or Poor Audio in Handset</p>	<ol style="list-style-type: none"> <li>Please check if Handset is connected to the correct Handset () port NOT headset () port.</li> <li>The network bandwidth and delay may be not suitable for audio call at the moment.</li> </ol>
<p>Poor Audio or Low Volume in headset</p>	<ol style="list-style-type: none"> <li>There are two headset wire sequence in the market. Please use the headset provided by Fanvil, or consult Fanvil the wire sequence if you wish to use a third-party headset.</li> <li>The network bandwidth and delay may be not suitable for audio call at the moment.</li> </ol>
<p>Audio is chopping at far-end in Hands-free speaker mode</p>	<p>This is usually due to loud volume feedback from speaker to microphone. Please lower down the speaker volume a little bit, the chopping will be gone.</p>