



User Manual

X3S/X3SP

Revision History

Document VER	Firmware VER	Explanation	Time
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3 Safety Instruction

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

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

4 Overview

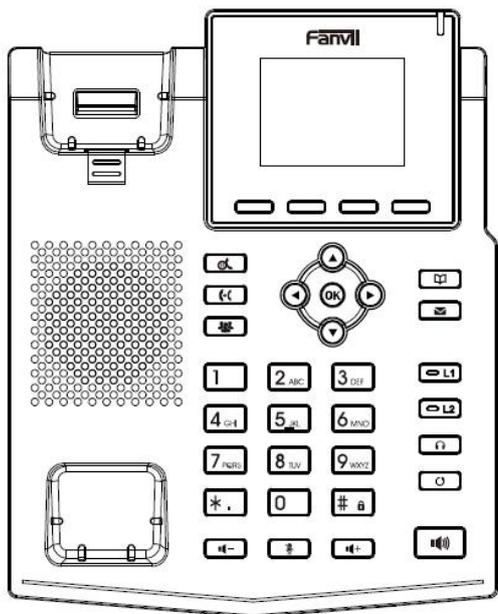
4.1 Overview

X3S/X3SP is designed for small and medium enterprises and families. The X3S/X3SP delivers a great user experience for home and office users with a clean design. X3S/X3SP is not just a desktop phone, but a living room or office piece.

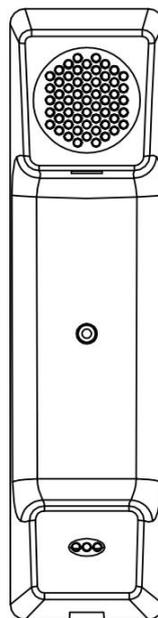
For enterprise users, X3S/X3SP is a cost-effective office equipment that provides convenient operation while realizing environmental protection. For home users, X3S/X3SP is a highly efficient communication device that allows users to flexibly configure and define the functions of two DSS keys, saving space and cost. It will be an ideal choice for enterprise users and home users who pursue high quality and high efficiency.

To help some interested users better understand the details of the product, this user manual can be used as a reference guide for X3S/X3SP. This document may not be applicable to the latest version of the software, but if you have any questions, you can use the help prompt interface that comes with the X3S/X3SP phone, or download the updated user manual from the Fanvil official website.

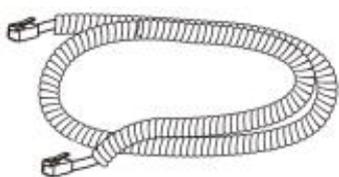
4.2 Packing Contents



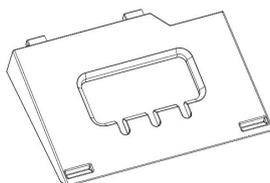
Phone



Handset



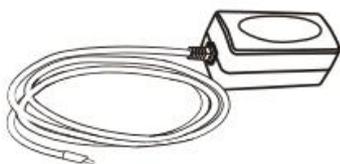
Receiver cable



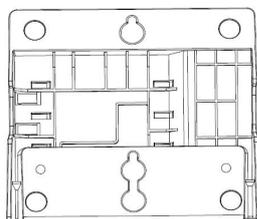
Stand



Network cable



Power adapter (Optional)



Hanging parts (need an additional wall hanging parts)

5 Desktop Installation

5.1 PoE and the use of external power adapters

X3SP, called as 'the device' hereafter, support two power supply modes from external power adapter or over Ethernet (PoE) complied switch. X3S not support PoE.

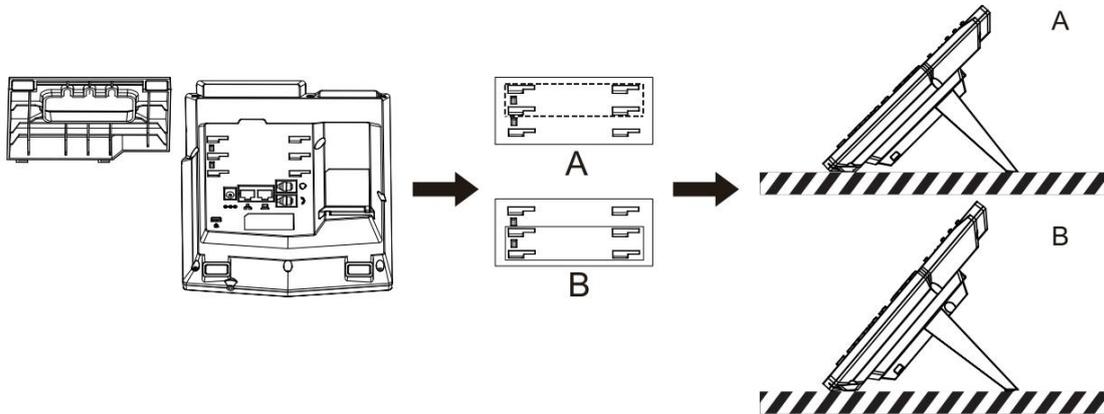
PoE power supply saves the space and cost of providing the device additional power outlet. With a PoE switch, the device can be powered through a single Ethernet cable which is also used for data transmission. By attaching UPS system to PoE switch, the device can keep working at power outage just like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

5.2 Desktop and wall mounted method

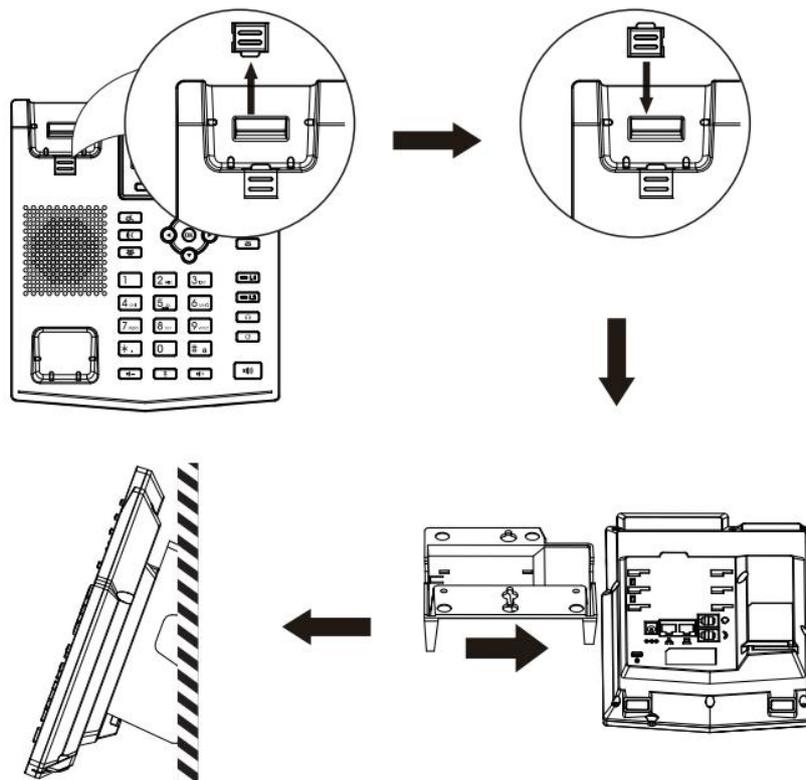
The device supports two installation modes, desktop and wall mounted. If the phone is on the desktop, please follow the instructions in the picture below to install the phone.



Picture 1 - Desktop installation

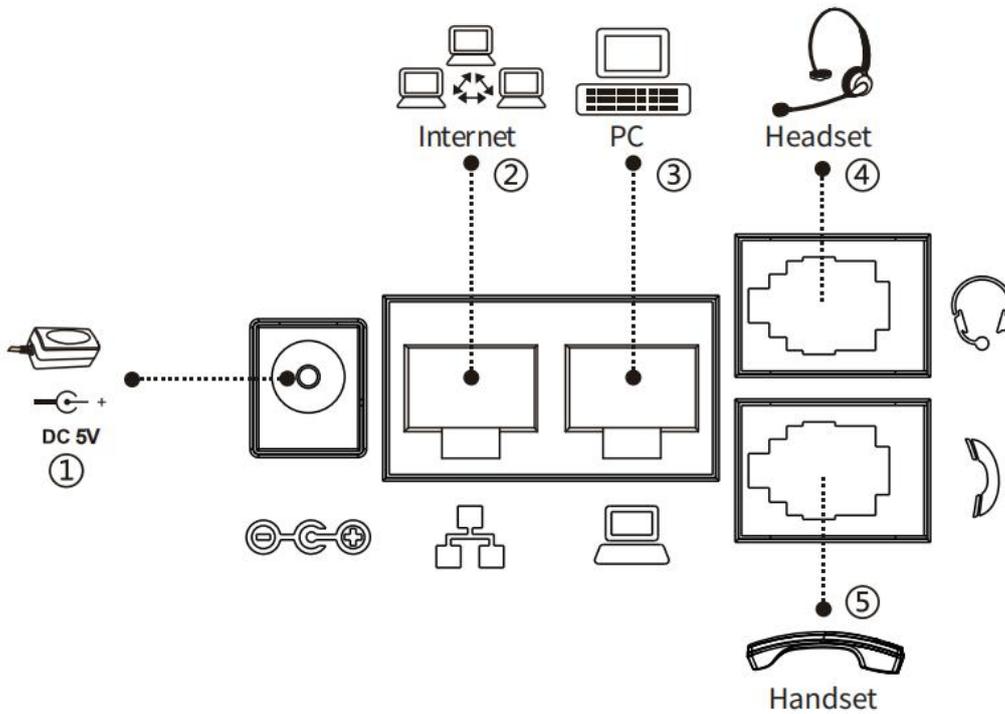
If the phone is mounted on the wall, please follow the instructions below to install it.

Note: wall hanging bracket needs to be purchased separately



Picture 2 - Wall-mounted installation

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



Picture 3 - Connecting to the Device

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

6 Appendix Table

6.1 Appendix I - Icon

Table 1 - Keypad Icons

Icon	Description
	Redial
	Phone Book
	Hands-free (HF) speaker
	Mute Microphone (During Call)
	Volume down
	Volume up
	Hold
	Headset
	MWI
	Conference
	Transfer

6.2 Appendix II - Keyboard character query table

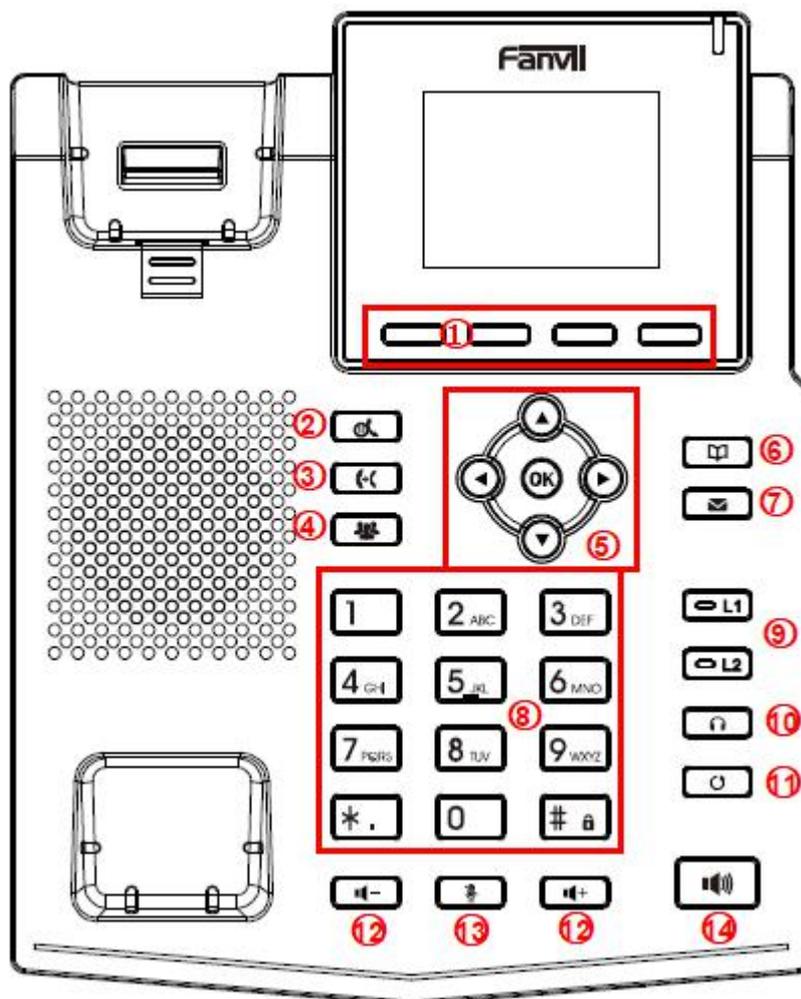
Table 2 - Look-up Table of Characters

Mode Icon	Text Mode	Key Button	Characters Of Each Press
	Number		1
			2
			3
			4
			5
			6
			7
			8
			9
			0
			*.+
			#
	Lower Case		@:;)<>
	Alphabets		a b c

abc		3	def
		4	ghi
		5	jkl
		6	mno
		7	pqrs
		8	tuv
		9	wxyz
		0	(space)
		*	.,*/+:-_ =
		#	# ^!&\$%
ABC	Upper Case Alphabets	1	@:;()<>
		2	ABC
		3	DEF
		4	GHI
		5	JKL
		6	MNO
		7	PQRS
		8	TUV
		9	WZYX
		0	(space)
		*	.,*/+:-_ =
		#	# ^!&\$%
		2aB	Mixed type input
2	2 abcABC		
3	3 defDEF		
4	4 ghIGHI		
5	5 jklJKL		
6	6 mnoMNO		
7	7 pqrsPQRS		
8	8 tuvTUV		
9	9 wzyxWZYX		
0	0		
*	.,*/+:-_ =		
#	# ^!&\$%		

7 Introduction to the User

7.1 Instruction of Keypad



Picture 4 - Instruction of Keypad

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

Table 3 - Instruction of Keypad

Number	The keypad names	Instruction
①	Soft-menu Buttons	These four buttons provide different functions corresponding to the soft-menu displayed on the screen.
②	Hold Key	Press the "Hold" key during the call, the user can hold the call, and press it again to cancel the holding and restore the normal call state.

3	Transfer Key	Press the "Transfer" button, the user can transfer the current call to other numbers.
4	Conference	Press the "Conference" button, the user can initiate a three-party conference.
5	Navigate/OK Keys	The user can press the up/down navigation key to change the line or move the cursor in the screen list. On some Settings and text editing pages, the user can press the left/right navigation key to change options or move the cursor in the screen list to the left/right. OK key: Default is equivalent to soft button confirmation, user can customize the function.
6	Contact Key	Press the "Contact" key, the user can enter the address book interface and select the contact person to call.
7	MWI	Press the "voice mail" button, and the user enters the interface of SMS and voice mail list.
8	Standard Telephone Keys	The 12 standard telephone keys provide the same function as standard telephones, but further to the standard function, some keys also provide special function by long-pressing the key, Key  - Long-pressed to lock the phone.
9	Line key	Default to line 1/ line 2, support custom configuration as DSS key.
10	Headset Key	Users can press this key to open the headset channel
11	Redial	Press the Redial key to redial the last number dialed
12	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 volume on the call or volume adjustment screen.
13	Mute Key	During a call, the user can press this key to mute the microphone.
14	Hands-free Key	The user can press this key to open the audio channel of the speakerphone.

7.2 Using Handset / Hands-free Speaker / Headphone

■ Using Handset

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

■ **Using Hands-free Speaker**

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

■ **Using Headphone**

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

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

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

7.3 Idle Screen



Picture 5 - Screen layout/default home screen

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

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

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

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

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

The icon description is described in [6.1 appendix I](#).

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



Picture 6 - Scroll icon

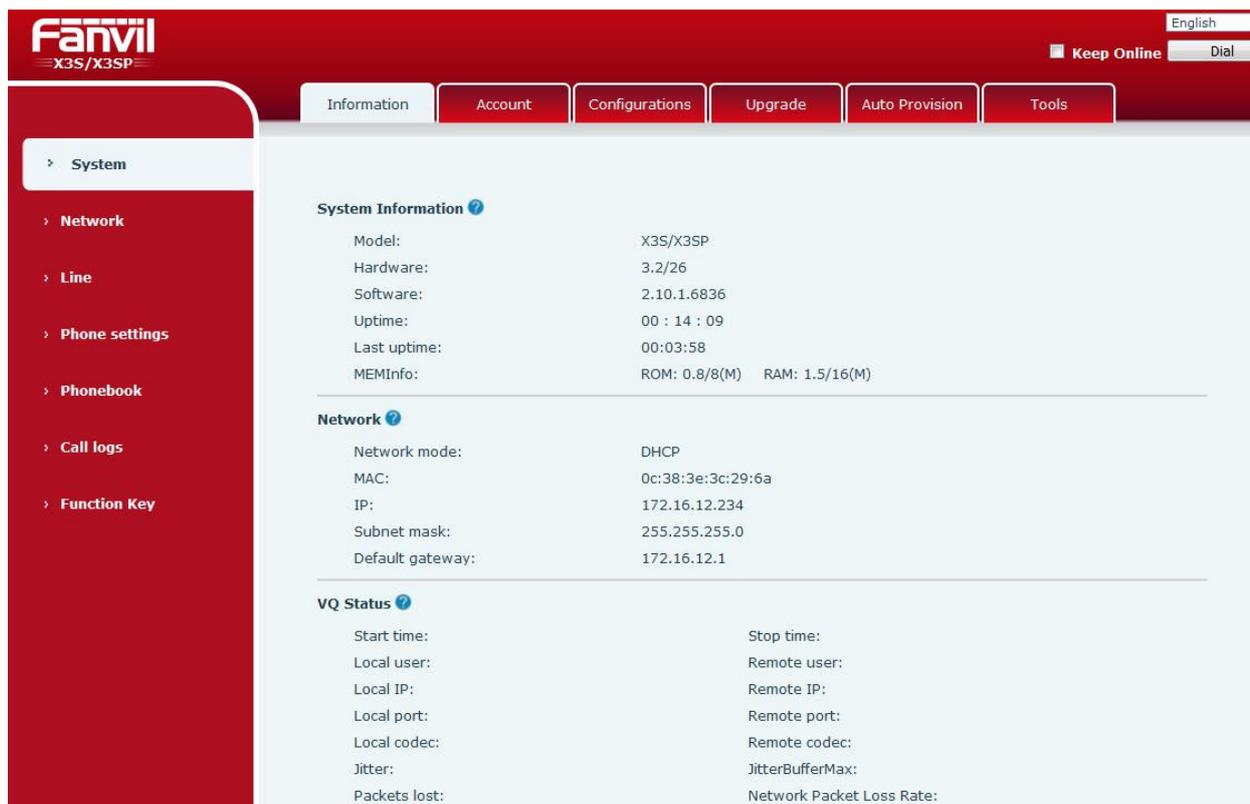
7.4 Phone Status

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



Picture 7 - The Phone status

WEB interface: Refer to [7.5 Web management](#) to log in the phone page, enter the **【System】** >> **【Information】** page, and check the phone status, as shown in the figure:



Picture 8 - WEB phone status

7.5 Web Management

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

The user can check the IP address of the phone by pressing **[Menu]** >> **[Status]**.



Picture 9 - Landing page

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

7.6 Network Configurations

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

To enable this phone, you must first correctly configure the network configuration. To configure the network, users need to find the phone function menu button **[Menu]** >> **[Advanced Settings]** >> **[Network]** >> **[Network]**.

The default password for advanced Settings 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.

There are three common IP configuration modes about IPv4

- Dynamic Host Configuration Protocol (DHCP) – This is the automatic configuration mode by getting network configurations from a DHCP server. Users don't need to configure any parameters manually. All configuration parameters will be getting from DHCP server and applied to the device. This is recommended for the most users.
- Static IP Configuration – This option allows user to configure each IP parameters manually, including IP Address, Subnet Mask, Default Gateway, and DNS servers. This is usually used in a technical environment of network users.
- PPPoE – This option is often used by users who connect the device to a broadband modem or router. To establish a PPPoE connection, user should configure username and password provided by the service provider.

7.7 SIP Configurations

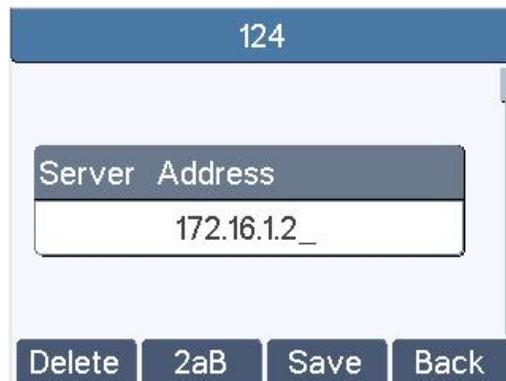
A line must be configured properly to be able to provide telephony service. The line configuration is like a virtualized SIM card on a mobile phone which stores the service provider and the account information used for registration and authentication. When the device is applied with the configuration, it will register the device to the service provider with the server's address and user's authentication as stored in the configurations.

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

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

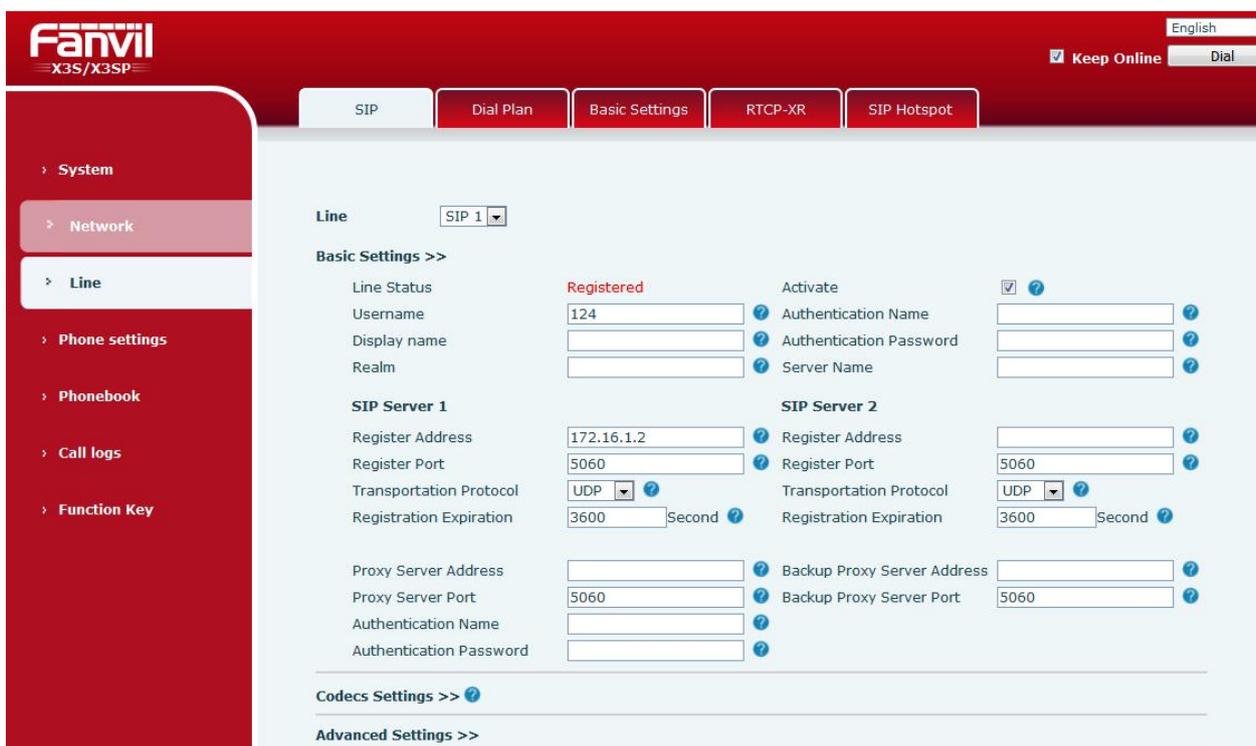
NOTICE! User must enter correct PIN code to be able to advanced settings to edit line configuration. (The default PIN is 123)

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 SIP for configuration, click apply to complete registration after configuration, as shown below:



Picture 11 - Web SIP registration

8 Basic Function

8.1 Making Phone Calls

■ Default Line

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



Picture 12 - Default line

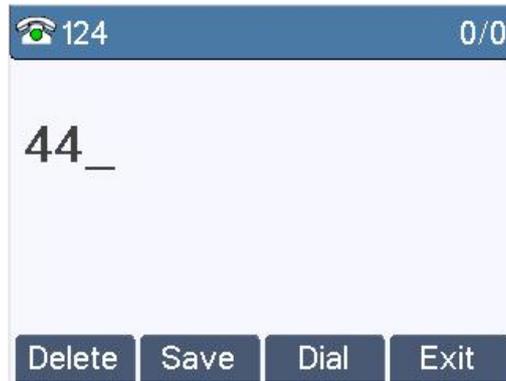
■ Dialing Methods

User can dial a number by

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

■ Dialing Number then Opening Audio

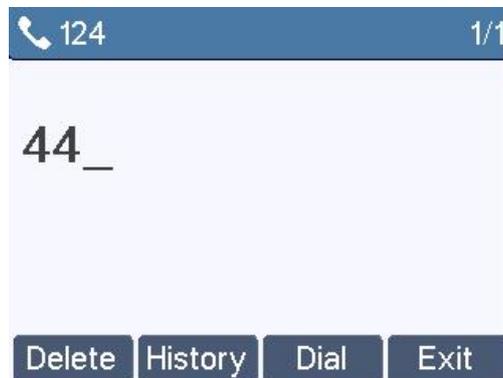
To make a phone call, user can firstly dial a number by one of the above methods. When the dialed number is completed, user can press **[Dial]** button on the soft-menu, or press hand-free button to turn on the speaker or headphone, or lift the handset to call out with the current line, or user can press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



Picture 13 - Enable voice channel dialing

■ **Opening Audio then Dialing the Number**

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



Picture 14 - Open the voice channel and dial the number

■ **Cancel Call**

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



Picture 15 - Call number

8.2 Answering Calls

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



Picture 16 - Answering calls

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

8.2.1 Talking

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



Picture 17 - Talking interface

Table 4 - Talking mode

Number	Name	Description
①	Voice channel	The icon shows the voice channel mode being used.
②	Default line	The line currently used by the phone.
③	Calls to end	The name or number of the person on the other end of the call.
④	Call duration	The duration of a call after it has been established.
⑤	Call the number	Displays the current number of calls
⑥	Speech quality	Displays the current voice quality of the call.
⑦	HD audio	Call using G.722 voice coding calls when displayed HD voice

		icon.
--	--	-------

8.2.2 Make / Receive Second Call

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

■ Second Incoming Call

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



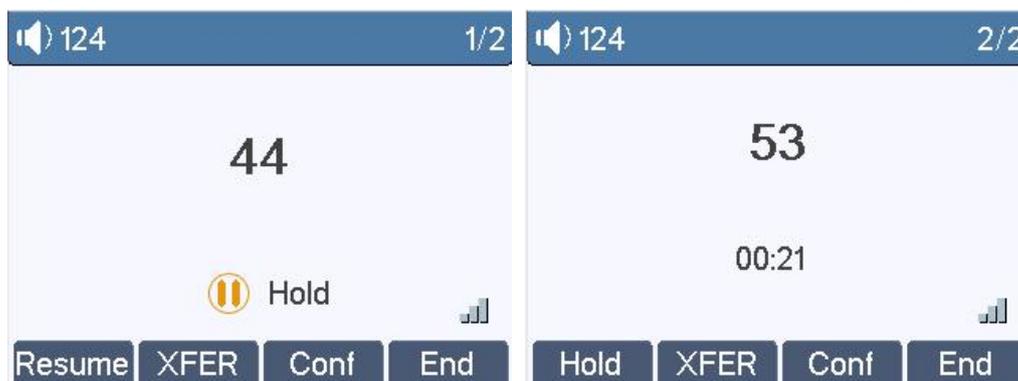
Picture 18 - The second call interface

■ Second Outgoing Call

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

■ Switching between Two Calls

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



Picture 19 - Two way calling

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

■ **Ending One Call**

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

8.3 End of the Call

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

Note! When the phone is in the reserved state, the user must press the [Resume] key to return to the call state, or put the receiver back and press the hands-free button to end the call.

8.4 Auto-Answering

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

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

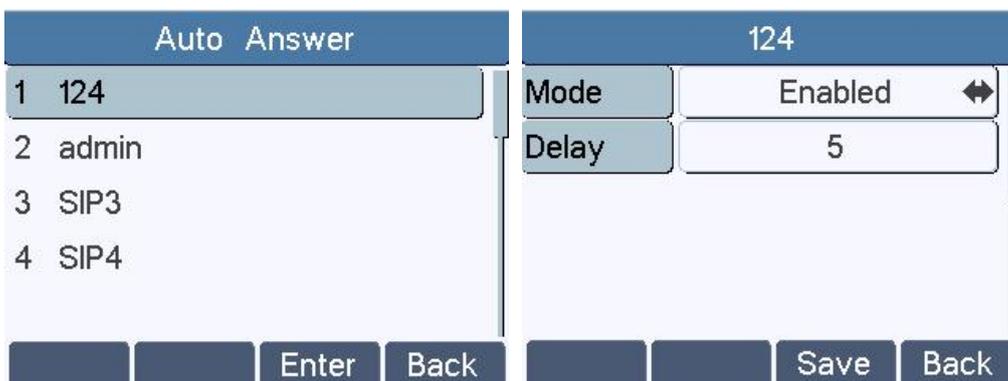
● **Phone interface:**

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

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

After completion, press [OK] key to save;

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



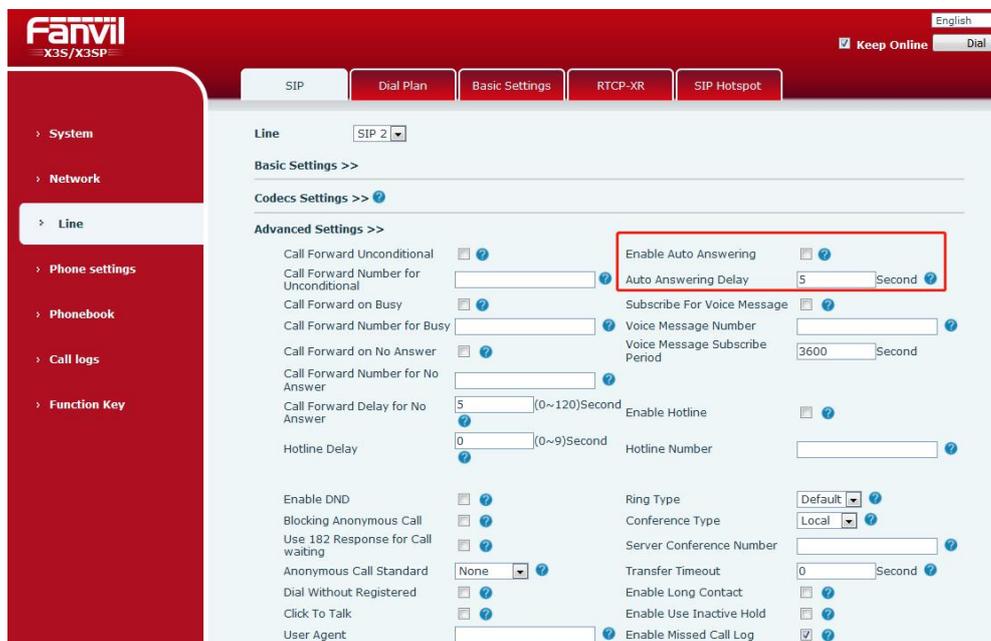
Picture 20 - Line 1 enables auto-answering



Picture 21 - The line has enabled auto-answering

● **WEB interface:**

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



Picture 22 - Web page to start auto-answering

8.5 Mute

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

8.5.1 Mute the Call

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

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



Picture 23 - Mute the call

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

8.5.2 Ringing Mute

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

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



Picture 24 - Ringing mute

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

8.6 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 25 - Call hold interface

8.7 Call Forward

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

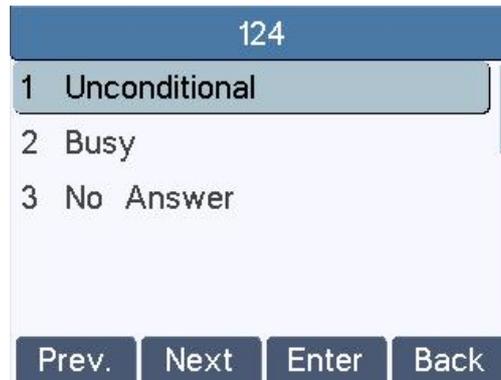
There are three types

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



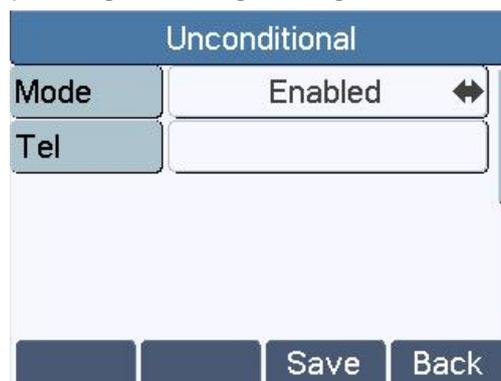
Picture 26 - Select the line to set up call forwarding

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



Picture 27 - Select call forward type

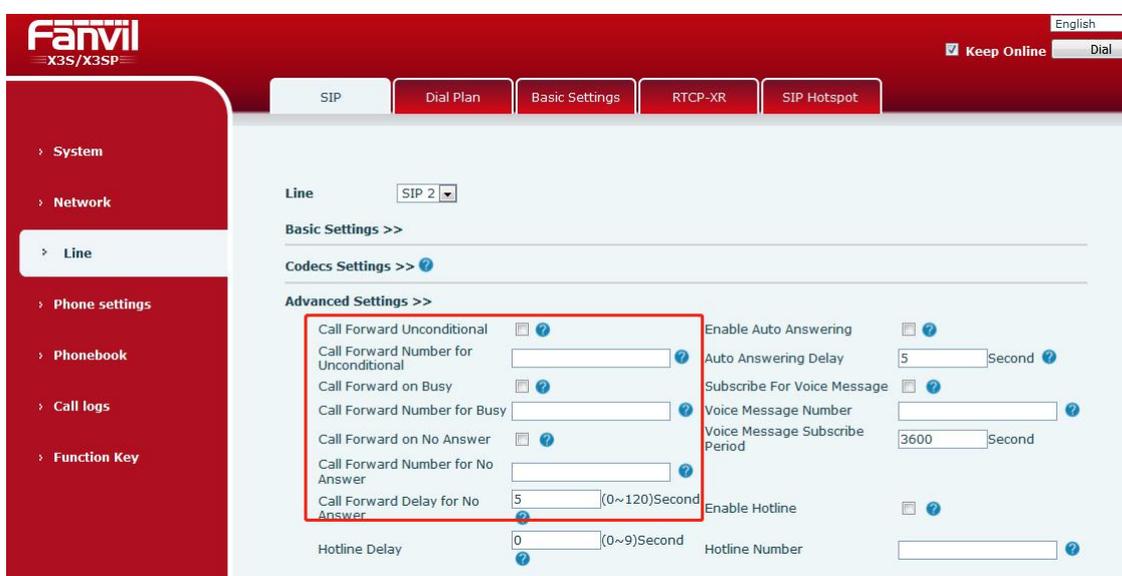
3) Select enable/disable by pressing the left/right navigation button.



Picture 28 - Enable call forwarding and configure the call forwarding number

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

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



Picture 29 - Set call forward

8.8 Call Transfer

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

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

Note! For more transfer Settings, please refer to [12.6 Line >> Dial Plan](#)

8.8.1 Blind transfer

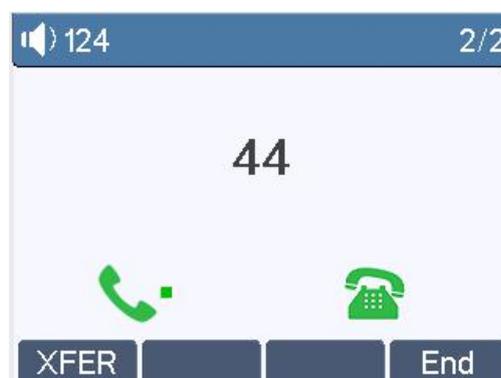
During the call, the user presses the function menu button [**Transfer**] or the transfer button on the phone  , Enter the number to transfer or press the contact button or the history button to select the number, press the transfer key again or blind transfer  to a third party. After the third party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



Picture 30 - Transfer interface

8.8.2 Semi-Attended transfer

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



Picture 31 - Semi-Attended transfer

8.8.3 Attended transfer

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

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



Picture 32 - Attended transfer

8.9 Call Waiting

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

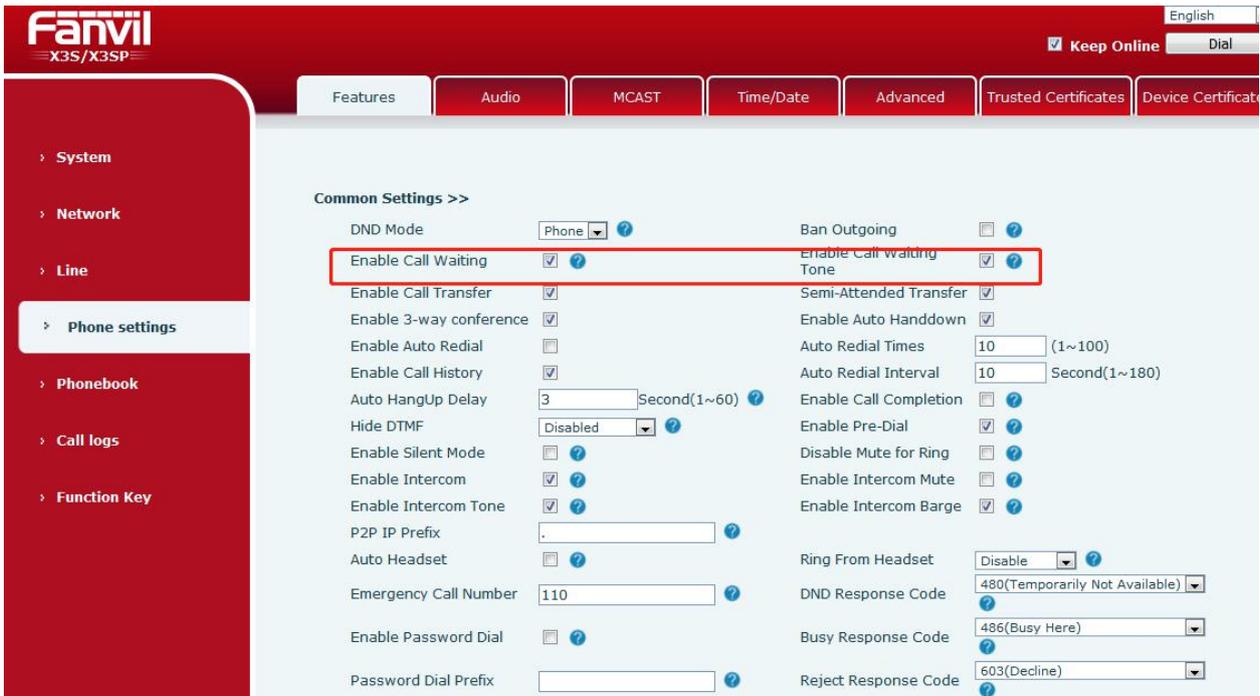
The user can enable/disable the call waiting function in the phone interface and the web interface.

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



Picture 33 - Call waiting setting

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

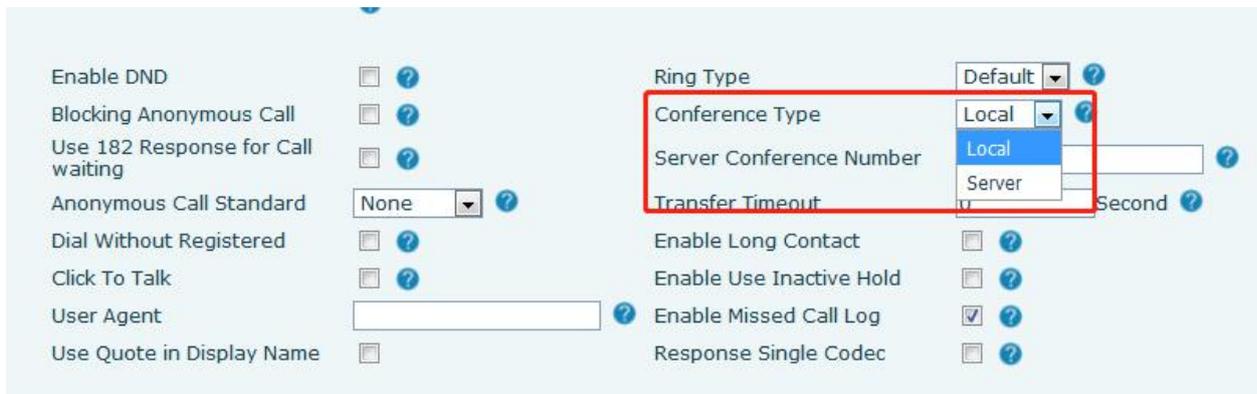


Picture 34 - Web call waiting tone setting

8.10 Conference

8.10.1 Local Conference

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



Picture 35 - Local conference setting

Two ways to create a local conference:

- 1) The device has two channels of communication. Press the conference button on the call interface. When selecting the conference number, select the other number that already exists.



Picture 36 - Local conference(1)

- 2) If the device has a call all the way, press the conference key in the call interface, enter the number to join the meeting and press the call; After the opposite end is answered, press the conference button again to set up the local tripartite conference:



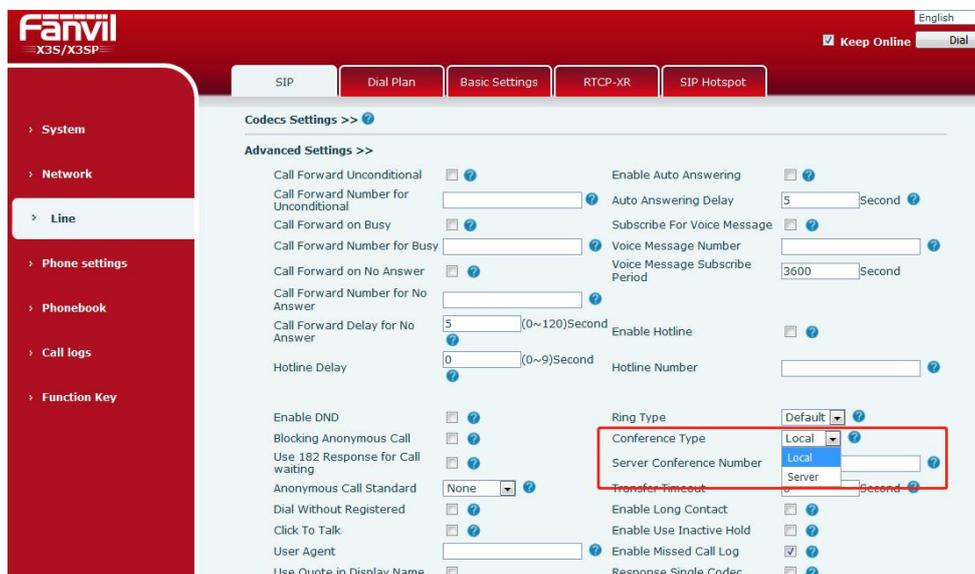
Picture 37 - Local conference(2)

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

8.10.2 Network Conference

Users need server support for network conference.

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



Picture 38 - Network conference

Method to join a network conference:

- Multi-party call number of network conference room and enter the password then all enter the conference room.
- The two phones have established common calls. Press the conference button to invite new members to the conference. Follow the voice prompt to operate.

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

8.11 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 through the **[Menu] >> [Basic Settings] >> [Keyboard Settings]** enter the settings interface of function keys, and set the key function type as memory and subtypes as call park, reside values for the server calls park number, set up corresponding SIP lines.
- WEB interface: log in the phone page, enter the **[Function Key] >> [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.

DSS Key1	
Type	Memory Key
Tel	123
Name	
Line	124
Subtype	Call Park
<input type="button" value="Save"/> <input type="button" value="Back"/>	

Picture 39 - Phone set call park

Function Key Settings

Reset BLF Transfer Type:

Key	Type	Name	Value	Subtype	Line	PickUp Number
DSS Key 1-1	Memory Key		123	Call Park	SIP1	
DSS Key 1-2	Line			None	SIP2	

Picture 40 - WEB set call park

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

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

WEB interface: Log in the phone webpage, enter the **[Function Key]** >> **[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.

DSS Key1	
Tel	123
Name	
Line	124
Subtype	BLF/NEW CALL
Pickup	*8
Delete	123
Save	Back

Picture 41 - Phone pick up setting

Function Key Settings

Reset BLF Transfer Type:

Key	Type	Name	Value	Subtype	Line	PickUp Number
DSS Key 1-1	Memory Key		123	BLF/NEW CALL	SIP1	*8
DSS Key 1-2	Line			None	SIP2	

Picture 42 - WEB pick up setting

8.13 Anonymous Call

8.13.1 Anonymous Call

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

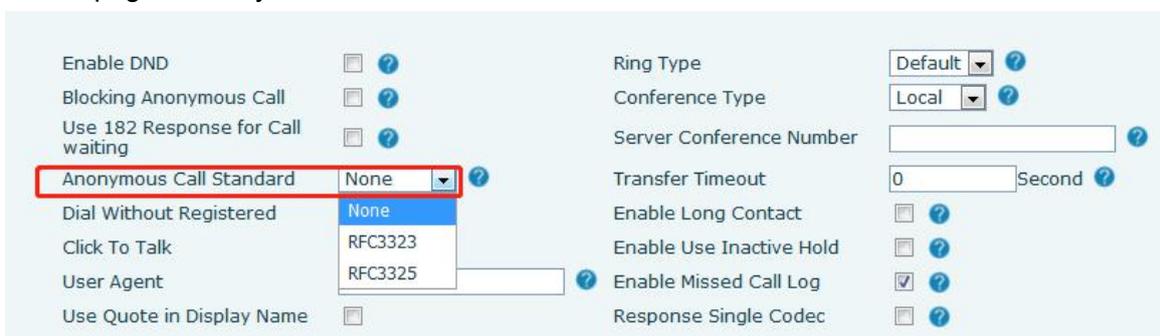
- You can see anonymity in the context of **[Menu]** >> **[System]** >> **[Accounts]** >> **[Advanced]**.
- The default is none, which is off, and RFC3323 and RFC3325 are optional.

- Select any one to open the anonymous call.



Picture 43 - Enable anonymous call

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



Picture 44 - Enable Anonymous web page call

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



Picture 45 - Anonymous call log

8.13.2 Ban Anonymous Call

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

- In the phone [Menu] >> [Features] >> [Ban anonymous call], click to enter and all SIP lines will be

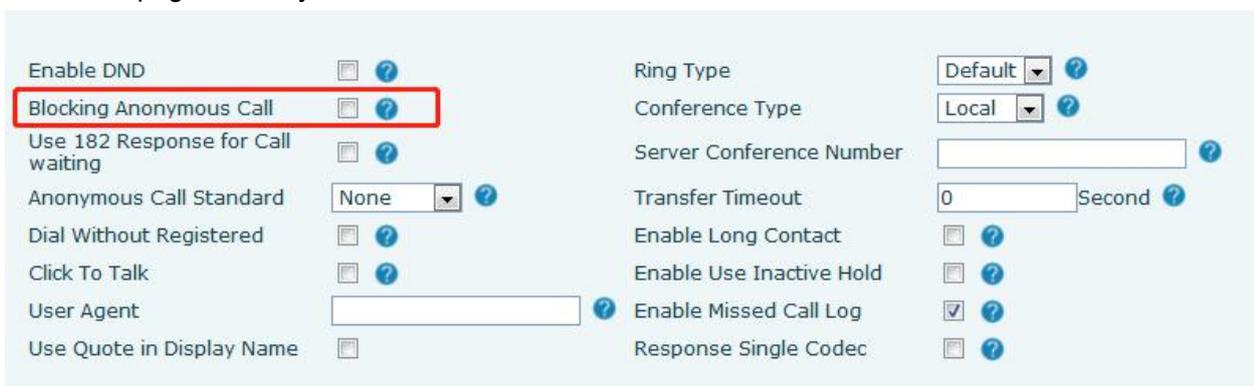
displayed.

- Click Softkey **[Switch]** or **[<] [>]** to switch the SIP line and enable anonymous call.



Picture 46 - 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.

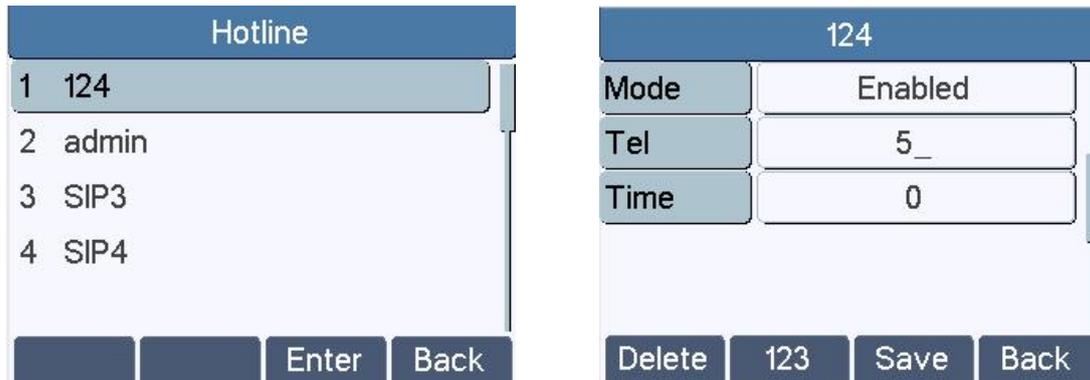


Picture 47 - Page Settings blocking anonymous call

8.14 Hotline

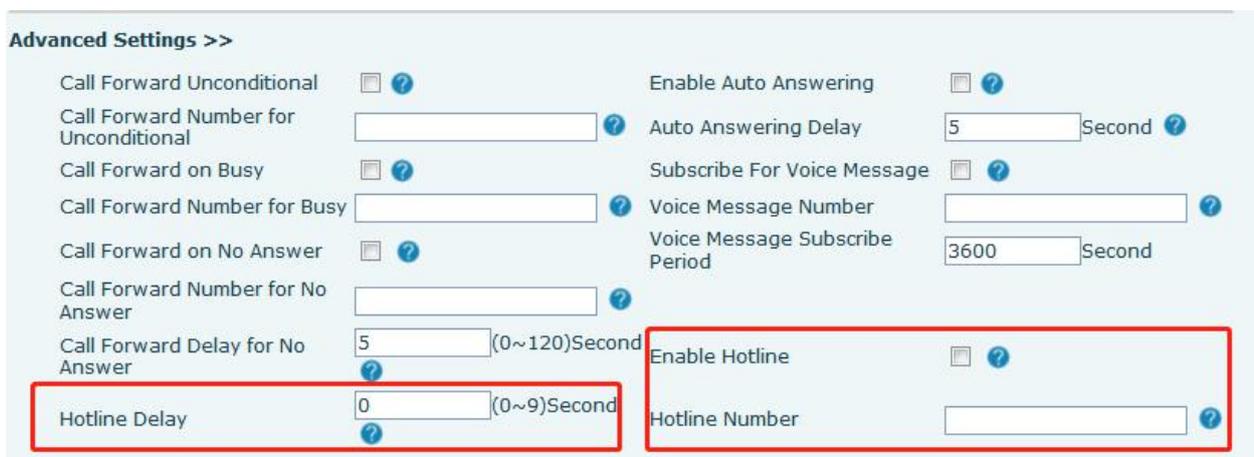
The device supports hotline dialing. After setting up the hotline dialing, directly pick up the handset, hands-free, earphone, etc., and the phone will automatically call according to the hotline delay time.

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



Picture 48 - Phone hotline setting interface

- On the website [Line] >> [SIP] >> [Advanced 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.

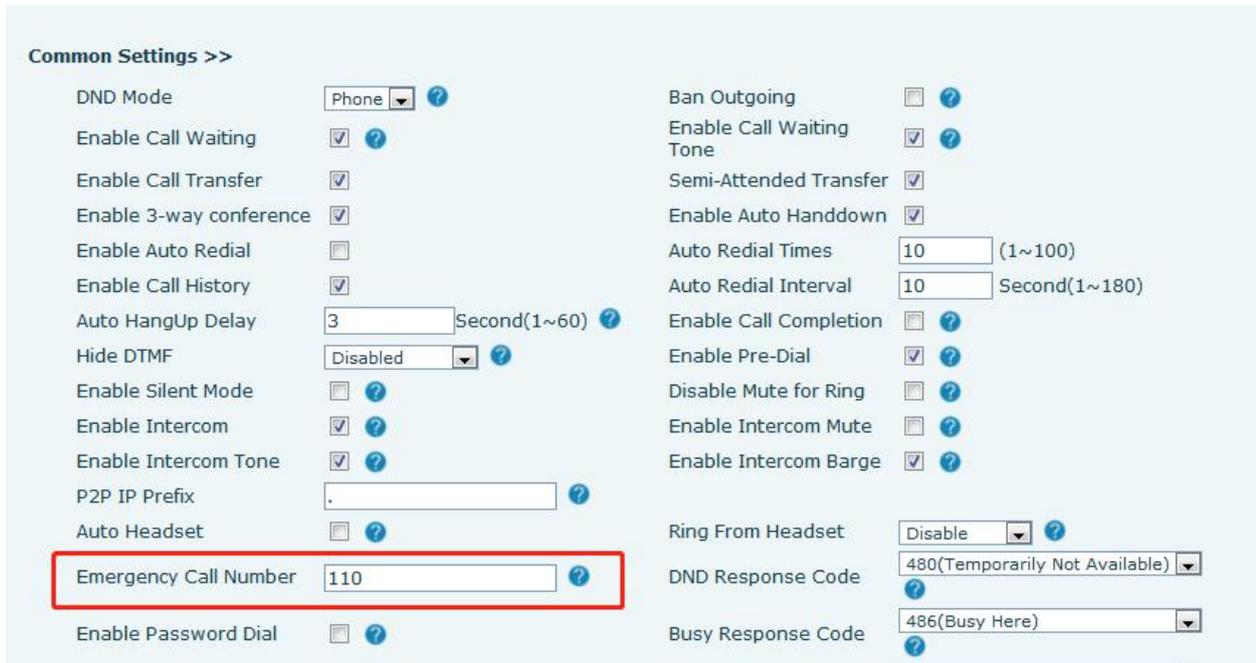


Picture 49 - Hotline set up on webpage

8.15 Emergency Call

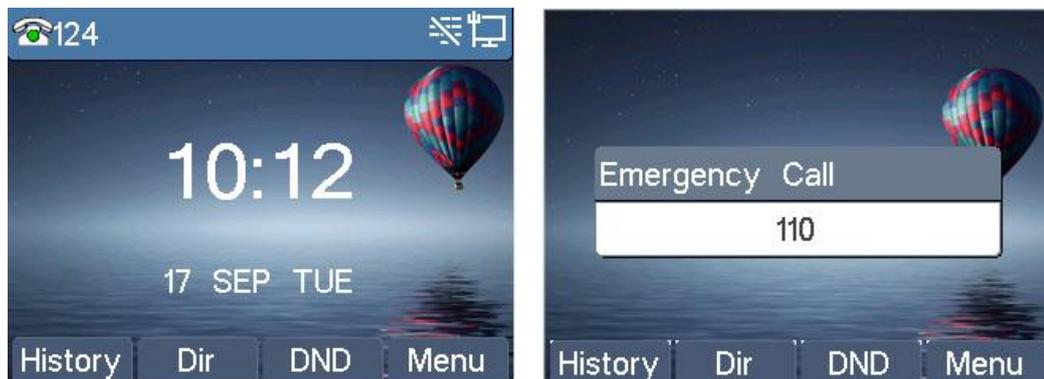
The emergency call function is used to set the corresponding emergency call number on the phone after enabling the keypad lock. You can also call emergency services when your phone is locked.

- 1) Configure the emergency call number: log in the phone page, enter the [Phone Settings] >> [Features]>> [Common 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 50 - 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 51 - Dial the emergency number

9 Advance Function

9.1 BLF (Busy Lamp Field)

9.1.1 Configure the BLF Functionality

- Page interface: log in the phone page, enter the [Function key] >> [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 usage refers to [8.16 Pickup up](#).

The screenshot shows the Fanvil web interface for configuring BLF function keys. The page has a red header with the Fanvil logo and navigation tabs for 'Function Key' and 'Softkey'. A left sidebar contains a menu with options like System, Network, Line, Phone settings, Phonebook, Call logs, and Function Key. The main content area is divided into two sections: 'Function Key Settings' and 'Programmable Key Settings'.

Function Key Settings

Reset BLF Transfer Type: Make a New Call (dropdown) [Apply]

Key	Type	Name	Value	Subtype	Line	PickUp Number
DSS Key 1-1	Memory Key (dropdown)		123	Call Park (dropdown)	SIP1 (dropdown)	
DSS Key 1-2	Line (dropdown)			None (dropdown)	SIP2 (dropdown)	

[Apply]

Programmable Key Settings

Key	Desktop	Dialer	Calling	Desktop Long Pressed
Up	Call logs (dropdown)	Prev Line(Prev.) (dropdown)	Prev. Call (dropdown)	Status (dropdown)
Down	Status (dropdown)	Next Line(Next) (dropdown)	Next Call (dropdown)	None (dropdown)
Left	Pre Account (dropdown)	None (dropdown)	Volume Down (dropdown)	None (dropdown)
Right	Next Account (dropdown)	None (dropdown)	Volume Up (dropdown)	Speed Dial (dropdown)
OK	Main Menu (dropdown)	None (dropdown)	None (dropdown)	Reset to factory (dropdown)

[Apply]

Picture 52 - Web page configuration BLF function key

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

The screenshot shows the phone interface for configuring BLF function keys. The screen displays the 'DSS Key1' settings menu with the following fields:

- Type: Memory Key (dropdown)
- Tel: 123
- Name: (empty field)
- Line: 124
- Subtype: Call Park (dropdown)

At the bottom of the screen, there are two buttons: 'Save' and 'Back'.

Picture 53 - Phone configuration BLF function key

Table 5 - BLF Function key subtype parameter list

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

9.1.2 Use the BLF Function

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

BLF function:

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

1) Monitors the status of subscribed phones.

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

2) Call the subscribed number.

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

3) Transfer calls to the subscribed number.

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

4) Pickup incoming calls from subscribed phones.

When configuring BLF function key, configure the pickup number.

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

9.2 BLF List

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

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

The screenshot shows the 'Advanced settings' page for BLF List configuration. The 'Enable BLF List' checkbox is checked and highlighted with a red box. The 'BLF Server' and 'BLF List Number' fields are also highlighted with a red box. Other settings include 'Specific Server Type' (COMMON), 'DNS Mode' (A), 'Keep Alive Type' (Default), 'Keep Alive Interval' (15 Second), 'Sync Clock Time' (unchecked), 'Enable Session Timer' (unchecked), 'Session Timeout' (0 Second), 'Enable Rport' (checked), 'Enable PRACK' (checked), 'Keep Authentication' (unchecked), 'Auto TCP' (unchecked), 'Enable Feature Sync' (unchecked), and 'Enable GRUU' (unchecked).

Picture 54 - Configure the BLF List functionality

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

The screenshot shows the 'Function Key Settings' page. The 'Reset BLF Transfer Type' is set to 'Make a New Call'. The table below shows the configuration for two keys:

Key	Type	Name	Value	Subtype	Line	PickUp Number
DSS Key 1-1	BLF List Key		123	Hide DTMF	SIP1	
DSS Key 1-2	Line			None	SIP2	

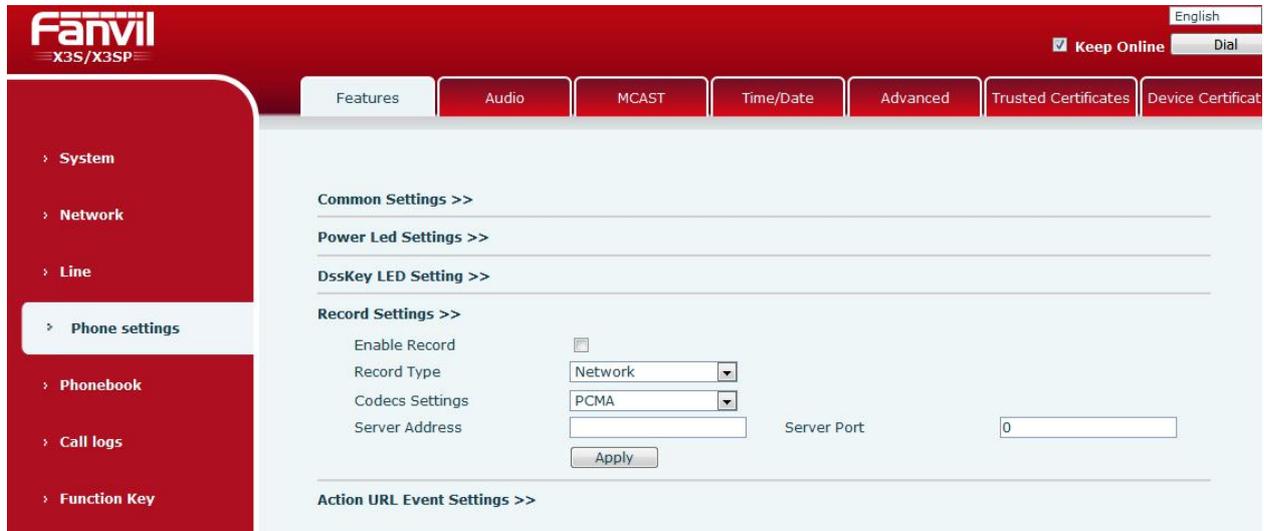
Picture 55 - BLF List number display

9.3 Record

The device supports recording during a call.

9.3.1 Server Record

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



Picture 56 - Web server recording

Note: to be used with Fanvil recording software.

9.3.2 SIP INFO Record

The phone is registered with a server that supports SIP INFO recording. After registering the account, check the recording module of [Phone settings] >> [Features]>> [Record Settings]. to open the recording, and the recording type is SIP INFO.



Picture 57 - Web SIP info recording

9.4 Agent

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

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

Agent	
Type	Normal
Number	124
Line	124
Status	Logon
Call Logs	Save all
<input type="button" value="Logoff"/> <input type="button" value="Deactive"/> <input type="button" value="Save"/> <input type="button" value="Back"/>	

Picture 58 - Configure the agent account in normal mode

Agent	
Type	Hotel Guest ↔
Number	
Passwd	
Line	124
Status	Logon
<input type="button" value="Logon"/> <input type="button" value="Back"/>	

Picture 59 - Configure the proxy account-hotel Guest mode

Table 6 - Agency mode

Parameter	Description
Normal mode	
Number	Set the proxy account number.
User	Set the proxy account number to verify the user name.
Password	Set the proxy account number to verify the password.
Line	Select the SIP line.
CallLog	Users can choose to save all types, or delete.
Hotel Guest 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 retains the user name and password, and logs out of the SIP account.

Agent	
Type	Normal
Number	124
Line	124
Status	Logon
Call Logs	Save all
<input type="button" value="Logoff"/> <input type="button" value="Deactive"/> <input type="button" value="Save"/> <input type="button" value="Back"/>	

Picture 60 - Agent logon page

9.5 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 61 - Multicast Settings Page

Table 7 - MCAST Parameters on Web

Parameters	Description
Normal Call Priority	Define the priority of the active call, 1 is the highest priority, 10 is the lowest.
Enable Page Priority	The voice call in progress shall take precedence over all incoming paging calls.

Name	Listened multicast server name
Host:port	Listened multicast server's multicast IP address and port.

Multicast:

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

9.6 SCA (Shared Call Appearance)

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

<http://www.fanvil.com/Uploads/Temp/download/20180920/5ba38181e4e4b.pdf>

1) Configure on Phone

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

The user name and password of the primary account created

Created SCA accounts

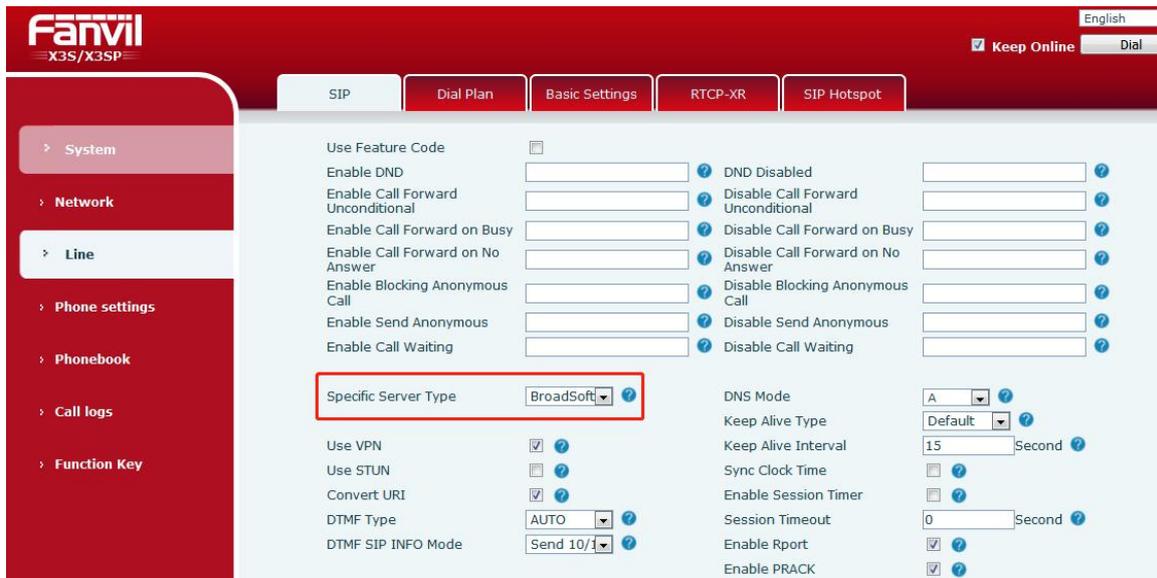
Broadsoft Server address

Basic Settings >>

Codecs Settings >>

Picture 62 - Register BroadSoft account

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



Picture 63 - Set BroadSoft server

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



Picture 64 - 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 To facilitate private hold, configure keys whose DSS Key is Private Hold on the Function Key page. Pay attention that the public hold key is the softkey-hold key during a call.



Picture 65 - Set Private Hold Function Key

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

2) LED Status

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

Table 8 - LED Status of SCA

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

3) Shared Call Appearance(SCA)

The following lists a couple of instances to facilitate understanding.

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

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

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

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

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

9.7 Message

9.7.1 SMS

If the service of the line supports the function of the short message, when the other end sends a text message to the number, the user will receive the notification of the short message and display the icon of the

new SMS on the standby screen interface.



Picture 66 - SMS icon

Send messages:

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

View SMS:

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

Reply to SMS:

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

9.7.2 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.



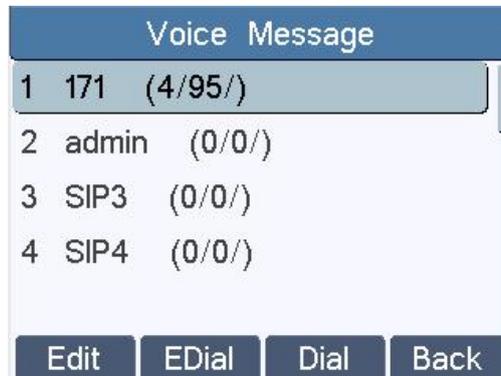
Picture 67 - New Voice Message Notification

To listen to a voice message, the user must first configure the voicemail number. After the voicemail number

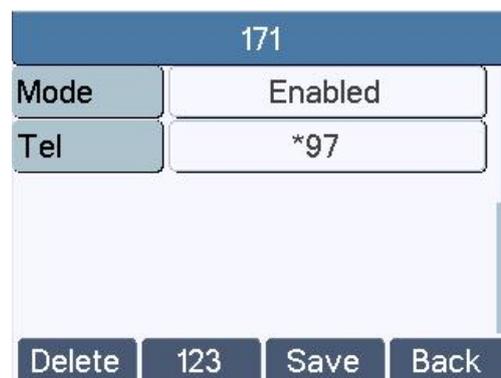
is configured, the user can retrieve the voicemail of the default line.

When the phone is in the default standby state,

- Press **[MWI]** to open the voice message configuration interface, and select the line to be configured by pressing the up/down navigation buttons.
- Press the **[Edit]** button to edit the voice message number. When finished, press the **[OK]** button to save the configuration.
- In the following picture, “4” in front of Fanvil line brackets represents unread voice messages, and “95” represents the total number of voice messages.



Picture 68 - Voice message interface



Picture 69 - Configure voicemail number

9.8 SIP Hotspot

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

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

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

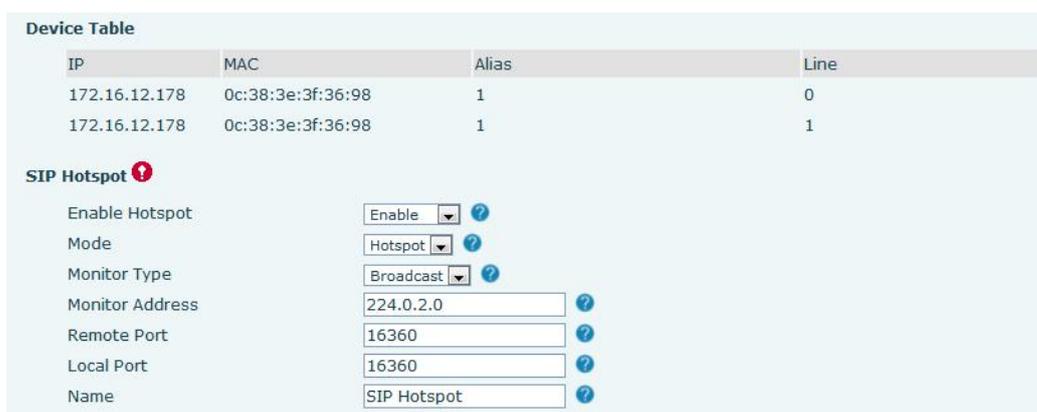


Picture 70 - Register SIP account

Table 9 - SIP hotspot Parameters

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

Configure SIP hotspot server:



Picture 71 - 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.

Device Table

IP	MAC	Alias	Line
172.16.12.178	0c:38:3e:3f:36:98	1	0

SIP Hotspot

- Enable Hotspot: Enable
- Mode: Client
- Monitor Type: Broadcast
- Monitor Address: 224.0.2.0
- Remote Port: 16360
- Local Port: 16360
- Name: SIP Hotspot

Picture 72 - SIP hotspot client configuration

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

Call extension number:

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

10 Phone Settings

10.1 Basic Settings

10.1.1 Language

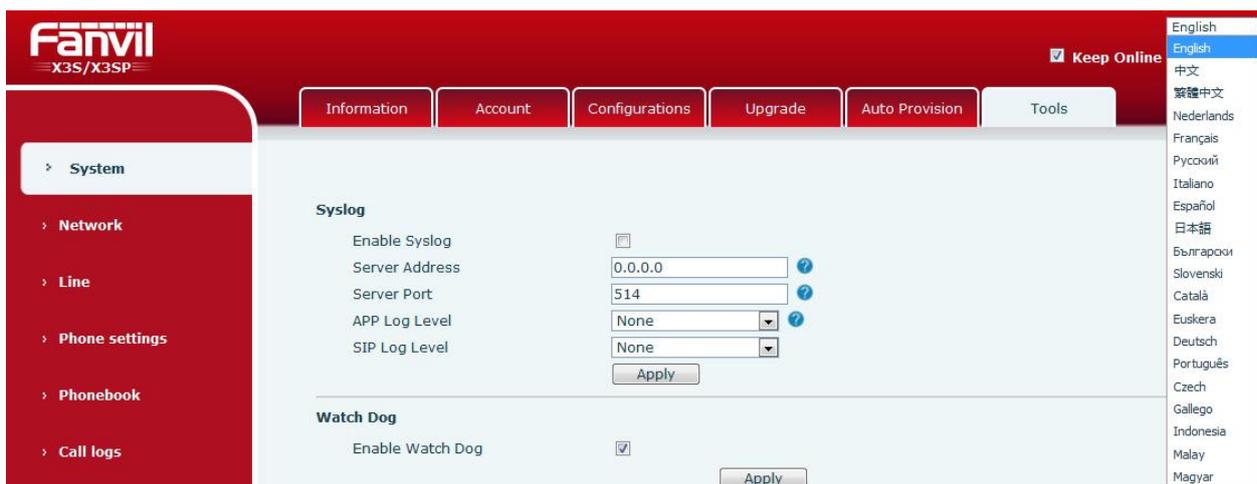
The user can set the phone language through the phone interface and web interface.

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



Picture 73 - 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 74 - Language setting on Web page

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

10.1.2 Time & Date

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

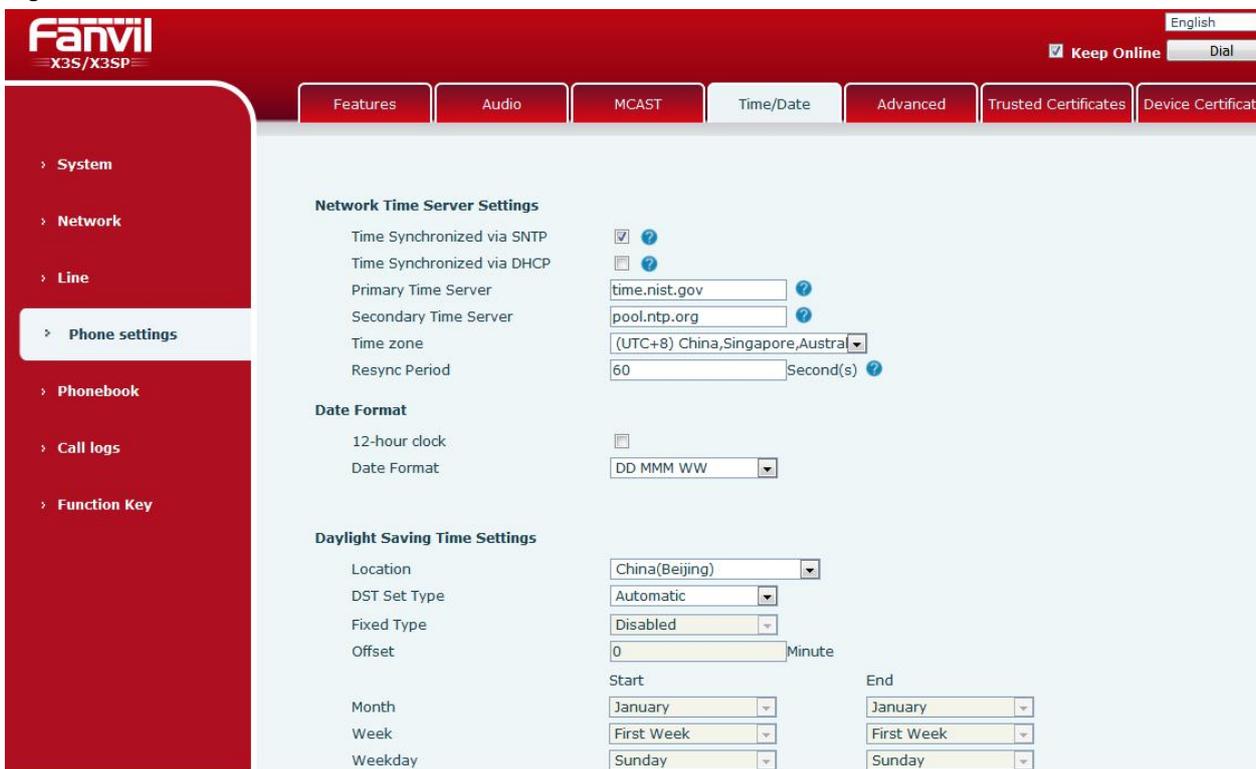
- Phone end: When the phone is in the default standby state, press the **[Menu] >> [Basic] >> [Time &**

Date] , use the up/down navigation button to edit parameters, press the **[OK]** to save after completion, as shown in the figure:



Picture 75 - 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 76 - Set time & date on webpage

Table 10 - Time Settings Parameters

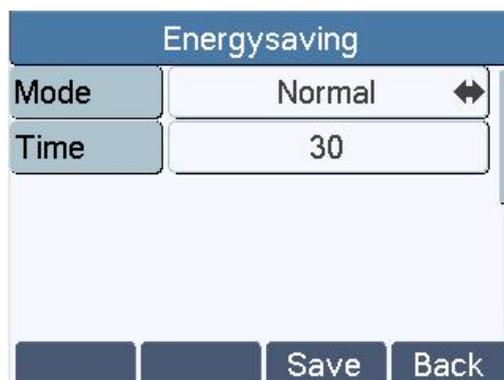
Parameters	Description
Mode	Auto/Manual Auto: Enable network time synchronization via SNTP protocol, default enabled. Manual: User can modify data manually.
SNTP Server	SNTP server address

Time zone	Select the time zone
Time format	Select time format from one of the followings: <ul style="list-style-type: none"> ■ 1 JAN, MON ■ 1 January, Monday ■ JAN 1, MON ■ January 1, Monday ■ MON, 1 JAN ■ Monday, 1 January ■ MON, JAN 1 ■ Monday, January 1 ■ DD-MM-YY ■ DD-MM-YYYY ■ MM-DD-YY ■ MM-DD-YYYY ■ YY-MM-DD ■ YYYY-MM-DD
Separator	Choose the separator between year and moth and day
12-Hour Clock	Display the clock in 12-hour format
Daylight Saving Time	Enable or Disable the Daylight Saving Time

10.1.3 Screen

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

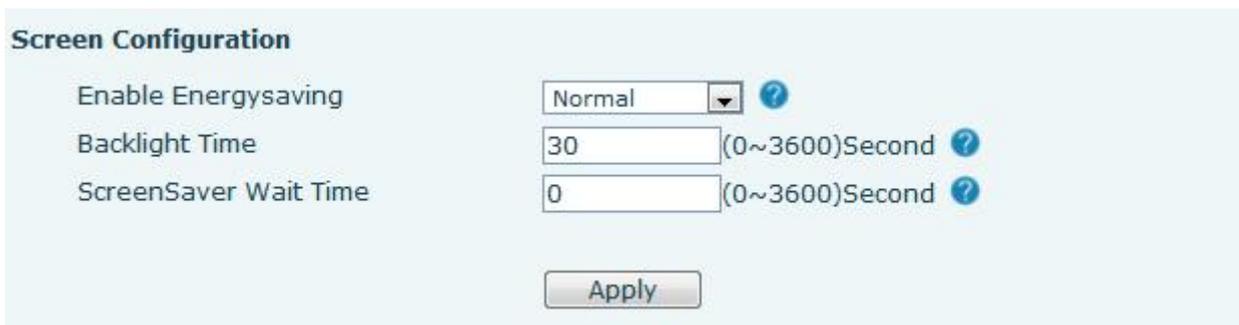
- Phone: When the phone is in the default standby state, go to **[Menu] >> [Settings] >> [Basic Settings] >> [Screen Settings] >> [Energysaving]**, Press the left and right navigation keys to turn on/off the energy saving mode, and enter the energy saving time. After completion, press **[OK]** or **[save]** to save, as shown below:



Picture 77 - Set screen parameters on phone

- Web: Go to **[Phone Settings] >> [Advanced] >> [Screen Configuration]**Advanced, edit the screen

parameters, and click Apply to save.



Picture 78 - Set screen parameters on webpage

10.1.3.1 Screen Saver

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



Picture 79 - Phone screen saver

10.1.4 Ring

When the device is in the default standby mode,

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

10.1.5 Voice Volume

When the device is in the default standby mode,

- Press soft-button [**Menu**] till you find the [**Basic**] item.
- Enter [**Basic**] item till you find [**Voice Volume**] item.
- Enter [**Voice Volume**] item and you will find [**Headset**], [**Handsfree**] and [**Headset**] item.

- Enter [**Headset**] or [**Handsfree**] or [**Headset**] item, press Left / Right navigator keys to adjust the audio volume for different mode.
- Save the adjustment by pressing [**OK**] when done.

10.1.6 Greeting Words

When the device is in the default standby mode,

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

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

10.1.7 Reboot

When the device is in the default standby mode,

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

The phone is in standby mode,

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

10.2 Phone Book

10.2.1 Local Contact

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

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



Picture 80 - Phone book screen

Note! *The phone's user account can store up to 600 contacts.*



Picture 81 - Local Phone book

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

10.2.1.1 Add / Edit / Delete Contact

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

- Contact Name
- Number
- Mobile Number
- Other Number
- Ring Tone



Picture 82 - Add New Contact

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

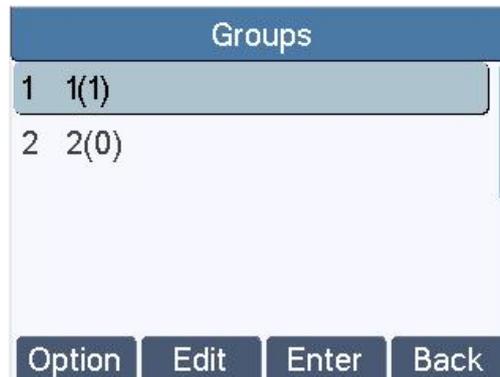
To delete a contact, user should move the record indicator to the position of the contact to be deleted, press [Option] >> [Delete] button and confirm with [OK].

10.2.1.2 Add / Edit / Delete Group

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

- To add a group, press **[Add Group]** button.
- To delete a group, press **[Option] >> [Delete]** button.
- To edit a group, press **[Edit]** button.

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



Picture 83 - Group List

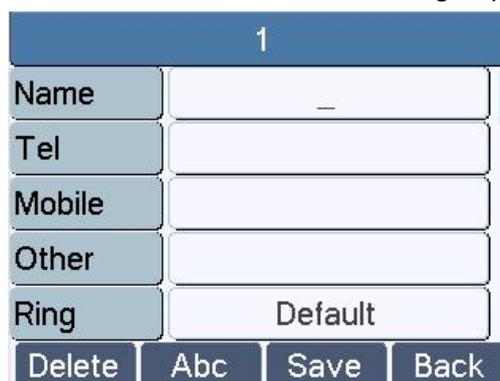
10.2.1.3 Browse and Add / Remove Contacts in Group

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



Picture 84 - Browsing Contacts in a Group

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

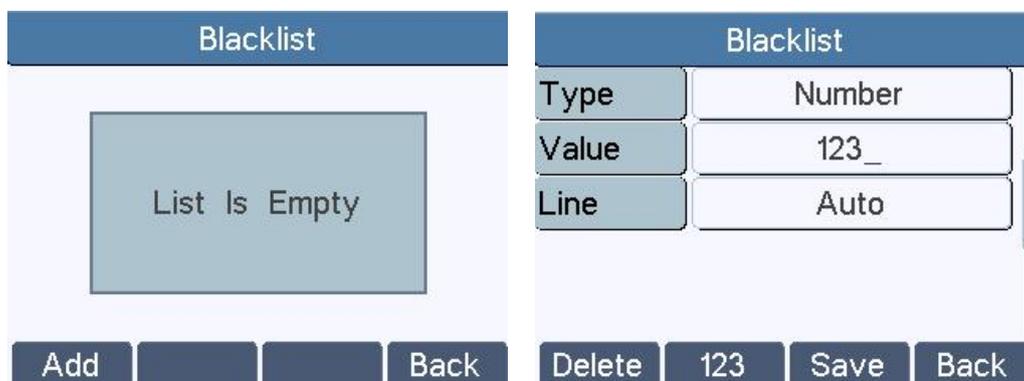


Picture 85 - Add Contacts in a Group

10.2.2 Blacklist

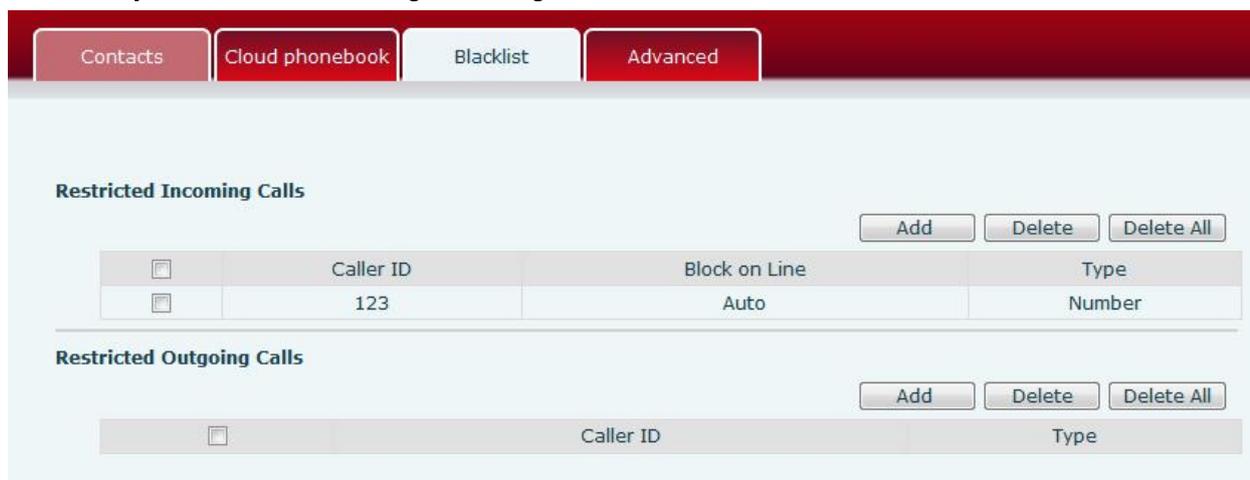
The device Support blacklist, such as the number added to the blacklist, the number of calls directly refused to the end, the end of the phone shows no incoming calls. (Blacklisted Numbers can be called out normally)

- phone can be added to the blacklist in a variety of ways, which can be directly added in the **[Menu] >> [Contact] >> [Blacklist]**.
- 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 86 - Add Blacklist

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



Picture 87 - Web Blacklist

10.2.3 Cloud Phone Book

10.2.3.1 Configure Cloud Phone book

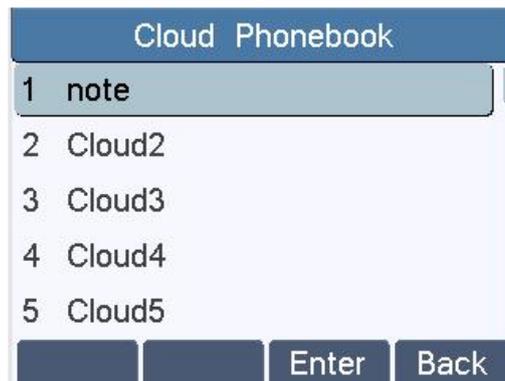
Cloud phonebook allows user to configure the device by downloading a phonebook from a cloud server. This is convenient for office users to use the phonebook from a single source and save the effort to create and maintain the contact list individually. It is also a useful tool to synchronize his/her phonebook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

mobile phone to the device with Fanvil Cloud Phonebook Service and App which is to be provided publicly soon.

NOTICE! The cloud phonebook is **ONLY temporarily downloaded to the device each time when it is opened on the device to ensure the user get the latest phonebook. However, the downloading may take a couple seconds depending on the network condition. Therefore, it is highly recommended for the users to save important contacts from cloud to local phonebook for saving download time.**

Open cloud phonebook list, press **[Menu] >> [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 88 - Cloud phone book list

10.2.3.2 Downloading Cloud Phone book

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

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



Picture 89 - Load the cloud phone book



Picture 90 - Browsing Contacts in Cloud Phone book

10.3 Call Log

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

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

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

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



Picture 91 - Call Logs

10.4 Function Key

DSS Key1	
Type	Memory Key
Tel	
Name	
Line	admin
Subtype	None ↔
<input type="button" value="Save"/> <input type="button" value="Back"/>	

Picture 92 - DSS LCD key Page Configuration Screen

The DSS Key could be configured as followings,

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

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

Key	Type	Name	Value	Subtype	Line	PickUp Number
DSS Key 1-1	Line		123	Call Park	SIP1	
DSS Key 1-2	Line			None	SIP2	

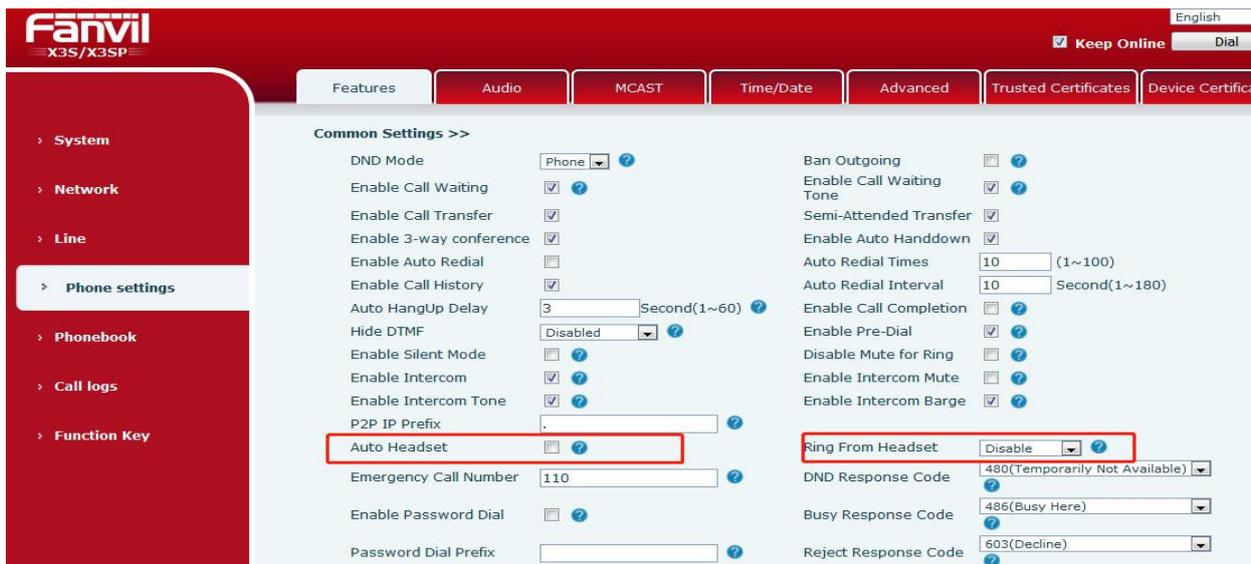
Picture 93 - DSS settings

10.5 Headset

10.5.1 Wired 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

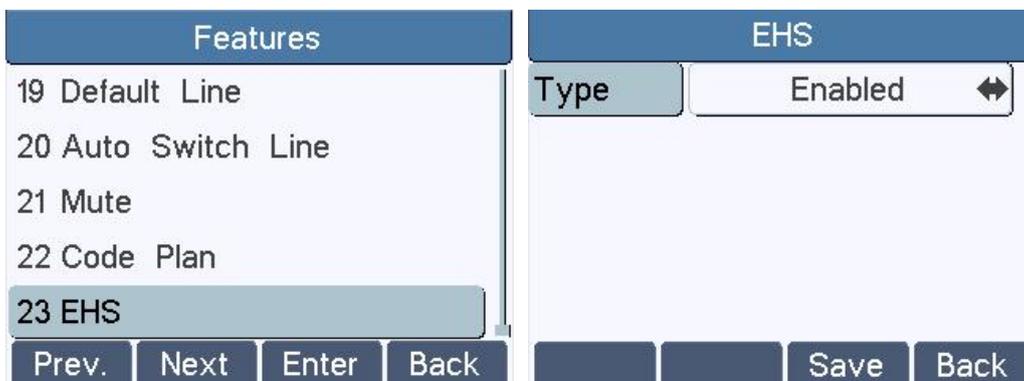
ring tone for headset.



Picture 94 - Headset function settings

10.5.2 EHS Headset

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



Picture 95 - EHS Headset setting

10.6 Advanced

10.6.1 Line Configurations

Picture 96 - SIP address and account information

Save the adjustment by pressing [OK] when done.

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

Picture 97 - Configure Advanced Line Options

10.6.2 Network Settings

10.6.2.1 Network Settings

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

Picture 98 - 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.

PPPoE Settings	
User	user123_
Passwd	*****
Status	Disabled
<div style="display: flex; justify-content: space-between; margin-top: 10px;"> Delete 2aB Save Back </div>	

Picture 99 - PPPoE network mode

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

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

Static IP Settings	
IP Addr.	172.16.12.144
Mask	255.255.255.0
Gateway	172.16.12.1
DNS1	123.125.81.6
DNS2	223.5.5.5
<div style="display: flex; justify-content: space-between; margin-top: 10px;"> Delete 123 Save Back </div>	

Picture 100 - Static IP network mode

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

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

10.6.2.2 QoS & VLAN

■ LLDP

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

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

the VLAN ID from VLAN switch to phone its self.

■ **CDP**

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

Table 11 - QoS & VLAN

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

10.6.2.3 VPN

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

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

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

■ **L2TP**

To establish a L2TP connection, users should log in to the device web portal, open webpage [**Network**] >> [**VPN**]. In VPN Mode, check the “Enable VPN” option and select “L2TP”, then fill in the L2TP server address, Authentication Username, and Authentication Password in the L2TP section. Press “Apply” then the device will try to connect to the L2TP server.

When the VPN connection established, the VPN IP Address should be displayed in the VPN status. There may be the delay of the connection establishment. User may need to refresh the page to update the status. Once the VPN is configured, the device will try to connect with the VPN automatically when the device boots up every time until user disable it. Sometimes, if the VPN connection does not establish immediately, user may try to reboot the device and check if VPN connection established after reboot.

■ OpenVPN

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

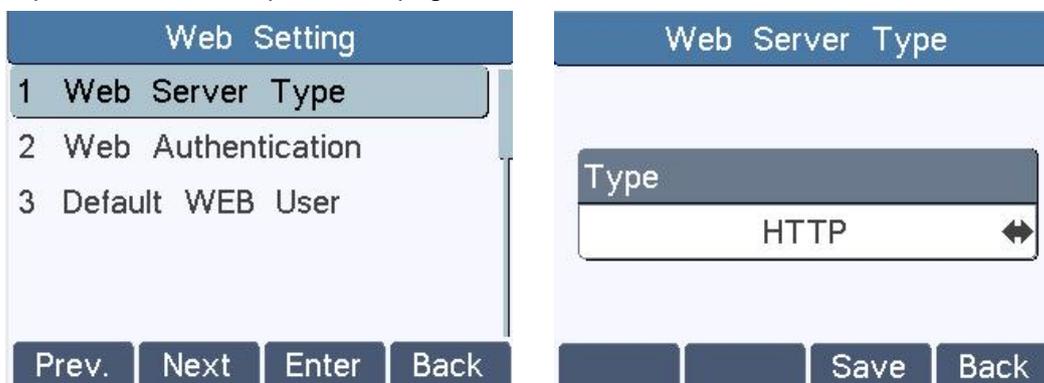
OpenVPN Configuration file: client.ovpn
 CA Root Certification: ca.crt
 Client Certification: client.crt
 Client Key: client.key

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

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

10.6.2.4 Web Server Type

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



Picture 101 - The phone configures the web server type

10.6.3 Set The Secret Key

When the device is in the default standby mode,

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



Picture 102 - Keypad lock password

Menu password is the permission for accessing the advanced setting.

- **[Current password]** is the password user configured before. If no configuration before, the default password is 123.
- **[New password]** is the new password user to use.
- After configuring the menu password, it will work immediately.

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



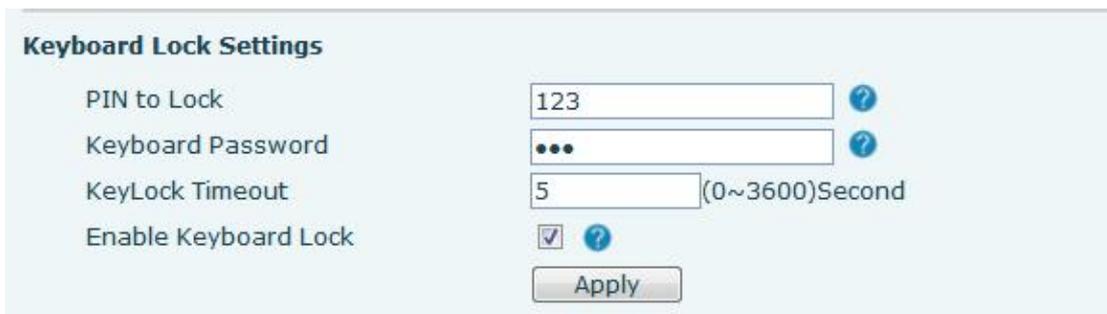
Picture 103 - Set keyboard lock password

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

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



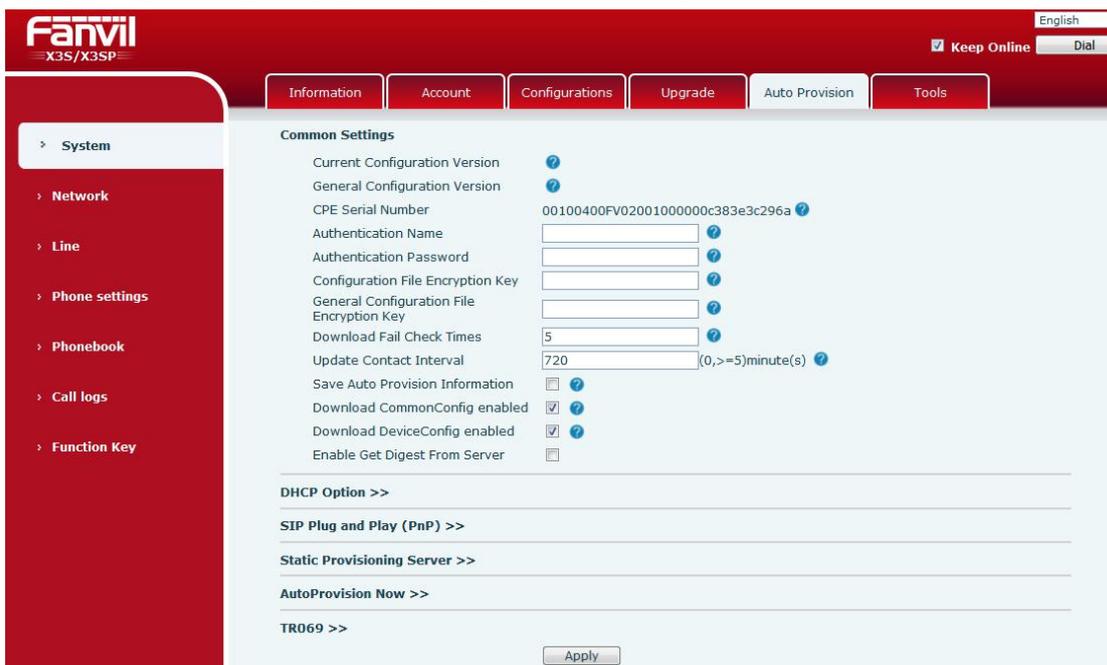
Picture 104 - Phone keypad lock password input interface



Picture 105 - Web keyboard lock password Settings

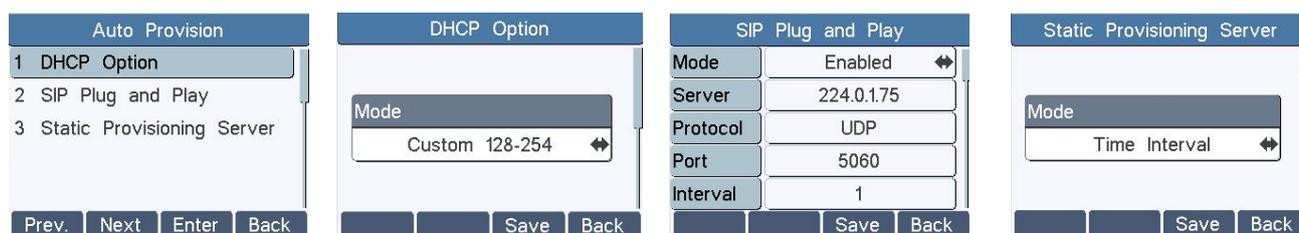
10.6.4 Maintenance

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



Picture 106 - Page auto provision Settings

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



Picture 107 - 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**

<http://www.fanvil.com/Uploads/Temp/download/20180920/5ba3816f8d5f0.pdf>

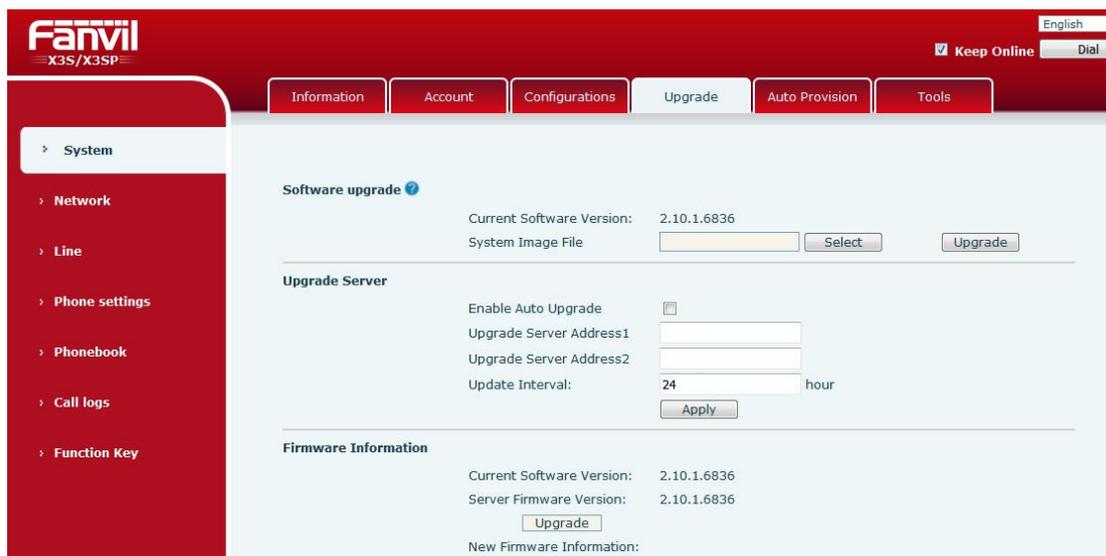
Table 12 - Auto Provision

Parameters	Description
Basic settings	
CPE Serial Number	Display the device SN
Authentication Name	The user name of provision server
Authentication Password	The password of provision server
Configuration File 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.
DHCP Option	
Option Value	Configure DHCP option, DHCP option supports DHCP custom option DHCP option 66 DHCP option 43, 3 methods to get the provision URL. The default is Option 66

Custom Option Value	Custom Option value is allowed from 128 to 254. The option value must be same as server define.
Enable DHCP Option 120	Use Option120 to get the SIP server address from DHCP server.
SIP Plug and Play (PnP)	
Enable SIP PnP	Whether enable PnP or not. If PnP is enable, phone will send a SIP SUBSCRIBE message with broadcast method. Any server can support the feature will respond and send a Notify with URL to phone. Phone could get the configuration file with the URL.
Server Address	Broadcast address. As default, it is 224.0.0.0.
Server Port	PnP port
Transport Protocol	PnP protocol, TCP or UDP.
Update Interval	PnP message interval.
Static Provisioning Server	
Server Address	Provisioning server address. Support both IP address and domain address.
Configuration File Name	The configuration file name. If it is empty, phone will request the common file and device file which is named as its MAC address. The file name could be a common name, \$mac.cfg, \$input.cfg. The file format supports CFG/TXT/XML.
Protocol Type	Transferring protocol type , supports FTP、TFTP、HTTP and HTTPS
Update Interval	Configuration file update interval time. As default it is 1, means phone will check the update every 1 hour.
Update Mode	Provision Mode. 1. Disabled. 2. Update after reboot. 3. Update after interval.
TR069	
Enable TR069	Enable TR069 after selection
ACS Server Type	There are 2 options Serve type, common and CTC.
ACS Server URL	ACS server address
ACS User	ACS server username (up to is 59 character)
ACS Password	ACS server password (up to is 59 character)
Enable TR069 Warning Tone	If TR069 is enabled, there will be a prompt tone when connecting.
TLS Version	TLS version (TLS 1.0, TLS 1.1, TLS 1.2)
INFORM Sending Period	INFORM signal interval time. It ranges from 1s to 999s
STUN Server Address	Configure STUN server address
STUN Enable	To enable STUN server for TR069

10.6.5 Firmware Upgrade

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



Picture 108 - Web page firmware upgrade

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



Picture 109 - Firmware upgrade information display

Table 13 - Firmware upgrade

Parameter	Description
Upgrade server	
Enable Auto Upgrade	Enable automatic upgrade, If there is a new version txt and new software firmware on the server, phone will show a prompt upgrade message after Update Interval.
Upgrade Server Address1	Set available upgrade server address.
Upgrade Server Address2	Set available upgrade server address.
Update Interval	Set Update Interval.
Firmware Information	
Current Software Version	It will show Current Software Version.

Server Firmware Version	It will show Server Firmware Version.
[Upgrade] button	If there is a new version txt and new software firmware on the server, the page will display version information and upgrade button will become available; Click [Upgrade] button to upgrade the new firmware.
New version description information	When there is a corresponding TXT file and version on the server side, the TXT and version information will be displayed under the new version description information.

- The file requested from the server is a TXT file called vendor_model_hw10.txt.Hw followed by the hardware version number, it will be written as hw10 if no difference on hardware. All Spaces in the filename are replaced by underline.
- The URL requested by the phone is HTTP:// server address/vendor_Model_hw10.txt: The new version and the requested file should be placed in the download directory of the HTTP server, as shown in the figure:

名称	修改日期	类型	大小
fanvil_x6_hww1_0.txt	2018/9/11 17:57	文本文档	1 KB
fanvil_x6_hww1_1.txt	2018/9/11 17:57	文本文档	1 KB
fanvil_x6_hww1_2.txt	2018/9/11 17:57	文本文档	1 KB
fanvil_x6_hww1_3.txt	2018/9/11 17:57	文本文档	1 KB
x6-6904-P0.12.12-1.6.3-2502T2018-0...	2018/8/21 19:52	WinRAR 压缩文...	35,847 KB

- TXT file format must be UTF-8
- vendor_model_hw10.TXT The file format is as follows:
Version=1.6.3 #Firmware
Firmware=xxx/xxx.z #URL, Relative paths are supported and absolute paths are possible, distinguished by the presence of protocol headers.
BuildTime=2018.09.11 20:00
Info=TXT|XML

Xxxxx
Xxxxx
Xxxxx
Xxxxx
- After the interval of update cycle arrives, if the server has available files and versions, the phone will prompt as shown below. Click [view] to check the version information and upgrade.

10.6.6 Factory Reset

- 1) The phone is in default standby mode.
 - Press [Menu] to find [Advanced Settings], and press [OK].

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

11 Web Configurations

11.1 Web Page Authentication

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

11.2 System >> Information

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

- Model
- Hardware Version
- Software Version
- Uptime

And summarization of network status,

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

Besides, summarization of SIP account status,

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

11.3 System >> Account

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

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

11.4 System >> Configurations

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

- **Clear Configurations**
 - Clear ETC directory
 - Clear contacts
 - Clear call log

11.5 System >> Upgrade

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

11.6 System >> Auto Provision

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

<http://www.fanvil.com/Uploads/Temp/download/20180920/5ba3816f8d5f0.pdf>

11.7 System >> Tools

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

11.8 System >> Reboot Phone

This page can restart the phone.

12 Network >> Basic

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

12.1 Network >> Service Port

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

Picture 110 - Service Port Settings

Table 14 - Service port

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

12.2 Network >> VPN

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

12.3 Network >> Advanced

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

12.4 Line >> SIP

Configure the Line service configuration on this page.

Table 15 - Line configuration on the web page

Parameters	Description
Register Settings	
Line Status	Display the current line status at page loading. To get the up to date line status, user has to refresh the page manually.
Activate	Whether the service of the line is activated
Username	Enter the username of the service account.
Authentication User	Enter the authentication user of the service account
Display Name	Enter the display name to be sent in a call request.
Authentication Password	Enter the authentication password of the service account
Realm	Enter the SIP domain if requested by the service provider
Server Name	Input server name.
SIP Server 1	
Server Address	Enter the IP or FQDN address of the SIP server
Server Port	Enter the SIP server port, default is 5060
Transport Protocol	Set up the SIP transport line using TCP or UDP or TLS.
Registration Expiration	Set SIP expiration date.
SIP Server 2	
Server Address	Enter the IP or FQDN address of the SIP server
Server Port	Enter the SIP server port, default is 5060
Transport Protocol	Set up the SIP transport line using TCP or UDP or TLS.
Registration Expiration	Set SIP expiration date.
SIP Proxy Server Address	Enter the IP or FQDN address of the SIP proxy server.
Proxy Server Port	Enter the SIP proxy server port, default is 5060.
Proxy User	Enter the SIP proxy user.
Proxy Password	Enter the SIP proxy password.
Backup Proxy Server Address	Enter the IP or FQDN address of the backup proxy server.
Backup Proxy Server Port	Enter the backup proxy server port, default is 5060.
Basic Settings	

Enable Auto Answering	Enable auto-answering, the incoming calls will be answered automatically after the delay time
Auto Answering Delay	Set the delay for incoming call before the system automatically answered it
Call Forward Unconditional	Enable unconditional call forward, all incoming calls will be forwarded to the number specified in the next field
Call Forward Number for Unconditional	Set the number of unconditional call forward
Call Forward on Busy	Enable call forward on busy, when the phone is busy, any incoming call will be forwarded to the number specified in the next field.
Call Forward Number for Busy	Set the number of call forward on busy .
Call Forward on No Answer	Enable call forward on no answer, when an incoming call is not answered within the configured delay time, the call will be forwarded to the number specified in the next field.
Call Forward Number for No Answer	Set the number of call forward on no answer.
Call Forward Delay for No Answer	Set the delay time of not answered call before being forwarded.
Transfer Timeout	Set the timeout of call transfer process.
Conference Type	Set the type of call conference, Local=set up call conference by the device itself, maximum supports two remote parties, Server=set up call conference by dialing to a conference room on the server
Server Conference Number	Set the conference room number when conference type is set to be Server
Subscribe For Voice Message	Enable the device to subscribe a voice message waiting notification, if enabled, the device will receive notification from the server if there is voice message waiting on the server
Voice Message Number	Set the number for retrieving voice message
Voice Message Subscribe Period	Set the interval of voice message notification subscription
Enable Hotline	Enabling hotline configuration, the device will dial to the specific number immediately at audio channel opened by off-hook handset or turn on hands-free speaker or headphone
Hotline Delay	Set the delay for hotline before the system automatically dialed it
Hotline Number	Set the hotline dialing number
Dial Without Registered	Set call out by proxy without registration
Enable Missed Call Log	If enabled, the phone will save missed calls into the call history record.
DTMF Type	Set the DTMF type to be used for the line

DTMF SIP INFO Mode	Set the SIP INFO mode to send '*' and '#' or '10' and '11'
Enable DND	Enable Do-not-disturb, any incoming call to this line will be rejected automatically
Subscribe For Voice Message	Enable the device to subscribe a voice message waiting notification, if enabled, the device will receive notification from the server if there is voice message waiting on the server
Use VPN	Set the line to use VPN restrict route
Use STUN	Set the line to use STUN for NAT traversal
Enable Failback	Whether to switch to the primary server when it is available.
Failback Interval	A Register message is used to periodically detect the time interval for the availability of the main Proxy.
Signal Failback	Multiple proxy cases, whether to allow the invite/register request to also execute failback.
Signal Retry Counts	The number of attempts that the SIP Request considers proxy unavailable under multiple proxy scenarios.
Codecs Settings	Set the priority and availability of the codecs by adding or remove them from the list.
Video Codecs	Select video code to preview video.
Advanced Settings	
Use Feature Code	When this setting is enabled, the features in this section will not be handled by the device itself but by the server instead. In order to control the enabling of the features, the device will send feature code to the server by dialing the number specified in each feature code field.
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
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

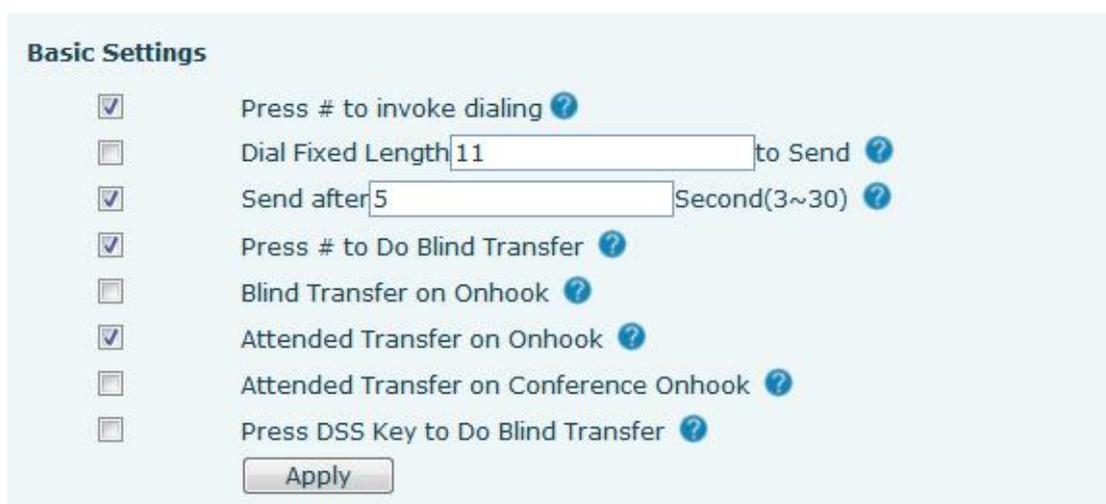
Enable Rport	Set the line to add rport in SIP headers
Enable PRACK	Set the line to support PRACK SIP message
DNS Mode	Select DNS mode, A, SRV, NAPTR
Enable Long Contact	Allow more parameters in contact field per RFC 3840
Enable Strict Proxy	Enables the use of strict routing. When the phone receives packets 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)
CallPark Number	Set the CallPark number.
Server Expire	Set the timeout to use the server.
TLS Version	Choose TLS Version.
uaCSTA Number	Set uaCSTA Number.
Enable Click To Talk	With the use of special server, click to call out directly after enabling.
Flash mode	Chose Flash mode, normal or SIP info.
Flash Info Content-Type	Set the SIP info content type.
Flash Info Content-Body	Set the SIP info content body.
PickUp Number	Set the scramble number when the Pickup is enabled.
JoinCall Number	Set JoinCall Number.
Intercom Number	Set Intercom Number.
Unregister On Boot	Whether to enable logout function.
Enable MAC Header	When opening the registration, are IP package and user agent with MAC.
Enable Register MAC Header	When opening the registration, is user agent with MAC.
BLF Dialog Strict Match	Whether to enable accurate matching of BLF sessions.
PTime(ms)	Set whether to bring ptime field, default no.
SIP Global Settings	
Strict Branch	Set up to strictly match the Branch field.

Enable Group	Set open group.
Enable RFC4475	Set to enable RFC4475.
Enable Strict UA Match	Enable strict UA matching.
Registration Failure Retry Time	Set the registration failure retry time.
Local SIP Port	Modify the phone SIP port.

12.5 Line >> SIP Hotspot

Please refer to [9.8 SIP Hotspot](#).

12.6 Line >> Dial Plan



Picture 111 - Dial plan settings

Table 16 - Phone 7 dialing methods

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

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

Add dialing rules:

Picture 112 - Custom setting of dial - up rules

Table 17 - Dial - up rule configuration table

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

<ul style="list-style-type: none"> ■ rep: xxx – xxx will be substituted for the specified characters. 	
Suffix	Characters to be added at the end of the phone number. It is an optional item.
Length	Set the number of characters to be deleted. For example, if this is set to 3, the phone will delete the first 3 digits of the phone number. It is an optional item.

12.7 Line >> Basic Settings

Set up the register global configuration.

Table 18 - Set the line global configuration on the web page

Parameters	Description
STUN Settings	
Server Address	Set the STUN server address
Server Port	Set the STUN server port, default is 3478
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
The TLS authentication	
TLS Certification File	Upload or delete the TLS certification file used for encrypted SIP transmission.

12.8 Phone settings >> Features

Configuration phone features.

Table 19 - General function Settings

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

	Auto Onhook time at handset mode
Ring for Headset	Enable Ring for Handset by selecting it, the phone plays ring tone from handset.
Auto Headset	Enable this feature, headset plugged in the phone, user press 'answer' key 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	Configure the Emergency Call Number. Despite the keyboard is locked, you can

Number	dial the emergency call number
Restrict Active URI Source IP	Set the device to accept Active URI command from specific IP address. More details please refer to this link http://www.fanvil.com/Uploads/Temp/download/20180920/5ba3641fe81a5.pdf .
Push XML Server	Configure the Push XML Server, when phone receives request, it will determine whether to display corresponding content on the phone which sent by the specified server or not.
Enable Pre-Dial	Disable this feature, user enter number will open audio channel automatically. Enable the feature, user enter the number without opening audio channel.
Enable Multi Line	If enabled, up to 10 simultaneous calls can exist on the phone, and if disabled, up to 2 simultaneous calls can exist on the phone.
Line Display Format	Custom line format: SIPn/SIPn: xxx/xxx@SIPn
Contact As White List Type	NONE/BOTH/DND White List/FWD White List
Block XML When Call	Disable XML push on call.
SIP notify	When enabled, the phone displays the information when it receives the relevant notify content.
Tone Settings	
Enable Holding Tone	When turned on, a tone plays when the call is held
Enable Call Waiting Tone	When turned on, a tone plays when call waiting
Play Dialing DTMF Tone	Play DTMF tone on the device when user pressed a phone digits at dialing, default enabled.
Play Talking DTMF Tone	Play DTMF tone on the device when user pressed a phone digits during taking, default enabled.
DND Settings	
DND Option	Select to take effect on the line or on the phone or close.
Enable DND Timer	Enable DND Timer, If enabled, the DND is automatically turned on from the start time to the off time.
DND Start Time	Set DND Start Time
DND End Time	Set DND End Time
Intercom Settings	
Enable Intercom	When intercom is enabled, the device will accept the incoming call request with a SIP header of Alert-Info instruction to automatically answer the call after specific delay.
Enable Intercom Mute	Enable mute mode during the intercom call
Enable Intercom	If the incoming call is intercom call, the phone plays the intercom tone

Tone	
Enable Intercom Barge	Enable Intercom Barge by selecting it, the phone auto answers the intercom call during a call. If the current call is intercom call, the phone will reject the second intercom call
Response Code Settings	
DND Response Code	Set the SIP response code on call rejection on DND
Busy Response Code	Set the SIP response code on line busy
Reject Response Code	Set the SIP response code on call rejection
Password Dial Settings	
Enable Password Dial	Enable Password Dial by selecting it, When number entered is beginning with the password prefix, the following N numbers after the password prefix will be hidden as *, N stand for the value which you enter in the Password Length field. For example: you set the password prefix is 3, enter the Password Length is 2, then you enter the number 34567, it will display 3**67 on the phone.
Encryption Number Length	Configure the Encryption Number length
Password Dial Prefix	Configure the prefix of the password call number
Power LED	
Common	Standby power lamp state, off when off, open is always bright red. Off by default.
SMS/MWI	The status of power lamp when there is unread short message/voice message, including off/on/slow flash/quick flash, default slow flash.
Missed	The state of the power lamp when there is a missed call, including off/on/slow flash/quick flash, the default slow flash.
Talk/Dial	In the talk/dial state, the power lamp state, off is off, on is always red bright, the default is off.
Ringing	Power lamp status when there is an incoming call, including off/on/slow flash/quick flash, default flash.
Mute	Power lamp status in mute mode, including off/on/slow flash/quick flash, off by default.
Hold/Held	The power lamp state, including off/on/slow flash/quick flash, is turned off by default when left/retained.
Notification Popups	
Display Missed Call Popup	No incoming call popup prompt after opening, no popup prompt when closing, open by default.
Display MWI Popup	Voice message popup prompt is not answered after opening, and it is opened by default if there is no popup prompt when closing.

Display Device Connect Popup	There is a popup prompt when the WIFI adapter is connected. There is no popup prompt when the WIFI adapter is closed. It is on by default.
Display SMS Popup	There is popup prompt for unread messages after opening, and there is no popup prompt when closing. It is opened by default.
Display Other Popup	When the handle is not hung back after opening, registration fails, IP acquisition fails, Tr069 connection fails and other abnormalities, there will be popup prompt when it is opened; otherwise, there will be no prompt when it is closed, and it will be opened by default.

12.9 Phone settings >> Media Settings

Change voice Settings.

Table 20 - Voice settings

Parameters	Description
Codecs Settings	Select enable or disable voice encoding: G.711A/U,G.722,G.729, G.726-16,G726-24,G726-32,G.726-40, ILBC, Opus
Audio Settings	
Handset Volume	Set the Handset volume, the value must be 1~9
Default Ring Type	Configure default ringtones. If no special ringtone is set for the phone number, the default ringtone will be used.
Speakerphone Volume	Set the hands-free volume to 1-9.
Headset Ring Volume	Set the volume of the earphone ringtone to 1~9.
Headset Volume	Set the volume of the headset to 1~9.
Speakerphone Ring Volume	Set the volume of hands-free ringtone to 1~9.
G.723.1 Bit Rate	5.3kb/s or 6.3kb/s is available.
DTMF Payload Type	Enter the DTMF payload type, the value must be 96~127.
AMR Payload Type	Set AMR load type, range 96~127.
Headset Mic Gain	Set the earphone's radio volume gain to fit different models of earphones.
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.
RTP Control Protocol(RTCP) Settings	
CNAME user	Set CNAME user
CNAME host	Set CNAME host
RTP Settings	
RTP keep alive	Hold the call and send the packet after 30s
Alert Info Ring Settings	
Value	Set the value to specify the ring type.
Ring Type	Type1-Type9

12.10 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 21 - 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.

12.11 Phone settings >> Action

Action URL

Note! Action urls are used for IPPBX systems to submit phone events. Please refer to Fanvil Action URL for details.

<http://www.fanvil.com/Uploads/Temp/download/20180920/5ba3641fe81a5.pdf>

12.12 Phone settings >> Time/Date

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

Table 22 - Time&Date settings

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

12.13 Phone settings >> Advanced

User can configure the advanced configuration settings in this page.

- Screen Configuration.

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

The password is 123 by default.

- Keyboard Lock Settings.
- Configure Greeting Words

The greeting message will display on the top left corner of the LCD when the device is idle, which is limited to 16 characters. The default chars are 'VOIP PHONE'.

12.14 Security >> Trust Certificates

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

Picture 113 - Certificate of settings

12.15 Security >> Device Certificates

Select the device certificate as the default and custom certificate. You can upload and delete uploaded certificates.

Picture 114 - Device certificate setting

12.16 Phonebook >> Contact

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

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

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

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

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

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

12.17 Phonebook >> Cloud phonebook

Cloud Phonebook

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

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

- Phonebook name (must)

- Phonebook URL (must)

- Access username (optional)

- Access password (optional)

LDAP Settings

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

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

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

- Display Title (must)

- LDAP Server Address (must)

- LDAP Server Port (must)

- Search Base (must)

- Access username (optional)

- Access password (optional)

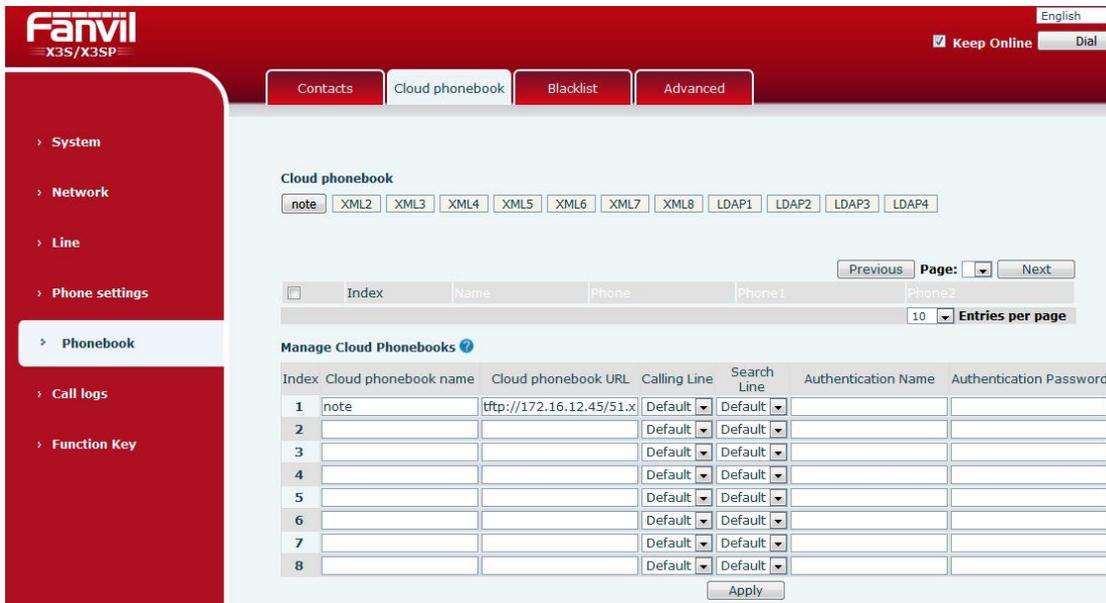
Note! Refer to the LDAP technical documentation before creating the LDAP phonebook and phonebook server.

<http://www.fanvil.com/Uploads/Temp/download/20180920/5ba382eb399eb.pdf>

Web page preview

Phone page supports preview of Internet phone directory and contacts

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



Picture 115 - Web cloud phone book Settings

12.18 Phonebook >> Call List

■ Restricted Incoming Calls:

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

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

■ Allowed Incoming Calls:

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

■ Restricted Outgoing Calls:

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

12.19 Phonebook >> Web Dial

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

12.20 Phonebook >> Advanced

Users can export the local phone book in XML, CSV, and VCF format and save it on the local computer.

Users can also import contacts into the phone book in XML, CSV, and VCF formats.

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

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

12.21 Call Log

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

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

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

Users can also download call records conditionally and save them locally

12.22 Function Key >> Function Key

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

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

Table 21 - Function Key configuration

Parameters	Description
Memory Key	<p>BLF (New Call/BXFE /AXFER): It is used to prompt user the state of the subscribe extension, and it can also pick up the subscribed number, which help user monitor the state of subscribe extension (idle, ringing, a call). There are 3 types for one-touch BLF transfer method.</p> <p>p.s. User should enter the pick-up number for specific BLF key to fulfill the pick-up operation.</p> <p>Presence: 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>Speed Dial: You can call the number directly which you set. This feature is convenient for you to dial the number which you frequently dialed.</p> <p>Intercom: 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.

12.23 Function Key >> Softkey

The User Settings mode and display style, display page.

Table 24 - Softkey configuration

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

	Call Log/Clear/Missed/Dialed/Pause/Headset/Video/Audio/Remote XML/DSS Key
Trying	End/Release/Headset/DSS Key
Waiting	Hold/Transfer/Conference/End/Answer/Forward/Mute/Next call/New call/Prev call/Reject/Release/Headset/Listen/Video/Audio/DSS Key

13 Trouble Shooting

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

13.1 Get Device System Information

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

The network information

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

13.2 Reboot Device

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

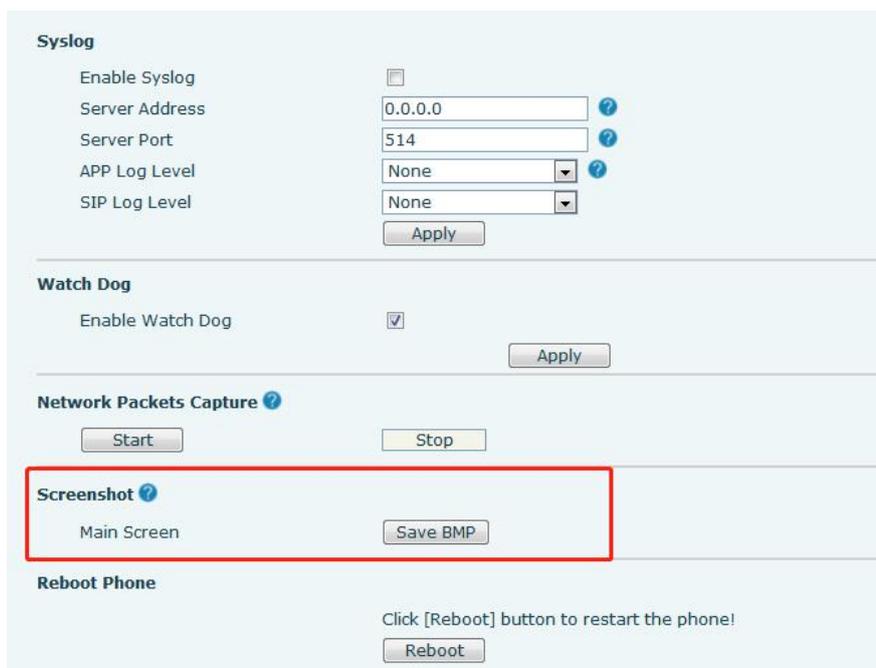
13.3 Reset Device to Factory Default

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

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

13.4 Screenshot

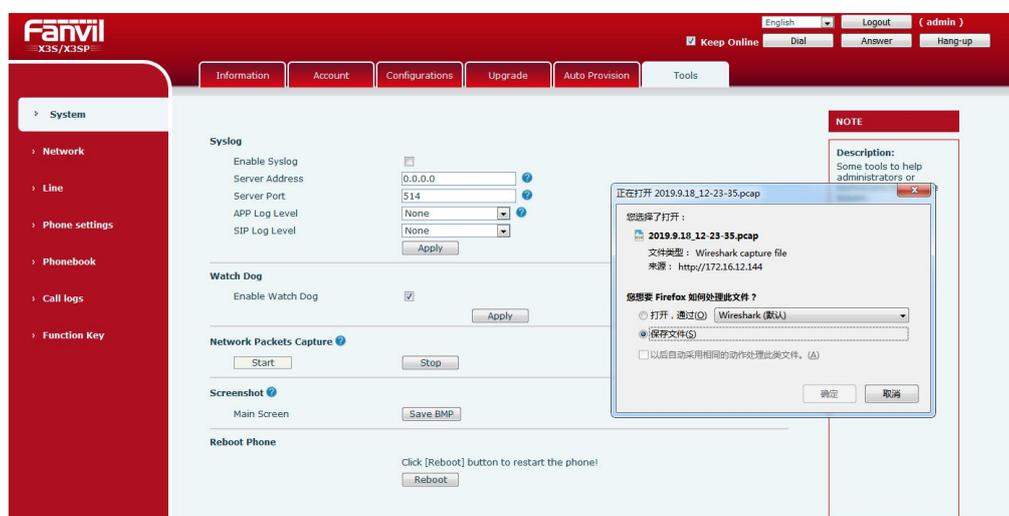
If there is a problem with the phone, the screenshot can help the technician locate the function and identify the problem. In order to obtain screen shots, log in the phone webpage **[System]** >> **[Tools]**, and you can capture the pictures of the main screen and the secondary screen (you can capture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



Picture 116 - Screenshot

13.5 Network Packets Capture

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



Picture 117 - Web capture

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

13.6 Get Log Information

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

13.7 Common Trouble Cases

Table 25 - Trouble Cases

Trouble Case	Solution
Device could not boot up	<ol style="list-style-type: none"> 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. 2. If you saw "POST MODE" on the device screen, the device system image has been damaged. Please contact location technical support to help you restore the phone system.
Device could not register to a service provider	<ol style="list-style-type: none"> 1. Please check if device is well connected to the network. The network Ethernet cable should be connected to the  [Network] port NOT the  [PC] port. If the cable is not well connected to the network icon  [WAN disconnected] will be flashing in the middle of the screen. 2. Please check if the device has an IP address. Check the system information, if the IP displays "Negotiating...", the device does not have an IP address. Please check if the network configurations is correct. 3. If network connection is fine, please check again your line configurations. If all configurations are correct, please kindly contact your service provider to get support, or follow the instructions in "13.5 Network Packet Capture" to get the network packet capture of registration process and send it to Fanvil support to analyze the issue.
No Audio or Poor Audio in Handset	<ol style="list-style-type: none"> 1. Please check if Handset is connected to the correct Handset () port NOT Headphone () port. 2. The network bandwidth and delay may be not suitable for audio call at the moment.
Poor Audio or Low Volume in Headphone	<ol style="list-style-type: none"> 1. There are two Headphone wire sequence in the market. Please use the Headphone provided by Fanvil, or consult Fanvil the wire sequence if you wish to use a third-party headphone.

	2. The network bandwidth and delay may be not suitable for audio call at the moment.
Audio is chopping at far-end in Hands-free speaker mode	This is usually due to loud volume feedback from speaker to microphone. Please lower down the speaker volume a little bit, the chopping will be gone.