



X301/X301P/X301G

User Manual



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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 design for indoor use. Do not install the device in places where there is direct sunlight. Also do not put the device on carpets or cushions. It may cause fire or breakdown.
- Avoid exposure the phone to high temperature or below 0° 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

X301P/X301G is a small and medium sized enterprise and home phone designed for the Internet era. The simple design of the device brings great user experience to home and office users. Equipment is desktop phone only not just, it is the high-quality goods that puts in the sitting room or office more.

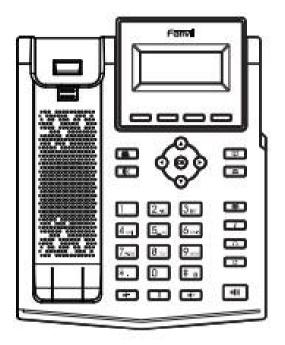
X301P/X301G Lite is the latest generation of voip developed on the basis of X series research and development of enterprise voip. It inherits many excellent features of the traditional X-series phone, such as high-definition voice, earphone and full-duplex speaker with high performance echo cancellation, 100-megabyte Ethernet, QoS, encrypted transmission, automatic configuration, etc.New system, smooth operation, flat interface Settings and many other advantages.

For enterprise users, the equipment is a cost-effective office equipment, while realizing environmental protection, it also provides convenient operation; For home users, the device is a highly efficient communication device. It will be an ideal choice for enterprise users and home users who pursue high quality and high efficiency.

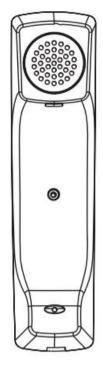
In order to help some interested users to better understand the details of the product, this user manual can be used as a reference guide for the use of the device. This document may not apply to the latest version of the software. If you have any questions, you can use the help prompt interface that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



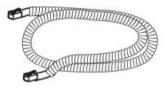
4.2 Packing Contents



Phone



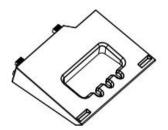
Handset



Handset cable



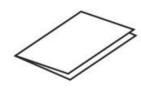
Ethernet Cable



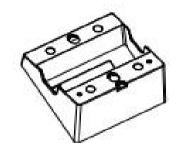
Stand



Power adapter (Optional)



Quick Installation Guide



Wall Stand (Buy separately)



5 Desktop Installation

5.1 PoE And the use of external power adapters

X301P/X301G called as 'the device' hereafter, supports two power supply modes, power supply from external power adapter or over Ethernet (PoE) complied switch.

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

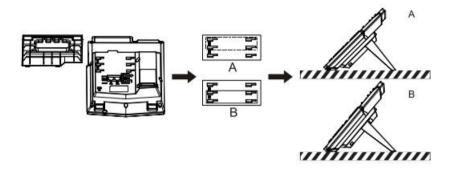
For users who do not have PoE equipment, the traditional power adaptor should be used. If the device is connected to a PoE switch and power adapter at the same time, the power adapter will be used in priority and will switch to PoE power supply once it fails.

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



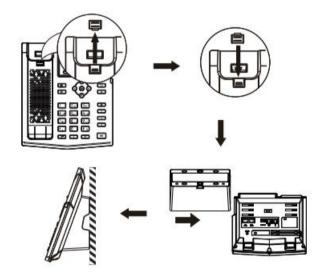
5.2 Desktop and wall mounted method

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



Picture 1 - Desktop installation

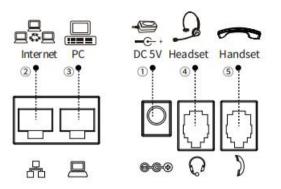
if the phone is mounted on the wall, please follow the instructions below to install it. Note: wall hanging bracket needs to be purchased separately



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

Table 1 - Ha	ardware Interface	Description

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

U	Redial
m	PhoneBook
•••••>))	Hands-free (HF) speaker
Æ	Mute Microphone (During Call)
- I I	Volume down
· 4 +	Volume up
×	Hold
0	Headset
M	MWI
뇬	Conference
(-(Transfer

Table 2 - Keypad Icons

Table 3 - Status Prompt and Notification Icons

>>>	Call out
<u></u>	Call in
п	Call Hold
蠈	Network Disconnected
Ŷ	Open VLAN
P	Open VPN
۵	Keypad Locked
t+	Call forward activated
v	Out calls
Ľ	In calls
v	Missed calls
÷	SMS
مە	New voice message waiting
0	Do-Not-Disturb inactivated on Phone
브	Call forward activated
±1	Auto-answering activated
•()	Hands-free (HF) Mode
0	Headphone (HP) Mode



<u>ر</u>	Handset (HS) Mode
4	Mute Microphone
al	The Voice quality of calling
8	The Voice encryption of calling
HD	HD Voice
•	Voice recording
(_I)	Open SIP Hotline

6.2 Appendix II - Keyboard character query table

Mode Icon	Text Mode	Key Button	Characters Of Each Press
		1	1
		2	2
		3	3
		4	4
		5	5
122	Numeric	6	6
120	Numeric	7	7
		8	8
		9	9
		0	0
		*	*.+
		#	#
		1	@:;()<>
		2	abc
		3	def
		4	g h i
		5	jkl
aha	Lower Case	6	m n o
abc	Alphabets	7	pqrs
		8	tuv
		9	w x y z
		0	(space)
		*	.,*/+-:_=
		#	# ^!&\$%

Table 4 - Look-up Table of Characters

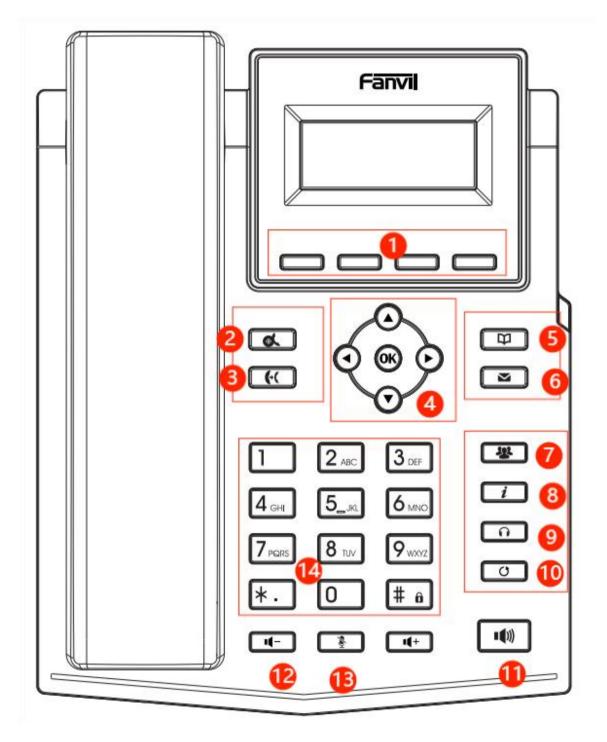


		1	@:;()<>
		2	ABC
		3	DEF
		4	GHI
		5	JKL
0PC	Upper Case	6	ΜΝΟ
HDU	Alphabets	7	PQRS
		8	TUV
		9	WZYX
		0	(space)
		*	.,*/+-:_=
		#	# ^!&\$%
		1	1
		2	2 a b c A B C
		3	3 d e f D E F
		4	4 g h I G H I
		5	5 j k l J K L
0.D	Mixed type input	6	6 m n o M N O
Zab		7	7 p q r s P Q R S
		8	8 tuvTUV
		9	9 w z y x W Z Y X
		0	0
		*	.,*/+-:_=
		#	# ^!&\$%
		1	1
		2	ABCabc
		3	DEFdef
		4	GHIghI
		5	JKLjkl
	Upper/lowercase	6	MNOmno
Abc	letter keyboard	7	PQRSpqrs
		8	TUVtuv
		9	WZYXwzyx
		0	0
		<u> </u>	
			.,*/+-:_= # AI8 \$ \$ \$
		#	# ^!&\$%



7 Introduction to the User

7.1 Instruction of Keypad



Picture 4 - Instruction of Keypad

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



Table	5 -	Instruction	of Keypad
-------	-----	-------------	-----------

Number	The keypad names	Instruction
(1)	Soft-menu	These four buttons provide different functions corresponding to the
Û	Buttons	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	Navigate/OK Keys	The user can press the up/down navigation key to change the line or move the cursor in the screen list.On some Settings and text editing pages, the user can press the left/right navigation key to change options or move the cursor in the screen list to the left/right. OK key:Default is equivalent to soft button confirmation, user can customize the function.
5	Contact Key	Press the "Contact" key, the user can enter the address book interface and select the contact person to call.
6	MWI	Press the "voice mail" button, and the user enters the interface of SMS and voice mail list.
7	Conference	Press the "Conference" button, the user can initiate a three-party conference.
8	Status key	Users can press this key to view the status information of the device
9	Headset Key	Users can press this key to open the headset channel
0	Redial	Press the Redial key to redial the last number dialed
	Hands-free Key	The user can press this key to open the audio channel of the speakerphone.
12	Volume Up/DownKe y	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.
12	Standard Telephone Keys	The 12 standard telephone keys provide the same function as standard telephones, but further to the standard function, some keys also provide special function by long-pressing the key,



7.2 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 opened 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 headphone turned on.

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

Users can restore the phone to the default standby screen interface by picking up and dropping the handle. The left and right part of the area shows default configuration of Side key, which dynamically displays the configuration of SIP information, message, headset, etc., which can be customized by users.

The icon description is described in 6.1 appendix I.

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



4 N	letwork			
1. Mode	DHCP/IPV4			
2. ETH IP	172.16.8.14			
Return	أحد تنصد إذ			

Picture 6 - Scroll icon

7.4 Phone Status

The phone status includes the following information about the phone:

• Network Status:

VLAN ID

IPv4 or IPv6 status

IP Address

Network Mode

- The Phone Device Information:
 - Mac Address
 - Phone Mode
 - Hardware Version number
 - Software Version number
 - Phone Storage (RAM and ROM)
 - System Running Time
- SIP Account Information:

SIP Account

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

- TR069 Connect Status (Displays only in the phone interface state)
 The user can view the phone status through the phone interface and the web interface.
- Phone interface: When the phone is in standby mode, press **[Menu]** >> **[Status]** and select the option to view the corresponding information, as shown in the figure:

4 N	etwork
1. Mode	DHCP/IPV4
2. ETH IP	172.16.8.146
Return	

Picture 7 - The Phone status

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



Fanvil					Default pa	ssword is in	use. Please cha	ange English 🗸 🛛 Logout (admin)
=X301(P)=								Keep Online
	Information	Account	Configurations	Upgrade	Auto Provision	Tools	Reboot Phone	
> System								NOTE
> Network	System Informat	ion 🕜						Description:
	Model:		X301(P)					It shows some basic
> Line	Hardware:		V2.0					information of the phone, including model,
	Software:		0.0.11					hardware and software
> Phone settings	Uboot:		V1.0					version, running time, network status, account
7 Phone settings	Uptime:		04:17:	09				registration status, etc.
	MEMInfo:		ROM: 0.7/16(M) RAM: 10.8/49(M)					
> Phonebook	System time:		14:24 18	AUG THU (SNTP)				
> Call logs	Network 😢							
	WAN							
> Function Key	Network mode	e:	DHCP					
	Ethernet MAC	2	0c:38:3e	2f:c2:02				
> Application	IPv4							
Application	Ethernet IP:		172.16.8	146				
> Security	Subnet mask:		255.255.	255.0				
Security	Default gatew	/ay:	172.16.8	1				
> Device Log	VQ status 💞							
	Start time:			Stop time	:			
	Local user:			Remote u	ser:			
	Local IP:			Remote IF	?:			
	Local Port:			Remote p	ort:			

Picture 8 - WEB phone status

7.5 Web Management

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

User:	
-	
Password:	
Language:	English 👻 🔽

Picture 9 - Landing page

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

7.6 Network Configurations

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

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



The default password for advanced Settings is "123".

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

The device supports three types of networks, $\mathsf{IPv4/IPv6/IPv4\&IPv6}$

There are three common IP configuration modes about IPv4

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

The device is default configured in DHCP mode.

There are tow common IP configuration modes about IPv6

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

Please see <u>10.6.2.1 network Settings</u> for detailed configuration and use.

7.7 SIP Configurations

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

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

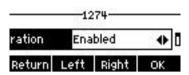
Phone interface: To manually configure a line, the user can press the line key for a long time, or press the button in the function menu [Menu] >> [System] >> [Accounts] >> [Line 1] / [Line 2]>>[Basic]configuration, click OK to save the configuration.



NOTICE! User must enter correct PIN code to be able to advanced settings to edit line configuration.

(The default PIN is 123)

The parameters and screens are listed in below pictures.



Picture 10 - Phone line SIP address and account information

• WEB interface: After logging into the phone page, enter [Line] >> [SIP] and select SIP1/SIP2 for configuration, click apply to complete registration after configuration, as shown below:

		Default pas	sword is in use. Please change English	✓ ■ Logout (admin) ■ Keep Online
=	SIP SIP Hotspot Dial	Plan Action Plan Basic Settings	RTCP-XR	
> System			NOTE	
> Network	Line 1274@SIP1 ~		Descripti It shows p	
> Line	Register Settings >> Line Status: Registered	Activate:	✓ Ø registration settings a function a	n account basic nd sip account
> Phone settings	Username: 1274 Display name: Realm:	Authentication User: Authentication Password: Server Name:	ettings.	
> Phonebook	icom.	• Server Hume.		
> Call logs	SIP Server 1: Server Address: 172.16.1.2	SIP Server 2: Server Address:		
> Function Key	Server Port: 5060 Transport Protocol: UDP V 0 Registration Expiration: 3600	Server Port: Transport Protocol: second(s) Registration Expiration:	5060 0 UDP V 0 3600 second(s) 0	
Application	Proxy Server Address:	second(s) Registration Expiration:		
> Security	Proxy Server Port: 5060 Proxy User:	Ø Backup Proxy Server Port: Ø	5060	
> Device Log	Proxy Password:	0		
	Basic Settings >>	5 + ·, • = *	8	
	Advanced Settings >>			

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

Dialing Number then Opening Audio

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



Picture 13 - Enable voice channel dialing

Opening Audio then Dialing the Number

Another alternative is the traditional way to firstly open the audio channel by lifting the handset, turning 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 number dialed completed, user can press [**Dial**] button or [**OK**] button to call out, or the number will be dialed out automatically after timeout.



\$ 127	1/1	
1212		
Dial	Contac Delete	End

Picture 14 - Open the voice channel and dial the number

Cancel Call

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



Picture 15 - Call number

8.2 Answering Calls

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



Picture 16 - Answering calls

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

8.2.1 Talking

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



Picture 17 - Talking interface

Table 6 - Talking mode

Number	Name	Description
1	Voice channel	The icon shows the voice channel mode being used.
2	Call status	The call status of the current call-calling
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	Numbers of line	Shows how many calls are present on the current device
6	Speech quality	Displays the current voice quality of the call.

8.2.2 Make / Receive Second Call

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

Second Incoming Call

When there is another incoming call during talking a phone call, this call will be waiting for user to answer it. 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 put on hold 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 pressing DSS Keys 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 placed on hold manually first or will be put on hold 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 on hold, the user must press the [Resume] button to return to the call state to end the call.

8.4 Redial

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

Intercom Settings >>				
Redial Settings >>				
Enable Call Completion:			Enable Auto Redial:	
Auto Redial Interval:	30	(1~180)second(s)	Auto Redial Times:	5 (1~100) 🥝
Redial Enter CallLog:				

Picture 20 - Redial settings

8.5 Dial-up Query

Phone default to open the dial-up inquiry function, dial-out, enter two or more Numbers, dial the interface will automatically match call records, contacts in the number list, use the navigation key up and down keys can select the number, press the call out key or time out.

8.6 Auto-Answering

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

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

• Phone interface:

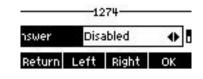
Press [Menu] >> [Features] >> [Auto Answer] button.

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 **11** indicates that auto answer is enabled.





Picture 21 - Line 1 enables auto-answering

96	12	: 03	†1 ⊡
		IG WED	
CallLog	Dir	DND	Menu

Picture 22 - The line has enabled auto-answering

• WEB interface:

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

legister Settings >>					
asic Settings >>					
Enable Auto Answering:		0	Auto Answering Delay:	5	(0~120)second(s) 🔇
Call Forward Unconditional:		0	Call Forward Number for Unconditional:	142	
Call Forward on Busy:		0	Call Forward Number for Busy:		0
Call Forward on No Answer:		0	Call Forward Number for No Answer:		0
Call Forward Delay for No Answer:	5	(0~120)second(s) 📀	Transfer Timeout:	0	second(s) 🥝
Conference Type:	Loc	cal 🗸 🕜	Server Conference Number:		0

Picture 23 - Web page to start auto-answering

8.7 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).

8.7.1 Mute the Call

 During the conversation, press the mute button on the phone: W 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 24 - 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.

8.7.2 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 25 - Ringing mute

Cancel ring tone mute: On the standby or incoming call screen, press the mute button again ¹/₄ or volume up ¹/₄ cancel ring tone mute, no longer shows mute icon in upper right corner after cancel ¹/₄. The phone mute icon is off

8.8 Call Hold/Resume

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



Picture 26 - Call hold interface

8.9 DND

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

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

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



Picture 27 - Enable DND

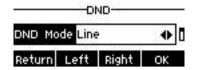
If the user wishes to enable/disable the uninterrupted function on a specific line, the user can set the uninterrupted function on the page of configuring the line.

1) Press [Menu] >> [Features] >> [DND] button, Enter the [DND] editing interface.



2) Click the left/right navigation button to select the line to adjust the mode and state of "do not disturb", and then press the **[OK]** button to save.

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



Picture 28 - DND setting interface

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

		ND	
DND Tir	nerEna	bled	
Return	Left	Right	OK

Picture 29 - DND timer

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

OND Settings >>	
DND Option:	Off 🗸
Enable DND Timer:	
DND Start Time:	15 🗸 0 🔨
DND End Time:	17 🗸 30 🕚

Picture 30 - DND Settings

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



	SIP	SIP Hotspot	Dial Plan	Action Plan	Basic Settings	RTCP-XR			
	Basic Settings >>							settings and sip account function advanced	
em		werina: 🗆 🙆						settings.	
vork	Enable Auto Ans Call Forward				to Answering Delay: Il Forward Number for	5 (0~120)second(s) 🕜		
огк	Unconditional:			Ur	conditional:		0		
	Call Forward on	Busy: 🗌 🕜			II Forward Number for sy:		0		
e	Call Forward on	No 🗆 🕜		Ca	II Forward Number for		0		
0.00	Answer: Call Forward Del				Answer:				
e settings	Answer:	5	(0~120)seco		ansfer Timeout:	0 s	second(s) 🥝		
	Conference Type	: Local	✓		rver Conference imber:		0		
rebook					inder.				
	Subscribe For Vo	ice 🗌 🕜		Vo	ice Message Number:		0		
logs	Message: Voice Message S								
	Period:		99999)second(s)	En	able Hotline:				
tion Key	Hotline Delay:	0	(0~9)second	d(s) 🕜 Ho	tline Number:		0		
	Dial Without Reg	istered: 🗌 🕜		En	able Missed Call Log:				
ication	DTMF Type:	AUTO	~ Ø	וס	MF SIP INFO Mode:	Send 10/11	V 9		
	Request With Po			En	able DND:				
rity	Use STUN:			Us	e VPN:				
ce Log	Enable Failback:	2 🕜			gnal Failback:				
	Failback Interval	: 1800	second(s)	3 Si	anal Retry Counts:	3 ((1~10) 🕜		

Picture 31 - Line DND

8.10 Call Forward

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

There are three types

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



Picture 32 - Select the line to set up call forwarding

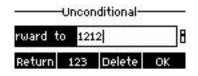
2) Select the call forward type by pressing the up/down navigation button. Click [**OK**] to configure call forwarding and delay time.

	1	23	
1. Uncor	dition	al	
2. Busy			
Return	Up.	Down	OK



Picture 33 - Select call forward type

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



Picture 34 - Enable call forwarding and configure the call forwarding number

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

Basic Settings >>				
Enable Auto Answering:		Auto Answering Delay:	5 (0~120)s	econd(s) 🥝
Call Forward Unconditional:		Call Forward Number for Unconditional:		0
Call Forward on Busy:		Call Forward Number for Busy:		0
Call Forward on No Answer:		Call Forward Number for No Answer:		0
Call Forward Delay for No Answer:	5 (0~120)second(s)	Transfer Timeout:	0 second(s)	0
Conference Type:	Local 🗸 🕜	Server Conference Number:		0

Picture 35 - Set call forward

8.11 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: Do not 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 caller.

Note ! For more transfer Settings, please refer to <u>12.6 Line >> Dial Plan</u>.

8.11.1 Blind transfer

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

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



Picture 36 - Transfer interface



8.11.2 Semi-Attended transfer

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



Picture 37 - Semi-Attended transfer

8.11.3 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.

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



Picture 38 - Attended transfer

8.12 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 left/right button to enable/disable call waiting and call waiting tone. Press [Menu] >> [Features] >> [Call waiting]>>[Call waiting settings], the navigation key left/right button to enable/disable call waiting and call waiting tone.

——Cal	Waitir	ng Settir	195
Waiting	Ena	bled	•
Return	Left	Right	OK

Picture 39 - Call waiting setting

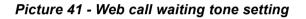
 WEB interface: Enter [Phone Settings] >> [Features] >> [Basic Settings], enable/disable call waiting and call waiting tone.



sic Settings >>			
Enable Call Waiting:	Ø	Enable Call Transfer:	Ø
Semi-Attended Transfer:		Enable 3-way Conference:	
Enable Auto on Hook:	2 0	Auto HangUp Delay:	3 (0~30)second(s) ?
Ring From Headset:	Disabled 🗸 🔇	Enable Auto Headset:	
Enable Silent Mode:		Disable Mute for Ring:	

Picture 40 - Web call waiting setting

e Settings >>			
Enable Holding Tone:	2 🕜	Enable Call Waiting Tone:	Ø
Play Dialing DTMF Tone:		Play Talking DTMF Tone:	0



8.13 Conference

8.13.1 Local Conference

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

Enable Auto Answering:			Auto Answering Delay:	5	(0~120)se	cond(s)
Call Forward Unconditional:			Call Forward Number for Unconditional:			0
Call Forward on Busy:			Call Forward Number for Busy:		45 	0
Call Forward on No Answer:			Call Forward Number for No Answer:			0
Call Forward Delay for No Answer:	5	(0~120)second(s) 🥝	Transfer Timeout:	0	second(s)	0
Conference Type:	Local 🗸 🕜		Server Conference Number:			0

Picture 42 - Local conference setting

Two ways to create a local conference:

 If the device has two calls, press the conference key on the call interface, select another existing number when selecting the conference number, and press the confirm key to establish a local three-way conference. When the device is in a three-way conference, another call is made. Answer Press Conference to join a 4-party conference. In the same way, you can join the 5-party conference and the 6-party conference.

🕻 Talk	ing		2/2	\$ 123			3/3	Cor	nf(3)		1/1
	54	56		1. New 0	Call		10000	1000	12	45	
-	00	:08		2.1212			0	1983 yr 19	00	:13	1.0
Hold	Xfer	Conf	End	→Return	Up	Down	OK	> Hold	Conf	Split	End \rightarrow



Cor	f(4)		1/1		Con	f(5)		1/1	Confi	(6)		1/1
4		45 :38	•		4	12 00	45 :59	•	4	12 ⁰ 01:	13	•
Hold	Conf	Split	End	\rightarrow	Hold	Conf	Split	End \rightarrow	Hold		Split	End

Picture 43 - Local conference (1)

2) There is a call on the device, press the conference button on the call interface, enter the number to join the conference, and press the call; after the opposite end answers, press the conference button again to establish a local three-party conference, and join the four-party conference in the same way. In the same way, you can join the five-party conference and the six-party conference. As shown in the figure:

📞 Tali		1/1	📞 Talking		2/2	📞 Cor	nf(3)	1/1
	1212 1212 00:01	al	2	5456 00:00		•	1245 00:13	•
Hold	Xfer Conf	End	→ Hold Xf	er Conf	End	\rightarrow Hold	Conf Split	End \rightarrow
Conf	(4)	1/1	📞 Conf(5)		1/1	Cont	(6)	1/1
•	1245 00:38	•	1946) B	1245 00:59	•	4	1245 01:23	•
Hold	Conf Split	End	Hold Con	f Split	End	> Hold	Split	End

Picture 44 - Local conference (2)

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

8.13.2 Network Conference

Users need server support for network conference.

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

	SIP SIP Hots	oot	Dial Plan Action F	Plan Basic Settings	RTCP-XR	
System	Basic Settings >>					setting
	Enable Auto Answering:			Auto Answering Delay:	5 (0~1	20)second(s) 🕜 setting:
Network	Call Forward Unconditional:	•		Call Forward Number for Unconditional:		0
	Call Forward on Busy:			Call Forward Number for Busy:		0
Line	Call Forward on No Answer:			Call Forward Number for No Answer:		0
none settings	Call Forward Delay for No Answer:	5	(0~120)second(s) 🕜	Transfer Timeout:	0 secor	nd(s) 🥝
honebook	Conference Type:	Server 🗸	0	Server Conference Number:		

Picture 45 - 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.

8.14 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: Through the [Menu] >> [Basic] >> [Keyboard] >> [DSS key Settings]enter the function keys function key Settings interface, key function key type as memory and subtypes to call park, reside values for the server calls park number, set up corresponding SIP lines.
- WEB interface: log in the phone page, enter the [Function Key] >> [Softkey] >> [Soft DSS
 Key Settings]page, select a Softkey, 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.

S oft	DSS K	ey Setti	ngs—
Туре	Мел	nory Key	
Return	Left	Right	OK

Picture 46 - Phone set call park

Soft DSS Key	Settings						
Кеу	Туре	Name	Value	Subtype		Line	PickUp Number
OSS Key 1	Key Event 🗸			Phonebook	~	AUTO 🗸	
OSS Key 2	Memory Key 🗸		1854	Call Park	~	1278@SIP1 ~	
DSS Key 3	None 🗸			None	~	AUTO 🗸	
OSS Key 4	None 🗸			None	~	AUTO 🗸	
DSS Key 5	None 🗸			None	~	AUTO 🗸	
OSS Key 6	None 🗸			None	~	AUTO 🗸	
OSS Key 7	None 🗸			None	~	AUTO 🗸	
DSS Key 8	None 🗸			None	~	AUTO 🗸	
OSS Key 9	None 🗸			None	\sim	AUTO 🗸	
DSS Key 10	None 🗸			None	~	AUTO 🗸	

Picture 47 - WEB set call park

8.15 Pick Up

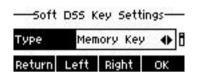
Pick up requires server support. Consult your system administrator for support.

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

Phone interface: press [Menu] >> [Basic] >> [Keyboard] >> [DSS key Settings], select the Softkey 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.
- The caller picks up the call and speaks to it.
 WEB interface: Log in the phone webpage, enter the [Function Key] >> [Softkey] >> [Soft DSS Key Settings] page, select a DSSkey, set the memory key type as memory key, the subtype as BLF/NEW CALL, and set the corresponding SIP line and pick up codes.



Picture 48 - Phone pick up setting

Key	Туре	Name	Value	Subtyp	e	Line	-	PickUp Number
DSS Key 1	Memory Key 🗸			Call Park	~	AUTO	~	10
DSS Key 2	None 🗸			None	~	AUTO	~	
DSS Key 3	None 🗸			None	~	AUTO	~	
DSS Key 4	None 🗸			None	~	AUTO	~	
DSS Key 5	None 🗸			None	~	AUTO	~	
DSS Key 6	None 🗸			None	~	AUTO	~	
DSS Key 7	None 🗸			None	~	AUTO	~	
DSS Key 8	None 🗸			None	~	AUTO	~	
DSS Key 9	None 🗸			None	~	AUTO	~	
DSS Key 10	None 🗸			None	~	AUTO	~	

Picture 49 - WEB pick up setting

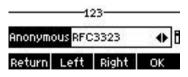
8.16 Anonymous Call

8.16.1 Anonymous Call

C - (1 D C C - 11)

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



Picture 50 - Enable anonymous call

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



SIP1 page can only take effect on the SIP1 line.

SIP Encryption:		RTP Encryption(SRTP):	Disabled 💌 🕜
Enable Session Timer:		Session Timeout:	0 second(s)
Enable BLF List:		BLF List Number:	
Response Single Codec:		BLF Server:	
Keep Alive Type:	UDP 💌 🥝	Keep Alive Interval:	30 second(s)
Keep Authentication:		Blocking Anonymous Call:	?
User Agent:		Specific Server Type:	COMMON 💌 🥝
SIP Version:	RFC3261 💌 🥝	Anonymous Call Standard:	RFC3323 💌 🕜
Local Port:	5060	Ring Type:	Default 💌 🕜
		Use Tel Call:	
Enable user=phone:			
Enable user=phone: Auto TCP:		Enable PRACK:	

Picture 51 - Enable Anonymous web page call

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

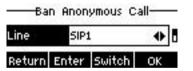


Picture 52 - Anonymous call log

8.16.2 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 53 - 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.

User Agent:	-	0	Specific Server Type:	COMMON 🗸 🕜
SIP Version:	RFC3261 🗸 🕜		Anonymous Call Standard:	RFC3323 🗸 🥝
Local Port:	5060	0	Ring Type:	Default 🗸 🔮
Enable user=phone:			Use Tel Call:	
Auto TCP:			Enable PRACK:	
Enable Rport:			Call-ID Format:	\$id@\$ip

Picture 54 - Page Settings blocking anonymous call



8.17 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] >> [Hot Line], 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.

Hot Line				1238-				
1. 1238	10000000	00000		Hot Line	Dia	blad	4	
2.5IP2				Luor rue	DIS	ableu	•	
Return	UP.	Down	OK	Return	Left	Right	OK	

Picture 55 - Phone hotline setting interface

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

Subscribe For Voice Message:			Voice Message Number:	18 15	
Voice Message Subscribe Period:	3600 (60~999999)	second(s)	Enable Hotline:		
Hotline Delay:	0	(0~9)second(s) 🕜	Hotline Number:		
Dial Without Registered:			Enable Missed Call Log:		
DTMF Type:	AUTO	✓ Ø	DTMF SIP INFO Mode:	Send 10/11	0
Request With Port:			Enable DND:		
Use STUN:			Use VPN:		

Picture 56 - Hotline set up on webpage

8.18 Emergency Call

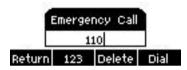
The emergency call function is used to enable the keypad lock. Users can set the corresponding emergency call number on the phone. You can also call emergency services when your phone is locked. 1) Configure the emergency call number: log in the phone page, enter the [**Phone Settings**] >> [**Function Settings**]>> [**Basic Settings**]page, set up the emergency call code, if you need to set up more than one emergency call code, please use ", "to separate.



Allow IP Call:		P2P IP Prefix:		
Caller Name Priority:	LocalContact-NetContact-SIP DisplayNar	Emergency Call Number:	110	0
Search path:	LDAP 🔍 🥑	LDAP Search:	LDAP 1 💌 🕜	
Caller Display Type:	Normal 💽 🥝			
Restrict Active URI Source IP:		Push XML Server:		0
Enable Pre-Dial:		Enable Multi Line:		
Line Display Format:	xxx@SIPn 💌 🕜	Contact As White List Type:	NONE 🗨 🕜	
Block XML When Call:	Enable 💌 🕜	SIP Notify:	Enable 🗨 🕜	
Call Number Filter:				

Picture 57 - 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 58 - 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] >> [Softkey] >> [Soft DSS Key Settings] page, select a Softkey, set the function key type as memory key, choose subtype among BLF/NEW CALL, BLF/BXFER, BLF/AXFER, BLF/CONF, set BLF/DTMF value as the number to be subscribed, set the corresponding SIP line. The pickup number is provided by the server. The specific use of reference 8.16 Pick up.

unction Ke Dsskey	y Settings Transfer Mode	Make a New C 🗸	Apply				
Key	Туре	Name	Value	Subtype	Line		PickUp Number
DSS Key 1	Memory Key			BLF/NEW CAI ✓	69@SIP1	~	
OSS Key 2	Line	/		None 🗸	009@SIP2	V	

Picture 59 - Web page configuration BLF function key

Phone interface: Going to the [Menu] >> [Basic] >> [Keyboard] >>[DSS key Settings] to enter the function key to set settings interface, key function key types of memory, a subtype of BLF/NEW CALL, BLF/BXFER, BLF/AXFER, BLF/CONF, BLF/DTMF, the values to be subscription number, and set up corresponding SIP lines.

	Dss	key	
Dsskey	1-1		•
Туре	Mem	ory Key	•
Return	Left	Right	OK

Picture 60 - Phone configuration BLF function key

Subtype	Standby is described	Calling is described		
BLF/NEW	Pressing the BLF key while standby	When you press this BLF key while talking to		
CALL	to dial the subscriber number.	another user, you create a new call along with		
CALL		the subscribed number.		
	Processing the PLE key while standby	When you press this BLF key while talking to		
BLF/BXFER	Pressing the BLF key while standby	another user, you blind transfer the call to the		
	to dial the subscriber number.	subscribed number.		

Table 7 - BLF Function key subtype parameter list



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/Confere nce	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.
- 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/calls to the subscribed number.

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

4) Pickup incoming calls from subscribed phones.

When configuring BLF function key, configure the pickup number.

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 to the BLF List Key. If the state of the subscription object changes later, the corresponding Dsskey 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.



	SIP SIP H	lotspot Dial Plan	Action Plan	Basic Settings	RTCP-XR	
Textes Marine	Anonymous Call:		Cal	l:		
System	Call Waiting On Code:		🗌 🥝 🛛 Cal	Waiting Off Code:		
	Send Anonymous On Code:		🛛 🕜 Ser	d Anonymous Off Code:	0	
Network	coue:					
	Enable Session Timer	: 🗆 🕜	Ses	sion Timeout:	1800 second(s)	
Line	Enable BLF List:		BLF	List Number:		
	Response Single Code	ec: 🗌 🕜	BLF	Server:		
Phone settings	Keep Alive Type:	UDP 🗸 🥝	Kee	p Alive Interval:	15 second(s)	
	Keep Authentication:		Blo	cking Anonymous Call:		
Phonebook	RTP Encryption(SRTP)): Disabled 🗸 🕜	Ena	ble OSRTP:		
	Proxy Require:		0			
Call logs						
	User Agent:		🗌 🕜 🤅 Spe	cific Server Type:	COMMON V	
Function Key	SIP Version:	RFC3261 🗸 🥝	And	onymous Call Standard:	None 🗸 🥝	
	Local Port:	5060	🗌 🥝 🛛 Rin	д Туре:	Default 🗸 🎯	
Application	Enable user=phone:		Use	e Tel Call:		
Application	Auto TCP:		Ena	ble PRACK:		
	Enable Rport:	2 🕜	Cal	I-ID Format:	\$id@\$ip	
Security						
2000000000	DNS Mode:	A 🗸 🕜	Ena	ble Long Contact:		
Device Log	Enable Strict Proxy:	🖾 🕜	Cor	vert URI:		
	Use Quote in Display Name:		Ena	ble GRUU:		
	Sync Clock Time:		Ena	ble Use Inactive Hold:		
	Caller ID Header:	PAI-RPID-FROM V		182 Response for Call		
				ting:		

Picture 61 - Configure the BLF List functionality

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

Key	Туре	Name	Value	Subtype		Line	PickUp Number
DSS Key 1	BLF List Key 🗸			Phonebook	~	AUTO 🗸	
DSS Key 2	None 🗸			None	~	AUTO 🗸	
DSS Key 3	None 🗸			None	~	AUTO 🗸	
DSS Key 4	None 🗸			None	~	AUTO 🗸	
DSS Key 5	None 🗸			None	~	AUTO 🗸	
DSS Key 6	None 🗸			None	~	AUTO 🗸	
DSS Key 7	None 🗸			None	~	AUTO 🗸	
DSS Key 8	None 🗸			None	~	AUTO 🗸	
DSS Key 9	None 🗸			None	~	AUTO 🗸	
DSS Key 10	None 🗸			None	~	AUTO 🗸	

Picture 62 - BLF List number display

9.3 Record

The device supports recording during a call.

9.3.1 Server Record

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



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

Picture 63 - Web server recording

Note: to be used with Fanvil recording software.

9.3.2 SIP INFO Record

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

			Default password is in use. Plea	ase change English 🗸
	Manage Recording			
> System				NOTE
> Network	Record Setting Enable Record:			Description: Record Setting, se
> Line	Record Type: Voice Codec:	Local V PCMU V		record config; reco file list
> Phone settings	Auto Cover Older Recordings:			
› Phonebook	Recording List	Apply		
› Call logs	Index	File Name	File Size	
› Function Key			Dele	ete
> Application				
> Security				

Picture 64 - Web SIP info recording

9.4 Agent

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

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



Agent Type Normal **(** Return Left Right Logon

Picture 65 - Configure the agent account in normal mode

	Ag	ent—	
Туре	Hot	el Gues	t o 🛙
Return	Left	Right	Logon

Picture 66 - Configure the proxy account-hotel Guest mode

Table 8 - Agency mode

Parameter	Description
Normal mode	
Number	Set the proxy account number.
User	Set the proxy account number to verify the user name.
Password	Set the proxy account number to verify the password.
Line	Select the SIP line.
CallLog	Users can choose 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 he phone has been configured on SIP server, fill in the correct number and user name password, click login and then the phone can be registered to the SIP server;
- 2) After registration, click logout and the phone can delete the user name and password, and log out of the SIP account.
- 3) Click Unregister and the phone retain the user name and password, and logs out of the SIP account.

9.5 Intercom

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



Basic Settings >>			
Tone Settings >>			
DND Settings >>			
Intercom Settings >>			
Enable Intercom:	2 📀	Enable Intercom Mute:	
Enable Intercom Tone:	Ø	Enable Intercom Barge:	

Picture 67 - Web Intercom configure

Table 9 - Intercom configure

Parameter	Description
	When intercom is enabled, the device will accept the incoming call
Enable Intercom	request with a SIP header of Alert-Info instruction to automatically answer
	the call after specific delay.
Enable Intercom Mute	Enable mute mode during the intercom call
Enable Intercom Tone	If the incoming call is intercom call, the phone plays the intercom tone
	Enable Intercom Barge by selecting it, the phone auto answers the
Enable Intercom Barge	intercom call during a call. If the current call is intercom call, the phone
	will reject the second intercom call

9.6 MCAST

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



Priority:	1 ~			
Enable Page Priority:				
Enable Prio Chan:				
Enable Emer Chan:				
Index/Priority	Name	Host:port	Channe	1
1			0	~
2 [0	~
3 [0	~
4			0	~
5 [0	~
6 [0	~
7 [0	~
8			0	~
9 [0	~
10			0	~

Picture 68 - Multicast Settings Page

Table 10 - MCAST Parameters on Web

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

Multicast:

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

9.7 SCA (Shared Call Appearance)

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

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



Line Status:	Registered	Activate:	V
Username:	123	Authentication User:	123
Display name:	123	Authentication Password:	•••
Realm:		Server Name:	
Transport Protocol:	UDP 💌	Transport Protocol:	UDP 💌
Transport Protocol: Registration Expiration:		Transport Protocol: Registration Expiration:	UDP 💌
Proxy Server Address:		Backup Proxy Server Address:	
Proxy Server Port:	5060	Backup Proxy Server Port:	5060
-			
Proxy User:			

Picture 69 - Register BroadSoft account

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

User Agent:		0	Specific Server Type:	BroadSoft 🗸 🥝
SIP Version:	RFC3261 🗸 🕜		Anonymous Call Standard:	None 🗸 🔇
Local Port:	5060	0	Ring Type:	Default 🗸 🕜
Enable user=phone:			Use Tel Call:	
Auto TCP:			Enable PRACK:	
Enable Rport:	2 0			

Picture 70 - Set BroadSoft server

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



DNS Mode:	A V 0	Enable Long Contact:	
Enable Strict Proxy:		Convert URI:	
Use Quote in Display Name:		Enable GRUU:	
Sync Clock Time:		Enable Use Inactive Hold:	
Caller ID Header:	PAI-RPID-F 🗸 🕜	Use 182 Response for Call waiting:	
Enable Feature Sync:		Enable SCA:	
TLS Version:	TLS 1.2 V	uaCSTA Number:	
Enable Click To Talk:		Enable ChangePort:	
/Q Name:		VQ Server:	
/Q Server Port:	5060	VQ Http/Https server:	
Flash Mode:	Normal 🗸	Flash Info Content-Type:	
- lash Info Content-Body:		Server Expire:	0
Jnregister On Boot:		Enable MAC Header:	
Enable Register MAC Header:		BLF Dialog Strict Match:	
PTime(ms):	Disabled V	Enable Deal 180:	
Transaction Timer T1:	500 (500~10000)millisecond 🥝	Transaction Timer T2:	4000 (2000~40000)millisecond
Transaction Timer T4:	5000 (2500~60000)millisecond 2		

Picture 71 - Enable SCA

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.

Key	Туре	Name	Value	Subtype		Line	PickUp Number
DSS Key 1	Key Event 🗸			Private Hold	~	AUTO 🗸	
DSS Key 2	None 🗸			None	~	AUTO 🗸	
DSS Key 3	None 🗸			None	×	AUTO 🗸	
DSS Key 4	None 🗸			None	~	AUTO 🗸	
DSS Key 5	None 🗸			None	~	AUTO 🗸	
DSS Key 6	None 🗸			None	~	AUTO 🗸	
DSS Key 7	None 🗸			None	~	AUTO 🗸	
DSS Key 8	None 🗸			None	~	AUTO 🗸	
DSS Key 9	None 🗸			None	~	AUTO 🗸	
DSS Key 10	None 🗸			None	V	AUTO 🗸	

Picture 72 - Set Private Hold Function Key

- After each phone set registered with the BroadSoft server is configured as above, the SCA function can be used.
- 2) Shared Call Appearance(SCA)

The following lists a couple of instances to facilitate understanding.

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



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

Scenario 2: When this account receives an incoming call, if the secretary answers the call first and the manager is required to answer the call, the secretary can press the Public Hold key to hold this call and notify the manager. The manager can press the line key corresponding to the SCA to answer the call. Scenario 3: The manager is in an important call with a customer and needs to leave for a while. If the manager does not want others to retrieve this call, the manager can press the Private Hold key. Scenario 4: The manager is in a call with a customer and requires the secretary to join the call to make records. The secretary can press the corresponding SCA line key to barge in this call.

9.8 Message

9.8.1 **SMS**

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



Picture 73 - SMS icon

Send messages:

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

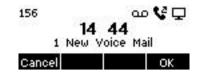
View SMS:

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

9.8.2 MWI (Message Waiting Indicator)

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





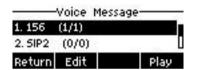
Picture 74 - New Voice Message Notification

Voice message icon

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

When the phone is in the default standby state.

- The Side Key is pre-installed with a voice message shortcut key [MWI] key.
- Press [**MWI**] to open the voice message configuration interface, and select the line to be configured by pressing the up/down navigation buttons.
- Press the [Edit] button to edit the voice message number. When finished, press the [OK] button to save the configuration.
- In the following picture, "17" in front of Fanvil line brackets represents unread voice messages, and "17" represents the total number of voice messages.



Picture 75 - Voice message interface

	1	56	
Voice M	tail Disa	abled	•
Return	Left	Right	OK

Picture 76 - Configure voicemail number

9.9 SIP Hotspot

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

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

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



Line	69@SIP1 ∨					
Register	Settings >>					
Line	Status:	Registered		Activate:	Ø	
User	rname:	69	0	Authentication User:	69	0
Disp	lay name:	69	0	Authentication Password:		0
Real	lm:		0	Server Name:		0
SIP	Server 1:			SIP Server 2:		
Serv	ver Address:	172.16.1.2	0	Server Address:		0
Serv	ver Port:	5060	0	Server Port:	5060	0
Tran	sport Protocol:	UDP 🗸 🔇		Transport Protocol:	UDP 🗸 🕜	
Regi	istration Expiration:	3600 second(s)	0	Registration Expiration:	3600 second(s)	0
Prox	xy Server Address:		0	Backup Proxy Server Address:		0
Prox	y Server Port:	5060	0	Backup Proxy Server Port:	5060	0
Prox	ky User:		0			
Prox	v Password:		0			

Picture 77 - Register SIP account

Table 11 - SIP hotspot Parameters

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

Configure SIP hotspot server:



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

Picture 78 - 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.

Ib	Server name	Online Status	Connection Status	Alias	Line	
172.16.7.224	SIP Hotspot	OnLine	Connected	1	0	Disconnec
SIP Hotspot Settings						
Enable Hotspot:	Ena	bled 💌				0
Mode:	Cle	nt 💌				0
Monitor Type:	Bro	edcast 💌				0
Monitor Address:	224	.0.2.0				0
Local Port:	163	60				0 0
Name:	SIP	Hotspot				0
Line Settings						
Line 1:	Ene	bled 💌				
Line 2:	Ena	bled 💌				

Picture 79 - 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.

under the Alle	-Lang	guage	25
🔿 Engli			0
口简体	5中文		L
Return	Up	Down	OK

Picture 80 - 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:

anvil				Default pas	sword is in	use. Please cha	nge English	✓ ✓ Logout (admin)
=X301(P)=							English 中文	Keep Online
	Information	Account Configurations	Upgrade	Auto Provision	Tools	Reboot Phone	繁體中文 Русский Italiano	
System							Deutsch Français עברית	-
Network	System Informatio	n 🕑					Español Català De Euskera	
NCLWOIN	Model:	X301(^o)				. Galego	ic
Line	Hardware:	V2.0					inf Slovenian	phone,
Line	Software:	0.0.15					ba česká	ware
	Uboot:	V1.0					ve Nederlands ne 한국어	me, count
Phone settings	Uptime:	00:4	3:46				ге: Українська	etc.
	MEMInfo:	ROM:	D.7/16(M) RAM:	12.2/49(M)			Português	
Phonebook	System time:	10:18	28 SEP WED (SNTP)				
Call logs	Network 🔞							
	WAN							
Function Key	Network mode:	DHCP						
	Ethernet MAC:	0c:38	3e:2f:c2:02					
Application	IPv4							
Application	Ethernet IP:	172.1	5.8.16					
	Subnet mask:	255.2	5.255.0					
Security	Default gateway	y: 172.1	5.8.1					
Device Log	VQ status 💞							
	Start time:		Stop time	2:				
	Local user:		Remote u	iser:				
	Local IP:		Remote I	P:				
	Local Port:		Remote p	ort:				

Picture 81 - 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:



————Time & Date———				
Mode	SNT	ГР		
Return	Left	Right	OK	

Picture 82 - Set time & date on phone

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

Network Time Server Settings			
Time Synchronized via SNTP			
Time Synchronized via DHCP			
Time Synchronized via DHCPv6			
Primary Time Server	0.pool.ntp.org		
Secondary Time Server	time.nist.gov		
Time zone	(UTC+8) Beijing, Sing	gapore,Perth,Irkuts 🗸	
Resync Period	9600	second(s)	
me/Date Format			
12-hour clock			
Time/Date Format	DD MMM WW	✓ 18 MAY TUE	
aylight Saving Time Settings			
Location	None	~	
DST Set Type	Disabled	~	
	Apply		
anual Time Settings			
2021-5-18 17	✓ 53 ✓	A	Apply
			COMPANY OF THE OWNER.

Picture 83 - Set time & date on webpage

Table 12 - Time Settings Parameters

Parameters	Description
Mode	Auto/Manual
	Auto: Enable network time synchronization via SNTP protocol, default enabled.
	Manual: User can modify data manually.
SNTP Server	SNTP server address
Time zone	Select the time zone
Time format	Select time format from one of the followings:



	■ 1 JAN, MON
	■ 1 January, Monday
	JAN 1, MON
	■ January 1, Monday
	■ MON, 1 JAN
	Monday, 1 January
	MON, JAN 1
	Monday, January 1
	DD-MM-YY
	DD-MM-YYYY
	■ MM-DD-YY
	■ MM-DD-YYYY
	■ YY-MM-DD
	■ YYYY-MM-DD
Separator	Choose the separator between year and moth and day
12-Hour Clock	Display the clock in 12-hour format
Daylight Saving Time	Enable or Disable the Daylight Saving Time

10.1.3 Screen

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

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

Screen Setting				
light Act	iv 12			
Return	Left	Right	OK	

Picture 84 - Set screen parameters on phone

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

10.1.3.1 Brightness and backlight

- Set the brightness level in use from 1 to 16, [<] or [>] switch brightness level.
- Set the brightness level in the energy-saving mode from 0 to 16, [<] or [>] switch the brightness level.
- Set the backlight time to 30 seconds by default. You can turn it off or select 15 seconds /30 seconds /45 seconds /60 seconds /90 seconds /120 seconds.
- The screen saver can be turned on or off by default.
- Web interface: enter [Phone Settings] >> [Advanced], edit screen parameters, and click submit to save.



Backlight Active Level:	12	(1~16)
Backlight Inactive Level:	4	(0~16)
Backlight Time:	Always On	~
Customer Backlight Time:		(1~54000)second
Screensaver	Enable	~

Picture 85 - Page screen Settings

10.1.3.2 Screen Saver

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

14 : 59 24 AUG WED 156

Picture 86 - Phone screen saver

10.1.4 **Ring**

When the device is in the default standby mode,

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

10.1.5 Voice Volume

When the device is in the default standby mode,

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

10.1.6 **Greeting Words**

When the device is in the default standby mode,



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

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

10.1.7 **Reboot**

When the device is in the default standby mode,

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

10.2 Phone Book

10.2.1 Local Contact

User can save contacts' information in the phone book and dial the contact's phone number(s) from the phone book. To open the phone book, user can 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.

	-Con	tact	2012
2. Block	ed List	(0)	
3. Allow	ed List	(0)	
Return	Up	Down	OK

Picture 87 - Phone book screen

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

•	-All Con	tacts-	
		0.999-140	2
12d		3425	
Return	Option	Add	Dial

Picture 88 - Local Phone book

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



10.2.1.1 Add / Edit / Delete Contact

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

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

	Add C	ontacts-	
Name	I		0
Beturn	2aB	Delete	OK

Picture 89 - 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.

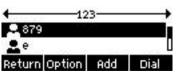
The Number behind the group name means the total contacts number of selected groups.



Picture 90 - Group List

10.2.1.3 Browse and Add / Remove Contacts in Group

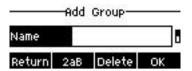
User can browse contacts in a group by opening the group in group list with [OK] button.



Picture 91 - 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 screen, 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].

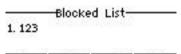


Picture 92 - Add Contacts in a Group

10.2.2 Blocked List

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

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



Return Option Add Dial

Picture 93 - Add Blocked List

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

ted Incoming Calls		
		Add Delete Delete All
	Caller Number	Line
	123	ALL
	135	ALL



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 convenientfor 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.

-Cloud Contacts-----

Return Picture 95 - 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 downloading failed.

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



Picture 96 - Downloading Cloud Phone book

10.3 Call Log

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

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

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

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

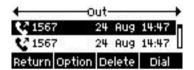


•	All—			÷
1567	24	Aug	14:47	
\$ 1567			14:47	
Return Option	De	lete	Dial	

Picture 97 - Call Log

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

- 😵 Missed Call Logs
- Solution Incoming Call Logs
- Solution Call Logs
- 🕨 Forward Call Logs



Picture 98 - Filter call record types

10.4 Headset

10.4.1 Wired Headset

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



Picture 99 - Headset function settings

10.4.2 EHS Headset

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

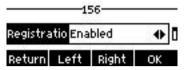
	—E	н5———	
EHS	Disa	abled	•
Return	Left	Right	OK



Picture 100 - EHS Headset setting

10.5 Advanced

10.5.1 Line Configurations

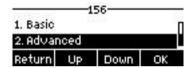


Picture 101 - SIP address and account information

Save the adjustment by pressing [OK] when done.

For users who want to configure more options, user should use web management portal to modify or

Advanced Settings in accounts on the individual line to configure those options.



Picture 102 - Configure Advanced Line Options

10.5.2 Network Settings

10.5.2.1 Network Settings

IP Mode

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

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

L Come Dir So-	-WAN	Port-	200
2. IPV4		-00-86363	0
3. IPV6			
Return	UP.	Down	OK

Picture 103 - Network mode Settings

■ IPv4

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

Network-					
nection	MCDHO	CP			
Return	Left	Right	OK		

Picture 104 - 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.



Network				
Username	user123		8	
Return a	bc	Delete	OK	

Picture 105 - PPPoE network mode

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

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

Network				
tion Mo	de Sta	atic IP		
Return	Left	Right	OK	

Picture 106 - Static IP network mode

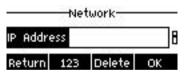
When using Static IP mode, user must configure the IP address manually.

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

■ IPv6

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

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



Picture 107 - IPv6 Static IP network mode

10.5.2.2 QoS & VLAN

LLDP

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

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

CDP

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



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

Table 13 - QoS & VLAN

Note: QoS & VLAN details refer to

10.5.2.3 VPN

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

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

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

L2TP

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

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

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

OpenVPN

To establish an OpenVPN connection, user should get the following authentication and configuration files



from the OpenVPN hosting provider and name them as the following,

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

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

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

10.5.2.4 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.

——Web	Ser	ver Typ	e
Protocol	нтт	ГР	•
Return L	eft	Right	OK

Picture 108 - The phone configures the web server type

10.5.3 Set The Secret Key

When the device is in the default standby mode,

- Select [Menu] >> [System] >> [Security], 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.

Security 1. Menu Password 2. Keyboard Password			Menu Password				
			ent passwc				
2. Keybo	ard P	assword		Deservation of the local distribution of the			
Return	Up.	Down	OK	Return	123	Delete	OK

Picture 109 - 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 110 - 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 111 - Phone keypad lock password input interface

Keyboard Password:	•••
Keyboard Time:	5
Enable Keyboard Lock:	Disabled V

Picture 112 - Web keyboard lock password Settings

10.5.4 Maintenance

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

Fanvil		Default passw	ord is in use. Please chai	nge English ✓ ✓ Logout (admin) ✓ Keep Online	
≡x301(P)≡	Information Account Configurations	Upgrade Auto Provision	Tools Reboot Phone		
> System				NOTE	
> Network	Basic Settings			Description:	
> Line	CPE Serial Number: Authentication Name: Authentication Password:	00100400FV02001000000c383e2fc202	0	Auto Provisioning is used to realize remote/automatically installation and	
› Phone settings	Configuration File Encryption Key: General Configuration File Encryption Key:		0	delpoyment configuration and some other related files.	
> Phonebook	Download Fail Check Times: Update Contact Interval: Save Auto Provision Information:	1 720 (0,>=5)Minute	0		
> Call logs	Save Auto Provision Information: Download CommonConfig enabled: Enable Server Digest:		0		
> Function Key	Display Provision Prompt: Provision Config Priority:	Disable All Provision Prompt	0		
> Application	DHCP Option >>				
> Security	DHCPv6 Option >>				
	SIP Plug and Play (PnP) >>				
> Device Log	Static Provisioning Server >>				
	Autoprovision Now >>				
	TR069 >>				
	Apply				

Picture 113 - Page auto provision Settings



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

	Auto P	rovision-	255
1. IPV4	DHCP	Option	E R
2. IPV6 DHCP Option			
Return	UP	Down	OK

Picture 114 - 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

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

Table 14 - Auto Provision



	1	
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)	1	
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 Serve	er	
	Provisioning server address. Support both IP address and domain	
Server Address	address.	
	The configuration file name. If it is empty, phone will request the common	
Configuration File Name	file and device file which is named as its MAC address.	
Configuration File Name	The file name could be a common name, \$mac.cfg, \$input.cfg. The file	
	format supports CFG/TXT/XML.	
Protocol Type	Transferring protocol type , supports FTP、 TFTP、 HTTP and HTTPS	
Update Interval	Configuration file update interval time. As default it is 1, means phone will	
Opdate interval	check the update every 1 hour.	
	Provision Mode.	
Lindata Mada	1. Disabled.	
Update Mode	2. Update after reboot.	
	3. Update after interval.	
TR069		
Enable TR069	Enable TR069 after selection	
ACS Server Type	There are 2 options Serve type, common and CTC.	
ACS Server URL	ACS server address	
ACS User		
	ACS server username (up to is 59 character)	
ACS Password		
ACS Password Enable TR069 Warning	ACS server username (up to is 59 character) ACS server password (up to is 59 character)	
	ACS server username (up to is 59 character)	
Enable TR069 Warning	ACS server username (up to is 59 character) ACS server password (up to is 59 character)	
Enable TR069 Warning Tone	ACS server username (up to is 59 character)ACS server password (up to is 59 character)If TR069 is enabled, there will be a prompt tone when connecting.	
Enable TR069 Warning Tone TLS Version	ACS server username (up to is 59 character)ACS server password (up to is 59 character)If TR069 is enabled, there will be a prompt tone when connecting.TLS version (TLS 1.0, TLS 1.1, TLS 1.2)	



10.5.5 Firmware Upgrade

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

	Default password is in use. Please cha	INGE English 🗸 🗹 Logout (admin) 🗹 Keep Online
	Information Account Configurations Upgrade Auto Provision Tools Reboot Phone	
> System		NOTE
> Network	Software upgrade Current Software Version: 0.0.11	Description: This page is used to
> Line	System Image File: Upgrade Upgrade Server	upgrade some files for phone, including firmware, ring tones, wall
> Phone settings	Upgrade server Enable Auto Upgrade:	paper, etc.
> Phonebook	Upgrade Server Address2: Upgrade Server Address2: Update Interval: 24 Hour(s)	
> Call logs	Apply	
> Function Key	Firmware Information Current Software Version: 0.0.11	
> Application	Server Firmware Version:	
> Security	New Firmware Information:	
> Device Log	Ring Upgrade 🖉	
	Load Server File: Select (*.wav,*.tar.gz) Upload	
	King List 🗸	

Picture 115 - Web page firmware upgrade

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



Picture 116 - Firmware upgrade information display

Table 15 - Firmware upgrade

Parameter	Description	
Upgrade server		
	Enable automatic upgrade, If there is a new version txt and new	
Enable Auto Upgrade	software firmware on the server, phone will show a prompt upgrade	
	message after Update Interval.	
Upgrade Server Address1	Set available upgrade server address.	
Upgrade Server Address2	Set available upgrade server address.	
Update Interval	Set Update Interval.	
Firmware Information		
Current Software Version	It will show Current Software Version.	
Server Firmware Version	It will show Server Firmware Version.	
[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.
Now version description	When there is a corresponding TXT file and version on the server
New version description	side, the TXT and version information will be displayed under the new
information	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:

fanvil_X301_hw1_0	2022/9/2 9:31	文本文档	1 KB
fanvil_X301_hw1_1	2022/9/2 9:31	文本文档	1 KB
fanvil_X301_hw1_2	2022/9/2 9:31	文本文档	1 KB
fanvil_X301_hw1_3	2022/9/2 9:31	文本文档	1 KB
x301-fanvil-release-ff01-5951-0.0.15-kalvUT2022-08-29-01.37.31.z	2022/8/30 15:33	Z 文件	12,413 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 prompts software upgrade, click View to view version information and upgrade.

10.5.6 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

Select the module in the configuration file to clear.

SIP: account configuration.

AUTOPROVISION: automatically upgrades the configuration

TR069:TR069 related configuration

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



DSS Key: DSS Key configuration

Clear Tables

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

Reset Phone

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

11.5 System >> Upgrade

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

11.6 System >> Auto Provision

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

11.7 System >> Tools

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

11.8 System >> Reboot Phone

This page can restart the phone.



12 Network >> Basic

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

12.1 Network >> Service Port

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

/eb Server Type:	HTTP 🗸	
/eb Logon Timeout:	15	(10~30)Minute
veb auto login:		
HTTP Port:	80	
ITTPS Port:	443	
RTP Port Range Start:	10000	(1025~65530)
RTP Port Quantity :	1000	(10~1000)

Picture 117 - Service Port Settings

Table 16 - Service port

Parameters	Description	
Web Server Type	Reboot to take effect after settings. Optionally, the web page login is	
	HTTP/HTTPS.	
Web Logon Timeout	Default as 15 minutes, the timeout will automatically exit the login page, need	
Web Logon Timeout	to login again.	
Web auto login	After the timeout does not need to enter a user name password, will	
Web auto login	automatically login to the web page.	
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 <u>10.6.2.3 VPN</u> for more details.



12.3 Network >> Advanced

Advanced network Settings are typically configured by the IT administrator to improve the quality of the phone service. For configuration, query the <u>10.6 advanced</u> Settings.

12.4 Line >> SIP

Configure the Line service configuration on this page.

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

Table 17 - Line configuration on the web page



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	Enable hotline configuration, the device will dial to the specific number immediately at audio channel opened by off-hook handset or turn on hands-free speaker or 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 Anonymous Call	Set the feature code to dial to the server
Disable Blocking Anonymous Call	Set the feature code to dial to the server
Call Waiting On Code	Set the feature code to dial to the server
Call Waiting Off Code	Set the feature code to dial to the server
Send Anonymous On Code	Set the feature code to dial to the server
Send Anonymous Off Code	Set the feature code to dial to the server
SIP Encryption	Enable SIP encryption such that SIP transmission will be encrypted
RTP Encryption	Enable RTP encryption such that RTP transmission will be encrypted
	Set the line to enable call ending by session timer refreshment. The call
Enable Session Timer	session will be ended if there is not new session timer event update
	received after the timeout period
Session Timeout	Set the session timer timeout period
Enable BLF List	Enable/Disable BLF List
BLF List Number	BLF List allows one BLF key to monitor the status of a group. Multiple BLF lists are supported.
Response Single Codec	If setting enabled, the device will use single codec in response to an incoming call request
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	
–	With the post-call hold capture package enabled, you can see that in the	
Enable Inactive Hold	INVITE package, SDP is inactive.	
Caller ID Header	Set the Caller ID Header	
Use 182 Response for Call		
waiting	Set the device to use 182 response code at call waiting response	
Enable Feature Sync	Feature Sync with server	
Enable SCA	Enable/Disable SCA (Shared Call Appearance)	
CallPark Number	Set the CallPark number.	
Server Expire	Set the timeout to use the server.	
TLS Version	Choose TLS Version.	
uaCSTA Number	Set uaCSTA Number.	
Enable Click To Talk	With the use of special server, click to call out directly after enabling.	
Flash mode	Chose Flash mode, normal or SIP info.	
Flash Info Content-Type	Set the SIP info content type.	
Flash Info Content-Body	Set the SIP info content body.	
PickUp Number	Set the scramble number when the Pickup is enabled.	
JoinCall Number	Set JoinCall Number.	
Intercom Number	Set Intercom Number.	
Unregister On Boot	Whether to enable logout function.	
	Whether to open the registration of SIP package with user agent with MAC	
Enable MAC Header	or not.	
Enable Register MAC	Whether to open the registration is user agent with MAC or not.	



Header	
BLF Dialog Strict Match	Whether to enable accurate matching of BLF sessions.
PTime(ms)	Set whether to bring ptime field, default no.
SIP Global Settings	
Strict Branch	Set up to strictly match the Branch field.
Enable Group	Set open group.
Enable RFC4475	Set to enable RFC4475.
Enable Strict UA Match	Enable strict UA matching.
Registration Failure Retry	Cat the registration failure rate (time
Time	Set the registration failure retry time.
Local SIP Port	Modify the phone SIP port.

12.5 Line >> SIP Hotspot

Please refer to 9.9 SIP Hotspot.

12.6 Line >> Dial Plan

Basic Settings

Press # to invoke dialing	0
Dial Fixed Length 11 to Send	0
Send after 10 second(s)(3~30)	0
Press # to Do Blind Transfer	0
Blind Transfer on Onhook	0
Attended Transfer on Onhook	0
Attended Transfer on Conference Onhook	0
Enable E.164	0
Apply	

Picture 118 - Dial plan settings

Table 18 - Phone 7 dialing methods

Parameters	Description
Proce # to invoke dialing	The user dials the other party's number and then adds the #
Press # to invoke dialing	number to dial out;
Dial Eived Longth	The number entered by the user is automatically dialed out when it
Dial Fixed Length	reaches a fixed length
Timeout dial	The system dials automatically after timeout
Droop # to Do Blind Tropofor	The user enters the number to be transferred and then presses the
Press # to Do Blind Transfer	"#" key to transfer the current call to a third party
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.
	Hang up the handle or press the hands-free button to realize the
Attended Transfer on Onhook	function of transfer, which can transfer the current call to a third
	party.
Attended Transfer on	During a three-way call, hang up the handle and the remaining two
Conference Onhook	parties remain on the call.
Enable E.164	Please refer to e. 164 standard specification

Add dialing rules:

al Plan Add					
Digit Map:		0			
Apply to Call:	Outgoing	Call 🗸 🕜			
Match to Send:	No 🗸	0			
Line:	SIP DIAL	PEER 🗸 🕜			
Destination:		0	1		
Port:		0)		
Alias(Optional):	No Alias	v 🕜			
Phone Number:		0			
Length:		0			
Suffix:		0			
			Add		
al Plan Option 🕜					
~			Delete	Modify	
er-defined Dial Pl	an Table 🕜				
Index Digi	t Map Call	Match to Send	Line	Alias Type:Number(length)	Suffix

Picture 119 - Custom setting of dial - up rules

Table 19 - Dial - up rule configuration table

Parameters	Description	
	There are two types of matching: Full Matching or Prefix Matching. In Full matching,	
	the entire phone number is entered and then mapped per the Dial Peer rules.	
Dial rule	In prefix matching, only part of the number is entered followed by T. The mapping with	
	then take place whenever these digits are dialed. Prefix mode supports a maximum	
	of 30 digits.	

Note: Two different special characters are used.

■ x -- Matches any single digit that is dialed.

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



Destination	tion Set Destination address. This is for IP direct.		
Port	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.		
Note: There are four types of aliases.			
■ all: xxx – xxx will replace the phone number.			
■ add: xxx – xxx will be dialed before any phone number.			
■ del –The ch	del –The characters will be deleted from the phone number.		
■ rep: xxx – xxx will be substituted for the specified characters.			
Suffix Characters to be added at the end of the phone number. It is an optional item.			
Longth	Set the number of characters to be deleted. For example, if this is set to 3, the phone		
Length	will delete the first 3 digits of the phone number. It is an optional item.		

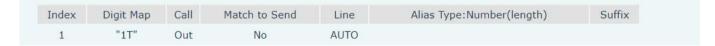
This feature allows the user to create rules to make dialing easier. There are several different options for dial rules. The examples below will show how this can be used.

Example 1: All Substitution -- Assume that it is desired to place a direct IP call to IP address 172.168.2.208. Using this feature, 123 can be substituted for 172.168.2.208.

define	d Dial Pla	n Tab	le 🕜			
Index	Digit Map	Call	Match to Send	Line	Alias Type:Number(length)	Suffix Media
1	"123"	Out	No	SIP DIALPEER(172.16.1.15:5560)		Defaul

Picture 120 - Dial rules table (1)

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



Picture 121 - Dial rules table (2)

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

x -- Matches any single digit that is dialed.

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

12.7 Line >> Basic Settings

Set up the register global configuration.



Parameters	Description			
STUN Settings				
Server Address	Set the STUN server address			
Server Port	Set the STUN server port, default is 3478			
Dinding Davied	Set the STUN binding period which can be used to keep the NAT pinhole			
Binding Period	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			
TLS Certification File	transmission.			

Table 20 - Set the line global configuration on the web page

12.8 Phone settings >> Features

Configuration phone features.

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
	Specify Auto Onhook time, the phone will hang up and return to the idle
Auto Onhook Time	automatically after Auto Hand down time at hands-free mode, and play dial
	tone Auto Onhook time at handset mode
Ding for Hoodoot	Enable Ring for Handset by selecting it, the phone plays ring tone from
Ring for Headset	handset.
Auto Headset	Enable this feature, headset plugged in the phone, user press 'answer' key
Auto neauset	or line key to answer a call with the headset automatically.
Enable Silent Made	When enabled, the phone is muted, there is no ringing when calls, you can
Enable Silent Mode	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.

Table 21 - General	function Settings
	runction octango



Enable Auto Switch Line	Enable phone to select an available SIP line as default automatically	
Default Ext Line	Select the default line to use for outgoing calls	
Pop Outgoing	If you select Ban Outgoing to enable it, and you cannot dial out any	
Ban Outgoing	number.	
Hide DTMF	Configure the hide DTMF mode.	
Enable CallLog	Select whether to save the call log.	
Enable Restricted	Whether to enable restricted call list.	
Incoming 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	
	Configure the Emergency Call Number. Despite the keyboard is locked,	
Emergency Call Number	you can dial the emergency call number	
	Set the device to accept Active URI command from specific IP address.	
Restrict Active URI Source	More details please refer to this link	
IP	http://www.fanvil.com/Uploads/Temp/download/20180920/5ba3641fe81a5.	
	pdf.	
	Configure the Push XML Server, when phone receives request, it will	
Push XML Server	determine whether to display corresponding content on the phone which	
	sent by the specified server or not.	
	Disable this feature, user enter number will open audio channel	
Enable Pre-Dial	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 DTMF tone on the device when user pressed a phone digits at dialing,
Play Dialing DTMF Tone	default enabled.
	Play DTMF tone on the device when user pressed a phone digits during
Play Talking DTMF Tone	taking, default enabled.
DND Settings	
DND Option	Select to take effect on the line or on the phone or close.
	Enable DND Timer, If enabled, the DND is automatically turned on from the
Enable DND Timer	start time to the off time.
DND Start Time	Set DND Start Time
DND End Time	Set DND End Time
Intercom Settings	
	When intercom is enabled, the device will accept the incoming call request
Enable Intercom	with a SIP header of Alert-Info instruction to automatically answer the call
	after specific delay.
Enable Intercom Mute	Enable mute mode during the intercom call
Enable Intercom Tone	If the incoming call is intercom call, the phone plays the intercom tone
	Enable Intercom Barge by selecting it, the phone auto answers the
Enable Intercom Barge	intercom call during a call. If the current call is intercom call, the phone will
	reject the second intercom call
Response Code Settings	
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	1
	Enable Password Dial by selecting it, When number entered is beginning
Enable Password Dial	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.
	Voice message popup prompt is not answered after opening, and it is
Display MWI Popup	opened by default if there is no popup prompt when closing.
Display Device Connect	There is a popup prompt when the WIFI adapter is connected. There is no
Рорир	popup prompt when the WIFI adapter is closed. It is on by default.
	There is popup prompt for unread messages after opening, and there is no
Display SMS Popup	popup prompt when closing. It is opened by default.
	When the handle is not hung back after opening, registration fails, IP
	acquisition fails, Tr069 connection fails and other abnormalities, there will
Display Other Popup	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 22 - Voice settings



Parameters	Description	
	Select enable or disable voice encoding:	
Codecs Settings	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	
	Configure default ringtones. If no special ringtone is set for the phone	
Default Ring Type	number, the default ringtone will be used.	
Speakerphone Volume	Set the hands-free volume to 1-9.	
Headset Ring Volume	Set the volume of the earphone ringtone to 1~9.	
Headset Volume	Set the volume of the headset to 1~9.	
Speakerphone Ring Volume	Set the volume of hands-free ringtone to 1~9.	
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 playload type	Set Opus load type, range 96~127.	
OPUS Sample Rate	Set Opus sampling rate, including opus-nb (8KHz) and opus-wb (16KHz).	
ILBC Payload Type	Set the ILBC Payload Type, the value must be 96~127.	
ILBC Payload Length	Set the ILBC Payload Length	
Enable MWI Tone	When there is a new voice message message, the phone will start a	
	special dial tone.	
Enable VAD	Whether voice activity detection is enabled.	
Onhook Time	Configure a minimum response time, which defaults to 200ms	
EHS Type	EHS headset is available after enabling.	
RTP Control Protocol(RTCP	P) Settings	
CNAME user	Set CNAME user	
CNAME host	Set CNAME host	
RTP Settings		
RTP keep alive	Hold the call and send the packet after 30s	
Alert Info Ring Settings		
Value	Set the value to specify the ring type.	
Ring Type	Туре1-Туре9	

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 23 - Multicast parameters

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

12.12 Phone settings >> Time/Date

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

Parameters	Description
Network Time Server Settings	
Time Synchronized via SNTP	Enable time-sync through SNTP protocol
Time Synchronized via DHCP	Enable time-sync through DHCP protocol
Primary Time Server	Set primary time server address
	Set secondary time server address, when primary server is not
Secondary Time Server	reachable, the device will try to connect to secondary time server to get
	time synchronization.
Time Zone	Select the time zone
Resync Period	Time of re-synchronization with time server
12-Hour Clock	Set the time display in 12-hour mode
Date Format	Select the time/date display format
Daylight Saving Time Settings	6

Table 24 - Time&Date settings

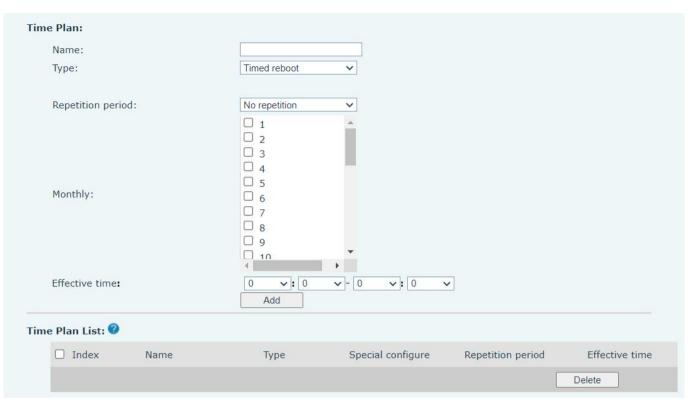


	Choose your local, phone will set daylight saving time automatically
Local	based on the local
	Choose DST Set Type, if Manual, you need to set the start time and
DST Set Type	end time.
Fixed Type	Daylight saving time rules are based on specific dates or relative rule
Fixed Type	dates for conversion. 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 >> Time Plan

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





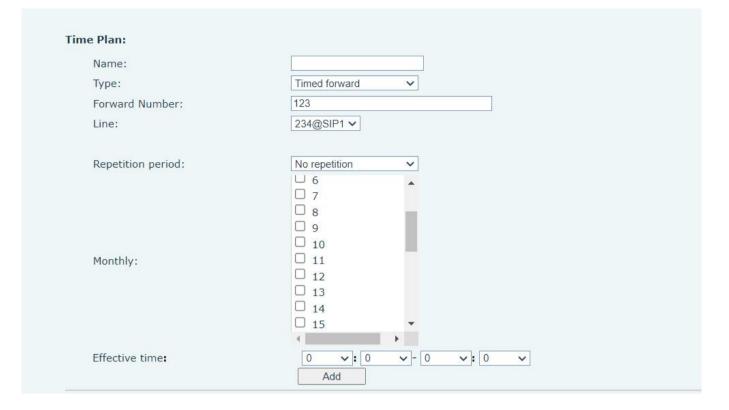
Picture 122 - Time Plan (1)

Table 25 - Time Plan

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

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





Picture 123 - Time Plan (2)

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

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

1. Timed forwarding rules:

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

2) All scheduled forwarding types are unconditional forwarding.

12.13.1 Repeat Period Select Daily

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

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

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



Repetition period:	Daily 🗸
Effective time <mark>:</mark>	
	Add

Picture 124 - Time Plan (3)

12.13.2 Repeat Period Select Weekly

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

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

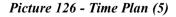
Repetition period:	Weekly 🗸
	Sunday
	Monday
	Tuesday
Weekly:	Wednesday
Weekly.	Thursday
	Friday
	Saturday
	4 D
Effective time:	
	Add

Picture 125 - Time Plan (4)

12.13.3 Time Plan List

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

VID DD D	Tune	Coordinal coordinauro	Departition pariod	Effective time
Va	me	me Type	me Type Special configure	me Type Special configure Repetition period



12.13.4 Delete

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

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



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

Picture 127 - Time Plan (6)

12.14 Phone settings >> Tone

This page allows users to configure a phone prompt.

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

Select Your Tone:	United States	-
Dial Tone:	350+440/0	
Ring Back Tone:	440+480/2000,0/4000	
Busy Tone:	480+620/500,0/500	
Congestion Tone:		
Call waiting Tone:	440/300,0/10000,440/300,0/10000,0/0	
Holding Tone:		
Error Tone:		
Stutter Tone:		
Information Tone:		
Dial Recall Tone:	350+440/100,0/100,350+440/100,0/100,350+440/100,0/100,350+440/0	
Measage Tone:		
Howler Tone:		
Number Unobtainable Tone:	400/500,0/6000	
Warning Tone:	1400/500,0/0	
Record Tone:	440/500,0/5000	
Auto Answer Tone:		



12.15 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'.

12.16 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 blocked list by click "Add to Blocked List" 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.

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.

XML	✓ 11 XML2 XM	IL3 XML4 BACK						
Add to	phonebook Add to Block	ed List Add to Whitelist				Previous	Page: 🗸	Next
	Index Na							
_	THUCK							
	INCEX						Provide the second seco	ies per page
	ge Cloud Phonebooks Cloud phonebook name		Calling Line	Search Line	Authenticat		Provide the second seco	ies per page on Password
ndex	ge Cloud Phonebooks 🤇		Calling	Search			10 V Entr	
ndex	ge Cloud Phonebooks Cloud phonebook name	Cloud phonebook URL	Calling Line	Search Line			10 V Entr	
ndex	ge Cloud Phonebooks Cloud phonebook name	Cloud phonebook URL	Calling Line	Search Line AUTC V AUTC V			10 V Entr	

Picture 129 - Web cloud phone book Settings

12.18 Phonebook >> Call List

Restricted Incoming Calls:

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

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

Allowed Incoming Calls:

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

Restricted Outgoing Calls:

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

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 CallLog

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

The user can also save the number in the call record to his/her phone book or add it to the blocked list\allowed list.

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

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

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.

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

Table 26 - Function Key configuration



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.

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

Table 27 - Softkey configuration



Transfer Alerting	End/Transfer/Headset/Release/DSS Key
	Redial/Delete/Exit/2aB/Dial/Local Contacts/Transfer/
Transfer Dialer	CallLog/Clear/Missed/Dialed/Pause/Headset/Video/Audio/Remote XML/DSS
	Кеу
Trying	End/Release/Headset/DSS Key
	Hold/Transfer/Conference/End/Answer/Forward/Mute/Next call/New call/Prev
Waiting	call/Reject/Release/Headset/Listen/
	Video/Audio/DSS Key

12.24 Function Key >> Advanced

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

Programmable key Settings

Please refer to the <u>Table 25 Softkey configuration</u>

12.25 Application >> Manage Recording

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

12.26 Security >> Web Filter

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

Start IP Address	End IP Addr	ess	C	ption
Veb Filter Table Settings				
Start IP Address	🕜 End IP Addr	ess		Add
Veb Filter Setting 🕜				

Picture 130 - Web Filter settings



Filter Table 🕜		
Start IP Address	End IP Address	Option
192,168,1,1	192, 168, 254, 254	Modify
192.106.1.1	192.108.294.254	Delete

Picture 131 - Web Filter Table

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

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

Note: if the device you are accessing is in the same network segment as the phone, please do not configure the filter segment of the web page to be outside your own network segment, otherwise you will not be able to log in the web page.

12.27 Security >> Trust Certificates

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

Permission (Certificate				
Permissio	on Certificate	Disabled V	0		
Common	Name Validation	Disabled 🗸	0		
Certificat	e mode	All Certificates 🗸	0		
		Apply			
Import Certi	ficates 🕜				
Load Ser	rver File		Select Upload		
Certificates I	List 🕜				
Index	File Name	Issued To	Issued By	Expiration	File Size
					Delete

Picture 132 - Certificate of settings

12.28 Security >> Device Certificates

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



Device Certificates 😵				
Device Certificates	Default Certificates Default Certificates Custom Certificates	 (existence) 		
mport Certificates 🥝				
Load Server File		Select Upload		
Certification File 💡				
File Name	Issued To	Issued By	Expiration	File Size
				Delete

Picture 133 - Device certificate setting

12.29 Security >> Firewall

Firewall Type 🕜						
Ena	ble Input Rules: 🗌			Enable Outpu	ut Rules: 🗌	
			Apply			
Firewall Input Rule Table	0					
Index Deny/Permit Prote	ocol Src Address	Src Mask	Src Port Range	Dst Address	Dst Mask	Dst Port Range
Firewall Output Rule Table	0					
Index Deny/Permit Prot	ocol Src Address	Src Mask	Src Port Range	Dst Address	Dst Mask	Dst Port Range
Firewall Settings 📀						
Input/Output Input 🗸	Src Address		Dst Ado	dress		
Deny/Permit Deny 🗸	Src Mask		Dst M	ask		Add
Protocol UDP 🗸	Src Port Range		- Dst Port	Range	-	
Rule Delete Option 🥝						
Input/Output	Input 🗸	1	Index To Be Deleted	t 🗌		Delete

Picture 134 - Network firewall Settings

Through this page can set whether to enable the input, output firewall, at the same time can set the firewall input and output rules, using these Settings can prevent some malicious network access, or restrict internal users access to some resources of the external network, improve security.

Firewall rule set is a simple firewall module. This feature supports two types of rules: input rules and output rules. Each rule is assigned an ordinal number, allowing up to 10 for each rule.

Considering the complexity of firewall Settings, the following is an example to illustrate:

Table 28 - Network Firewall



Parameter	Description				
Enable Input Rules	Indicates that the input rule application is enabled.				
Enable Output Rules	Indicates that the output rule application is enabled.				
Input/Output	To select whether the currently added rule is an input or output rule.				
Deny/Permit	To select whether the current rule configuration is disabled or allowed;				
Protocol	There are four types of filtering protocols: TCP UDP ICMP IP.				
Src Port Range	Filter port range				
	Source address can be host address, network address, or all addresses				
Src Address	0.0.0.0; It can also be a network address similar to *.*.*.0, such as:				
	192.168.1.0.				
	The destination address can be either the specific IP address or the full				
Dst Address	address 0.0.0.0; It can also be a network address similar to *.*.*.0, such as:				
	192.168.1.0.				
	Is the source address mask. When configured as 255.255.255.255, it				
Src Mask	means that the host is specific. When set as 255.255.255.0, it means that a				
	network segment is filtered.				
	Is the destination address mask. When configured as 255.255.255.255, it				
Dst Mask	means the specific host. When set as 255.255.255.0, it means that a				
	network segment is filtered.				

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

wall In	put Rule Ta	ble 🕜						
Index [Deny/Permit	Protocol	Src Address	Src Mask	Src Port Range	Dst Address	Dst Mask	Dst Port Range
1	deny	udp	192.168.1.0	192.168.1.154	0-9	255.255.255.0	255.255.255.0	0-9

Picture 135 - Firewall Input rule table

Then select and click the button [Apply].

In this way, when the device is running: ping 192.168.1.118, the packet cannot be sent to 192.168.1.118 because the output rule is forbidden. However, other IP of the ping 192.168.1.0 network segment can still receive the response packet from the destination host normally.

ule Delete Option 🕜			
Input/Output	Input 🔻	Index To Be Deleted	Delete

Picture 136 - Delete firewall rules

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



12.30 Device Log >> Device Log

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



13 Trouble Shooting

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

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

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

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).

Syslog		
Enable Syslog:		
Server Address:	0.0.0.0	0
Server Port:	514	0
APP Log Level:	Error	0
Export Log:		
	Apply	
WLAN Log		
Enable WLAN Log:	Export Log Apply	
Packet Capture 🕜		
Start	stop	
Screenshot		
Main Screen:	Save BMP	

Picture 131 - 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 relevant operations such as activate/deactivate line or making phone calls and click [**Stop**] button in the web page when operation finished. The network packets of the device during the period have been dumped to the saved file.

Enable Syslog:		
Server Address:	0.0.0.0	0
Server Port:	514	0
APP Log Level:	Error	0
Export Log:		
	Apply	
/LAN Log		
Enable WLAN Log:		
	Export Log	
	Apply	

Picture 132 - 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

Trouble Case	Solution	
	1. The device is powered by external power supply via power adapter or	
	PoE switch. Please use standard power adapter provided by Fanvil or	
	PoE switch met with the specification requirements and check if device	
Device could not boot up	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.	

Table 29 - Trouble Cases

Fanvil

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