



User Manual X7&X7C

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



4 Overview

4.1 Overview

The new Fanvil X7&X7C IP Phone is a high-end enterprise desktop phone which comes with an intelligent DSS Key-mapping LCD to increase enterprise users' productivity at a cost-effective price.

The new DSS key design with dynamic intelligent color display can replace the traditional expansion board function.X7C smart display can dynamically display 5 pages, each page can display 12 Side Key Settings, a total of 60 user-defined DSS Key mapping; The page turning shortcut allows users to quickly switch to the specified page. Each DSS key displays green, red, and yellow LED indicators to reflect the current state of the key. X7 touch screen can display 4 pages dynamically each page can display 29 DSS keys and 1 expansion key; There are also 11 configurable Side DSS keys in standby, a total of 127 user-defined DSS key mappings. The icon for each DSS key maps the current state of the phone line.

Evolved from Fanvil's X6 enterprise IP phones, X7&X7C pushes its high-end cost-effective enterprise IP phone to another level. X7&X7C inherits all enterprise features from Fanvil's X-Series enterprise phones, such as HD voice in handset, headset, and full-duplex speakerphone modes, PoE, Fast/Gigabit Ethernet, QoS, secure transmission, auto-provisioning, and more.

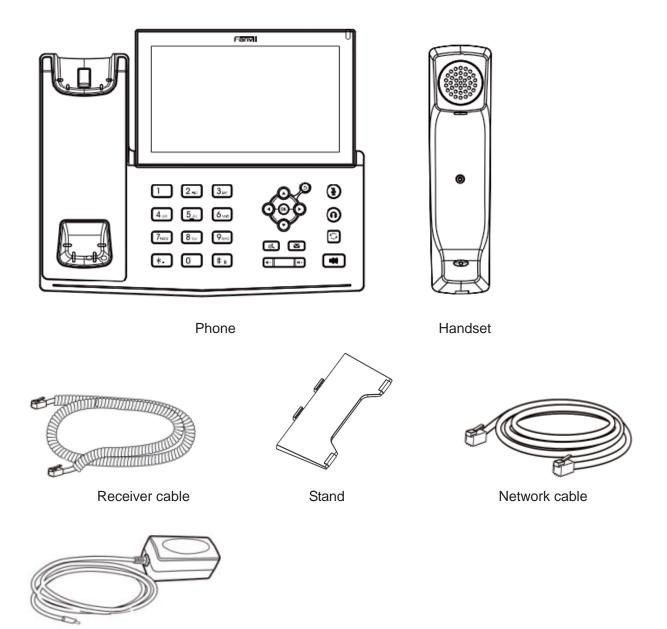
X7&X7C is a great office productivity appliance for enterprise users. The old DSS key label is inconvenient and not environmental friendly. X7&X7C's intelligent DSS Key-mapping LCD provides users the flexibility to change DSS key definition and display through easy configuration. Meanwhile, with its intelligent design of the DSS key/LCD, it can be multiplied as expansion modules to save space and cost. X7&X7C will provide the best user experience to advance enterprise users."

In order to help some users who are interested to read every detail of the product, this user manual is provided as a user's reference guide. Still, the document might not be up to date with the newly release software, so please kindly download updated user manual from Fanvil website, or contact with Fanvil support if you have any question using X7&X7C.



4.2 Packing Contents

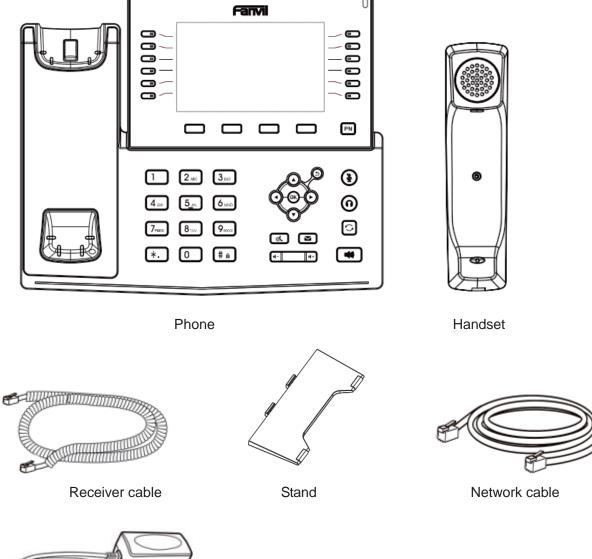
4.2.1 X7 Packing Contents



Power adapter (Optional)



4.2.2 X7C Packing Contents





Power adapter (Optional)



5 Install Guide

5.1 Use PoE or external Power Adapter

X7&X7C, 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.

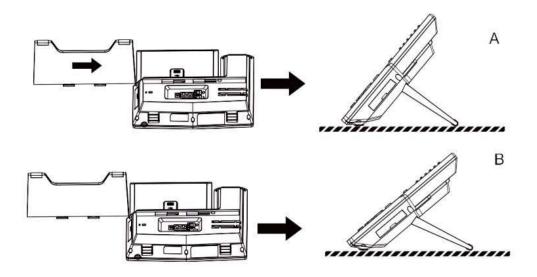
Please use the power adapter supplied by Fanvil and the PoE switch met the specifications to ensure the device work properly.



5.2 Desktop Installation

5.2.1 X7&X7C Desktop Installation

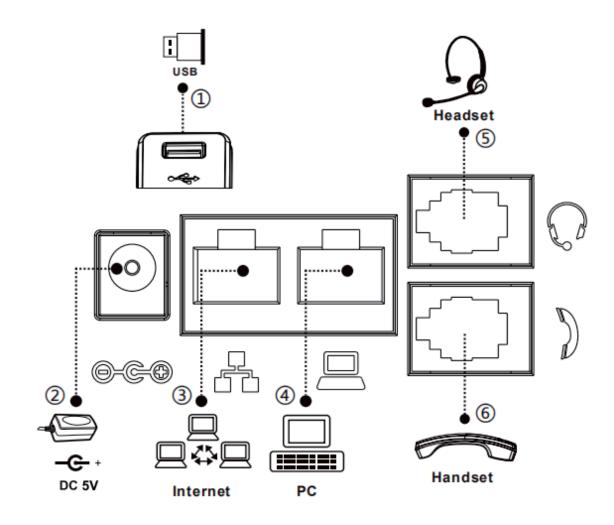
The device supports desktop use. If the phone is placed on the desktop, please follow the instructions in the picture below to install the phone.



Picture 1 - Desktop phone installation

Please connect power adapter, network, PC, handset, and headphone to the corresponding ports as described in below picture.





Picture 2 - Connecting to the Device



6 Appendix Table

6.1 Appendix I - Icon

C C	Redial
Ð	Return
14 30)	Hands-free (HF) speaker
Ł	Mute Microphone (During Call)
4-	Volume down
4+	Volume up
¢	Hold
0	Handset
Ŋ	MWI
PN	Page turning key (only supported by X7C)

Table 1 - Keypad Icons

Table 2 - Status Prompt and Notification Icons

>>>>	Call out
oj Ĵ	Call in
	Call Hold
μ	Network Disconnected
₩. M	Open VLAN
	Open VPN
<u>**</u>	Keypad Locked
2	Missed calls (only supported by X7C)
	SMS (only supported by X7C)
a	New voice message waiting (only supported by X7C)



	Do-Not-Disturb activated on Phone
	Do-Not-Disturb inactivated on Phone (only supported by X7C)
(-	Call forward activated
P _A	Auto-answering activated
	Hands-free (HF) Mode
D	Headphone (HP) Mode
2	Handset (HS) Mode
2	Mute Microphone
ail	The Voice quality of calling
£	The Voice encryption of calling
ô	Connecting WIFI
*	Open Bluetooth
(1)	Open SIP Hotline
•	Open DND
2	Missed calls
	Unread messages
0.0	Unread voice message
	USB overload prompt





Table 3 - DSSkey Icons

lcon	Translate	Instruction
G	BLF/NEW CALL	The new call
Q	BLF/BXFER	Blind transfer
e	BLF/AXFER	Attend transfer
	BLF/CONF	Conference
	BLF/DTMF	BLF/DTMF
•	Presence	Presence
•	MWI	Voice message
0	Speed Dial	Speed Dial
Θ	Intercom	Intercom
٩	Call Park	Call Park
G	Call forward	Call forward
0	Key Event	Function key
۲	URL/Action URL	Network function key
	BLF List	BLF List
	Multicast	Multicast



	Memory Key None	Memory Key subtype None
Ø	None	Undefined DSS function key
	Line	SIP Line
	DTMF	DTMF
÷	More (only supported by X7)	More
X	Hide (only supported by X7)	Hide

6.2 Appendix II - Keyboard character query table

Mode Icon	Text Mode	Key Button	Characters Of Each Press
123	Numeric	1	1
100		2	2
		3	3
		4	4
		5	5
		6	6
		7	7
		8	8
		9	9
		0	0
		*	*
		#	#
	Lower Case	1	@:;()<>
abc	Alphabets	2	abc
		3	def
		4	ghi

Table 4 - Look-up Table of Characters



5	jkl
6	m n o
7	pqrs
8	t u v
9	w x y z
Ο	(space) .,*/+-:_=
*	.,*/+-:_=
#	# ^!&\$%



	Upper Case	1	@:;()<>
ABC	Alphabets	2	ABC
		3	DEF
		4	GHI
		5	JKL
		6	MNO
		7	PQRS
		8	TUV
		9	
		0	WZYX
		<u> </u>	(space)
		*	.,*/+-:_=
		#	# ^!&\$%
2aB	Mixed type input	1	1
		2	2 a b c A B C
		3	3 d e f D E F
		4	4 g h I G H I
		5	5 j k I J K L
		6	6 m n o M N O
		7	7 p q r s P Q R S
		8	8 t u v T U V
		9	9 w z y x W Z Y X
		0	0
		*	.,*/+-:_=
		#	# ^!&\$%



6.3 Appendix III – LED Definition

Туре	X7 LED Icons	X7 LED State	X7C LED Light	X7C LED State
Line Key	6	Gray	Off	Line inactive
		Green On	Green On	Line ready (Registered)
		Green Blinking	Green Blinking	Ringing
		Red Blinking	Red Blinking	Line is trying to register
	8	Red Blinking	Red Blinking	Line error (Registration failure)
		Red On	Red On	Dialing/Line in use (Talking)
	2	Yellow Blinking	Yellow Blinking	Call holding
BLF	G	Green On	Green On	Subscription number is idle.
	••	Red On	Red On	Subscription number is busy.
	•	Red On	Red On	Subscription number is dialing.
	G	Gray	Off	Subscription number is unavailable.
Presence	Ω	Green On	Green On	Subscription number is idle.
	Ω	Red On	Red On	Subscription number is busy.
	Ω	Red On	Red On	Subscription number is dialing.
	0	Gray	Off	Subscription number is unavailable.
DND	0	Red On	Red On	Enable DND

Table 5 - DSS KEY LED State



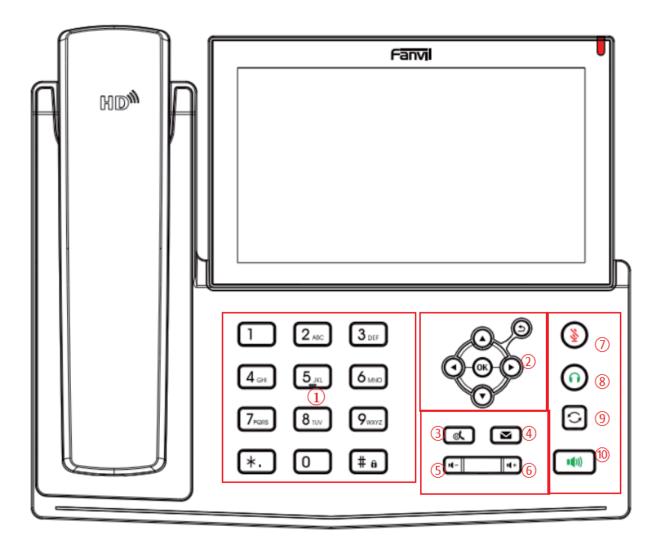
Туре	X7 LED Icons	X7 LED State	X7C LED Light	X7C LED State
	0	Gray	Off	Disable DND
MWI	0	Green Blinking	Green Blinking	New voice message waiting
	0	Gray	Off	No new voice message



7 Introduction to the User

7.1 Instruction of Keypad

7.1.1 Instruction of the X7 Keypad



Picture 3 - Instruction of Keypad

The above picture shows the keypad layout of the device. Each key provides its own specific function. User should refer to the illustration in this section about the usage of each key and the description in this document about each function.

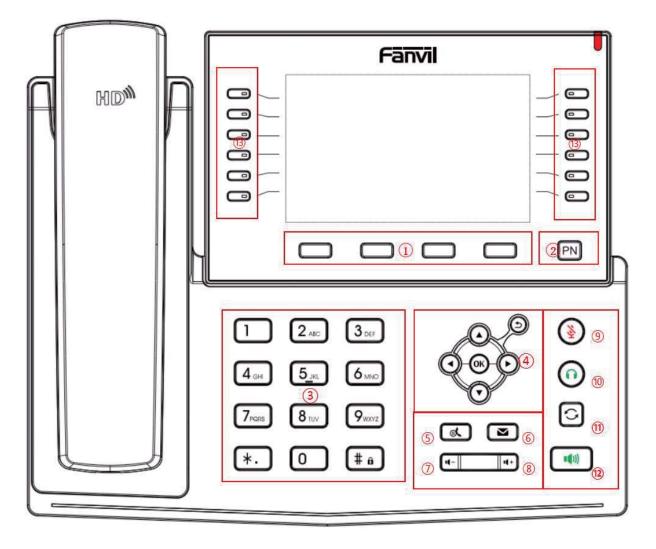
Number	The keypad	Instruction
	names	



(1)	DTMF Key	These 12 standard phone keys provide standard phone button
		functionality. At the same time, certain long key presses can be
		triggered to provide special functions.
		#- Long presses this key to open the keyboard lock
		configuration.
	Navigate/OK	The user can press the up/down navigation key to change the
	/Return Keys	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.
2		OK key: Default is equivalent to soft button confirmation, user
		can customize the function.
		Return key: it will return to the upper menu under any interface,
		and it can be used to reject or hang up when making a phone
		call or making a call.
	Hold Key	Press the "Hold" key during the call, the user can hold the call,
3	Tiold Rey	and press it again to cancel the holding and restore the normal
•		call state.
	Voice Mail	Press the "voice mail" button, and the user enters the interface
(4)		···· · · · · · · · · · · · · · · · · ·
Ū	Key	of SMS and voice mail list.
	Key Volume	of SMS and voice mail list. In the standby state, ring and ring configuration interface, press
5	-	
	Volume	In the standby state, ring and ring configuration interface, press
	Volume	In the standby state, ring and ring configuration interface, press this button to reduce the ring volume; Press this button to lower
	Volume Down Key	In the standby state, ring and ring configuration interface, press this button to reduce the ring volume; Press this button to lower the volume on the call or volume adjustment screen.
(5)	Volume Down Key Volume Up	In the standby state, ring and ring configuration interface, press this button to reduce the ring volume; Press this button to lower the volume on the call or volume adjustment screen. In the standby state, ring and ring configuration interface, press
(5) (6)	Volume Down Key Volume Up	In the standby state, ring and ring configuration interface, press this button to reduce the ring volume; Press this button to lower the volume on the call or volume adjustment screen. In the standby state, ring and ring configuration interface, press this button to increase the ring volume; Press this button to
(5)	Volume Down Key Volume Up Key	In the standby state, ring and ring configuration interface, press this button to reduce the ring volume; Press this button to lower the volume on the call or volume adjustment screen. In the standby state, ring and ring configuration interface, press this button to increase the ring volume; Press this button to increase the volume on the call or volume adjustment screen.
(5) (6)	Volume Down Key Volume Up Key	In the standby state, ring and ring configuration interface, press this button to reduce the ring volume; Press this button to lower the volume on the call or volume adjustment screen. In the standby state, ring and ring configuration interface, press this button to increase the ring volume; Press this button to increase the volume on the call or volume adjustment screen. During a call, the user can press this key to mute the
(5) (6) (7)	Volume Down Key Volume Up Key Mute Key Headset Key	In the standby state, ring and ring configuration interface, press this button to reduce the ring volume; Press this button to lower the volume on the call or volume adjustment screen. In the standby state, ring and ring configuration interface, press this button to increase the ring volume; Press this button to increase the volume on the call or volume adjustment screen. During a call, the user can press this key to mute the microphone.
(5) (6) (7)	Volume Down Key Volume Up Key Mute Key	In the standby state, ring and ring configuration interface, press this button to reduce the ring volume; Press this button to lower the volume on the call or volume adjustment screen. In the standby state, ring and ring configuration interface, press this button to increase the ring volume; Press this button to increase the volume on the call or volume adjustment screen. During a call, the user can press this key to mute the microphone.
 (5) (6) (7) (8) 	Volume Down Key Volume Up Key Mute Key Headset Key	In the standby state, ring and ring configuration interface, press this button to reduce the ring volume; Press this button to lower the volume on the call or volume adjustment screen. In the standby state, ring and ring configuration interface, press this button to increase the ring volume; Press this button to increase the volume on the call or volume adjustment screen. During a call, the user can press this key to mute the microphone. Users can press this key to open the headset channel



7.1.2 Instruction of the X7C Keypad



Picture 4 - Instruction of Keypad

Table 7 - Instruction of Keypad

Number	The keypad	Instruction
	names	
	Function	These four keys provide the corresponding menu function on
(1)	Menu Key	the screen.
	Page Switch	Press the "page switch" key, the user can switch to the first,
② Key		second and third screen function key page.
(3)	DTMF Key	These 12 standard phone keys provide standard phone button
		functionality. At the same time, certain long key presses can be
		triggered to provide special functions.
		#- Long presses this key to open the keyboard lock
		configuration.



	Navigate/OK	The user can press the up/down navigation key to change the
(4)	/Return Keys	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.
9		OK key: Default is equivalent to soft button confirmation, user
		can customize the function.
		Return key: it will return to the upper menu under any interface,
		and it can be used to reject or hang up when making a phone
		call or making a call.
	Hold Key	Press the "Hold" key during the call, the user can hold the call,
(5)		and press it again to cancel the holding and restore the normal
		call state.
6	Voice Mail	Press the "voice mail" button, and the user enters the interface
0	Key	of SMS and voice mail list.
	Volume	In the standby state, ring and ring configuration interface, press
\overline{O}	Down Key	this button to reduce the ring volume; Press this button to lower
		the volume on the call or volume adjustment screen.
	Volume Up	In the standby state, ring and ring configuration interface, press
8	Key	this button to increase the ring volume; Press this button to
		increase the volume on the call or volume adjustment screen.
9	Mute Key	During a call, the user can press this key to mute the
		microphone.
10	Headset Key	Users can press this key to open the headset channel
1	Redial Key	Press the Redial key to redial the last number dialed
12	Hands-free	The user can press this key to open the audio channel of the
	Key	speakerphone.
13	DSS	Long press the DSS shortcut key to enter the setting interface
	Shortcut Key	and set the required functions

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.

Using Line Keys(Defined by DSS Key)

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



7.3 Idle Screen

Picture 5 - X7 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.

The following is the default standby interface of X7C. Unlike X7, X7C displays the current default page number of Side Key.



Picture 6 - X7C default home screen

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.

The following figure is the case that the X7 screen cannot be fully displayed. You can click the up or down icon in the next page to scroll to see other items or text content.



Dial Peer	Account		09:32
Network	1. Fanvil	Registered	~
Phone	2. SIP2	Unapplied	1
Account	3. SIP3	Unapplied	
TR069	4. SIP4	Unapplied	1/4
	5. SIP5	Unapplied	
	6. SIP6	Unapplied	~
Return			

Picture 7 - 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 (registered / 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:



Fanvil	Network	09:35
Network	1. Vlan Id	None
Phone	2. Mode	DHCP/IPv4
Account	3. IPv4	172.16.7.167
TR069		
Return		

Picture 8 - 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:

w			·			
	Information Acco	ount Configurations	Upgrade	Auto Provision	Tools	Reboot
vstem						
work	System Information 😮					
work	Model:	X7				
	Hardware:	V1.0				
8	Software:	1.0.2				
	Uptime:	00:06	: 47			
ne settings	MEMInfo:	ROM: 2	1.4/ 128(M) RAM	: 51.3/94(M)		
rebook	Network 📀					
	WAN					
ogs	Network mode:	DHCP				
	MAC:	00:a8:5	9:00:11:34			
ion Key	IPv4					
	IP:	172.16	7.167			
cation	Subnet mask:	255.25	.255.0			
	Default gateway:	172.16.	7.1			
rity	VQ status 🕜					
	Start time:		Stop time:			
e Log	Local user:		Remote us	er:		
	Local IP:		Remote IP			
	Local Port:		Remote po	rt:		
	Local codec:		Remote co	dec:		
	Jitter:		JitterBuffe	Max:		
	Packets lost:		NetworkPa	cketLossRate:		
	MOS-LQ:		MOS-CQ:			
	RoundTripDelay:		EndSystem	Delay:		
	SymmOneWayDelay:		JitterBuffe	Rate:		
	SIP Accounts 💡					
	Line 1	6554@172.16.1.2:5060	Registered			
	Line 2	N/A	Inactive			

Picture 9 - 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 🔻
	Logon

Picture 10 - 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 configuration</u>.

7.6 Network Configurations

The device supports two kinds of network connection modes: wired network connection and wireless network connection. This section describes the wired network connection. For wireless network connection, refer to <u>10.5 wi-fi.</u>

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

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

The default password for advanced Settings is "123".

NOTICE! If user saw a 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, IPv4/IPv6/IPv4&IPv6

There are three common IP configuration modes about IPv4

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

The device is default configured in DHCP mode.

There are three common IP configuration modes about IPv6

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

Please see 10.7.2.1 network Settings for detailed configuration and use.

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] >> [Advanced Settings] >> [Accounts] >> [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)

Fanvil	Basic		C	09:44	
Accounts	1. SIP	SIP1	•	~	
Network	2. Registration	Enabled	\bigcirc	1	
Security	3. Server Address 172.16.1.2				
Maintenance	4. Auth. User	4. Auth. User			
	5. Auth. Password	5. Auth. Password			
	6. SIP User	6554			
Return	Left	Right	ОК		

The parameters and screens are listed in below pictures.

Picture 11 - Phone line SIP address and account information

Fanvil	Basic			09 : 45		
Accounts	7. Display Name	Fanvil		~		
Network	8. Server Port	5060		1		
Security	9. Proxy Address					
Maintenance	10.Proxy User			2/2		
	11. Proxy Password					
	12. Proxy Port	5060				
Return	Abc	Delete	OK			

Picture 12 - Phone display name and port

• WEB interface : After logging into the phone page, enter [Line] >> [SIP] and select SIP1/SIP2/SIP3/.../SIP18/SIP19/SIP20 for configuration, click apply to complete registration



	SIP SIP	Hotspot	Dial Plan	Acti	ion Plan	Basic Settings	RTCP-XR	
System								
Network	Line Fanvil@SIF	•						
n anna a fairte ann an	Register Settings >>							
Line	Line Status:	Regist	ered		Activa	te:		
	Username:	6554		0		ntication User:		
Phone settings	Display name:	Fanvil		0	Authe	ntication Password:		
	Realm:			0	Serve	r Name:	-	
Phonebook								
	SIP Server 1:				CID C	erver 2:		
Call logs								
Con rogo	Server Address:	172.16	.1.2	0		r Address:		
Function Key	Server Port:	5060		0		r Port:	5060	
Function Key	Transport Protocol:		▼ 0	~		oort Protocol:	UDP 🔻 🕜	
	Registration Expirat	ion: 3600	second(s)	0	Regist	ration Expiration:	3600	second
Application	Proxy Server Addres			0	Dealer	p Proxy Server Address		
				-		•		
Security	Proxy Server Port: Proxy User:	5060		0	Васки	p Proxy Server Port:	5060	
	Proxy User: Proxy Password:			0				
Device Log	Proxy Password:			•				
	Basic Settings >>							
	Codecs Settings >> 😗							
	Video Codecs >>							
	Advanced Settings >>							

after configuration, as shown below:

Picture 13 - 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] >> [Basic] >> [General] >> [Default Line] or configure from Web Interface (Web / PHONE / Features / Basic Settings).



Picture 14 - 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</u> <u>contacts</u>)
- Selecting a phone number from cloud phonebook contacts (Refer to <u>10.2.3</u> <u>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 15 - 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.



Picture 16 - 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 17 - Call number

8.2 Answering Calls

When the phone is idle and there is a call, the user will see the call reminder screen below.



Picture 18 - 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 19 - Talking interface

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

Table 8 - Talking mode



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 20 - 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.



Fanvil					10 : 16
Fanvil@SIP1	2/2			HD	O Voice Mail
SIP2		6544	Line 1	~	O Headset
SIP3		6544			\bigcirc
SIP4		210	Line 1	1/1	
		210	00:17		
SIP5				*	
SIP6					📫 More
		<u>e</u> r	*	~	
	Hold	Xfer Cor	nference	End	

Picture 21 - Two way calling

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

Ending One Call

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

8.3 End of the Call

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

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

33



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.

Fanvil							
	Features	Media Settings	MCAST	Action	Time/Date	Tone	Advanced
> System							
> Network	Basic Settings > Tone Settings >						
› Line	DND Settings >	>					
> Phone settings	Intercom Settin						
> Phonebook	Redial Settings Redial Enter						
> Call logs	Response Code Password Dial S						
› Function Key	Power LED >>						
> Application	DssKey LED Set	ting >>					
> Security	Notification Pop	oups >>		Apply			
> Device Log							

Picture 22 - Redial set

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 A indicates that auto answer is enabled.

Fanvil	Fanvil		11:28
Call Forward	1. Auto Answer	Enabled	<
Auto Answer	2. Auto Answer Delay	5	
Call Waiting			
Hot Line			
Basic			
Advanced			
Return	Left	Right	ок

Picture 23 - Line 1 enables auto-answering



Picture 24 - 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.



Fanvil						
	SIP SIP HO	otspot	Dial Plan Action	Plan Basic Settings	RTCP-XR	
› System						
› Network	Line Fanvil@SIF • Register Settings >>					
> Line	Basic Settings >>					
› Phone settings	Enable Auto Answering Call Forward Unconditional:	9: 🗹 🕜		Auto Answering Delay: Call Forward Number for Unconditional:		econd(s)] 🕜
> Phonebook	Call Forward on Busy: Call Forward on No Answer:	• •		Call Forward Number for Busy: Call Forward Number for No Answer:] 0] 0
› Call logs	Answer: Call Forward Delay for Answer:	No 5	(0~120)second(s) 🥝	Transfer Timeout:	0 second(s)	0
> Function Key	Conference Type:	Local 🔻] 🕜	Server Conference Number:		0
> Application	Subscribe For Voice Message: Voice Message Subscri Period:	🔲 🍘	(60~65535)second(s)	Voice Message Number: Enable Hotline:	. 0	0
> Security	Hotline Delay: Dial Without Registere	0 d: 🔲 🕜	(0~9)second(s) 📀	Hotline Number: Enable Missed Call Log:	 ✓ Ø 	0
> Device Log	DTMF Type: Request With Port: Use STUN:		v	DTMF SIP INFO Mode: Enable DND: Use VPN:	 Send 10/11 ▼ ② ② ② ② 	
	Enable Failback: Failback Interval:	I800	second(s) 🕜	Signal Failback: Signal Retry Counts:	3 (1~10) (

Picture 25 - Web page to start auto-answering

8.7 Call Back

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

 Set the callback key through the phone interface: Under standby, press [Menu] >> [Basic Settings] >> [Keyboard Settings] >> [Function key] or [Keyboard Settings] >> [Soft function key] choose to set up the function keys, key type, type selection function name select callback function, input the callback key name, press [OK] key to save.

Fanvil	Dsskey		11 : 34
UI Prefernece	1. Side Dsskey	1-1	0
Ring & Tone	2. Type	Key Event	O
Keyboard	3. Key	Call Back	O
Bluetooth & WiFi	4. Name		
Reboot System			
Return	Left	Right	ОК



Picture 26 - Set the callback key on the phone

Set the callback key through the web interface:

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

	Func	tion Key	Si	de Key	EXT Key	Softkey		Advanced		
System										
Network	Side	Dsskey Sett	ings							
Line	Key	Type		Name	Value	Subtype	9	Line	PickUp Number	Icon Color
	F 1	Line	•			None	۳	Fanvil@SIP1 •		Default Green
Phone settings	F 2	Key Event	•			Call Back	۲	SIP2 V		Default Green
Filone sectings	F 3	Line	۲			None	۲	SIP3 V		Default Green
	F 4	Line	T			None	۲	SIP4 V		Default Green
Phonebook	F 5	Line	T			None	۳	SIP5 V		Default Green
	F 6	Line				None	۳	SIP6 V		Default Green
Call logs	F 7	Key Event	T			MWI	۲	AUTO 🔻		Default Green
	F 8	Key Event	•			Headset	٣	AUTO 🔻		Default Green
Function Key	F 9	None	٣			None	٣	AUTO 🔻		Default Green
	F 10	None	T			None	۲	AUTO 🔻		Default Green
Application	F 11	None	Y			None	٣	AUTO 🔻		Default Green 🔻
						Apply				

Picture 27 - Set the callback key on the web page

8.8 Mute

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

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

Mute the Call 8.8.1

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

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



Fanvil					11 : 41
Fanvil@SIP1	COH IN-				O Voice Mail
SIP2					O Headset
SIP3		\bigcirc			
SIP4		0			
SIP5			<u>&</u>		\bigcirc
SIP6					💠 More
		\$ ²		~	
	Hold	Xfer	Conference	End	

Picture 28 - Mute the call

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

8.8.2 **Ringing Mute**

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

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.

Fanvil		26 FEB TUE	5 11 43		11 多
SIP1					O Voice Mail
SIP2					O Headset
SIP3					\bigcirc
SIP4					
SIP5					
SIP6					+‡+ More
	R				
	CallLog	Contact	DND	Menu	

Picture 29 - Ringing mute

• Cancel ring tone mute: On the standby or incoming call screen, press the mute button again a volume up tcancel ring tone mute, no longer shows mute icon in



upper right corner after cancel The phone mute icon is off

8.9 Call Hold/Resume

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



Picture 30 - Call hold interface

8.10 DND

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

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

- X7C Phone interface : Default standby mode ,
 - 1) Press [**DND**] button to enter the DND setting interface, select line or phone to

enable DND, the icon will become red

2) Press [DND] button to enter the DND setting interface and disable DND, the

icon will be become blue





Picture 31 - X7C Enable DND

• X7 Phone interface : Default standby mode. Pressing the "do not disturb" status bar will prompt the "do not disturb" icon. The color of the icon will not change when pressed.



Picture 32 - X7 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] >> [Basic] >> [DND] button, Enter the [DND] editing interface.
- 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".



Fanvil	DND		11:57
Call Forward	1. DND Mode	Line	Ø
Auto Answer	2. DND Timer	Disabled	$\mathbf{\mathbf{O}}$
Call Waiting	3. Line	SIP1	•
Hot Line	4. State	Disabled	<
Basic			
Advanced			
Return	Left	Right	ок

Picture 33 - 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 range.

Fanvil	DND		11 : 59
Call Forward	1. DND Mode	Line	\mathbf{O}
Auto Answer	2. DND Timer	Enabled	\mathbf{O}
Call Waiting	3. DND Start Time	15 : 00	
Hot Line	4. DND End Time	17 : 30	
Basic	5. Line	SIP1	$\mathbf{\mathbf{o}}$
Advanced	6. State	Disabled	•
Return	Left	Right	ОК

Picture 34 - DND timer

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



Fanvil							
	Features	Media Settings	MCAST	Action	Time/Date	Tone	Advanced
> System							
> Network	Basic Settings >						
› Line	DND Settings >						
Phone settings	DND Option Enable DND DND Start T	Timer:	Phone v	•			
> Phonebook	DND End Ti		17 🔻 30	•			
› Call logs	Intercom Settin Redial Settings						
> Function Key	Response Code	Settings >>					
> Application	Password Dial S	Settings >>					
	Power LED >>						
> Security	DssKey LED Set	ting >>					
› Device Log	Notification Pop	oups >>		Apply]		

Picture 35 - 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.

Fanvil					
	SIP SIP Hots	pot Dial Plan Action	Plan Basic Settings	RTCP-XR	
› System					
> Network	Line Fanvil@SIF Register Settings >>				
> Line	Basic Settings >>				
› Phone settings	Enable Auto Answering: Call Forward Unconditional:	• •	Auto Answering Delay: Call Forward Number for Unconditional:	5 (0~120)sec	cond(s) 🕜
> Phonebook	Call Forward on Busy: Call Forward on No Answer:		Call Forward Number for Busy: Call Forward Number for No Answer:		0
› Call logs	Call Forward Delay for No Answer:	5 (0~120)second(s) 🕐	Transfer Timeout:	0 second(s)	0
> Function Key	Conference Type:	Local V	Server Conference Number:		0
> Application	Subscribe For Voice Message: Voice Message Subscribe Period:	3600 (60~65535)second(s)	Voice Message Number: Enable Hotline:		0
> Security	Hotline Delay: Dial Without Registered:	0 (0~9)second(s) 2	Hotline Number: Enable Missed Call Log:		0
> Device Log	DTMF Type:	AUTO V	DTMF SIP INFO Mode:	Send 10/11 V	
	Request With Port:	0	Enable DND:		
	Use STUN:	• •	Use VPN:		
	Enable Failback:		Signal Failback:	• •	
	Failback Interval:	1800 second(s) 🥝	Signal Retry Counts:	3 (1~10) 🕜	

Picture 36 - Line DND



8.11 Call Forward

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

There are three types,

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

Fanvil	Call Forward 12					
Call Forward	1. Fanvil		_			
Auto Answer	2. SIP2		~			
Call Waiting	3. SIP3		1/4			
Hot Line	4. SIP4	4. SIP4				
Basic	5. SIP5					
Advanced	6. SIP6		¥			
Return	Up	Down	ОК			

Picture 37 - Select the line to set up call forwarding

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



Fanvil	Fanvil		12:07				
Call Forward	1. Unconditional						
Auto Answer	2. Busy Forward						
Call Waiting	3. No Answer	3. No Answer					
Hot Line							
Basic							
Advanced							
Return	Up	Down	ОК				

Picture 38 - Select call forward type

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

Fanvil	Unconditional		12 : 09		
Call Forward	1. Unconditional	Enabled	O		
Auto Answer	2. Forward to	6544			
Call Waiting	3. On Code	*66			
Hot Line	4. Off Code	*67			
Basic					
Advanced					
Return	Left	Right	ОК		

Picture 39 – Enable the 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.



Fanvil				
	SIP SIP Hotsp	pot Dial Plan Actic	on Plan Basic Settings	RTCP-XR
› System				
› Network	Line Fanvil@SIF •			
> Line	Register Settings >> Basic Settings >>			
› Phone settings	Enable Auto Answering: Call Forward Unconditional:	 Ø 	Auto Answering Delay: Call Forward Number for Unconditional:	5 (0~120)second(s
> Phonebook	Call Forward on Busy: Call Forward on No Answer:	• •	Call Forward Number for Busy: Call Forward Number for No Answer:	v
› Call logs	Call Forward Delay for No Answer:	5 (0~120)second(s)	Transfer Timeout:	0second(s) 🥝
> Function Key	Conference Type:	Local 🔻 🕜	Server Conference Number:	
› Application	Subscribe For Voice Message: Voice Message Subscribe Period:	3600 (60~65535)second(Voice Message Number: s) Enable Hotline:	
> Security	Hotline Delay:	0 (0~9)second(s) @	Hotline Number:	
> Device Log	Dial Without Registered: DTMF Type: Request With Port: Use STUN:	 ↓ Ø ▲ UTO ▼ Ø ↓ Ø ↓ Ø 	Enable Missed Call Log: DTMF SIP INFO Mode: Enable DND: Use VPN:	 ✓ ✓ Send 10/11 ▼ ✓ ✓ ✓ ✓
	Enable Failback: Failback Interval:	 ✓ ② 1800 second(s) ② 	Signal Failback: Signal Retry Counts:	3 (1~10) 9

Picture 40 - Set call forward

8.12 Call Transfer

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

- Blind transfer: 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>.

8.12.1 Blind transfer

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



Fanvil	and the second se	12:22
SIP1	HD	O Voice Mail
SIP2		O Headset
SIP3	210 Line 1	\bigcirc
SIP4	210	
SIP5	Transferring	\bigcirc
SIP6		+ More
	End	

Picture 41 - Transfer interface

8.12.2 Semi-Attended transfer

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



Picture 42 - Semi-Attended transfer

8.12.3 Attended transfer

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



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



Picture 43 - Attended transfer

8.13 Call Waiting

• Enable call waiting: new calls can be accepted during a call.

• Disable call waiting: new calls will be automatically rejected and a busy tone will be prompted.

• Enable call waiting tone: when you receive a new call on the line, the tone will beep.

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

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



Fanvil	Call Waiting 15:5					
Call Forward	1. Call Waiting Sett	ings				
Auto Answer	2. On-Off Code	2. On-Off Code				
Call Waiting						
Hot Line						
Basic						
Advanced						
Return	Up	Down	ОК			

Picture 44 - Call waiting setting

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

Fanvil						
	Features Media Setting	gs MCAST	Action	Time/Date	Tone	Advanced
› System						
> Network	Basic Settings >> Enable Call Waiting:	?	E	nable Call Transfer:	I	
› Line	Semi-Attended Transfer: Enable Auto on Hook:	✓		inable 3-way Conference: Nuto HangUp Delay:	 ✓ Ø 3 (0~30)second(s 	a 🙆
Phone settings	Ring From Headset: Enable Silent Mode:	Disabled v		nable Auto Headset: Disable Mute for Ring:		,
> Phonebook	Enable Default Line:		E	nable Auto Switch Line:	e	
› Call logs	Default Ext Line: Default Ans Mode:	Fanvil@SIP1 V 😵		an Outgoing: Default Dial Mode:	Video Video	
> Function Key	Hide DTMF: Enable Restricted Incoming List:	Disabled V	E	nable CallLog: nable Allowed Incoming ist:	 Ø Ø 	

Picture 45 - Web call waiting setting



Fanvil	1944 - Marine Jacobier, 1947 -							
	Features	Media Settings	м	CAST	Action	Time/Date	Tone	Advanced
> System								
> Network	Basic Settings >>							
> Line	Tone Settings >> Enable Holding	Tone:			Enabl	e Call Waiting Tone:	I	
	Play Dialing D	TMF Tone:	• •		Play	Falking DTMF Tone:	I	
Phone settings	DND Settings >>							
> Phonebook	Intercom Setting							
› Call logs	Redial Settings >							
Function Key	Password Dial Se	ttings >>						
	Power LED >>							
Application	DssKey LED Settin	ng >>						
> Security	Notification Popu	ps >>			Apply	1		
> Device Log					Арріу	1		

Picture 46 - Web call waiting tone setting

8.14 Conference

8.14.1 Local Conference

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

	SIP	SIP Hotspot	Dial Plan	Action Plan	Basic Settings	RTCP-XR	
System							
Network	Line Fan	ril@SIF •					
	Register Setting	s >>					
Line	Basic Settings >	>					
	Enable Auto	Answering: 🔲 🕜		Auto Ar	nswering Delay:	5 (0~120)second(s)
Phone settings	Call Forward Uncondition			Call For Uncond	ward Number for		0
Phonebook	Call Forward				ward Number for		0
	Call Forward Answer:	on No 🔲 🕜			ward Number for		0
Call logs	Call Forward	Delay for No	(0~120)second		r Timeout:	0 s	econd(s) 🕜
	Answer: Conference	2		Server	Conference		
Function Key	conterence	Local		Numbe	r:		
Application	Subscribe Fo Message:	r Voice 👘 🕐		Voice M	lessage Number:		0
	Voice Messa Period:	ge Subscribe 3600	(60~65535)sec	cond(s) Enable	Hotline:	. 0	
Security	Hotline Dela	y: 0	(0~9)second(s)) 🕜 Hotline	Number:		0
	Dial Without	Registered: 📃 🕜		Enable	Missed Call Log:	?	
Device Log	DTMF Type:	AUTO	• 0	DTMF S	IP INFO Mode:	Send 10/11	v 🕜
	Request Wit	n Port: 📃 🕜		Enable	DND:		
	Use STUN:			Use VP	N:		



Picture 47 - Local conference setting

Two ways to create a local conference:

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

Fanvil					16 : 15	Fanvil					16 : 15	Fanvil				16 : 16
B Fanvit@SIP1	22			HC	Voice Mail	B Fanwil@SIP1					Voice Mail	G Famil@SIP1	<u>s</u>			🔘 Voice Mail
C SIP2				11	O Headset	3 SIP2					O Headset	SIP2	-		~	O Headset
C SIP3		654			0	SIP3					0	SIP3				0
C SIP4				161 141 //	0	SIP4					0	SIP4				0
C SIP5		0044			٢	SIP5					0	C SIP5				0
SIP6				4	💠 More	SIP6					-More	SIP6				
	0	et.		~			Very 1	Up		Close			0	4	-	
	Hold	Xter	Conference	End		→	OK	Op.	Down	Close	-	\rightarrow	Hold	Spli		

Picture 48 - Local conference (1)

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

Famil					11.45	Fanvil						16 : 15	Fanvil			16:16
· FanviljiSi	7				Voce Mail	8 Fanvil@SIP1	22				HD	O Voice Mail	G Famil@SIP	<u>88</u>		O Voice Mail
SIP2					O Headset	SIP2				ne 1	Ŧ	O Headset	SIP2			O Headset
C SP3	0				0	SIP3		654		11		0	SIP3	1		0
(1) 53P4					0	SIP4						0	SIP4			0
C SP5					0	© SIP5		004				٥	C SIP5			0
SP6					💠 More	SIP6					2	💠 More	SIP6):05	-More
	0	d ^e	1	•	1			6		-				0	4 ~	
	Returns	XTer	Conterence	End		\rightarrow	Hold	Xter	Conference	End	i —		→	Hold	Split End	

Picture 49 - Local conference (2)

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

8.14.2 Network Conference

Users need server support for network conference.

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



Fanvil						
	SIP SIP Hots	spot Dial Plan	Action Plan	Basic Settings	RTCP-XR	
› System						
> Network	Line Fanvil@SIF • Register Settings >>					
> Line	Basic Settings >>					
> Phone settings	Enable Auto Answering: Call Forward Unconditional:	• •	Call Fo	nswering Delay: 5 rward Number for 6 ditional:	5 (0~1	20)second(s) 💡
> Phonebook	Call Forward on Busy: Call Forward on No Answer:		Busy:	rward Number for		0
› Call logs	Call Forward Delay for N Answer:	0 5 (0~120)s	econd(s) 🕜 Transfe	er Timeout:) secor	nd(s) 🕜
Function Key	Conference Type:	Server 🔻 🕜	Server Numbe	Conference 1	1234	
> Application	Subscribe For Voice Message: Voice Message Subscribe Period:	☐ Ø 3600 (60~655)		Message Number:	. 0	0
› Security	Hotline Delay:		0110(0)	Number:		0
› Device Log	Dial Without Registered: DTMF Type: Request With Port: Use STUN:	AUTO v		SIP INFO Mode:	 ✓ Ø Send 10/11 ▼ Ø Ø Ø 	0
	Enable Failback: Failback Interval:	 ☑ 	Signal		0	D) 🕜

Picture 50 - 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.

8.15 Call Park

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

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

Phone interface: long press a function key to enter the function key Settings interface, or through the [Menu] >> [Basic Settings] >> [Keyboard] >> [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] >> [Function Key] page, select a DSSkey, set the function key type as memory key, the subtype as call park, and the value as the call park number of the server, and set the corresponding SIP line.

Fanvil	Dsskey		16 : 24
UI Prefernece	1. Side Dsskey	1-1	O
Ring & Tone	2. Туре	Memory Key	$\mathbf{\mathbf{O}}$
Keyboard	3. Line	Auto	Ø
Bluetooth & WiFi	4. Subtype	Call Park	Ø
Reboot System	5. Name		
	6. Tel		
Return	Left	Right	ОК

Picture 51 - Phone set call park

	Func	tion Key	Side	Key	EXT Key	Softkey		Advanced		
System										
Network	Side	Dsskey Setti	ngs							
Line	Key	Туре		Name	Value	Subtype		Line	PickUp Number	Icon Color
	F 1	Line	•			None	۳	AUTO 🔻		Default Green 🔻
Phone settings	F 2	Memory Key	•		1234	Call Park	۳	SIP2 V		Default Green 🔻
none settings	F 3	Line	•			None	۲	SIP3 V	Ì	Default Green 🔻
	F 4	Line	•			None	۲	SIP4 V		Default Green 🔻
Phonebook	F 5	Line	•			None	۳	SIP5 V)[Default Green 🔻
	F 6	Line	•			None	۳	SIP6 V		Default Green 🔻
Call logs	F 7	Key Event	•			MWI	۲	AUTO 🔻)[Default Green 🔻
	F 8	Key Event	•			Headset	۳	AUTO 🔻		Default Green 🔻
Function Key	F 9	None	•			None	۳	AUTO 🔻		Default Green 🔻
	F 10	None	•		ľ [None	۷	AUTO 🔻		Default Green 🔻
Application	F 11	None	•			None		AUTO 🔻		Default Green V

Picture 52 - WEB set call park

8.16 Pick Up

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

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



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

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

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

Fanvil	Dsskey		16 : 3′
UI Prefernece	1. Side Dsskey	1-1	
Ring & Tone	2. Туре	Memory Key	•
Keyboard	3. Line	SIP1	()
Bluetooth & WiFi	4. Subtype	BLF/New Call	1/2
Reboot System	5. Name		
	6. Tel	123	
Return	123	Delete	ок

Picture 53 - Phone pick up setting

	Funct	ion Key	Side	Key	EXT Key	Softkey	. Ì	Advanced		
			5100			- Soluto)				
System										
	Side I)sskey Settir	ans							
Network	Side i	JSSRey Setti	iys							
Line	Key	Type		Name	Value	Subtyp	e	Line	PickUp Number	Icon Color
	F 1	Line	•		lí r	None	٣	Fanvil@SIP1 •		Default Green
Phone settings	F 2	Memory Key	•		6543	BLF/NEW C	AI 🔻	Fanvil@SIP1 •	1234	Default Green
Filone sectings	F 3	Line	•			None	٣	SIP3 T		Default Green
12.94-1-1-0111-011	F 4	Line	•			None	Ŧ	SIP4 V		Default Green
Phonebook	F 5	Line	•			None	۳	SIP5 T		Default Green
	F 6	Line	•			None	۳	SIP6 T		Default Green
Call logs	F 7	Key Event	•			MWI	۳	AUTO 🔻		Default Green
	F 8	Key Event	•			Headset	۳	AUTO 🔻		Default Green
Function Key	F 9	None	v		Î	None	٣	AUTO 🔻		Default Green
	F 10	None	•		1 I	None	٣	AUTO 🔻		Default Green
		None	•			None		AUTO 🔻		Default Green



Picture 54 - WEB pick up setting

8.17 Anonymous Call

8.17.1 Anonymous Call

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

- You can see anonymity in the context of [Menu] >> [Advanced Settings] >> [Accounts] >> [Advanced].
- The default is none, which is off, and RFC3323 and RFC3325 are optional.
- Select any one to open the anonymous call.

Fanvil	Advanced		-	16 : 34
Accounts	1. SIP	SIP1	\Leftrightarrow	
Network	2. Domain Realm			
Security	3. Dial Without Regist	Disabled	\Leftrightarrow] 1/2
Maintenance	4. Anonymous	None	\Leftrightarrow	1/3
	5. DTMF Mode	AUTO	\Leftrightarrow	
	6. Use STUN	Disabled	\checkmark	
Return	Left	Right	ок	

Picture 55 - 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.

User Agent:		0	Specific Server Type:	COMMON V
SIP Version:	RFC3261 🔻 🕜		Anonymous Call Standard:	None 🔻 🕜
Local Port:	5060	0	Ring Type:	None RFC3323
Enable user=phone:			Use Tel Call:	RFC3325
Auto TCP:			Enable PRACK:	
Enable Rport:				

Picture 56 - Enable Anonymous web page call

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



Fanvil	All		10	6:40
All	🤨 anonymous	anonymous	26 Feb 16:39	~
In	🎽 6544	6544	26 Feb 16:38	
Out	C 6544	6544	26 Feb 16:38	440
Miss	੯ 6544	6544	26 Feb 16:13	1/10
Forward	੯ 6543	6543	26 Feb 16:13	
	C 6544	6544	26 Feb 15:54	*
Return	Option	Delete	Dial	

Picture 57 - Anonymous call log

8.17.2 Ban Anonymous Call

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

- In the phone [Menu] >> [Features]>> [Basic] >> [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.

Fanvil	Ban Anonymous Call		16 : 41
Call Forward	1. Line	SIP1	$\mathbf{\circ}$
Auto Answer	2. State	Disabled	
Call Waiting			
Hot Line			
Basic			
Advanced			
Return	Enter	Switch	ок

Picture 58 - 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.



	SIP SIP Hots	spot Dial Plan	Action Plan	Basic Settings	RTCP-XR	
System	Codecs Settings >> 💡					
Network	Video Codecs >>					
	Advanced Settings >>					
Line	Use Feature Code:	. 0				
	Enable DND:		Ø DND	Disabled:		_
Phone settings	Enable Call Forward Unconditional:			ble Call Forward Inditional:		
	Enable Call Forward on Busy:		🕜 Disal	ble Call Forward on Busy	:	_
Phonebook	Enable Call Forward on No Answer:		O Disal	ble Call Forward on No ver:		
Call logs	Enable Blocking Anonymous Call:		Disal Olisal Call:	ble Blocking Anonymous		_
	Call Waiting On Code:		🛛 🕜 🛛 Call	Waiting Off Code:		_
Function Key	Send Anonymous On Code:		Senc	I Anonymous Off Code:		_
Application	SIP Encryption:		RTP	Encryption(SRTP):	Disabled 🔻 🕜	
	Enable Session Timer:	. 0	Sess	ion Timeout:	0 secon	d(s
Security	Enable BLF List:	. 0	BLF	List Number:		
	Response Single Codec:		BLE	Server:		_

Picture 59 - Page Settings blocking anonymous call

8.18 Hotline

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

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

Fanvil	Hot Line		16:45	Fanvil	Fanvil		16 : 45
Call Forward	1. Fanvil		~	Call Forward	1. Hot Line	Enabled	Ø
Auto Answer	2. SIP2		*	Auto Answer	2. Number		
Call Waiting	3. SIP3		114	Call Waiting	3. Hot Line Delay	o	
Hot Line	4. SIP4		1/4	Hot Line			
Basic	5. SIP5		*	Basic			
Advanced	6. SIP6			Advanced			
Return	Up	Down	ок	Return	Left	Right	ок

Picture 60 - 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.

Fanvil				
	SIP SIP Hots	pot Dial Plan 4	Action Plan Basic Settings	RTCP-XR
> System				
› Network	Line Fanvil@SIF •			
> Line	Register Settings >> Basic Settings >>			
› Phone settings	Enable Auto Answering: Call Forward Unconditional:		Auto Answering Delay: Call Forward Number for Unconditional:	5 (0~120)second(s)
› Phonebook	Call Forward on Busy: Call Forward on No	• •	Call Forward Number for Busy: Call Forward Number for	v
> Call logs	Answer: Call Forward Delay for No Answer:	0 5 (0~120)second	No Answer: s) 🕐 Transfer Timeout:	0 second(s) 2
› Function Key	Conference Type:	Local V	Server Conference Number:	0
> Application	Subscribe For Voice Message:	• •	Voice Message Number:	
> Security	Voice Message Subscribe Period: Hotline Delay:	0 (60~65535)seco 0 (0~9)second(s)		0
> Device Log	Dial Without Registered: DTMF Type:		Enable Missed Call Log: DTME SIP INFO Mode:	✓ ② Send 10/11 ▼
	Request With Port: Use STUN:		Enable DND: Use VPN:	
	Enable Failback:	× 0	Signal Failback:	
	Failback Interval:	1800 second(s) 🔮	Signal Retry Counts:	3 (1~10)

Picture 61 - Hotline set up on webpage

8.19 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.



Fanvil						
	Features Media Settin	igs MCAST	Action	Time/Date	Tone	Advanced
› System						
> Network	Basic Settings >>					
* HELWOIK	Enable Call Waiting:			Enable Call Transfer:		
172	Semi-Attended Transfer:			Enable 3-way Conference:	?	
> Line	Enable Auto on Hook:			Auto HangUp Delay:	3 (0~30)secon	d(s) 🕜
> Phone settings	Ring From Headset:	Disabled 🔻 🕜		Enable Auto Headset:	. 0	
	Enable Silent Mode:			Disable Mute for Ring:	. 0	
› Phonebook	Enable Default Line:	✓		Enable Auto Switch Line:	I	
> Call logs	Default Ext Line:	Fanvil@SIP1 🔻 🕜		Ban Outgoing:		
	Default Ans Mode:	Video 🔻 🕜		Default Dial Mode:	Video 🔻 🕜	
> Function Key	Hide DTMF: Enable Restricted Incoming List:			Enable CallLog: Enable Allowed Incoming List:	✓ Ø✓ Ø	
> Application	Enable Restricted Outgoing List:			Enable Country Code:		
	Country Code:			Area Code:		
> Security	Enable Number Privacy:			Match Direction	From left to rig	iht 🔻
	Start Position:	0	0~38	Hide Digits:	0	0~38
> Device Log						
	Allow IP Call:			P2P IP Prefix:		
	Caller Name Priority:	LocalContact-NetContac	t-SIP DisplayName •	Emergency Call Number:	110	0
	Search path:	LDAP	v 📀	LDAP Search:	LDAP 1 🔻	

Picture 62 - 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 63 - Dial the emergency number



9 Advance Function

9.1 BLF (Busy Lamp Field)

9.1.1 Configure the BLF Functionality

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

Fanvil								
	Funct	ion Key	Side Key	EXT Key	Softkey	Advanced		
› System								
> Network	Side (osskey Setti	ngs					
> Line	Key	Туре	Name	Value	Subtype	Line	PickUp Number	Icon Color
	F 1	Memory Key	•	1234	BLF/NEW CAI V	Fanvil@SIP1 •		Default Green 🔻
> Phone settings	F 2	Memory Key	•	1234	BLF/BXFER •	Fanvil@SIP1 •		Default Green 🔻
. Those seconds	F 3	Memory Key	•	1234	BLF/AXFER •	Fanvil@SIP1 •		Default Green 🔻
a marine da ser	F 4	Memory Key	•	1234	BLF/CONF T	Fanvil@SIP1 •		Default Green 🔻
> Phonebook	F 5	Memory Key	•	1234	BLF/DTMF •	Fanvil@SIP1 •		Default Green 🔻
	F 6	Line	•		None 🔻	SIP6 T		Default Green 🔻
› Call logs	F 7	Key Event	•		MWI T	AUTO 🔻		Default Green 🔻
	F 8	Key Event	•		Headset v	AUTO 🔻		Default Green 🔻
Function Key	F 9	None	•		None 🔻	AUTO 🔻		Default Green 🔻
the second s	F 10	None	•		None 🔻	AUTO 🔻		Default Green 🔻
> Application	F 11	None	•		None v	AUTO 🔻		Default Green 🔻
› Security					Apply			

Picture 64 - Web page configuration BLF function key

Phone interface: long press a function key to enter the function key Settings interface, or go to the [Menu] >> [Basic Settings] >> [Keyboard]>> [Soft DSS Key Settings] to enter the function key [Soft 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.



Fanvil	Soft DSS Key Settings	3		17 : 11
UI Prefernece	1. Softkey	1-3	\bigcirc	
Ring & Tone	2. Type	Memory Key	\Diamond	
Keyboard	3. Line	SIP1	\diamond	
Bluetooth & WiFi	4. Subtype BLF/New Call		\diamond	1/2
Reboot System	5. Name			
	6. Tel	1234		
Return	123	Delete	ок	

Picture 65 - Phone configuration BLF function key

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



9.1.2 Use the BLF Function

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

BLF function:

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

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

2) Call the subscribed number.

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

3) Transfer calls/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.

When be subscription number telephone ringing, refer to <u>appendix III 6.3 BLF LED</u> will flash a red light at this time. At this point, press the BLF button to answer the incoming call from the subscribed number.

9.2 BLF List

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

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



Fanvil							
	SIP SIP Hot	spot	Dial Plan	Action Plan	Basic Settings	RTCP-XR]
	Video Codecs >>						
> System	Advanced Settings >>						
> Network	Use Feature Code:						
	Enable DND:		•	DND	Disabled:		
> Line	Enable Call Forward Unconditional:				le Call Forward		
	Enable Call Forward on			Disab	le Call Forward on Busy		
› Phone settings	Busy: Enable Call Forward on	10 1		Disab	le Call Forward on No		
	No Answer: Enable Blocking	15		Answ	er: le Blocking Anonymous		
> Phonebook	Anonymous Call:		•	Call:	to blocking Anonymous		
	Call Waiting On Code:			Call V	Vaiting Off Code:		
› Call logs	Send Anonymous On Code:			Send	Anonymous Off Code:		
	SIP Encryption:			PTD	ncryption(SRTP):	Disabled	• 0
Function Key	Enable Session Timer:				on Timeout:	Disabled	second(s
	Enable BLF List:				ist Number:	0	second(s,
Application	Response Single Codec:				erver:		
						6.0	
> Security	Keep Alive Type:	UDP	v 😗		Alive Interval:	30	second(s)
	Keep Authentication:			Block	ing Anonymous Call:		

Picture 66 - 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.

Fanvil					228			
	Function Key	Side Key	EXT Key	Softkey	Adv	anced		
› System								
> Network	Function Key Set		a New C 🔻	Dsskey Home	Page: None	•		
› Line	Page1 Pa	ge2 Page3 F	age4	Apply		Delete	Add New Page	
> Phone settings	Key Type DSS	Name	Value	Subtype	Line	Media	PickUp Number	Icon Color
> Phonebook	Key BLF List Key 1 DSS Key None	•			AUTO	DEFAULT DEFAULT	•	Default Green V
› Call logs	2 DSS Key None	•		None v	AUTO	DEFAULT	¥ .	Default Green 🔻
Function Key	DSS Key None 4	•		None 🔻	AUTO	▼ DEFAULT	•	Default Green 🔻
> Application	DSS Key None	•		None •	AUTO	DEFAULT	v]	Default Green 🔻

Picture 67 - BLF List number display

9.3 Record

The device supports recording during a call.



9.3.1 Local Record (USB flash disk)

Local recording is supported when USB flash drive is mounted.

When using local recording, it is necessary to start recording on the phone page [**Application**] >> [**Manage recording**], select the local type and set the voice coding. The webpage is as follows:

Enable Record:			
Record Type:	Local		
Voice Codec:	G729 T		
	Apply		
cording List			
In	dex	File Name	File Size
			Delete

Picture 68 - WEB local recording

Local recording steps:

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

View local recording:

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

Listen to the record:

- Enter [Menu] >> [Application] >> [USB].
- Enter [**USB**] to view the recording file.
- Select the recording file that you want to listen to, and click the "play"



button of Soft key to listen to the recording.

9.3.2 Server Record

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

Fanvil				
	Manage Recording			
> System				
> Network	Record Setting Enable Record:			
› Line	Record Type: Voice Codec:	Network G729		
› Phone settings	Server Address:	172.16.7.39	Server Port:	10000
> Phonebook	Recording List			
› Call logs	Inc	dex	File Name	File Size
› Function Key				Delete
> Application				
> Security				
> Device Log				

Picture 69 - Web server recording

Note: to be used with Fanvil recording software.

9.3.3 SIP INFO Record

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



Fanvil				
	Manage Recording			
› System				
> Network	Record Setting Enable Record:	Ø		
> Line	Record Type:	Sip Info Apply		
> Phone settings	Recording List			
› Phonebook	Index	File Na	ame File Siz	
› Call logs				Delete
› Function Key				
> Application				
› Security				
> Device Log				

Picture 70 - 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] >> [Basic] >> [Agent] to enter the agent page. The SIP server needs to be configured before the account can be configured.

Fanvil	Agent		17 : 31
Call Forward	1. Туре	Normal	\mathbf{O}
Auto Answer	2. Number		
Call Waiting	3. User		
Hot Line	4. Password		
Basic	5. Line	Line 1	•
Advanced	6. CallLog	Save All	\bigcirc
Return	Left	Right	Logon

Picture 71 - Configure the agent account in normal mode



Fanvil	Agent		17:34
Call Forward	1. Type	Hotel Guest	\mathbf{O}
Auto Answer	2. Number		
Call Waiting	3. Password		
Hot Line	4. Line	Line 1	
Basic	5. CallLog	Save All	
Advanced	6. Status	Logon	
Return	123	Delete	Logon

Picture 72 - Configure the proxy account-hotel Guest 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.
Statua	The user can select the status of the number, the optional
Status	status is: login, logout, invalid, valid, SMS.

Table 10 - Agency mode

Using agent functions:

- 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.



Fanvil	Agent		17 : 36
Call Forward	1. Туре	Normal	
Auto Answer	2. Number	6554	
Call Waiting	3. State	Logon	
Hot Line	4. CallLog	Save All	\bigcirc
Basic			
Advanced	-		
Return	Î	Unregister	Logoff

Picture 73 - Agent logon page

9.5 Intercom

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

 ② Enable Intercom Mute: □ ② Enable Intercom Barge: ☑
📀 Enable Intercom Barge: 🗹 📀

Picture 74 - Web Intercom configure

Parameter	Description
Enable Intercom	When intercom is enabled, the device will accept the incoming call request



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

Fanvil							
	Features	Media Settings	MCAST	Action	Time/Date	Tone	Advanced
› System							
> Network	MCAST Settings Priority:		1	Ŧ			
> Line	Enable Page Pr Index/Pr		Na	me		Host:port	
> Phone settings	1		776			239.1.1.1:1366	
> Phonebook	3 4						
> Call logs	5 6 7						
Function Key	8						
> Application	10		Apply		I		
> Security							
> Device Log							

Picture 75 - Multicast Settings Page

Table 12 - MCAST Parameters on Web

Parameters	Description
Normal Call Priority	Define the priority of the active call, 1 is the



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

Multicast:

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

9.7 SCA (Shared Call Appearance)

Users need the support of server end to use SCA function. You can refer to http://www.fanvil.com/Uploads/Temp/download/20180920/5ba38181e4e4b.pdf

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

Fanvil				
	SIP SIP Hot	spot Dial Plan	Action Plan Basic Setting	IS RTCP-XR
› System				
> Network	Line Fanvil@SIF Register Settings >>	Created SCA ac	counte	name and password of ry account created
> Line	Line Status:	Registered	Activate:	e 0
	Username:	6554	Authentication User:	6554
Phone settings	Display name:	Fanvil	Authentication Passwo	rd: 🕜
> Phonebook	Realm: SIP Server 1:	Broadsoft Server	Server Name: address SIP Server 2:	
> Call logs	Server Address:	172.16.1.2	Ø Server Address:	0
› Function Key	Server Port: Transport Protocol:	5060 UDP v Ø	Server Port: Transport Protocol: Besistantias Enginetias	
> Application	Registration Expiration:	3600 second(s)	Registration Expiration	1: 3600 second(s) 🔮
	Proxy Server Address:		8 Backup Proxy Server A	Address:
> Security	Proxy Server Port:	5060	Backup Proxy Server F	Port: 5060 🕜
	Proxy User:		0	
› Device Log	Proxy Password:		0	



Picture 76 - 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.

Fanvil						
	SIP SIP Ho	tspot Dial Plan	Action Plan	Basic Settings	RTCP-XR]
› System	Enable Session Timer: Enable BLF List: Response Single Codec	• • • • • • • • • • • • • • • • • • •	BLF L	on Timeout: ist Number: erver:	0	second(s) 🕜
> Network	Keep Alive Type: Keep Authentication:		Кеер	Alive Interval: ing Anonymous Call:	30	second(s)
> Line				-		
› Phone settings	User Agent: SIP Version: Local Port:	RFC3261 V		fic Server Type: /mous Call Standard: Erros	BroadSoft RFC3323 V Default V	• 0] 0
> Phonebook	Enable user=phone: Auto TCP:		Use T	el Call: e PRACK:		
› Call logs	Enable Rport:					
› Function Key	DNS Mode: Enable Strict Proxy:	A v		e Long Contact: ert URI:	 Ø Ø 	
> Application	Use Quote in Display Name: Sync Clock Time:			e GRUU: e Use Inactive Hold:		
› Security	Caller ID Header:	PAI-RPID-F V		82 Response for Call		

Picture 77 - 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.

Fanvil						
	SIP SIP Hot	spot Dial Plan	Action Plan	Basic Settings	RTCP-XR]
› System	Enable Session Timer: Enable BLF List: Response Single Codec:			n Timeout: st Number:	0	second(s) 🕜
> Network	Keep Alive Type: Keep Authentication:		Keep A	alive Interval: ng Anonymous Call:	30	second(s)
 Line Phone settings 	User Agent: SIP Version:	RFC3261 V		c Server Type: mous Call Standard:	BroadSoft RFC3323 V	0
> Phonebook	Local Port: Enable user=phone: Auto TCP:	5060	Ring T Use Te Enable		Default v	0
> Call logs	Enable Rport:					
› Function Key	DNS Mode: Enable Strict Proxy:	A v 🛛		Long Contact: rt URI:	???	
> Application	Use Quote in Display Name: Sync Clock Time:			GRUU: Use Inactive Hold:		
> Security	Caller ID Header: Enable Feature Sync:	PAI-RPID-F T	Use 18 waitin Enable	* 30	0	
> Device Log	CallPark Number: TLS Version: Enable Click To Talk:	TLS 1.0 ▼ 🥝	uaCST	Expire: A Number: Chgport:		



Picture 78 - Enable SCA

After an account is configured and successfully registered, you can configure lines whose DSS Key is Shared Call Appearance on the Function Key page to facilitate viewing the call status of the group. Each line key represents a call appearance. Understand the call status by referring to <u>6.3 Appendix III – LED</u>.

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.

	Fund	tion Key	Side Key	EXT Key	So	ftkey	Advanced		
> System									
Network	Side I	Dsskey Setti	ngs						
Line	Key	Туре	Na	me Valu	e Su	ubtype	Line	PickUp Number	Icon Color
	F 1	Line	•		None	•	Fanvil@SIP1 •		Default Green
> Phone settings	F 2	Key Event	•		Private	e Hold 🔻	AUTO 🔻		Default Green
Phone settings	F 3	Line	•		None	٣	SIP3 V		Default Green
	F 4	Line	•		None	٣	SIP4 V		Default Green
Phonebook	F 5	Line	•		None		SIP5 V		Default Green
	F 6	Line	•		None		SIP6 T		Default Green
> Call logs	F 7	Key Event	•		MWI	٣	AUTO 🔻		Default Green
	F 8	Key Event	•		Heads	set 🔻	AUTO 🔻		Default Green
> Function Key	F 9	None	•		None	•	AUTO 🔻		Default Green
	F 10	None	•		None	۲	AUTO 🔻		Default Green
Application	F 11	None	· •		None	٣	AUTO 🔻		Default Green
Security					Арр	oly			

Picture 79 - 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) LED Status

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

State & Direction	X7 Local	X7 Remote	X7C Local	X7C Remote	
State & Direction	Icons	lcons	Light	Light	
Idle	Gray	Gray	Off	Off	
Seized	Green On	Red On	Steady green	Steady red	
Progressing	Green On	Red On	Stoody groop	Oto o du ro d	
(outgoing call)	Green On	Red On	Steady green	Steady red	
Alerting (incoming	Green	Green	Fast blinking	Fast blinking	
call)	Blinking	Blinking	green	green	

Table 13 - LED Status of SCA



Active	Green On	Red On	Steady green	Steady red	
Public Held (hold)	Green	Red Blinking	Slow blinking	Slow blinking	
	Blinking	Red Blinking	green	red	
Held-private	Yellow	Red On	Slow blinking		
(private hold)	Blinking	Red On	yellow	Steady red	
Bridge-active	Green On	Red On	Stoody groop	Stoody rod	
(Barge-in)	Green On	Red Off	Steady green	Steady red	
Bridge-held	Green On	Red On	Steady green	Steady red	

3) Shared Call Appearance(SCA)

The following lists a couple of instances to facilitate understanding.

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

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

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

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

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

9.8 Message

9.8.1 SMS

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



Fanvil		26 FEB TUE 18 55					
SIP1					O Voice Mail		
O Private Hold				1/1	O Headset		
SIP3							
SIP4		2 Missed N					
SIP5	C	ancel	OK		\bigcirc		
SIP6					+ More		
			DND				
	CallLog	Contact	DND	Menu			

Picture 80 - 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:

X7C:

- 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.

X7C/X7:

- Select [Message] >> [Menu]
- Enter [SMS] >> [Message] and enter the interface of SMS inbox
- Select the unread message and press [OK] to read the unread message

Reply to SMS:

X7C:

- 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 [**Reply**], edit it, and click Send.

X7C/X7:

- Select [Menu] >> [Message]
- Enter [Message] >> [SMS] and enter the SMS inbox interface
- Select the message you want to reply to, select Softkey [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.

Fanvil		26 FEB TU	E 18:59		۲ مە
SIP1					O Voice Mail
O Private Hold				1/1	O Headset
SIP3			- A. 10 - 2002	1/1	
SIP4		11 Missed Voi	ce Message(s)		
SIP5		Cancel	ОК		\bigcirc
SIP6					+ More
	2				
	CallLog	Contact	DND	Menu	

Picture 81 - New Voice Message Notification

Voice message icon

00

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, "11" in front of Fanvil line brackets represents unread voice messages, and "11" represents the total number of voice messages.



Fanvil	Voice Message		19 : 02
Voice Message	1. Fanvil (11/11)		
SMS	2. SIP2 (0/0)		T
	3. SIP3 (0/0)		
	4. SIP4 (0/0)		1/4
	5. SIP5 (0/0)		л
	6. SIP6 (0/0)		*
Return	Edit	Play	

Picture 82 - Voice message interface

Fanvil	Fanvil		19 : 03
Voice Message	1. Voice Mail	Enabled	$\mathbf{\mathbf{o}}$
SMS	2. Number	*97	
Return	Left	Right	ОК

Picture 83 - 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.



Fanvil						
	SIP SIP Hots	spot Dial Plan	Action Plan	Basic Settings	RTCP-XR	
› System						
› Network	Line Fanvil@SIF •					
	Register Settings >>					
> Line	Line Status:	Registered	Activa	te:		
	Username:	902	Auther	ntication User:	902	0
> Phone settings	Display name:	Fanvil	Auther	ntication Password:		0
	Realm:		Server	Name:		0
> Phonebook						
	SIP Server 1:		SIP S	erver 2:		
> Call logs	Server Address:	172.16.1.4	Server	Address:		0
	Server Port:	5060	Server	Port:	5060	
Function Key	Transport Protocol:	UDP V		ort Protocol:	UDP V	
	Registration Expiration:	3600 second(s)		ration Expiration:	3600	second(s) 🕜
> Application						1
	Proxy Server Address:		Backu	p Proxy Server Address:	:	0
> Security	Proxy Server Port:	5060	Backu	p Proxy Server Port:	5060	0
	Proxy User:		0			
> Device Log	Proxy Password:		0			
	Basic Settings >>					
	Codecs Settings >> 🕜					
	Video Codecs >>					
	Advanced Settings >>					
	SIP Global Settings >>	Apply				

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

Picture 84 - Register SIP account

Table	14 -	SIP	<i>hotspot</i>	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.
	Choose hotspot, phone will be a "SIP hotspot
Mode	server"; Choose Client, phone will be a "SIP
	hotspot Client"
	Either the Multicast or Broadcast is ok. If you
Monitor Turo	want to limit the broadcast packets, you'd better
Monitor Type	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:

	SIP SIP Hotspot	Dial Plan Action Plan	Basic Settings	RTCP-XR	
System					
	Client Table				
Network	IP	MAC		Alias	Line
Line	172.16.7.181	0c:38:3e:23:b5:9f		1	1
	SIP Hotspot Settings				
Phone settings	Enable Hotspot:	Enabled V			0
	Mode:	Hotspot •			0
Phonebook	Monitor Type:	Broadcast 🔻			0
	Monitor Address:	224.0.2.0			0
Call logs	Local Port:	16360			0
	Name:	SIP Hotspot			0
Function Key	Line Settings				
	Line 1:	Enabled V			
Application	Line 2:	Enabled V			
	Line 3:	Enabled V			
Security	Line 4:	Enabled V			
	Line 5:	Enabled V			
Device Log	Line 6:	Enabled V			

Picture 85 - 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.

	SIP	P Hotspot Dial Pla	an Action Plan	Basic Settings	RTCP-XR	
System						
	Hotspot Table					
Network	IP	Server name	Online Status	Connection Status	Alias Line	
> Line	172.16.7.167	SIP Hotspot	OnLine	Connected	1 0	Disconr
Line	SIP Hotspot Settings					
Phone settings	Enable Hotspot:	Enab	led 🔻			0
	Mode:	Clien	t 🔻			0
Phonebook	Monitor Type:	Broa	dcast 🔻			0
	Monitor Address:	224.0	2.0			0
Call logs	Local Port:	16360				0
	Name:	SIP H	otspot			0
Function Key	Line Settings					
	Line 1:	Enal	oled V			
Application	Line 2:	Enal	oled V			
	Line 3:	Enal	oled v			
Security	Line 4:	Enal	oled v			
	Line 5:	Enat	oled V			
Device Log	Line 6:	Enat	oled v			

Picture 86 - 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] >> [UI Preference] >> [Language] Settings, as shown in the figure.

Fanvil	UI Prefernece		19 : 19
UI Prefernece	1. Language		
Ring & Tone	2. Time & Date		
Keyboard	3. Screen		
Bluetooth & WiFi	4. Greeting Words		
Reboot System			
Return	Up	Down	ок

Picture 87 - 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:

Fanvil							English English 中文
	Information Account	Configurations	Auto Provision	Tools	Reboot Phone		繁體中交 Pyccxii Italiano Deutsch
9 System						NOTE	Français אברית Español
Network	Syslog Enable Syslog:					Description: Some tools to help	Català Euskera Galego
Line	Server Address: Server Port:	0000 514			0	administrators or technicians to analyze issues.	Türkçe Slovenian Česká Nederlanda
> Phone settings	APP Log Level: Export Log:	Information •			0	A AND SUCCES	한국어 Yipaliicuta

Picture 88 - 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] >> [UI Preference] >> [Time & Date], use the up/down navigation button to
 edit parameters, press the [OK] to save after completion, as shown in the figure:

Fanvil	Time & Date		19 : 22
UI Prefernece	1. Mode	SNTP	\mathbf{O}
Ring & Tone	2. SNTP Server	0.pool.ntp.org	
Keyboard	3. Time Zone	(UTC+8) Beijing, Si	ingapore, <
Bluetooth & WiFi	4. Format	DD MMM WW	\bigcirc
Reboot System	5. 12 Hours Clock	Disabled	\bigcirc
	6. Daylight Saving Ti	me Disabled	\mathbf{o}
Return	Left	Right	ОК

Picture 89 - Set time & date on phone

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

	Features	Media Settings	MCAST	Action	Time/Date	Tone	Advanced
System							
	Network Time	Server Settings					
Network	Time Sync	hronized via SNTP	•				
91	Time Sync	hronized via DHCP					
ine	Time Sync	hronized via DHCPv6					
	Primary Ti	me Server	0.pool.ntp.org				
Phone settings	Secondary	Time Server	time.nist.gov				
22	Time zone		(UTC+8) Beijing,Si	ngapore,Perth,Irku	5 🔻		
Phonebook	Resync Per	riod	60	second(s)		
N N N N N N N N N N N N N N N N N N N	Time/Date For	rmat					
Call logs	12-hour cl						
Function Key	Time/Date		DD MMM WW	▼ 26 FEB	TUE		
pplication							
	Daylight Savin	g Time Settings					
ecurity	Location		None	*			
	DST Set T	/pe	Disabled	•			
Device Log			Apply				
			14994				
	Manual Time S	Settings					

Picture 90 - Set time & date on webpage



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
	VYYY-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

Table 15 - Time Settings Parameters

10.1.3 Screen

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

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



Fanvil	Screen Setting		19 : 26
UI Prefernece	1. ght Active Level	12	\mathbf{O}
Ring & Tone	2. Backlight Inactive L	[4	
Keyboard	3. Backlight Time	45	\Diamond
Bluetooth & WiFi	4. Screensaver	Disabled	•
Reboot System			
Return	Left	Right	ОК

Picture 91 - Set screen parameters on phone

• Web end: 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:	45	(0~120)second(s)	
Screensaver	Enabled	T	
Timeout to Screensaver:	5	(0~120)second(s)	

Picture 92 - 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:



Picture 93 - 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 [**Ring & Tone**] item till you find [**Ring**] item.
- Enter [**Ring**] item and you will find [**Headset**] or [**Hands-free**] 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 [Ring & Tone] item till you find [Voice Volume] item.
- Enter [Voice Volume] item and you will find [Headset], [Hands-free] and [Headset] item.
- Enter [Headset] or [Hands-free] 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 [**UI Preference**] 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 System] 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.

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



Fanvil	Local Contacts			
Local Contacts	1. All Contacts (52)			
Black & White	2. GM (9)		*	
Cloud Contacts	3. PM (10)			
LDAP	4. QA (10)			
Broadsoft Phone	5. QC (10)			
	6. VP (1)			
Return	Search	Add Group	ок	

Picture 94 - Phone book screen

NOTICE! The device can save up to total 2000 contact records.

Fanvil		All Co	ntacts			10 : 19
All Contacts			1	4380	ſ	~
GM	*	0	10	43800	0@2	•
PM		0	11	8231		
QA	1/2	0	12	8232		1/9
QC		0	13	8233		
VP	*	0	14	8234		*
Return			Option	Add	Dial	

Picture 95 - 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

Fanvil	Add Contacts		10 : 21
Local Contacts	1. Name		
Black & White	2. Office Number		
Cloud Contacts	3. Mobile		1/2
LDAP	4. Other Number		1/2
Broadsoft Phone	5. Line	Auto	
	6. Ring type	Default	
Return	Abc	Delete	ОК

Picture 96 - 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.



Fanvil	Local Contacts				
Local Contacts	1. All Contacts (52)				
Black & White	2. GM (9)		*		
Cloud Contacts	3. PM (10)				
LDAP	4. QA (10)		1/2		
Broadsoft Phone	5. QC (10)				
	6. VP (1)		~		
Return	Option	Add Group	ок		

Picture 97 - Group List

10.2.1.3 Browse and Add / Remove Contacts in Group

Fanvil		QC		3	9 1	10:23
						10.20
All Contacts	~	-	30	8220		~
GM		0	31	8111		
PM	1/2	0	32	8112		1/2
QA	1/2	0	33	8113		1/2
QC		0	34	8114		
VP		0	35	8115		
Return			Option	Add	Dial	

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

Picture 98 - 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].



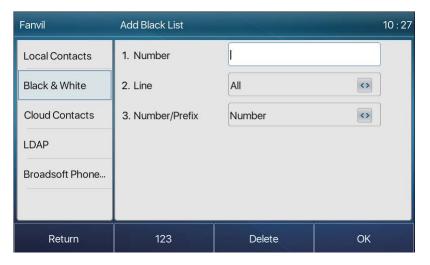
Fanvil	Add Contacts		10 : 21
Local Contacts	1. Name		*
Black & White	2. Office Number		
Cloud Contacts	3. Mobile		10
LDAP	4. Other Number		1/2
Broadsoft Phone	5. Line	Auto	
	6. Ring type	Default	
Return	Abc	Delete	ОК

Picture 99 - Add Contacts in a Group

10.2.2 Black list

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

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



Picture 100 - Add Blacklist

• There are various ways to add number to the blacklist on web page, which can be



added in the [Phone book] >> [Call list] >> [Restricted Incoming Calls].

 Select any number in the phone book (both local and network) for configuration addition.

tricted Incoming Calls				
		Add	Delete	Delete All
	Caller Number			line
	4321			ALL
	6543			ALL

• Select any number in the call log for configuration addition.

Picture 101 - Web Blacklist

10.2.3 Cloud Phone Book

10.2.3.1 Configure Cloud Phone book

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

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

Open cloud phonebook list, press [Menu] >> [PhoneBook] >> [Cloud Contacts] in phonebook screen.

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



Fanvil	Cloud Contacts		10 : 46
Local Contacts	1. Phonebook		
Black & White	2. Cloud		
Cloud Contacts			
LDAP			
Broadsoft Phone			
Return		Option	ОК

Picture 102 - 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.

Fanvil	Cloud Contacts		
Local Contacts	1. FAE-Group		
Black & White	2. PM-Group		*
Cloud Contacts	3. HW-Group		10
LDAP	4. MT-Group		1/9
Broadsoft Phone	5. Manage-Grou	р	
	6. 13		
Return	Search	Option	Dial

Picture 103 - Browsing Contacts in 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.

Fanvil	All		10:49
All	6654	6654	27 Feb 09:21
In	C 6654	6654	27 Feb 09:18
Out	C 6654	6654	26 Feb 21:19
Miss	੯ 6654	6654	1/14 26 Feb 21:17
Forward	C 6654	6654	26 Feb 21:17
	K 6654	6654	26 Feb 21:16
Return	Option	Delete	Dial

Picture 104 - CallLog

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.











Fanvil	Out		10 : 5
All	6544	6544	26 Feb 19:36
In	C 6544	6544	26 Feb 16:38
Out	C 6544	6544	26 Feb 15:54
Miss	C 6544	6544	1/5 26 Feb 15:53
Forward	C 6543	6543	26 Feb 15:20
	€ 6544	6544	26 Feb 15:16
Return	Option	Delete	Dial

Picture 105 - Filter call record types

10.4 Function Key

• X7C function key Settings:

X7C screen shows 12 shortcut keys in standby mode, each of which can be customized Side DSSkey. There are 5 pages in total, and 2 pages are displayed by default. Users can customize and configure each shortcut key on each page.

Users can add/delete DSSkey pages through the webpage, and can use the page switch key to switch DSSkey pages. In addition, users can also long press each shortcut key, modify the corresponding key Settings.

• X7 function key Settings:

The X7 screen shows 12 shortcut keys in standby mode, each of which can be customized with Side DSSkey (expansion key is not supported). After expansion, there will be 29 Function dsskeys, totaling 4 pages. Users can customize and configure each shortcut key in each page.

Users can add/delete DSSkey pages through the webpage, and can use the page switch key to switch DSSkey pages. In addition, users can also long press each shortcut key, modify the corresponding key Settings.

Line/DSS/BLF is supported on every page of the secondary screen. There are 3 pages in total. Users can customize and configure each DSS key on each page. 92



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

Fanvil	Basic		10 : 56				
Accounts	1. SIP	SIP3					
Network	2. Registration Disabled						
Security	3. Server Address						
Maintenance	4. Auth. User		1/2				
	5. Auth. Password						
	6. SIP User						
Return	Left	Right	ОК				

Picture 106 - DSS LCD key Page Configuration Screen

The DSS Key could be configured as followings,

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

Each DSS key can set the DSS Theme. The Settings of the phone interface and webpage interface are as follows:

Phone interface: log press the DSS key to enter the following.



Fanvil	Dsskey		10 : 58
UI Prefernece	1. Side Dsskey	1-9	<
Ring & Tone	2. Туре	None	
Keyboard			
Bluetooth & WiFi			
Reboot System			
Return	Left	Right	ОК

Picture 107 - DSS LCD Screen Configuration

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

	Sid	le Key	E	XT Key		Softkey	Advance	d				
System												
Network	Side I	Dsskey	Settings									
	ſ	Page1	Page2	Page3	Page4	Page5				Delet	Add Nev	/ Page
Line	Key		ype	Nan		Value	Subty	e	Line	Pic	kUp Number	Icon Color
i a Colorida	F 1	Line	•				None	٣	SIP1	•		Default Green
Phone settings	F 2	Line	•				None	۲	902@SIP2	•		Default Green Default Blue
Filone sectings	F 3	Line	•				None	٣	SIP3	•		Default Blue Default Yellow Default Red Default Purple Custom
	F 4	Line	•				None	٣	SIP4	•		
Phonebook	F 5	Line			1		None	٣	SIP5	•		
	F 6	Line					None	۳	SIP6	•		Default Green
Call logs	F 7	Key Ev	ent 🔻				MWI	٣	AUTO	•		Default Green
	F 8	Key Ev	ent 🔻				Headset	٣	AUTO	•		Default Green
Function Key	F 9	None	•				None	٣	AUTO	•		Default Green
	F 10	None	٣				None	۲	AUTO	•		Default Green
Application	F 11	None	٣				None	٣	AUTO	•		Default Green V
	F 12	None	٣				None	۷	AUTO	•		Default Green
Security							Apply	_				

Picture 108 - DSS settings

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

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

More detailed information *refers to* <u>12.23 Function Key</u> and <u>6.3 Appendix III - LED</u> <u>Definition</u>.



10.5 Wi-Fi

The device supports wireless Internet access and requires the use of a specified USB WIFI dongle.

When the device is in the default standby mode,

- Press soft-button [Menu] till you find the [Basic] item.
- Enter [Bluetooth & Wi-Fi] item till you find [WIFI] item.
- Press [WLAN] to enter the setting interface.
- Select the wireless network and use the left and right keys to activate it. Enable the device to search the current wireless network automatically.
- Select to the available network, enter the user name and password to connect successfully.

Tip: if no wireless USB dongle is inserted, the prompt "wireless adapter has been removed" will appear.

If a USB dongle is plugged in, the wireless network will be priority network even if the network cable is plugged in.

Fanvil	WLAN		11 : 32	Fanvil		27 FEB WED	11:30		ি
UI Prefernece	1. WLAN	Enabled	0	Fanvil@SIP1					O Voice Mail
Ring & Tone	2. WLAN Status	Connected		O Private Hold					O Headset
Keyboard	3, Known Network	1 Known Network		SIP3					
Bluetooth & WiFi	4. Available Network	9 Available Network(s)	SIP4					
Reboot System	4. Available Hetwork	o Available Metholik(s/	SIP5					0
Rebuot System				SIP6					💠 More
		Ť.			R				
Return		Scan	ОК		CallLog	Contact	DND	Menu	

Picture 109 - WIFI settings

10.6 Headset

10.6.1 Wired Headset

- The device supports wired earphone with RJ9 interface, which can play incoming call sound and talk with earphone.
- After the phone is connected to the headset, the default DSS key of headset will be green light which indicating that the headset can be used normally.



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

	Features Media Settir	ngs MCAST Ac	tion Time/Date	Tone Advance
System				
	Basic Settings >>			
Network	Enable Call Waiting:		Enable Call Transfer:	
14	Semi-Attended Transfer:	2	Enable 3-way Conference:	
Line	Enable Auto on Hook:	?	Auto HangUp Delay:	3 (0~30)second(s)
Phone settings	Ring From Headset:	Disabled 🔻 🕜	Enable Auto Headset:	
	Enable Silent Mode:		Disable Mute for Ring:	
Phonebook				
	Enable Default Line:		Enable Auto Switch Line:	Image: A start of the start
Call logs	Default Ext Line:	Fanvil@SIP1 🔻 🕜	Ban Outgoing:	
	Default Ans Mode:	Video 🔻 🕜	Default Dial Mode:	Video 🔻 🕜
Function Key	Hide DTMF:	Disabled 🔻 🧭	Enable CallLog:	
Function Rey	Enable Restricted Incoming List:	9 💌 🕜	Enable Allowed Incoming List:	
Application	Enable Restricted Outgoing List:	. 🖉 🥝	Enable Country Code:	
	Country Code:		Area Code:	
Security	Enable Number Privacy:		Match Direction	From left to right

Picture 110 - Headset function settings

10.6.2 Bluetooth Headset

The device supports Bluetooth headset, compatible with CSR 4.0 chip Bluetooth headset, no need to use USB dongle. The phone has built-in Bluetooth and Bluetooth antenna. When the device is in the default standby mode,

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

Fanvil	Bluetooth		11:41	Fanvil	Searching		11:42
UI Prefernece	1. Bluetooth	Enabled	O	UI Prefernece	1. 🗖 Fanvil X210		0C:38:3E:12:C8:79
Ring & Tone	2. Paired Device	No Paired		Ring & Tone	2. 🛛 NX529J		90:C7:D8:1C:0F:26
Keyboard	3. My Dev Name	Fanvil X7		Keyboard	3. OPPO R11s	F0:6D:78:31:66:16	
Bluetooth & WiFi	4. My Dev Mac	4. My Dev Mac 00:A8:59:00:11:35	Bluetooth & WiFi	4. 🛛 含笑半步癫	F4:F5:DB:EC:80:6E		
Reboot System				Reboot System	5. 🖵 0C:38:3E:31	97:87	0C:38:3E:31:97:87
Return	Clear	Scan	ок	Return		Connect	Cancel

Picture 111 - Bluetooth Settings Screen



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

• call answering

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

• Hang up

1) When talking with Bluetooth headset, you can hang up the phone by pressing the button on Bluetooth headset.

2) When there is an incoming call, double-click the answer button to reject the call.

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

Bluetooth redial

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

NOTICE! some models do not support double - click redial function. Whether this function is supported or not, you can check the instruction of the headset, or connect the Bluetooth headset to the phone, and double-click the answer button to see whether it will redial.

10.6.3 EHS Headset

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



Picture 112 - EHS Headset setting



10.7 Advanced

10.7.1 Line Configurations

Phone access [Menu] >> [Advanced] >> [Accounts] >> [Basic], you can configure the SIP line on the phone.

Fanvil	Basic		11 : 48
Accounts	1. SIP	SIP1	
Network	2. Registration	Enabled	
Security	3. Server Address	172.16.1.2	1/0
Maintenance	4. Auth. User		1/2
	5. Auth. Password	*****	.
	6. SIP User	6554	
Return	Left	Right	ОК

Picture 113 - 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.

Fanvil	Advanced 11:			
Accounts	1. SIP	SIP1		
Network	2. Domain Realm			
Security	3. Dial Without Regist	Disabled	1/3	
Maintenance	4. Anonymous	RFC3323		
	5. DTMF Mode	DTMF Mode AUTO		
	6. Use STUN	Disabled		
Return	Left	Right	ОК	

Picture 114 - Configure Advanced Line Options



10.7.2 Network Settings

10.7.2.1 Network Settings

Phone access [Menu] >> [Advanced] >> [Network] >> [Network], you can configure the SIP line on the phone.

■ 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.

Fanvil	WAN Port		11:56		
Accounts	1. IP Mode				
Network	2. IPv4				
Security	3. IPv6				
Maintenance					
Return	Up	Down	ОК		

Picture 115 - Network mode Settings

IPv4

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



Fanvil	Network		11 : 58
Accounts	1. Connection Mode	DHCP	\mathbf{O}
Network	2. Use DHCP DNS	Enabled	$\mathbf{\mathbf{O}}$
Security	3. Use DHCP Time	Disabled	\mathbf{O}
Maintenance			
Return	Left	Right	ок

Picture 116 - 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.

Fanvil	Network		11:58
Accounts	1. Connection Mode	PPPoE	•
Network	2. Username	user123	
Security	3. Password	*****	
Maintenance			
Return	Left	Right	ОК

Picture 117 - PPPoE network mode

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

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



Fanvil	Network		11:59
Accounts	1. Connection Mode	Static IP	
Network	2. IP Address	192.168.1.179	
Security	3. Mask	255.255.255.0	
Maintenance	4. Gateway	192.168.1.1	
	5. Primary DNS	8.8.8.8	
	6. Secondary DNS	202.96.134.133	
Return	Left	Right	ОК

Picture 118 - 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.

Fanvil	Network		12 : 00	
Accounts	1. Connection Mode	Static IP	•	
Network	2. IP Address			
Security	3. IPv6 Prefix			
Maintenance	4. Gateway			
	5. Primary DNS			
	6. Secondary DNS			
Return	Left	Right	ОК	

Picture 119 - IPv6 Static IP network mode



10.7.2.2 QoS & VLAN

LLDP

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

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

CDP

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

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 16 - QoS & VLAN

Note: QoS & VLAN details refer to

http://www.fanvil.com/Uploads/Temp/download/20180920/5ba383b56c3ef.pdf



10.7.2.3 VPN

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

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

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

L2TP

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 can 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.

http://www.fanvil.com/Uploads/Temp/download/20180920/5ba38303bfcf0.pdf

10.7.2.4 Web Server Type

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

Fanvil	Web Server Type		12 : 02
Accounts	1. Protocol	НТТР	Ø
Network			
Security			
Maintenance			
Return	Left	Right	ОК

Picture 120 - The phone configures the web server type

10.7.3 Set The Secret Key

When the device is in the default standby mode,

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



Fanvil	Security		12:04	Fanvil	Menu Password		12:09
Accounts	1. Menu Password	ř.		Accounts	1. Current password	I	
Network	2. Keyboard Passw	vord		Network	2. New password		
Security				Security	3. Confirm password	H [
Maintenance				Maintenance			
Return	Up	Down	ок	Return	123	Delete	ок



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.

Fanvil	Security		12 : 11
Accounts Network Security Maintenance	1. Menu Password 2. Enter I	Password	
Return	123	Delete	OK

Picture 122 - Keypad lock password

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



Fanvil	Keyboard Password		12 : 12
Accounts	1. Keyboard Status	Disabled	$\mathbf{\mathbf{o}}$
Network			
Security			
Maintenance			
Return	Left	Right	ОК

Picture 123 - Set the keypad 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 124 - Phone keypad lock password input interface



	Features Medi	ia Settings	MCAST	Action	Time/Date	Tone	Advand
					1		
tem							
	Screen Configuration						
vork	Backlight Active Lev	vel:	12	(1~16)			0
	Backlight Inactive L	Level:	100	[0~16)			0
	Backlight Time:			(0~120)second(s)			0
one settings	Screensaver		Disabled •				0
			Apply				
ebook			Арріу				
	LCD Menu Password S	ettings					
ogs	Menu Password:						0
			Apply				
n Key	Keyboard Lock Setting]5					
	Keyboard Password	1:	•••				0
ition	Keyboard Time:		5				
	Enable Keyboard Lo	ock:					0
ty			Apply				
e Log	Greeting Words						
	Greeting Words:		VOIP PHONE	(0-12 c	haracter(s))		

Picture 125 - Web keyboard lock password Settings

10.7.4 Maintenance

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

anvil						
	Information	Account	Configurations	Upgrade	Auto Provision	Tools Reboot Pho
> System						
	Basic Settings					
Network	CPE Serial N	lumber:		00100400FV02001	0000000a859001134	0
	Authenticati	on Name:				0
Line	Authenticati	on Password:				0
	Configuratio	n File Encryption Ke	γ:			0
Phone settings	General Con	General Configuration File Encryption Key:				0
	Download Fa	ail Check Times:		5		
Phonebook	Update Cont	tact Interval:		720	(0,>=5)minute(s)	0
	Save Auto P	rovision Information	1:			0
Call logs	Download C	ommonConfig enabl	ed:			
	Enable Serv	er Digest:				0
Function Key	DHCP Option >>	>				
Application	DHCPv6 Option	>>				
	SIP Plug and Pl	ay (PnP) >>				
Security	Static Provision	ing Server >>				
Device Log	Autoprovision N	low >>				
	TR069 >>					
			Apply			

Picture 126 - Page auto provision Settings

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



Fanvil	Maintenance		12 : 18		
Accounts Network	1. Auto Provision 2. TR069				
Security	3. Firmware Upgrade				
Maintenance	4. Factory Reset				
Return	Up	Down	ок		

Picture 127 - Phone auto provision settings

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

PNP>DHCP>TR069> Static Provisioning

Transferring protocol: FTP、 TFTP、 HTTP、 HTTPS

Details refer to Fanvil Auto Provision in

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

Table 17 - Auto Provision

Parameters	Description			
Basic settings				
CPE Serial Number	Display the device SN			
Authentication Name	The user name of provision server			
Authentication Password	The password of provision server			
Configuration File	If the device configuration file is encrypted, user should add			
Encryption Key	the encryption key here			
General Configuration File	If the common configuration file is encrypted, user should add			
Encryption Key	the 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			
Information	provision URL is kept, the information will be kept.			



Download Common Config enabled	Whether phone will download the common configuration file.	
Enable Server Digest	When the feature is enable, if the configuration of server is changed, phone will download and update.	
DHCP Option		
•	Confiugre DHCP option, DHCP option supports DHCP custom	
Option Value	option DHCP option 66 DHCP option 43, 3 methods to ge	
	the provision URL. The default is Option 66.	
	Custom Option value is allowed from 128 to 254. The option	
Custom Option Value	value must be same as server define.	
	Use Option120 to get the SIP server address from DHCP	
Enable DHCP Option 120	server.	
SIP Plug and Play (PnP)		
	Whether enable PnP or not. If PnP is enable, phone will send	
	a SIP SUBSCRIBE message with broadcast method. Any	
Enable SIP PnP	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	r	
	Provisioning server address. Support both IP address and	
Server Address	domain address.	
	The configuration file name. If it is empty, phone will request	
	the common file and device file which is named as its MAC	
Configuration File Name	address.	
	The file name could be a common name, \$mac.cfg, \$input.cfg.	
	The file format supports CFG/TXT/XML.	
Protocol Type	Transferring protocol type , supports FTP、TFTP、HTTP and HTTPS	
	Configuration file update interval time. As default it is 1, means	
Update Interval	phone will check the update every 1 hour.	
	Provision Mode.	
	1. Disabled.	
Update Mode	2. Update after reboot.	
	3. Update after interval.	
L	1	



TR069	
Enable TR069	Enable TR069 after selection
ACS Server Type	There are 2 options Serve type, common and CTC.
ACS Server URL	ACS server address
ACS User	ACS server username (up to is 59 character)
ACS Password	ACS server password (up to is 59 character)
Enable TR069 Warning	If TR069 is enabled, there will be a prompt tone when
Tone	connecting.
TLS Version	TLS version (TLS 1.0, TLS 1.1, TLS 1.2)
INFORM Sending Period	INFORM signal interval time. It ranges from 1s to 999s
STUN Server Address	Configure STUN server address
STUN Enable	To enable STUN server for TR069

10.7.5 Firmware Upgrade

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

Fanvil							
	Information	Account	Configurations	Upgrade	Auto Provision	Tools	Reboot Phone
> System							
> Network	Software upgrad	de 🍘 Current Softw	ana Manalana	1.0.3			
> Line		System Image		1.0.3	Select	Upgrade	
> Phone settings	Upgrade Server						
		Enable Auto U Upgrade Serve	5 T				
> Phonebook		Upgrade Serve		24	hour		
› Call logs				Apply			
› Function Key	Firmware Inform	nation Current Softw	ara Version	1.0.3			
> Application		Server Firmwa	are Version:	Error			
> Security		New Firmware	pgrade Information:				

Picture 128 - Web page firmware upgrade

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



Dial Peer	Firmware Upgrade		15 : 26
Accounts	Current Version	1.0.2	
Network	Server Version	1.0.3	
Security	Add bluetooth outsi	de compatible Iphone M	lobile
Maintenance			
	-		
Return			Upgrade

Picture 129 - Firmware upgrade information display

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

Table 18 - Firmware upgrade

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



名称	修改日期	类型	大小
fanvil_x6_hwv1_0.txt	2018/9/11 17:57	文本文档	1 KB
fanvil_x6_hwv1_1.txt	2018/9/11 17:57	文本文档	1 KB
fanvil_x6_hwv1_2.txt	2018/9/11 17:57	文本文档	1 KB
🗎 fanvil x6 hwv1 3.txt	2018/9/11 17:57	文本文档	1 KB
📜 x6-6904-P0.12.12-1.6.3-2502T2018-0	2018/8/21 19:52	WinRAR 压缩文	35,847 KB

- TXT file format must be UTF-8
- vendor_model_hw10.TXT The file format is as follows:

Version=1.6.3 #Firmware

Firmware=xxx/xxx.z #URL, Relative paths are supported and absolute paths are possible, distinguished by the presence of protocol headers.

BuildTime=2018.09.11 20:00

Info=TXT|XML

Xxxxx

Xxxxx

Xxxxx

Xxxxx

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

Dial Peer	27 FEB WED 17:13					
SIP1				O Voice Mail		
SIP2			1/1	O Headset		
SIP3				\bigcirc		
SIP4		Firmware Upgrade				
SIP5	Cancel	View		\bigcirc		
SIP6				+++ More		
	CallLog Contact	DND	Menu			

Picture 130 - Firmware upgrade



10.7.6 Factory Reset

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.

Fanvil	Reset to Default		12 : 21
Accounts	1. Clear ETC File	Disabled	\mathbf{O}
Network	2. Clear Config File	Disabled	
Security	3. Clear Userdata	Disabled	
Maintenance	4. Clear All	Disabled	
Return	Left	Right	ОК

Picture 131 - Reset to default



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.

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

11.7 System >> Tools

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

Web Server Type:	HTTP V	Ø
Web Logon Timeout:	15 (10~30)Minute	Ø
web auto login:		
HTTP Port:	80	0
HTTPS Port:	443	0
RTP Port Range Start:	10000	0
RTP Port Quantity :	1000	Ø
	Apply	

Picture 132 - Service Port Settings

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

 Table 19 - Service port



	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>10.7.2.3 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>10.7 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.

Table 20 - Line configuration on the web page



SIP Server 1	
Server Address	Enter the IP or FQDN address of the SIP server
Server Port	Enter the SIP server port, default is 5060
Transport Protocol	Set up the SIP transport line using TCP or UDP
	or TLS.
Registration Expiration	Set SIP expiration date.
SIP Server 2	
Server Address	Enter the IP or FQDN address of the SIP server
Server Port	Enter the SIP server port, default is 5060
Transport Protocol	Set up the SIP transport line using TCP or UDP
	or TLS.
Registration Expiration	Set SIP expiration date.
SIP Proxy Server Address	Enter the IP or FQDN address of the SIP proxy
	server.
Proxy Server Port	Enter the SIP proxy server port, default is 5060.
Proxy User	Enter the SIP proxy user.
Proxy Password	Enter the SIP proxy password.
Backup Proxy Server Address	Enter the IP or FQDN address of the backup
	proxy server.
Backup Proxy Server Port	Enter the backup proxy server port, default is
	5060.
Basic Settings	
Enable Auto Answering	Enable auto-answering, the incoming calls will
	be answered automatically after the delay time
Auto Answering Delay	Set the delay for incoming call before the system
	automatically answered it
Call Forward Unconditional	Enable unconditional call forward, all incoming
	calls will be forwarded to the number specified in
	the next field
Call Forward Number for Unconditional	Set the number of unconditional call forward
Call Forward on Busy	Enable call forward on busy, when the phone is
	busy, any incoming call will be forwarded to the
	number specified in the next field.
Call Forward Number for Busy	Set the number of call forward on busy .
Call Forward on No Answer	Enable call forward on no answer, when an
	incoming call is not answered within the
	configured delay time, the call will be forwarded
	to the number specified in the next field.



Call Forward Number for No Answer	Set the number of call forward on no answer.
Call Forward Delay for No Answer	Set the delay time of not answered call before
	being forwarded.
Transfer Timeout	Set the timeout of call transfer process.
Conference Type	Set the type of call conference, Local=set up call
	conference by the device itself, maximum
	supports two remote parties, Server=set up call
	conference by dialing to a conference room on
	the server
Server Conference Number	Set the conference room number when
	conference type is set to be Server
Subscribe For Voice Message	Enable the device to subscribe a voice message
	waiting notification, if enabled, the device will
	receive notification from the server if there is
	voice message waiting on the server
Voice Message Number	Set the number for retrieving voice message
Voice Message Subscribe Period	Set the interval of voice message notification
	subscription
Enable Hotline	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	
120	L	



	transmission will be encrypted
Enable Session Timer	Set the line to enable call ending by session
	timer refreshment. The call session will be
	ended if there is not new session timer event
	update received after the timeout period
Session Timeout	Set the session timer timeout period
Enable BLF List	Enable/Disable BLF List
BLF List Number	BLF List allows one BLF key to monitor the
	status of a group. Multiple BLF lists are
	supported.
Response Single Codec	If setting enabled, the device will use single
Response Single Codec	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	
5	Set the user agent, the default is Model with
	Set the user agent, the default is Model with Software Version.
Specific Server Type	Software Version.
Specific Server Type	_
Specific Server Type SIP Version	Software Version. Set the line to collaborate with specific server
	Software Version. Set the line to collaborate with specific server type
SIP Version	Software Version. Set the line to collaborate with specific server type Set the SIP version
SIP Version Anonymous Call Standard	Software Version. Set the line to collaborate with specific server type Set the SIP version Set the standard to be used for anonymous
SIP Version Anonymous Call Standard Local Port	Software Version. Set the line to collaborate with specific server type Set the SIP version Set the standard to be used for anonymous Set the local port
SIP Version Anonymous Call Standard Local Port Ring Type	Software Version. Set the line to collaborate with specific server type Set the SIP version Set the standard to be used for anonymous Set the local port Set the ring tone type for the line
SIP Version Anonymous Call Standard Local Port Ring Type Enable user=phone	Software Version. Set the line to collaborate with specific server type Set the SIP version Set the standard to be used for anonymous Set the local port Set the ring tone type for the line Sets user=phone in SIP messages.
SIP Version Anonymous Call Standard Local Port Ring Type Enable user=phone Use Tel Call	Software Version. Set the line to collaborate with specific server type Set the SIP version Set the standard to be used for anonymous Set the local port Set the ring tone type for the line Sets user=phone in SIP messages. Set use tel call



Enable PRACK	Set the line to support PRACK SIP message
DNS Mode	Select DNS mode, A, SRV, NAPTR
Enable Long Contact	Allow more parameters in contact field per RFC
	3840
Enable Strict Proxy	Enables the use of strict routing. When the
	phone receives packets from the server, it will
	use the source IP address, not the address in
	via field.
Convert URI	Convert not digit and alphabet characters to
	%hh hex code
Use Quote in Display Name	Whether to add quote in display name, i.e.
	"Fanvil" vs Fanvil
Enable GRUU	Support Globally Routable User-Agent URI
	(GRUU)
Sync Clock Time	Time Sync with server
Enable Inactive Hold	With the post-call hold capture package
	enabled, you can see that in the INVITE
	package, SDP is inactive.
Caller ID Header	Set the Caller ID Header
Use 182 Response for Call waiting	Set the device to use 182 response code at call
	waiting response
Enable Feature Sync	Feature Sync with server
Enable SCA	Enable/Disable SCA (Shared Call Appearance)
CallPark Number	Set the CallPark number.
Server Expire	Set the timeout to use the server.
TLS Version	Choose TLS Version.
uaCSTA Number	Set uaCSTA Number.
Enable Click To Talk	With the use of special server, click to call out
	directly after enabling.
Enable Chgport	Whether port updates are enabled.
VQ Name	Open the VQ name for VQ RTCP-XR.
VQ Server	Open VQ server address for VQ RTCP-XR.
VQ Port	Open VQ port for VQ RTCP-XR.
VQ HTTP/HTTPS Server	Enable VQ server selection for VQ RTCP-XR.
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.



Set the scramble number when the Pickup is
enabled.
Set JoinCall Number.
Set Intercom Number.
Whether to enable logout function.
Whether to open the registration of SIP package
with user agent with MAC or not.
Whether to open the registration is user agent
with MAC or not.
Whether to enable accurate matching of BLF
sessions.
Set whether to bring ptime field, default no.
Set up to strictly match the Branch field.
Set open group.
Set to enable RFC4475.
Enable strict UA matching.
Set the registration failure retry time.
Modify the phone SIP port.
Set to enable the uaCSTA function.

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 after10 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 133 - Dial plan settings



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

Table 21 - Phone 7 dialing methods

Add dialing rules:

Digit Map:			0	Makah ka						
Apply to C	all: Outgoing	Call 🔻 🕜		Match to Send:	No 🔻] 🕜		Media:	Default 🔻 🤇	
Line:	SIP DIAL	PEER 🔻	0	Destinat	ion:		0	Port:	0	
Alias(Optic	onal): No Alias	• 0		Phone Number	:		0	Length:	0	
Suffix:			0							
					Add					
Plan Optic	on 🕜									
•				D	elete	Modify				
-defined [Dial Plan Tabl	e 🕜								
Index	Digit Map	Call	Match to :	Send	Line	Alias Tvp	e:Number(le	nath)	Suffix	Media

Picture 134 - Custom setting of dial - up rules



Parameters	Description				
Dial rule	There are two types of matching: Full Matching				
	or Prefix Matching. In Full matching, the entire				
	phone number is entered and then mapped per				
	the Dial Peer rules.				
	In prefix matching, only part of the number is				
	entered followed by T. The mapping with then				
	take place whenever these digits are dialed.				
	Prefix mode supports a maximum of 30 digits.				
Note: Two different special characters are used.					
 x Matches any single digit that is dialed. 					
[] Specifies a range of numbers to be mate	ched. It may be a range, a list of ranges separated				
by commas, or a list of digits.					
Destination	Set Destination address. This is for IP direct.				
Port	Set the Signal port, and the default is 5060 for				
	SIP.				
Alias	Set the Alias. This is the text to be added,				
	replaced or deleted. It is an optional item.				
Note: There are four types of aliases.					
all: xxx – xxx will replace the phone number.					
add: xxx – xxx will be dialed before any photo	ne number				
del –The characters will be deleted from the	nhone number				
rep: xxx – xxx will be substituted for the special	cified characters				
Suffix	Characters to be added at the end of the phone				
	number. It is an optional item.				
Length	Set the number of characters to be deleted. For				
	example, if this is set to 3, the phone will delete				
	the first 3 digits of the phone number. It is an				
	optional item.				

Table 22 - Dial - up rule configuration table

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.

User	-define	d Dial Pla	ı 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)			Default

Picture 135 - Dial rules table (1)

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

User	-defined	Dial Plan Ta	ble 🕜				
	Index	Digit Map	Call	Match to Send	Line	Alias Type:Number(length)	Suffix Media
	1	"1T"	Out	No	Fanvil@SIP1	rep:010(1)	Default

Picture 136 - 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 >> Action Plan

When calling to a phone, the bounded IP camera synchronously transmits video to the opposite phone (video support).

Table 23 - IP camera

Parameter	Description



Number	Auxiliary phone number (support video)
Туре	Support video display on call.
Direction	For call mode, incoming/outgoing call displays
	video
Line	Set up outgoing lines.
Username	Bind the user name of the IP camera.
Password	Bind IP camera password.
URL	Video streaming information.
User Agent	Set user agent information

12.8 Line >> Basic Settings

Set up the register global configuration.

Table 24 -	Set the line	e global co	nfiguration	on the web page
------------	--------------	-------------	-------------	-----------------

Parameters	Description
STUN Settings	
Server Address	Set the STUN server address
Server Port	Set the STUN server port, default is 3478
Binding Period	Set the STUN binding period which can be used
	to keep the NAT pinhole opened.
SIP Waiting Time	Set the timeout of STUN binding before sending
	SIP messages
TLS Certification File	Upload or delete the TLS certification file used
	for encrypted SIP transmission.
Parameters	Description

12.9 Line >> RTCP-XR

RTCP-XR mode is based on RFC3611 (RTP Control Extended Report), which can measure and evaluate network packet loss, delay and voice quality by sending RTCP-XR packets.

Table 25 - VQ RTCP-XR Settings

Parameters	Description
T drumetero	Besonption



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

12.10 Phone settings >> Features

Configuration phone features.

Table 26 -	General	function	Settings
------------	---------	----------	----------

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



	dial tone Auto Onhook time at handset mode
Ring for Headset	Enable Ring for Handset by selecting it, the
	phone plays ring tone from handset.
Auto Headset	Enable this feature, headset plugged in the
	phone, user press 'answer' key or line key to
	answer a call with the headset automatically.
Enable Silent Mode	When enabled, the phone is muted, there is no
	ringing when calls, you can use the volume keys
	and mute key to unmute.
Disable Mute for Ring	When it is enabled, you can't mute the phone
Enable Default Line	If enabled, user can assign default SIP line for
	dialing out rather than SIP1.
Enable Auto Switch Line	Enable phone to select an available SIP line as
	default automatically
Default Ext Line	Select the default line to use for outgoing calls
Ban Outgoing	If you select Ban Outgoing to enable it, and you
5 5	cannot dial out any number.
Hide DTMF	Configure the hide DTMF mode.
Enable CallLog	Select whether to save the call log.
Enable Restricted Incoming List	Whether to enable restricted call list.
Enable Allowed Incoming List	Whether to enable the allowed call list.
Enable Restricted Outgoing List	Whether to enable the restricted allocation list.
Enable Country Code	Whether the country code is enabled.
Country Code	Fill in the country code.
Area Code	Fill in the area code.
Enable Number Privacy	Whether to enable number privacy.
	Matching direction, there are two kinds of rules
Match Direction	from right to left and from left to right.
	Open number privacy after the start of the
Start Position	hidden location.
	Turn on number privacy to hide the number of
Hide Digits	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	
Search path	Select the search path.
	· · · · · · · · · · · · · · · · · · ·



LDAP Search	Select from with one LDAP for search
	Configure the Emergency Call Number. Despite
Emergency Call Number	the keyboard is locked, you can dial the
	emergency call number
Restrict Active URI Source IP	Set the device to accept Active URI command
	from specific IP address. More details please
	refer to this link
	http://www.fanvil.com/Uploads/Temp/downloa
	d/20180920/5ba3641fe81a5.pdf。
Push XML Server	Configure the Push XML Server, when phone
	receives request, it will determine whether to
	display corresponding content on the phone
	which sent by the specified server or not.
Enable Pre-Dial	Disable this feature, user enter number will open
	audio channel automatically.
	Enable the feature, user enter the number
	without opening audio channel.
	If enabled, up to 10 simultaneous calls can exist
Enable Multi Line	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.
	When enabled, the phone displays the
SIP notify	information when it receives the relevant notify
	content.
Tone Settings	
Enable Holding Tone	When turned on, a tone plays when the call is
	held
Enable Call Waiting Tone	When turned on, a tone plays when call waiting
Play Dialing DTMF Tone	Play DTMF tone on the device when user
	pressed a phone digits at dialing, default
	enabled.
Play Talking DTMF Tone	Play DTMF tone on the device when user
	pressed a phone digits during taking, default
	enabled.
DND Settings	
DND Option	Select to take effect on the line or on the phone



	or close.
Enable DND Timer	Enable DND Timer, If enabled, the DND is
	automatically turned on from the start time to the
	off time.
DND Start Time	Set DND Start Time
DND End Time	Set DND End Time
Intercom Settings	
Enable Intercom	When intercom is enabled, the device will accept
	the incoming call request with a SIP header of
	Alert-Info instruction to automatically answer the
	call after specific delay.
Enable Intercom Mute	Enable mute mode during the intercom call
Enable Intercom Tone	If the incoming call is intercom call, the phone
	plays the intercom tone
Enable Intercom Barge	Enable Intercom Barge by selecting it, the phone
	auto answers the intercom call during a call. If
	the current call is intercom call, the phone will
	reject the second intercom call
Response Code Settings	
DND Response Code	Set the SIP response code on call rejection on
	DND
Busy Response Code	Set the SIP response code on line busy
Reject Response Code	Set the SIP response code on call rejection
Password Dial Settings	
Enable Password Dial	Enable Password Dial by selecting it, When
	number entered is beginning with the password
	prefix, the following N numbers after the
	password prefix will be hidden as *, N stand for
	the value which you enter in the Password
	Length field. For example: you set the password
	prefix is 3, enter the Password Length is 2, then
	you enter the number 34567, it will display 3**67
	on the phone.
Encryption Number Length	Configure the Encryption Number length
Password Dial Prefix	Configure the prefix of the password call
	number
Power LED	
Common	Standby power lamp state, off when off, open is



	always bright red. Off by default.
	The status of power lamp when there is unread
SMS/MWI	short message/voice message, including
	off/on/slow flash/quick flash, default slow flash.
	The state of the power lamp when there is a
Missed	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.
	Power lamp status when there is an incoming
Ringing	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.
	The power lamp state, including off/on/slow
Hold/Held	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
Display MWI Popup	after opening, and it is opened by default if there
	is no popup prompt when closing.
	There is a popup prompt when the WIFI adapter
Display Device Connect Popup	is connected. There is no popup prompt when
	the WIFI adapter is closed. It is on by default.
	There is popup prompt for unread messages
Display SMS Popup	after opening, and there is no popup prompt
	when closing. It is opened by default.
	When the handle is not hung back after opening,
	registration fails, IP acquisition fails, Tr069
Display Other Popup	connection fails and other abnormalities, there
	will be popup prompt when it is opened;
	otherwise, there will be no prompt when it is
	closed, and it will be opened by default.



12.11 Phone settings >> Media Settings

Change voice Settings.

Parameter	Description
Codecs Settings	Select enable or disable voice encoding:
	G.711A/U,G.722,G.723,G.729,
	G.726-16,G726-24,G726-32,G.726-40,
	ILBC,AMR,AMR-WB, Opus
Audio Settings	
Handset Volume	Set the Handset volume, the value must be 1~9
Default Ring Type	Configure default ringtones. If no special ringtone
	is set for the phone number, the default ringtone
	will be used.
Speakerphone Volume	Set the hands-free volume to 1-9.
Headset Ring Volume	Set the volume of the earphone ringtone to 1~9.
Headset Volume	Set the volume of the headset to 1~9.
Speakerphone Ring Volume	Set the volume of hands-free ringtone to 1~9.
G.723.1 Bit Rate	5.3kb/s or 6.3kb/s is available.
DTMF Payload Type	Enter the DTMF payload type, the value must be
	96~127.
AMR Payload Type	Set AMR load type, range 96~127.
Headset Mic Gain	Set the earphone's radio volume gain to fit
	different models of earphones.
Opus playload type	Set Opus load type, range 96~127.
	Set Opus sampling rate, including opus-nb (8KHz)
OPUS Sample Rate	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, 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) Setting	IS
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

12.12 Phone settings >> MCAST

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

Table 28 - 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.

12.13 Phone settings >> Action

Action URL

Note! Action urls are used for IPPBX systems to submit phone events. Please refer to Fanvil Action URL for details. http://www.fanvil.com/Uploads/Temp/download/20180920/5ba3641fe81a5.pdf



12.14 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
Secondary Time Server	Set secondary time server address, when
	primary server is not reachable, the device will
	try to connect to secondary time server to get
	time synchronization.
Time Zone	Select the time zone
Resync Period	Time of re-synchronization with time server
12-Hour Clock	Set the time display in 12-hour mode
Date Format	Select the time/date display format
Daylight Saving Time Settings	
Local	Choose your local, phone will set daylight saving
	time automatically based on the local
DST Set Type	Choose DST Set Type, if Manual, you need to
	set the start time and end time.
Fixed Type	Daylight saving time rules are based on specific
	dates or relative rule dates for conversion.
	Display in read-only mode in automatic mode.
Offset	The offset minutes when DST started
Month Start	The DST start month
Week Start	The DST start week
Weekday Start	The DST start weekday
Hour Start	The DST start hour
Minute Start	The DST start minute
Month End	The DST end month
Week End	The DST end week
Weekday End	The DST end weekday
Hour End	The DST end hour

Table 29 – Time & Date settings



Minute End	The DST end minute
Manual Time Settings	You can set your time manually

12.15 Phone settings >> Tone

This page allows users to configure a phone prompt.

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

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:		

Picture 137 - Tone settings on the web

12.16 Phone settings >> Advanced

User can configure the advanced configuration settings in this page.

- Screen Configuration.
 - Enable Energy Saving
 - Backlight Time
 - Screen Saver
- 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'.

12.17 Phonebook >> Contact

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

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

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

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

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

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

12.18 Phonebook >> Cloud phonebook

Cloud Phonebook

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

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

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



LDAP Settings

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

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

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

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

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

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

Web page preview

Phone page supports preview of Internet phone directory and contacts

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

	201 - 141 -	110			
	Contacts Cloud p	honebook Call List	Web Dial	Advanced	
› System					
› Network	Cloud phonebook XML Phonebook	Cloud XML3 XML4	BACK		
› Line	Add to phonebook Add to	Blacklist Add to Whitelist		Previous	Page: Next
› Phone settings	Index	Name Pho		Phone1	Phone2
> Phonebook	Manage Cloud Phoneboo	oks 😢			
› Call logs	Index Cloud phonebook n		Calling Sear Line Line	a Authentication Name	Authentication Password
	1 Phonebook	tftp://172.16.7.39/51.xml	AUTO V AUTO		
> Function Key	2 Cloud	tftp://172.16.7.39/51.xml	AUTO V AUTO		
	3		AUTO V AUTO	•	
Application	4		AUTO T AUTO	•	
	4		Apply		

Picture 138 - Web cloud phone book Settings



12.19 Phonebook >> Call List

Restricted Incoming Calls:

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

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

Allowed Incoming Calls:

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

Restricted Outgoing Calls:

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

12.20 Phonebook >> Web Dial

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

12.21 Phonebook >> Advanced

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

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

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

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

12.22 Call Logs

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



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

Users can also dial the web page by clicking on the number in the call log. Users can also download call records conditionally and save them locally.

12.23 Function Key >> Function Key

• X7 Function Key Configuration:

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

DSS Key home page: None/Page1/Page2/Page3/Page4

The device provides 118 user-defined shortcuts that users can configure on a web page.

• X7C is no shortcut key configuration.

Parameters	Description
Memory Key	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.
	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.
Key Event	User can select a key event as a shortcut to trigger.

Table 30 - Function Key configuration



	For example: MWI / DND / Release / Headset / Hold / etc.
DTMF	It allows user to dial or edit dial number easily.
URL	Open the specific URL directly.
Multicast	Configure the multicast address and audio codec. User presses
	the key to initiate the multicast.
Action URL	The user can use a specific URL to make basic calls to the phone.
XML browser	Users can set the DSS Key for specific URL download and other
	operations.

12.24 Function Key >> Side Key

• X7 Side Key configuration:

The device provides 11 user-defined Side keys that users can configure on a web page.

• X7C Side Key configuration:

Each page of the device provides 12 Side keys, a total of 5 pages of 60 custom Side keys. Users can configure each Side Key on the web page.

Side Key function and settings please refer to 12.23 Function Key.

12.25 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	
Desktop	CallLog/Menu/Local Contacts/DND/Prev Account/Next	
	Account/Blacklist/Call Back/CallForward/Locked/Memo/	



Missed/MWI/Dialed/Reboot/Redial/Remote XML/SMS/
Headset/Status/DSS Key/In
Redial/2aB/Delete/Exit/Forward/Local Contacts/CallLog
/Clear/Missed/Dialed/Headset/Video/Audio/Remote XML
/DSS Key
Redial/End/Headset/Release/DSS Key
Dial/2aB/Delete/Exit/Call Back/Local Contacts/Redial
/Pickup/MWI/Join/CallLog/Release/Missed/Pause/Dialed/
Headset/Video/Audio/Remote XML/DSS Key/In/Next line
/Prev line
Answer/Forward/Reject/Mute/Release/Headset/Video/Audio/
DSS key
Hold/Transfer/Conference/End/Mute/Release/New Call/
Local Contacts/Listen/CallLog/Next call/Prev call/
Private/Headset/Video/Audio/DSS Key
End/Transfer/Headset/Release/DSS Key
Redial/Delete/Exit/2aB/Dial/Local Contacts/Transfer/
CallLog/Clear/Missed/Dialed/Pause/Headset/Video/Audio/R
emote XML/DSS Key
End/Release/Headset/DSS Key
Hold/Transfer/Conference/End/Answer/Forward/Mute/Next
call/New call/Prev call/Reject/Release/Headset/Listen/
Video/Audio/DSS Key

12.26 Function Key >> Advanced

Global key Settings

The default configuration is empty, and the global memory key function can be configured.

The configured memory key has a call path. If the global configuration is maintained, pressing the memory key again will maintain the call path. If the same configuration hung up, press the memory key again will hang up this road call.

Programmable key Settings

Please refer to the Table 30 Softkey configuration



IP Camera List

	Index IP Camera	Username	Password	Preview	Dsskey
--	-----------------	----------	----------	---------	--------

Picture 139 - IP Camera List

12.27 Application >> Manage Recording

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

12.28 Security >> Web Filter

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

Fanvil			
	Web Filter Trust Certificat	tes Device Certificates Firewall	
> System			
> Network	Web Filter Table 🕜 Start IP Address	End IP Address	Option
› Line	Web Filter Table Settings	End IP Address	Option
› Phone settings	Start IP Address	👔 End IP Address	Add
> Phonebook	Web Filter Setting 🥑		
› Call logs	Enable Web Filter 🔲	Apply	
› Function Key			
> Application			
> Security			
> Device Log			

Picture 140 - Web Filter settings

Web) Filter Table 🕜		
	Start IP Address	End IP Address	Option
	192.168.1.1	192.168.254.254	Modify Delete

Picture 141 - Web Filter Table

Add and remove IP segments that are accessible; Configure the starting IP address $^{143}\,$



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.

12.29 Security >> Trust Certificates

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

You can upload and delete uploaded certificates.

Permission	n Certificate	Disabled v	0		
Common I	Name Validation	Disabled •	0		
Certificate	mode	All Certificates 🔹	0		
		Apply			
mport Certifi	cates 🕜				7
Load Serv	er File		Select Upload		
Control Certificates Li Load Serv Certificates Li Index	er File	Issued To	Select Upload Issued By	Expiration	File Size

Picture 142 - Certificate of settings

12.30 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 Apply	 (existence) 		
nport Certificates 🥝				
Load Server File		Select Upload		
ertification File 🕜				
File Name	Issued To	Issued By	Expiration	File Size

Picture 143 - Device certificate setting

12.31 Security >> Firewall

	Web Filter Trust Certificates Device Certificates Firewall
› System	
> Network	Firewall Type 🥝 Enable Input Rules: 🔲 Enable Output Rules: 🔲
> Line	Apply
› Phone settings	Firewall Input Rule Table 📀 Index Deny/Permit Protocol Src Address Src Mask Src Port Range Dst Address Dst Mask Dst Port Range
> Phonebook	
> Call logs	Firewall Output Rule Table 🔮 Index Deny/Permit Protocol Src Address Src Mask Src Port Range Dst Address Dst Mask Dst Port Range
> Function Key	Firewall Settings 💡
	Input/Output Input/Output Src Address Deny/Permit Deny Src Mask Dst Mask Add
> Security	Protocol UDP Src Port Range Dst Port Range
> Device Log	Rule Delete Option ? Input/Output Input Y Index To Be Deleted Delete

Picture 144 - 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 32 - Network Firewall
Description

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.				
	To select whether the current rule configuration is disabled				
Deny/Permit	or allowed;				
Protocol	There are four types of filtering protocols: TCP UDP				
PTOLOCOI	ICMP IP.				
Src Port Range	Filter port range				
	Source address can be host address, network address, or				
Src Address	all addresses 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				
Dst Address	address or the full address 0.0.0.0; It can also be a				
	network address similar to *.*.*.0, such as: 192.168.1.0.				
	Is the source address mask. When configured as				
Src Mask	255.255.255.255, it means that the host is specific. When				
SICIVIASK	set as 255.255.255.0, it means that a network segment is				
	filtered.				
	Is the destination address mask. When configured as				
Dst Mask	255.255.255.255, it means the specific host. When set as				
DSI IVIASK	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:

ire	irewall Input Rule Table 🕜								
	Index D	eny/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 145 - 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 146



192.168.1.0 network segment can still receive the response packet from the destination host normally.

Rule Delete Option 🔞			
Input/Output	Input 🔻	Index To Be Deleted	Delete

Picture 146 - Delete firewall rules

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

12.32 Device Log >> Device Log

You can grab the device log, and when you encounter an abnormal problem, you can send the log to the technician to locate the problem. See <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 (you 148



						2	
	Information	Account	Configurations	Upgrade	Auto Provision	Tools	Reboot
System							
	Syslog						
Network	Enable Syslog:						
Line	Server Address:		0.0.0				0
	Server Port:		514				0
Phone settings	APP Log Level: Export Log:		Information	Ŧ			0
	Export Log:		Apply				
Phonebook							
	Web Capture 🕜						
Call logs	Start		stop				
	Screenshot						
Function Key	Main Screen:		Save BMP				
Application	Watch Dog						
	Enable Watch Do	og:					
Security			Apply				
	PING						
Device Log			Start	stop			
	PING Result:						

can capture them in the interface with problems).

Picture 147 - 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.



- Juine Google amonie						L ·-·· ··
 about:blank 						
		Configurations	Upgrade	Auto Provision	Tools	Reboot Phone
		0.0.0				•
		514				0
2019.2.27_14-2pcap 237 KB	全部显示 ×	Information	¥			0
Phone setungs	Export Log:					
> Phonebook		Apply				
FINITEDOOK	Web Capture 😮					
› Call logs	Start	stop				
	Screenshot					
› Function Key	Main Screen:	Save BMP				
> Application	Watch Dog					
	Enable Watch Dog:	•				
> Security		Apply				
	PING					
> Device Log		Start	stop			
	PING Result:					

Picture 148 - 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
Device could not boot up	1. The device is powered by external power supply via power
	adapter or PoE switch. Please use standard power adapter
	provided by Fanvil or PoE switch met with the specification
	requirements and check if device is well connected to power
	source.
	2. If you saw "POST MODE" on the device screen, the device

Table 33 - Trouble Cases



and the first the transformed Discourse of the first
system image has been damaged. Please contact location
technical support to help you restore the phone system.
1. Please check if device is well connected to the network. The
network Ethernet cable should be connected to the
[Network] port NOT the 🖳 [PC] port. If the cable is not well
connected to the network icon [WAN disconnected] will be
flashing in the middle of the screen.
2. Please check if the device has an IP address. Check the system
information, if the IP displays "Negotiating", the device does not
have an IP address. Please check if the network configurations is
correct.
3. If network connection is fine, please check again your line
configurations. If all configurations are correct, please kindly
contact your service provider to get support, or follow the
instructions in "13.5 Network Packet Capture" to get the network
packet capture of registration process and send it to Fanvil
support to analyze the issue.
1. Please check if Handset is connected to the correct Handset (
port NOT Headphone (🎧) port.
2. The network bandwidth and delay may be not suitable for audio
call at the moment.
1. There are two Headphone wire sequence in the market. Please
use the Headphone provided by Fanvil, or consult Fanvil the wire
sequence if you wish to use a third-party headphone.
2. The network bandwidth and delay may be not suitable for audio
call at the moment.
This is usually due to loud volume feedback from speaker to
microphone. Please lower down the speaker volume a little bit, the
chopping will be gone.