



User Manual

H2U

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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

H2U is a network telephone specially designed for hotels. The simple design of the device brings excellent user experience for users. The equipment is not only a telephone, but also a masterpiece placed in the living room or office.

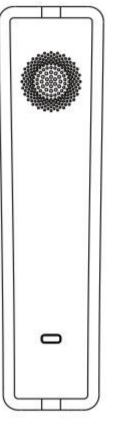
H2U is the latest generation of network telephone designed for the hotel, which still continues the excellent performance and specifications of traditional equipment; such as high-definition voice, high-performance echo cancellation, 100M Ethernet, QoS, encrypted transmission, automatic configuration, etc.; new system, smooth operation, flat interface setting and many other advantages.

For enterprise users, the equipment is a cost-effective office equipment, while realizing environmental protection, it also provides convenient operation;For home users, the device is a highly efficient communication device. Users can flexibly configure and define the functions of one DSS keys, saving space and cost.It will be an ideal choice for enterprise users and home users who pursue high quality and high efficiency.

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



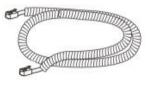
4.2 Packing Contents



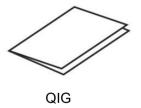


IP Phone

Handset



Handset Cord





5 Desktop Installation

5.1 PoE And the use of external power adapters

The device 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 Wall mounted installation method

The device supports wall mounted.

Please follow the instructions in the picture below to install the phone:

1) Drill two holes in the wall with a vertical distance of 136.2 or 161.2mm.

2) Insert two rubber plugs and screws in turn. Note that 5mm is reserved between the nut and the wall, which is convenient for hanging the phone base.

3) Connect the cable, handle cable and power supply.

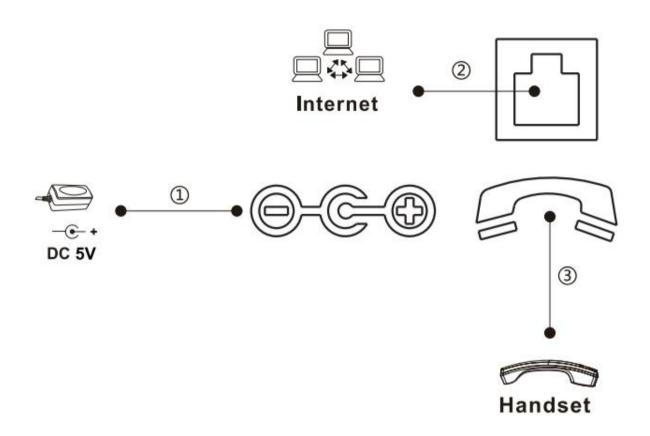
4) Align the wall hole on the base with the screws in step 2 and slide down to complete the installation.



Picture 1 - Device installation



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



Picture 2 - Connecting to the Device



6 Appendix Table

6.1 Appendix I – LED Definition

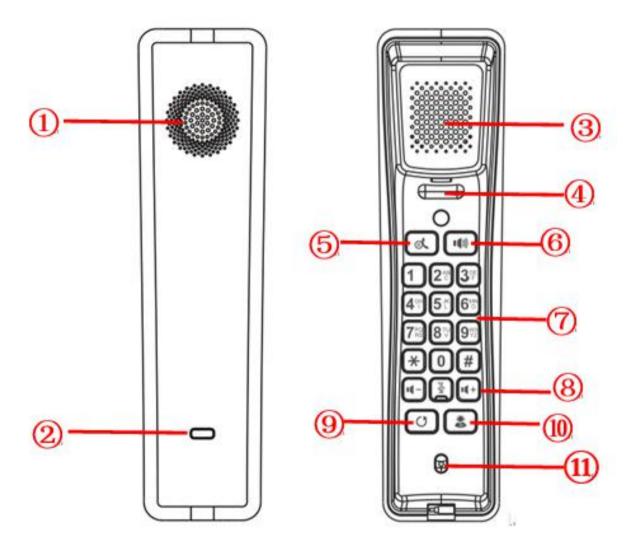
Туре	LED Light	State
default standby	standby	Green On
	mute	Green slow flash
	Line error (Registration	
	failure)/Network	Red slow flash
	disconnection	
call	calling/Pick up the handle	Red On
	mute	Orange slow flash
	hold/held	Orange slow flash
	Ringing	Red flash

Table 1 - DSS KEYLED State



7 Introduction to the User

7.1 Instruction of Keypad



Picture 3 - Instruction of Keypad

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



Table 2 - Instruction of Keypad

Number	The keypad	Instruction			
	names				
1	Hands-free Speaker	The hands-free channel plays sound			
2	Status indicator Iamp	Power indication/line status indication			
3	Handle the horn	The handle channel plays sound			
(4)	Hook	Hang up the handle and hang up the phone			
5	Hold Key	Press the "Hold" key during the call, the user can hold the call, and press it again to cancel the holding and restore the normal call state.			
6	Hands-free Key	The user can press this key to open the audio channel of the speakerphone			
	Standard	The 12 standard telephone keys provide the same function as			
(7)	Telephone	standard telephones, but further to the standard function, some			
	Keys	keys also provide special function by long-pressing the key, Key∰ - Long-pressed to broadcast IP (Default English).			
8	Volumes Key	The volume to add and subtract-In the standby state, ring and ring configuration interface, press this button to increase/reduce the ring volume; Press this button to increase/lower the volume on the call Mute Key-During a call, the user can press this key to mute the microphone.			
9	Redial	Press the Redial key to redial the last number dialed			
10	Function Key	User-defined functionality			
1)	Microphone	Listen when the receiver is answering (do not listen when the phone is hands-free)			

7.2 Using Handset / Hands-free Speaker

Using Handset



About the use of the handle, the user can pick up the handle to dial the number, press the "#" button after pressing the number, the number will be dialed.Users can switch audio channels of the phone by pressing the hands-free button.

■ Using Hands-free Speaker

For the use of the speakerphone, the user can dial the number by pressing the speakerphone button, or by dialing the number and then pressing the speakerphone button. When the voice channel of the handle is opened, the user can switch the audio channel of the phone by pressing the button of the hands-free speaker.



8 **Basic Function**

8.1 Making Phone Calls

Default Line

The device provides two line services (1 main line and 1 standby line). if both lines are configured successfully, the user uses line 1 to make or receive calls by default.

Dialing Methods

Users can dial a number in the following ways:

- The Device end
 - Dial directly, pick up the handle and input the number, then press "#" to call out
 - Redialing the last dialed number (Redial)
- > The Web end
 - Dial from web fill in number dial
 - Selecting a phone number from call logs

Cancel Call

When calling a number, the user can cancel the call by putting back the handle/pressing down the spring.

8.2 Answering Calls

Users can answer the call by picking up the handle or pressing the speakerphone button to open the hands-free channel.

The telephone does not support multiple calls. When there is an established call, the user needs to hang up the current call before answering the second call.

8.3 End of the Call

When the call is over, the user can put the handle back on the phone and press the speakerphone button 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.
- Redial record clearing

After the phone is used, redial will default to the last used number; therefore, it is necessary to clear the records used by the last customer without affecting the use of other customers.

8.5 Auto-Answering

User may enable auto-answering feature on the device and any incoming call will be automatically answered. The auto-answering can be enabled on line basis.

• 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.

				Englis
	SIP SIP Hot	spot Dial Plan	Basic Settings	
System				
Network	Line 21975@SIP	•		
Line	Register Settings >> Basic Settings >>			
Phone settings	Enable Auto Answering	i: 🔽 🕜	Auto Answering Delay	
, none settings	Call Forward Unconditional:		Call Forward Number f Unconditional:	or 🖉
Phonebook	Call Forward on Busy:		Call Forward Number f Busy:	or 🛛 🕜
	Call Forward on No Answer:		Call Forward Number f	or 🛛 🕜
Call logs	Call Forward Delay for No Answer:	5 (0~120)s	econd(s) 🕜 Transfer Timeout:	0 second(s) 🕜
unction Key	Conference Type:	Local 💌 🕜	Server Conference Number:	
Application	Subscribe For Voice Message:	0	Voice Message Numbe	r: 📃 🔮
	Voice Message Subscribe Period:	3600 (60~999999)second(s)	Enable Hotline:	
iecurity	Hotline Delay:	0 (0~9)second(s)	nd(s) 🕜 Hotline Number:	0
	Dial Without Registered	and the second	Enable Missed Call Log	p: 🔽 🕜
Device Log	DTMF Type:	AUTO 💌 🕜	DTMF SIP INFO Mode:	Send 10/11 💽 🕜
	Request With Port:		Enable DND:	
	Use STUN:	?	Use VPN:	

Picture 4 - Web page to start auto-answering



8.6 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 or hands-free).

8.6.1 Mute the Call

During the conversation, press the mute button on the phone: Ψ the mute lamp is red and the power lamp is orange.

Cancel mute: press $rac{W}{K}$ cancel mute on the phone again. When the mute lamp goes out, the power lamp returns to its original state

8.6.2 **Ringing Mute**

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

mute light red always bright, power lamp green flashing;There is no ringer for incoming calls.

Cancel ring tone mute: On the standby or incoming call screen, press the mute button again again again again again a standard ring tone mute

8.7 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.

8.8 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 web interface.

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

anvil						Engl
= H2U ==						
	Features Media Settin	ngs MCAST	Action	Time/Date	Tone	Advance
System						
Network	Basic Settings >>					
	Enable Call Waiting:			Enable Call Transfer:		
Line	Semi-Attended Transfer:			Enable 3-way Conference:	3	
	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: Default Ext Line:			Enable Auto Switch Line:		
Call logs	Hide DTMF:	21975@SIP1 🖵 🕜		Ban Outgoing: Enable CallLog:		
	Enable Restricted Incoming			Enable Allowed Incoming		
Function Key	List: Enable Restricted Outgoin			List:		
	List:	ig 🔽 🕜		Enable Country Code:		
Application	Country Code:			Area Code:		
Security	Enable Number Privacy: Start Position:	0	0~38	Match Direction Hide Digits:	From left to right	0
anvil						Engl
≡ н20 🚃					Tone	Advance
	Features Media Settin	ngs MCAST	Action	Time/Date	- Torne	
System	Features Media Settin	ngs MCAST	Action	Time/Date		
	Basic Settings >>	ngs MCAST	Action	Time/Date		
		igs MCAST	Action	Time/Date		
Network	Basic Settings >>	igs MCAST		Time/Date		
Network	Basic Settings >> Tone Settings >>		E			
Network Line	Basic Settings >> Tone Settings >> Enable Holding Tone:		E	nable Call Waiting Tone:	V 0	
Network Line Phone settings	Basic Settings >> Tone Settings >> Enable Holding Tone: Play Dialing DTMF Tone:		E	nable Call Waiting Tone:	V 0	
Network Line Phone settings	Basic Settings >> Tone Settings >> Enable Holding Tone: Play Dialing DTMF Tone: DND Settings >>		E	nable Call Waiting Tone:	V 0	
System Network Line Phone settings Phonebook Call logs	Basic Settings >> Tone Settings >> Enable Holding Tone: Play Dialing DTMF Tone: DND Settings >> Intercom Settings >>		E	nable Call Waiting Tone:	V 0	

Picture 5 - Web call waiting tone setting

8.9 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.

• 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.

Enable Auto Answering:		Auto Answering Delay:	5 (0~120)s	econd(s
Call Forward Unconditional:		Call Forward Number for Unconditional:		0
Call Forward on Busy:		Call Forward Number for Busy:		0
Call Forward on No Answer:		Call Forward Number for No Answer:		0
Call Forward Delay for No Answer:	5 (0~120)second(s) 📀	Transfer Timeout:	0 second(s)	0
Conference Type:	Local 💌 🕜	Server Conference Number:		0
Subscribe For Voice Message:		Voice Message Number:		0
Voice Message Subscribe Period:	3600 (60~999999)second(s)	Enable Hotline:		
Hotline Delay:	0 (0~9)second(s) 🕜	Hotline Number:		0
Dial Without Registered:	. 0	Enable Missed Call Log:	R 0	
DTMF Type:	AUTO 💌 🥝	DTMF SIP INFO Mode:	Send 10/11 🗨 🕜	
Request With Port:		Enable DND:		
Use STUN:	0	Use VPN:		
Enable Failback:	☑ ?	Signal Failback:		

Picture 6 - Hotline set up on webpage



9 Advance Function

9.1 Intercom

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

	Features	Media Settings	MCAST	Action	Time/Date	Tone]
> System							
> Network	Basic Settings	>>					
	Tone Settings 2	>>					
> Line	Intercom Settin	ngs >>					
	Enable Int	ercom:	0	Enable	e Intercom Mute:		
Phone settings	Enable Int	ercom Tone:	0	Enable	e Intercom Barge:		
> Phonebook	Response Code	Settings >>					
	Password Dial	Settings >>					
> Call logs	Power LED >>						
> Function Key				Apply			
> Security							
> Device Log							

Picture 7 - Web Intercom configure

Table	3 -	Intercom	configure
-------	-----	----------	-----------

Paramete	ər	Description
Enable In	tercom	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 intersem cell
Mute		Enable mute mode during the intercom call
Enable	Intercom	If the incoming call is intercom call, the phone plays the intercom tang
Tone		If the incoming call is intercom call, the phone plays the intercom tone
Enable	Intercom	Enable Intercom Barge by selecting it, the phone auto answers the intercom
		call during a call. If the current call is intercom call, the phone will reject the
Barge		second intercom call

9.2 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.

9.3 Message

9.3.1 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. The user will be notified of the server voice message and the status of the power lamp.

	Function Key	Speed Dial Li	st				
> System							
	Key	Туре	Name	Value	Subtype	Line	PickUp Number
> Network	DSS Key 1	Memory Key 💌	123	*97	Speed Dial	4387@SIP1	
 Line Phone settings 							
> Phonebook							
› Call logs							
> Function Key							

Picture 8 - New Voice Message Notification

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



10 Phone Settings

10.1 Basic Settings

10.1.1 Language

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

• 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	Logout (admir
— H2U —			中文	🖾 Keep Online
	SIP SIP Hotspot	Dial Plan Basic Settings	Русский	
	SIP Hotspor	blai Plan Basic Settings	Italiano	
			Deutsch	
> System			Français עברית	OTE
			Español	
> Network	No Registration		Català	escription:
	SIP Hotspot Settings		Euskera	ptspot feature settings.
> Line			Galego	ot client as the stension of a hot server
Eine	Enable Hotspot:	Disabled 💌	💜 Türkçe	nd to connect to the
	Mode:	Client 💌	Magyar	ot server side, When the server side has an
› Phone settings	Monitor Type:	Broadcast 💌	Slovenian	coming call, the client
	Monitor Address:	224.0.2.0	0	will ring at the same time, and can replace
> Phonebook	Local Port:	16360	0	server to answer. The
	Name:	SIP Hotspot	0	server and the client can use the hot cornet to call
		Lacourse of Lacour		use the not cornet to call

Picture 9 - 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.

10.2 Function Key

The device has a total of 11 configurable custom function keys;One direct call foreground key and 10 custom digital speed dial keys.

Device direct call key, default configuration as a fixed number;(customizable replacement)

0~9 numeric keys can be used as customized shortcut keys, users can customize the configuration of 0~9 numeric keys in the web page, users can quickly dial the corresponding number by long press each shortcut key.

The DSS Key could be configured as followings,

- Memory Key
 - Speed Dial/Intercom/BLF/Presence/Call Park/Call Forward (to someone)



- DTMF
- Action URL
- MCAST Paging

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

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>11.26</u> Function Key and <u>6.3 Appendix I - LED</u> Definition.



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 BASIC NETWORK: NETWORK 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

web interface: log into the phone web page and enter the [system] >> [upgrade] page.

	Current Software Version:	T1.3.5		
	System Image File:		Select	Upgrade
Jpgrade Serve	r			
	Enable Auto Upgrade:			
	Upgrade Server Address1:			
	Upgrade Server Address2:			
	Update Interval:	24	hour	
		Apply		
irmware Info	rmation			
	Current Software Version:	T1.3.5		
	Server Firmware Version:			
	Upgrade			
	New Firmware Information:			

Picture 10 - Web page firmware upgrade

Table 4 - Firmware upgrade

Parameter	Description
Upgrade server	
	Enable automatic upgrade, If there is a new version txt and new
Enable Auto Upgrade	software firmware on the server, phone will show a prompt upgrade
	message after Update Interval.



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

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

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.

11.6 System >> Auto Provision

Page interface: log into the phone page and enter the [system] >> [automatic deployment] page.

Autoprovision Now >>			
Static Provisioning Server >>			
SIP Plug and Play (PnP) >>			
DHCPv6 Option >>			
DHCP Option >>			
Enable Server Digest:			0
Download CommonConfig enabled:			
Save Auto Provision Information:			0
Update Contact Interval:	720	(0,>=5)minute(s)	0
Download Fail Check Times:	5		
General Configuration File Encryption Key:			0
Configuration File Encryption Key:	-		0
Authentication Password:			0
Authentication Name:			0
CPE Serial Number:	00100400FV0	200100000c383e45f468	0
Basic Settings			

Picture 11 - 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

Picture .	12 - Auto	Provision
-----------	-----------	-----------

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



General Configuration File	If the common configuration file is encrypted, user should add the		
Encryption Key	encryption key here		
Download Fail Check	If there download is failed, phone will retry with the configured times.		
Times			
Update Contact Interval	Phone will update the phonebook with the configured interval time. If it is 0,		
	the feature is disabled.		
Save Auto Provision	Save the HTTP/HTTPS/FTP user name and password. If the provision		
Information	URL is kept, the information will be kept.		
Download Common	Whether phone will download the common configuration file.		
Config enabled			
Enable Server Digest	When the feature is enable, if the configuration of server is changed,		
	phone will download and update.		
DHCP Option			
	Confiugre DHCP option, DHCP option supports DHCP custom option		
Option Value	DHCP option 66 DHCP option 43, 3 methods to get the provision URL.		
	The default is Option 66.		
Queter Option Value	Custom Option value is allowed from 128 to 254. The option value must be		
Custom Option Value	same as server define.		
Enable DHCP Option 120	Use Option120 to get the SIP server address from DHCP server.		
SIP Plug and Play (PnP)			
	Whether enable PnP or not. If PnP is enable, phone will send a SIP		
Enable SIP PnP	SUBSCRIBE message with broadcast method. Any server can support the		
	feature will respond and send a Notify with URL to phone. Phone could get		
	the configuration file with the URL.		
Server Address	Broadcast address. As default, it is 224.0.0.0.		
Server Port	PnP port		
Transport Protocol	PnP protocol, TCP or UDP.		
Lindata Interval			
Update Interval	PnP message interval.		
Static Provisioning Serve			
Static Provisioning Serve			
· ·	r		
Static Provisioning Serve	r Provisioning server address. Support both IP address and domain		
Static Provisioning Serve	r Provisioning server address. Support both IP address and domain address.		
Static Provisioning Serve	r Provisioning server address. Support both IP address and domain address. The configuration file name. If it is empty, phone will request the common		
Static Provisioning Serve	 r Provisioning server address. Support both IP address and 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 address. 		
Static Provisioning Serve	 r Provisioning server address. Support both IP address and 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 address. The file name could be a common name, \$mac.cfg, \$input.cfg. The file 		
Static Provisioning Serve Server Address Configuration File Name Protocol Type	 r Provisioning server address. Support both IP address and 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 address. The file name could be a common name, \$mac.cfg, \$input.cfg. The file format supports CFG/TXT/XML. 		
Static Provisioning Serve	 r Provisioning server address. Support both IP address and 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 address. The file name could be a common name, \$mac.cfg, \$input.cfg. The file format supports CFG/TXT/XML. Transferring protocol type , supports FTP、TFTP、HTTP and HTTPS 		



	Provision Mode.			
Lindata Mada	1. Disabled.			
Update Mode	2. Update after reboot.			
	3. Update after interval.			
TR069				
Enable TR069	Enable TR069 after selection			
ACS Server Type	There are 2 options Serve type, common and CTC.			
ACS Server URL	ACS server address			
ACS User	ACS server username (up to is 59 character)			
ACS Password	ACS server password (up to is 59 character)			
Enable TR069 Warning	If TR069 is enabled, there will be a prompt tone when connecting.			
Tone				
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			

11.7 System >> Tools

This page provides tools for users to resolve problems.

• Syslog

Can choose the log level, export the system log; In order to analyze the problem in case of failure.

- Web Capture Grab packets from network data to analyze problems in case of failure
- Watch Dog

When the device is stuck while in use, it will automatically restart and recover.

• Ping

Check the destination IP address to be reached and record the result, showing whether the destination is responding and how long it takes to receive the reply.



11.8 System >> Reboot Phone

This page can restart the phone.

11.9 Network >> Basic

The phone only supports wired network connections. The phone USES an IP network connection to provide services. Unlike traditional telephony based on circuit technology, IP telephony exchanges packets and data over a network based on the IP address of the telephony.

To enable the phone, the network configuration must be configured correctly;The default network mode of the device is DHCP/IPv4.The client wants to modify the other modes and needs to go to the device's web configuration interface. Web interface: [network] >> [basic] select network mode

Network Mode:	IPv4 Only		
Pv4 Network Status			
IP:	172.16.12.104		
Subnet mask:	255.255.255.0		
Default gateway:	172.16.12.1		
MAC:	0c:38:3e:45:f4:68		
Pv4 Settings			
Static IP 🔘	DHCP ()	PPPoE	
Enable Vendor Identifier:	Disabled 💌		0
Vendor Identifier:	VOIP H2U		0
DNS Server Configured by:	DHCP		0
Primary DNS Server:	223.5.5.5		0
Secondary DNS Server :	114.114.114		0
DNS Domain:			0

Picture 13 - Network mode Settings

IP Mode

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

■ IPv4



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

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

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

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.

■ Pv6

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.

11.10 Network >> Service Port

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



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

Picture 14 - Service Port Settings

Table 5 - Servic	e port
------------------	--------

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

11.11 Network >> VPN

Virtual Private Network (VPN) is a technology to allow device to create a tunneling connection to a server and becomes part of the server's network. The network transmission of the device may be routed through the VPN server. For some users, especially enterprise users, a VPN connection might be required to be



established before activate a line registration. The device supports two VPN modes, Layer 2 Transportation Protocol (L2TP) and OpenVPN.

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

■ L2TP

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

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

When the VPN connection established, the VPN IP Address should be displayed in the VPN status. There may be some delay of the connection establishment. User may need to refresh the page to update the status.

Once the VPN is configured, the device will try to connect with the VPN automatically when the device boots up every time until user disable it. Sometimes, if the VPN connection does not establish immediately, user may try to reboot the device and check if VPN connection established after reboot.

OpenVPN

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

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

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

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

11.12 Network >> Advanced

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

Picture 15 - QoS & VLAN

11.13 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

Table 6 - Line configuration	on the web page
------------------------------	-----------------



	refresh the page manually.
Activate	Whether the service of the line is activated
Username	Enter the username of the service account.
Authentication User	Enter the authentication user of the service account
Display Name	Enter the display name to be sent in a call request.
Authentication Password	Enter the authentication password of the service account
Realm	Enter the SIP domain if requested by the service provider
Server Name	Input server name.
SIP Server 1	· · · · · · · · · · · · · · · · · · ·
Server Address	Enter the IP or FQDN address of the SIP server
Server Port	Enter the SIP server port, default is 5060
Transport Protocol	Set up the SIP transport line using TCP or UDP
	or TLS.
Registration Expiration	Set SIP expiration date.
SIP Server 2	
Server Address	Enter the IP or FQDN address of the SIP server
Server Port	Enter the SIP server port, default is 5060
Transport Protocol	Set up the SIP transport line using TCP or UDP or TLS.
Registration Expiration	Set SIP expiration date.
SIP Proxy Server Address	Enter the IP or FQDN address of the SIP proxy server.
Proxy Server Port	Enter the SIP proxy server port, default is 5060.
Proxy User	Enter the SIP proxy user.
Proxy Password	Enter the SIP proxy password.
Backup Proxy Server Address	Enter the IP or FQDN address of the backup proxy server.
Backup Proxy Server Port	Enter the backup proxy server port, default is 5060.
Basic Settings	
Enable Auto Answering	Enable auto-answering, the incoming calls will
	be answered automatically after the delay time
Auto Answering Delay	Set the delay for incoming call before the system



	automatically answered it
Call Forward Unconditional	Enable unconditional call forward, all incoming
	calls will be forwarded to the number specified in
	the next field
Call Forward Number for Unconditional	Set the number of unconditional call forward
Call Forward on Busy	Enable call forward on busy, when the phone is
	busy, any incoming call will be forwarded to the
	number specified in the next field.
Call Forward Number for Busy	Set the number of call forward on busy .
Call Forward on No Answer	Enable call forward on no answer, when an
	incoming call is not answered within the
	configured delay time, the call will be forwarded
	to the number specified in the next field.
Call Forward Number for No Answer	Set the number of call forward on no answer.
Call Forward Delay for No Answer	Set the delay time of not answered call before
	being forwarded.
Transfer Timeout	Set the timeout of call transfer process.
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
	Set the feature code to dial to the server



Call Waiting Off Code	Set the feature code to dial to the server
Send Anonymous On Code	Set the feature code to dial to the server
Send Anonymous Off Code	Set the feature code to dial to the server
SIP Encryption	Enable SIP encryption such that SIP
	transmission will be encrypted
RTP Encryption	Enable RTP encryption such that RTP
	transmission will be encrypted
Enable Session Timer	Set the line to enable call ending by session
	timer refreshment. The call session will be
	ended if there is not new session timer event
	update received after the timeout period
Session Timeout	Set the session timer timeout period
Enable BLF List	Enable/Disable BLF List
BLF List Number	BLF List allows one BLF key to monitor the
	status of a group. Multiple BLF lists are
	supported.
Response Single Codec	If setting enabled, the device will use single
	codec in response to an incoming call request
BLF Server	The registered server will receive the
	subscription package from ordinary application
	of BLF phone.
	Please enter the BLF server, if the sever does
	not support subscription package, the registered
	server and subscription server will be separated.
Keep Alive Type	Set the line to use dummy UDP or SIP OPTION
	packet to keep NAT pinhole opened
Keep Alive Interval	Set the keep alive packet transmitting interval
Keep Authentication	Keep the authentication parameters from
	previous authentication
Blocking Anonymous Call	Reject any incoming call without presenting
	caller ID
User Agent	Set the user agent, the default is Model with
	Software Version.
Specific Server Type	Set the line to collaborate with specific server
	type
SIP Version	Set the SIP version
Anonymous Call Standard	Set the standard to be used for anonymous
Local Port	Set the local port



Ring Type	Set the ring tone type for the line
Enable user=phone	Sets user=phone in SIP messages.
Use Tel Call	Set use tel call
Auto TCP	Using TCP protocol to guarantee usability of
	transport for SIP messages above 1500 bytes
Enable Rport	Set the line to add rport in SIP headers
Enable PRACK	Set the line to support PRACK SIP message
DNS Mode	Select DNS mode, A, SRV, NAPTR
Enable Long Contact	Allow more parameters in contact field per RFC
	3840
Enable Strict Proxy	Enables the use of strict routing. When the
	phone receives packets from the server, it will
	use the source IP address, not the address in
	via field.
Convert URI	Convert not digit and alphabet characters to
	%hh hex code
Use Quote in Display Name	Whether to add quote in display name, i.e.
	"Fanvil" vs Fanvil
Enable GRUU	Support Globally Routable User-Agent URI
	(GRUU)
Sync Clock Time	Time Sync with server
Enable Inactive Hold	With the post-call hold capture package
	enabled, you can see that in the INVITE
	package, SDP is inactive.
Caller ID Header	Set the Caller ID Header
Use 182 Response for Call waiting	Set the device to use 182 response code at call
	waiting response
Enable Feature Sync	Feature Sync with server
Enable SCA	Enable/Disable SCA (Shared Call Appearance)
CallPark Number	Set the CallPark number.
Server Expire	Set the timeout to use the server.
TLS Version	Choose TLS Version.
uaCSTA Number	Set uaCSTA Number.
Enable Click To Talk	With the use of special server, click to call out
	directly after enabling.
Flash mode	Chose Flash mode, normal or SIP info.
Flash Info Content-Type	Set the SIP info content type.
//	



PickUp Number	Set the scramble number when the Pickup is
	enabled.
JoinCall Number	Set JoinCall Number.
Intercom Number	Set Intercom Number.
Unregister On Boot	Whether to enable logout function.
Enable MAC Header	Whether to open the registration of SIP package
	with user agent with MAC or not.
Enable Register MAC Header	Whether to open the registration is user agent
	with MAC or not.
BLF Dialog Strict Match	Whether to enable accurate matching of BLF
	sessions.
PTime(ms)	Set whether to bring ptime field, default no.
SIP Global Settings	
Strict Branch	Set up to strictly match the Branch field.
Enable Group	Set open group.
Enable RFC4475	Set to enable RFC4475.
Enable Strict UA Match	Enable strict UA matching.
Registration Failure Retry Time	Set the registration failure retry time.
Local SIP Port	Modify the phone SIP port.
<u>.</u>	1

11.14 Line >> SIP Hotspot

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

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

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



Line 258@SIP1	•				
Register Settings >>					
Line Status:	Registered		Activate:	☑ 🕜	
Username:	258	0	Authentication User:		0
Display name:	258	0	Authentication Password:		0
Realm:		0	Server Name:		0
SIP Server 1: Server Address: Server Port: Transport Protocol: Registration Expiration:	172.16.1.2 5060 UDP	0 0 0	SIP Server 2: Server Address: Server Port: Transport Protocol: Registration Expiration:	5060 UDP 💌 🥝 3600 second(s)	000000000000000000000000000000000000000
Proxy Server Address:		0	Backup Proxy Server Address:		0
Proxy Server Port:	5060	0	Backup Proxy Server Port:	5060	0
Proxy User:		0			
Proxy Password:		0			

Picture 16 - Register SIP account

Table 7 - SIP hotspot Parameters

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

Configure SIP hotspot server:



IP	MAC	Alias	Line	
172.16.7.224	00:01:05:06:07:a2	1	1	
IP Hotspot Settings				
Enable Hotspot:	Enabled		0	
Mode:	Hotapot 💌		0	
Monitor Type:	Broadcast 💌		0	
Monitor Address:	224.0.2.0			
Local Port:	16360		0	
Name:	5JP Hotspot		0	
ine Settings				
Line 1:	Enabled 💌			
Line 2:	Enabled 💌			

Picture 17 - 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.

1P	Server name		Online Status	Connection Status	Akas	Line	
172.16.7.224	SIP Hotspot		OnLine	Connected	1	0	Disconnec
IP Hotspot Settings							
Enable Hotspot:	(e	vabled 💌					0
Mode:	C	lent 💌					0
Monitor Type: Broadcas			-				0
Monitor Address: [224.0.		4.0.2.0					0
Local Port:	1	360					0
Name:	5	P Hotspot					0
ine Settings							
Line 1:	E	nabled 💌					
Line 2:	6	abled 🙀					

Picture 18 - 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.



11.15 Line >> Dial Plan

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

Picture 19 - 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

Add dialing rules:



Digit Map: Apply to C Line:		Call 💌 🕜 EER 💌	0	Match to Send: Destination	No 💌 🕜	0	Port:	@
Alias(Optio	onal): No Alias	No Alias 💌 🥝	0	Phone Number:		0	Length:	0
Plan Optio	on 🥝				Add			
				Delete	e Modify			
r-defined D	ial Plan Table	0						

Picture 20 - 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 matched. It may be a range, a list of ranges separated by commas, or a list of digits.

Destination	Set Destination address. This is for IP direct.
Port	Set the Signal port, and the default is 5060 for
	SIP.
Alias	Set the Alias. This is the text to be added,
	replaced or deleted. It is an optional item.

Note: There are four types of aliases.

- all: xxx xxx will replace the phone number.
- add: xxx xxx will be dialed before any phone number.
- del –The characters will be deleted from the phone number.
- rep: xxx xxx will be substituted for the specified characters.



Suffix	Characters to be added at the end of the phone
	number. It is an optional item.
Length	Set the number of characters to be deleted. For
	example, if this is set to 3, the phone will delete
	the first 3 digits of the phone number. It is an
	optional item.

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

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

Inday	Dialt Man	Call	Match to Send	Line	Alias Type:Number(length)	Cuffly Mad
nucex	Lugic Map	Call	match to send	Line	Anas Type:number(tength)	Sumx Medi

Picture 21 - Dial rules table (1)

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

Index	Digit Map	Call	Match to Send	Line	Alias Type:Number(length)	Suffix	Media
-------	-----------	------	---------------	------	---------------------------	--------	-------

Picture 22 - Dial rules table (2)

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

x -- Matches any single digit that is dialed.

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



11.16 Line >> Basic Settings

Set up the register global configuration.

Table 10 -	Set the line	o alahal	configuration	on the web page	,
<i>Iuble 10</i> -	Sei me ime	giovai	conjiguration	on the web puge	2

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

11.17 Phone settings >> Features

Configuration phone features.

Parameters	Description
Basic Settings	
Enable Call Waiting	Enable this setting to allow user to take second
	incoming call during an established call. Default
	enabled.
Enable Call Transfer	Enable Call Transfer.
Semi-Attended Transfer	Enable Semi-Attended Transfer by selecting it
Enable 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

 Table 11 - General function Settings



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



	the keyboard is locked, you can dial the emergency call number		
Restrict Active URI Source IP	Set the device to accept Active URI command from specific IP address. More details please refer to this link		
Push XML Server	Configure the Push XML Server, when phone receives request, it will determine whether to display corresponding content on the phone which sent by the specified server or not.		
Enable Pre-Dial	Disable this feature, user enter number will open audio channel automatically. Enable the feature, user enter the number without opening audio channel.		
Enable Multi Line	If enabled, up to 10 simultaneous calls can exist on the phone, and if disabled, up to 2 simultaneous calls can exist on the phone.		
Line Display Format	Custom line format: SIPn/SIPn: xxx/xxx@SIPn		
Contact As White List Type	NONE/BOTH/DND White List/FWD White List		
Block XML When Call	Disable XML push on call.		
SIP notify	When enabled, the phone displays the information when it receives the relevant notify content.		
Tone Settings			
Enable Holding Tone	When turned on, a tone plays when the call is held		
Enable Call Waiting Tone	When turned on, a tone plays when call waiting		
Play Dialing DTMF Tone	Play DTMF tone on the device when user pressed a phone digits at dialing, default enabled.		
Play Talking DTMF Tone	Play DTMF tone on the device when user pressed a phone digits during taking, default enabled.		
DND Settings			
DND Option	Select to take effect on the line or on the phone or close.		
Enable DND Timer	Enable DND Timer, If enabled, the DND is automatically turned on from the start time to the		



	off time.		
DND Start Time	Set DND Start Time		
DND End Time	Set DND End Time		
Intercom Settings			
Enable Intercom	When intercom is enabled, the device will accept the incoming call request with a SIP header of Alert-Info instruction to automatically answer the call after specific delay.		
Enable Intercom Mute	Enable mute mode during the intercom call		
Enable Intercom 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.		
SMS/MWI	The status of power lamp when there is unread short message/voice message, including		



	off/on/slow flash/quick flash, default slow flash.		
	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		
Mute	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.		

11.18 Phone settings >> Media Settings

Change voice Settings.

Table 12 - Voice settings

Parameter	Description
Codecs Settings	Select enable or disable voice encoding:
	G.711A/U,G.722,G.729,
	G.726-16,G726-24,G726-32,G.726-40,
	ILBC, Opus
Audio Settings	
Handset Volume	Set the Handset volume, the value must be 1~9
Default Ring Type	Configure default ringtones. If no special ringtone
	is set for the phone number, the default ringtone
	will be used.
Speakerphone Volume	Set the hands-free volume to 1-9.
Headset Ring Volume	Set the volume of the earphone ringtone to 1~9.
Headset Volume	Set the volume of the headset to 1~9.
Speakerphone Ring Volume	Set the volume of hands-free ringtone to 1~9.
G.723.1 Bit Rate	5.3kb/s or 6.3kb/s is available.
DTMF Payload Type	Enter the DTMF payload type, the value must be



	96~127.		
AMR Payload Type	Set AMR load type, range 96~127.		
Headset Mic Gain	Set the earphone's radio volume gain to fit		
	different models of earphones.		
Opus 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 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	S		
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		

11.19 Phone settings >> MCAST

Using the multicast function, we can simply and conveniently send the announcement to each member of the multicast, and send the multicast RTP stream to the preconfigured multicast address by setting the multicast key on the phone.Listen for and play the RTP stream sent from the multicast address by configuring the listening multicast address on the phone.



Priority:		1			
Enable Page Priority:					
Enable Prio Chan:					
Enable Emer Chan:					
Index/Priority	Nam	ie	Host:port	Cha	annel
1				0	1.
2				0	E.
з				0	1.
4				0	E.
5				0	
6				0	
7				0	
8				0	
9				0	
10				0	
		Apply			
CAST Dynamic					
Auto Exit Expires:		60 Apply			
Index	Priority	MCAST Ip		Port	

Picture 23 - MCAST

Table 13 - Multicast parameters

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

11.20 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.

11.21 Phone settings >> Time/Date

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



Time Synchronized via SNTP	V	
Time Synchronized via DHCP		
Time Synchronized via DHCPv6		
Primary Time Server	0.pool.ntp.org	
Secondary Time Server	time.nist.gov	
Time zone	(UTC+8) Beijing,Sin	gapore, Perth, Irkut 👻
Resync Period	60	second(s)
ime/Date Format		
12-hour clock		
Time/Date Format	DD MMM WW	✓ 26日 APR SUN
aylight Saving Time Settings	None	
	Disabled	
	Disabled	
DST Set Type	Apply	
DST Set Type lanual Time Settings	Apply	

Picture 24 - Time/Date

Table 14 - Time&Date settings

Parameters	Description	
Network Time Server Settings		
Time Synchronized via SNTP	Enable time-sync through SNTP protocol	
Time Synchronized via DHCP	Enable time-sync through DHCP protocol	
Primary Time Server	Set primary time server address	
Secondary Time Server	Set secondary time server address, when	
	primary server is not reachable, the device will	
	try to connect to secondary time server to get	
	time synchronization.	
Time Zone	Select the time zone	
Resync Period	Time of re-synchronization with time server	
12-Hour Clock	Set the time display in 12-hour mode	
Date Format	Select the time/date display format	
Daylight Saving Time Settings		
Local	Choose your local, phone will set daylight saving	
	time automatically based on the local	
DST Set Type	Choose DST Set Type, if Manual, you need to	
	set the start time and end time.	
Fixed Type	Daylight saving time rules are based on specific	



	dates or relative rule dates for conversion.
	Display in read-only mode in automatic mode.
Offset	The offset minutes when DST started
Month Start	The DST start month
Week Start	The DST start week
Weekday Start	The DST start weekday
Hour Start	The DST start hour
Minute Start	The DST start minute
Month End	The DST end month
Week End	The DST end week
Weekday End	The DST end weekday
Hour End	The DST end hour
Minute End	The DST end minute
Manual Time Settings	You can set your time manually

11.22 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 25 - Tone settings on the web



11.23 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.

Restricted Outgoing Calls:

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

11.24 Phonebook >> Web Dial

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

11.25 CallLog

The phone can store up to 600 call records, 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. The user can delete the call records by pressing the delete button, or select all the call records by exporting

11.26 Function Key >> Function Key

Table 15 - Function Key configuration



Parameters	Description
Memory Key	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.
DTMF	It allows user to dial or edit dial number easily.
Multicopt	Configure the multicast address and audio codec. User presses
Multicast	the key to initiate the multicast.
Action URL	The user can use a specific URL to make basic calls to the phone.

11.27 Function Key >> Speed Dial List

The user can configure the number button "0~9" to be the speed dial key. After the configuration is completed according to the figure below, the user can press the configured shortcut key for the phone to quickly dial the configuration number.Can more quickly and conveniently exhale, eliminating the need to dial, check the number of the trouble.

11.28 Security >> Web Filter

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

Fanvil			English
	Web Filter Trust Certificates Device	Certificates Firewall	
> System			
> Network	Web Filter Table 🥝		
› Line	Start IP Address 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			L
> Security			
> Device Log			



Picture 26 - Web Filter settings

tart IP Address	End IP Address	Option
92.168.1.1	192.168.254.254	Modify

Picture 27 - Web Filter Table

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

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

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

11.29 Security >> Trust Certificates

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

You can upload and delete uploaded certificates.



Fanvil					English
— н20 —					
	Web Filter Trust Certifica	tes Device Certificates	Firewall		
› System					
› Network	Permission Certificate				
> Line	Permission Certificate Common Name Validation		• •		
› Phone settings	Certificate mode	All Certificates	. 0		
> Phonebook	Import Certificates 📀	- Table 1			
> Call logs	Load Server File		Select Upload		
› Function Key	Certificates List 📀				
> Application	Index File Name	Issued To	Issued By	Expiration	File Size
> Security					
› Device Log					

Picture 28 - Certificate of settings

11.30 Security >> Device Certificates

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

Device Certificates	Default Certificates	(existence)	
	Default Certificates		
	Custom Certificates		
Import Certificates 🕜		Select Upload	
Load Server File		Select Upload	
		Select Upload	

Picture 29 - Device certificate setting



11.31 Security >> Firewall

Fanvil		English
	Web Filter Trust Certificates Device Certificates Firewall	
› System		
> Network	Firewall Type 🔮	
> Line	Apply	
› Phone settings	Firewall Input Rule Table 📀	
> Phonebook	Index Deny/Permit Protocol Src Address Src Mask Src Port Range Dst Address Dst Mask	Dst Port Range
> Call logs	Firewall Output Rule Table 📀 IndexDeny/Permit Protocol Src Address Src Mask Src Port Range Dst Address Dst Mask	Dst Port Range
> Function Key	Firewall Settings 🤣	
Application	Input/Output Input Src Address Dst Address Deny/Permit Deny Src Mask Dst Mask	Add
> Security	Protocol UDP 💌 Src Port Range	
> Device Log	Rule Delete Option Input Input/Output Input Index To Be Deleted	Delete

Picture 30 - 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:

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.			
Den //Dermit	To select whether the current rule configuration is disabled			
Deny/Permit	or allowed;			
Drotocol	There are four types of filtering protocols: TCP UDP			
Protocol	ICMP IP.			

Table 16 - Network Firewall	Table	16 -	Network	Firewall
-----------------------------	-------	------	---------	----------



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				
DSLIVIDSK	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:

(墙输入)	规则列表 🕜							
序号	禁止/允许	协议类型	源地址	源子网掩码	源端口范围	目的地址	目的子网掩码	目的端口范围
1	deny	udp	192.168.1.14	255.255.255.0	5060-5061	192.168.1.18	255.255.255.0	5060-506

Picture 31 - Firewall Input rule table

Then select and click the button [Apply].

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

规则删除 🕜				
	输入/输出	输入 💌	要删除序号	删除

Picture 32 - Delete firewall rules

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



11.32 Device Log >> Device Log

You can grab the device log, and when you encounter an abnormal problem, you can send the log to the technician to locate the problem. See <u>12.5 Get log information</u>.



12 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.

12.1 Get Device System Information

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

The network information

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

12.2 Reboot Device

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

12.3 Reset Device to Factory Default

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

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



	Information	Account	Configurations	Upgrade	Auto Provision	Tools	Reboot Phone
> System	Export Configura	itions 🐨	Dight slide be	e to CAVE confin	urations in 'txt' format.		
					figurations in 'txt' form		
> Network			Right click he	re to SAVE config	urations in 'xml' format		
› Line	Import Configura	ations 🕜	Configuration	ı file:	Select	Imp	ort
> Phone settings	Clear Configurat	ion >> 🕜					
> Phonebook	Clear Tables >>	0					
> Call logs	Reset Phone >>	0	Click "Re	set" button to re	set the phone!		
> Function Key				Reset			
> Security							
> Device Log							

Picture 33 - Reset

12.4 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.



🔞 Mozilla Firefox	O STEWARD					⊠ ☆	Q、搜索
Q about:blank		Ξ	台 🔸 TestLink测试用例	🕑 task 🌖	3cx服务器 🚺 fortine	et服务器 🔘 网	段账号信息 [
		- 1	Configurations	Upgrade	Auto Provision	Tools	Re
			0.0.0.0				
等待 172.16.7.227			Error				
apid Trandorizzoni			Apply				
> Phonebook	Export Log		(hpp)				
> Call logs	Export Log		Export Log]			
	Web Capture						
› Function Key	Start		Stop				
> Application	Screenshot						
	Main Screen:		Main Scn				
> Security	Watch Dog						
> Device Log	Enable Watch [)og:					
			Apply				

Picture 34 - Web capture

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

12.5 Get Log Information

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

12.6 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.
Device could not register to a	1. Please check if device is well connected to the network. The
service provider	network Ethernet cable should be connected to the 💼
	[Network] port NOT the 🖳 [PC] port.
	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 " <u>13.5 Network Packet Capture</u> " to get the network
	packet capture of registration process and send it to Fanvil
	support to analyze the issue.
No Audio or Poor Audio in	1. Please check if Handset is connected to the correct Handset (
Handset	port NOT Headphone (🎧) port.
	2. The network bandwidth and delay may be not suitable for audio
	call at the moment.
Poor Audio or Low Volume in	1. There are two Headphone wire sequence in the market. Please
Headphone	use the Headphone provided by Fanvil, or consult Fanvil the wire
	sequence if you wish to use a third-party headphone.
	2. The network bandwidth and delay may be not suitable for audio
	call at the moment.
Audio is chopping at far-end	This is usually due to loud volume feedback from speaker to
in Hands-free speaker mode	microphone. Please lower down the speaker volume a little bit, the
	chopping will be gone.
L	1