



A12V User Manual

Software Version:

Release Date:



Directory

Directory	2
1 Picture	4
2 Table	6
3 Safety Instruction	7
4 Overview	
5 Install Guide	9
5.1 Use POE or external Power Adapter	
5.2 Appendix	
5.2.1 Common command modes	
5.2.2 Function key LED status	
6 User Guide	
6.1 Panel Overview	
6.2 Interface description	
6.3 Device IP Address	
6.4 WEB configuration	
6.5 SIP Configurations	
6.6 Volume setting	
7 Basic Function	18
7.1 Making Calls	18
7.2 Answering Calls	18
7.3 End of the Call	18
7.4 Auto Answer	18
7.5 Call Waiting	20
8 Advance Function	21
8.1 Intercom	21
8.2 MCAST	21
8.3 Hotspot	23
9 Web Configurations	25
9.1 Web Page Authentication	25
9.2 System >> Information	
9.3 System >> Account	26
9.4 System >> Configurations	26
9.5 System >> Upgrade	27
9.6 System >> Auto Provision	29



	9.7 System >> Tools	32
	9.8 Network >> Basic	33
	9.9 Network >> service port	34
	9.10 Network >>VPN	36
	9.11 Network >> Advanced	38
	9.12 LINES >> SIP	39
	9.13 Line >> SIP Hotspot	45
	9.14 Line >> Basic Settings	45
	9.15 Intercom settings >> Features	47
	9.16 Intercom settings >> media	49
	9.17 Intercom settings>>Camera Settings	50
	9.18 Intercom Setting >> MCAST	56
	9.19 Intercom Setting >> Action URL	56
	9.20 Intercom Setting >> Time/Date	57
	9.21 Intercom settings>>Time plan	58
	9.22 Security settings	59
	9.23 Security Settings	63
	9.24 Call list >> Call List	64
	9.25 Snap log	64
	9.26 Call Button	65
	9.27 Security >> Web filter	69
	9.28 Security >> Trust Certificates	70
	9.29 Security >> Device Certificates	70
	9.30 Security >> Firewall	71
	9.31 Device log	73
10 T	Frouble Shooting	74
	10.1 Get device system information	74
	10.2 Reboot device	
	10.3 Device factory reset	
	10.4 Network Packets Capture	
	10.5 Get device log	
	10.6 Common Trouble Cases	



1 Picture

Picture 1 - Panel	11
Picture 2 - Interface	12
picture 3 - WEB Login	15
picture 4 - SIP Line Configuration	16
Picture 5 - Volume Set	17
Picture 6 - Call Button Settings	18
Picture 7 - WEB line enable auto answer	19
Picture 8 - Enable auto answer for IP calls	19
Picture 9 - Call Waiting	20
Picture 10 - Call Waiting tone	20
Picture 11 - WEB Intercom	21
Picture 12 - MCAST	22
Picture 13 - SIP hotspot	24
Picture 14 - WEB Account	26
Picture 15 - System Setting	26
Picture 16 - Upgrade	27
Picture 17 - Web page firmware upgrade	28
Picture 18 - Auto provision settings	30
Picture 19 - Tools	33
Picture 20 - Network Basic Setting	33
Picture 21 - Service port setting interface	35
Picture 22 - Network VPN	36
Picture 23 - Network Setting	38
Picture 24 - SIP	41
Picture 25 - Basic Settings	46
Picture 26 - Line Basic Setting	46
Picture 27 - Feature	47
Picture 28 - Media Settings	49
Picture 29 - Camera Settings	52
Picture 30 - Action URL	56
Picture 31 - Time/Date	57
Picture 32 - Time Plan	58
Picture 33 - Security Settings	61
picture 34 Humanoid Recognition Trigger	63
Picture 36 - Call Button	65
Picture 37 - Memory Key	68



Picture 38 - Multicast	68
Picture 39 - Advanced Setting	69
Picture 40 - WEB filter	70
Picture 41 - Trust Certificates	70
Picture 42 - Device Certificates	71
Picture 43 - Firewall	71
Picture 44 - Firewall rules list	72
Picture 45 - Delete firewall rules	73



Table

Table 1 - Common command mode	9
Table 2 - Function key LED status	10
Table 3 - Panel introduction	11
Table 4 - Interface	12
Table 5 - Configuration instructions	14
Table 6 - Intercom	21
Table 7 - MCAST	22
Table 8 - SIP Hotspot	23
Table 9 - Firmware upgrade	28
Table 10 - Auto Provision.	30
Table 11 - Network Basic Setting	33
Table 12 - Server Port	35
Table 13 - Network Setting	38
Table 14 - SIP	41
Table 15 - Line Basic Setting	46
Table 16 - Common device function Settings on the web page	47
Table 17 - Audio Settings	49
Table 18 - Camera Settings	52
Table 19 - Action URL	56
Table 20 - Time/Date	57
Table 21 - Time Plan	59
Table 22 - Security Settings	61
Table 23 Humanoid Recognition Trigger settings	63
Table 24 - Call Button	65
Table 25 - Memory Key	68
Table 26 - Web Multicast	68
Table 27 - Web Firewall	71
Table 28 - Trouble Cases	75

3 Safety Instruction

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

- Please use the external power supply that is included in the package. Other power supply
 may cause damage to the phone and affect the behavior or induce noise.
- Before using the external power supply in the package, please check the home power voltage. Inaccurate power voltage may cause fire and damage.
- Please do not damage the power cord. If power cord or plug is impaired, do not use it because it may cause fire or electric shock.
- Do not drop, knock or shake the phone. Rough handling can break internal circuit boards.
- This phone is designed for indoor environment. 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.
- Before using the product, please confirm that the temperature and humidity of the environment meet the working requirements of the product.
- 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

The A12V is a SIP audio/video intercom product developed specifically for the needs of users in the security industry, featuring high reliability, high quality audio/video and other advantages, integrating intelligent security, audio/video intercom and broadcasting functions, with waterproof and dustproof rating of IP66, and vandal-proof rating of IK10, which is suitable for outdoor scenarios, and is able to provide users with high-quality communication and video intercom services.



5 Install Guide

5.1 Use POE or external Power Adapter

A12v 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 both POE switch and external power adapter, A12v will get power supply from POE switch in priority, and change to external power adapter once the POE power supply fails.

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

5.2 Appendix

5.2.1 Common command modes

Table 1- Common command mode

Action behavior	Description		
Standby report IP	In standby mode, long press the Call button for 3 seconds, there		
	will be a toot sound will 5 seconds, please press the Call button		
	once within 5 seconds, the toot sound will stop automatically		
	reporting IP		
	In the standby mode, long-press the Call button for 3 seconds and		
Switch network	the beep will last for 5 seconds. Within 5 seconds, press the Ca		
mode	button three times quickly to switch to the network mode.		
mode	If there is no IP at present, switch to the default static IP		
	(192.168.1.128).		



Then switch to DHCP mode when it is the default static IP
(192.168.1.128)
When DHCP gets to IP, then do not switch and report the IP
directly.
Report the IP after the successful switch.

5.2.2 Function key LED status

Table 2- Function key LED status

Туре	LED	Status
SIP/NET	Normally on	Network normal
	Fast Flashing	Network abnormal

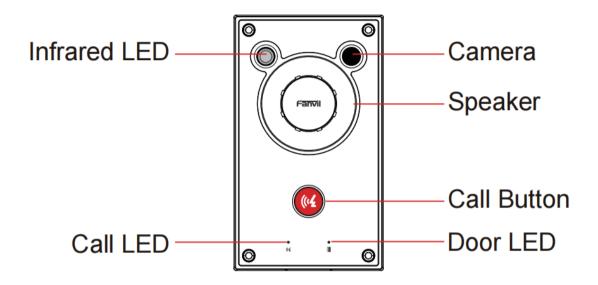
Туре	LED (Red)	Status
SIP/NET	Off	Successfully Registered
	Fast Flashing	Registration failed
	Slow Flashing	In call

Туре	LED (Green)	Status
Output	Normally on	Output Triggered
	Off	Output not triggered



6 User Guide

6.1 Panel Overview



Picture 1 - Panel

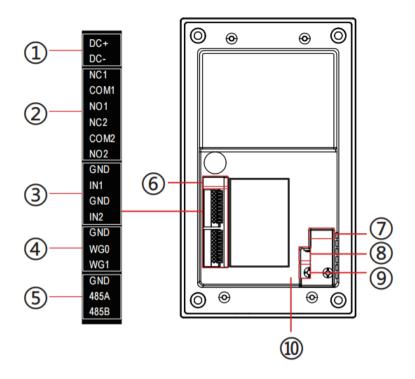
Table 3 - Panel introduction

Number	Name	Description	
1	Speaker	Play sound	
2	Call Button	For speed dial, multicast, intercom, IP broadcast and	
2	Call Bullott	other functions	
3	Call LED	Reflect call status	
4	Door LED	Audio acquisition	
5	Infrared LED	Infrared fill light for night vision	
6	Camera	Video signal acquisition and transmission	

6.2 Interface description

Open the rear case of the device, there is a row of terminal blocks for connecting the power supply, electric lock control, etc. The connection is as follows:





Picture 2 - Interface

Table 4 - Interface

SN	Description	Wiring port description(example
		above)
1	Power interface: 12V/1A input	
		Left (NC): Normally Close
	Two groups of short-circuit output control	Contact
2	interface: used to control electric locks,	Center (COM): Common Contact
	alarms, etc.	Right (NO): Normally Open
		Contact
	Two groups of short-circuit input detection	
	interfaces: for connecting switches, infrared	Loft IN wight OLIT
3	probes, door magnets, vibration sensors and	Left IN, right OUT
	other input devices	
		GND
4	Wiegand interface	WG0: Wiegand data0
		WG1: Wiegand data1
(5)	RS485	GND, RS485-A, RS485-B
6		Relay operating mode:
	4-pin jumper module	External power supply (i.e. the
		relay does not supply external



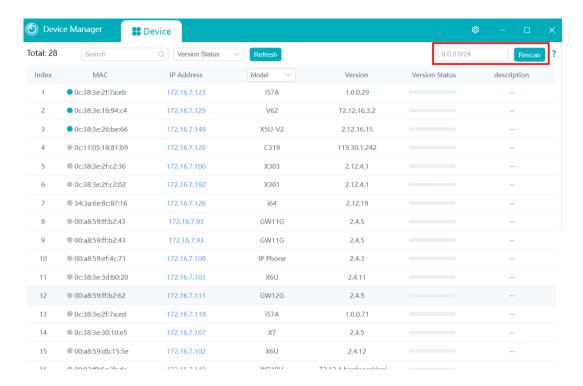
		power):Connect PIN2 and PIN3
		of the jumper module, and leave
		PIN1 and PIN4 in the air.(Default)
		Internal power supply (i.e. relay
		externalpower supply):Connect
		PIN1 to PIN2 and PIN3 to PIN4 of
		the jumper module
	Ethernet interface: standard RJ45 interface,	
7	10/100M adaptive, it is recommended to use	PoE 802.3 AT class 4
	five or five types of network cable	
	USB Port	4pin,USB peripherals can be
8	USB POIL	connected via a transfer cable
		SD cards up to 256GB canbe
9		attached.
	Micro SD card slot	Note: The back cover should be
		removed before inserting the
		card

6.3 Device IP Address

Method one:

- 1. Go to the official website of Fanvil [Support] >> [Download Center] >> [Tools]>> [IPScanner] module,click and download the DeviceManager,
- 2. Open the IP scan tool, the tool supports LAN scan and cross network segment scan.
- 3. For LAN scanning:
- .Click the desktop icon, run the DeviceManager tool
- 4. Cross-segment scan: Fill in the cross-segment setting in the upper right corner of the page in the format of: IP address/mask. That is: IP address/N.





Method two:

After the device boots up (about 30s), in standby mode, press and hold the Call button (the key with the serial number 2 in the <u>6.1 panel Overview</u>) for 3s, release the key immediately after the speaker beeps, and then press the Call button quickly within 5s (the same button as the above long press), and the device starts to broadcast IP.

Method three:

After the device boots up (about 30s), in standby mode, press and hold the Call button (the key with serial number 2 in <u>6.1 panel Overview</u>) for 3 seconds, release the button immediately after the speaker beeps, and then press the Call button three times quickly within 5s (the same key as the above long press) to complete the operation. After successfully switching to dynamic IP, the system automatically announces the IP address by voice.

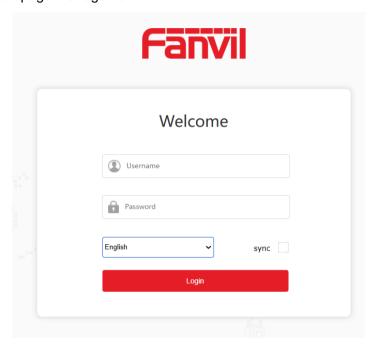
Table 5 - Configuration instructions

Default configuration					
DHCP mo	ode		Default enable	Static IP	192.168.1.128
Voice	read	IP	Long press the Call button for 3 seconds,	Server port	80
address			press the Call button one times within 5		
			seconds		



6.4 WEB configuration

When the device and your computer are successfully connected to the network, enter the IP address of the device on the browser as http://xxx.xxx.xxx/ and you can see the login interface of the web page management.



picture 3 - WEB Login

The username and password should be correct to log in to the web page. **The default username and password are "admin"**. For the specific details of the operation of the web page, please refer to <u>9 Web Configurations</u>

6.5 SIP Configurations

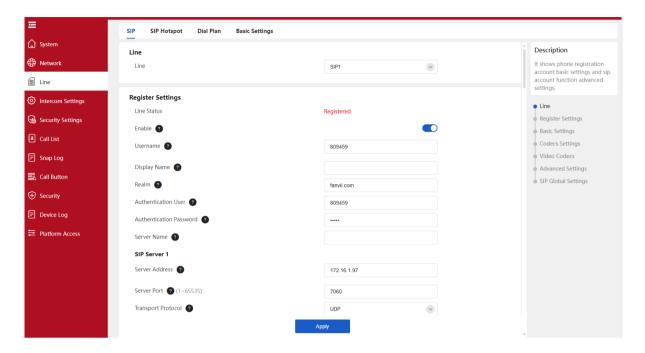
At least one SIP line should be configured properly to enable the telephony service. The line configuration is like a virtualized SIM card. Just like a SIM card on a mobile phone, it stores the service provider and the account information used for registration and authentication. When the device is applied 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 SIP line configuration should be set via the WEB configuration page by entering the correct information such as phone number, authentication name/password, SIP server address, server port, etc. which are provided by the SIP server administrator.

WEB interface: After login into the phone page, enter [Line] >> [SIP] and select SIP1/SIP2



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



picture 4 - SIP Line Configuration

6.6 Volume setting

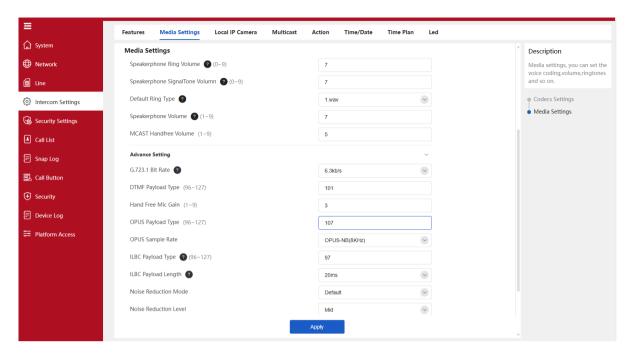
Set the volume:

[Intercom Settings] >> [Media Settings] >> [Media Settings], as shown below, click [Submit].

Hands-free volume setting: Set the speaker output volume.

Hands-free microphone gain: microphone volume level.





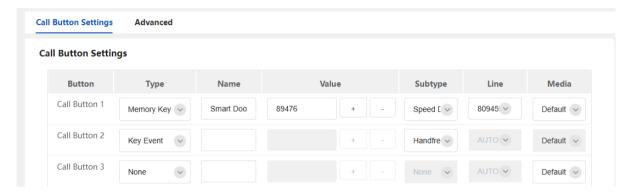
Picture 5- Volume Set



7 Basic Function

7.1 Making Calls

After setting the Call Button to Hot key and setting the number, press the Call Button to immediately call out the set number, as shown below:



Picture 6- Call Button Settings

See detailed configuration instructions 9.26 Call Button Key

7.2 Answering Calls

After setting up the automatic answer and setting up the automatic answer time, it will hear the ringing bell within the set time and automatically answer the call after timeout. Cancel automatic answering. When a call comes in, you will hear the ringing bell and will not answer the phone over time.

7.3 End of the Call

You can hang up the call through the Release key (you can set the function key as the Release key) or turn on the speed dial button to hang up the call. See detailed configuration instructions 9.26 Call Button.

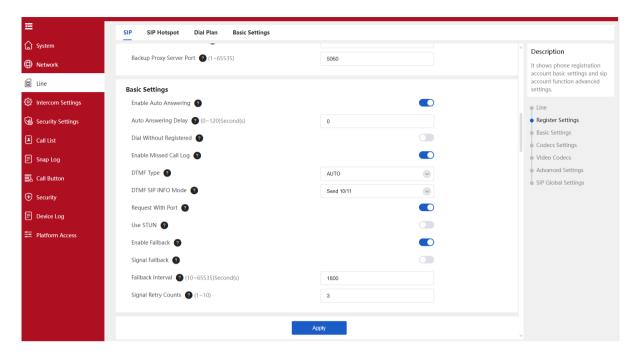
7.4 Auto Answer

The user can turn off the auto-answer function (enabled by default) on the device webpage, and the ring tone will be heard after the shutdown, and the auto-answer will not time out.

Web interface:

Enter [Line] >> [SIP], Enable auto answer and set auto answer time and click submit.

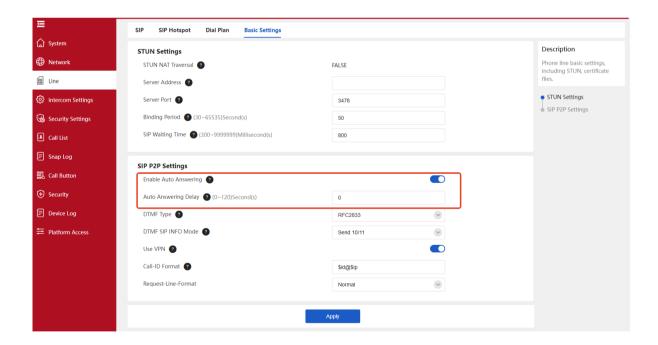




Picture 7 - WEB line enable auto answer

SIP P2P auto answering:

Enter [Line]>>[Basic settings], Enable auto answer and set auto answer time and click submit.



Picture 8- Enable auto answer for IP calls

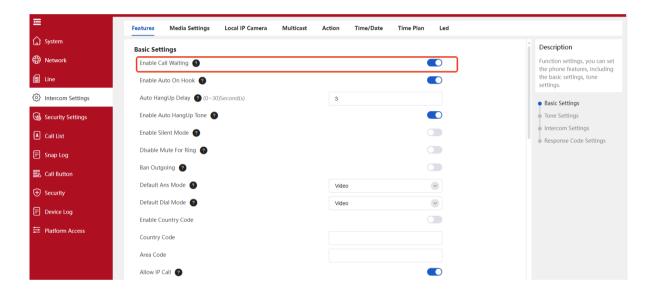
Auto Answer Timeout (0~120)

The range can be set to 0~120s, and the call will be answered automatically when the timeout is set.

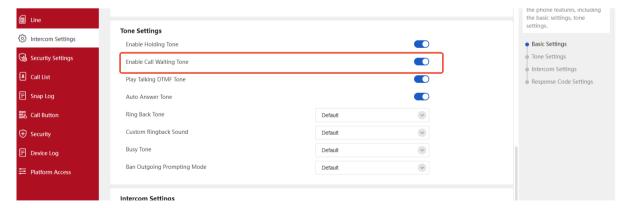


7.5 Call Waiting

- Enable call waiting: new calls can be accepted during a call.
- Disable call waiting: new calls will be automatically rejected and a busy signal will be prompted
- Enable call waiting tone: when you receive a new call on the line, the device will beep. Users can enable/disable call waiting in the device interface and the web interface.
- Web interface: enter [Intercom Settings] >> [Features], enable/disable call waiting, enable/disable call waiting tone.



Picture 9 - Call Waiting



Picture 10 - Call Waiting tone



8 Advance Function

8.1 Intercom

The equipment can answer intercom calls automatically.



Picture 11 - WEB Intercom

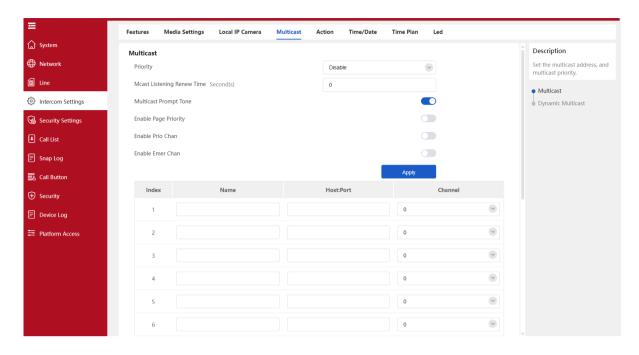
Table 6- Intercom

Parameters	Description
	When the intercom system is enabled, the device will accept
Enable Intercom	the SIP header call-info of the Call request
	Command automatic call
Enable Intercom Barge	If the option is enabled, device will answer the intercom call automatically while it is in a normal call, and it will reject new intercom call if there is already one intercome call
Enable Intercom Mute	Enable mute during intercom mode
Enable Intercom Ringing	If the incoming call is intercom call, the device plays the intercom tone.

8.2 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.





Picture 12 - MCAST

Table 7- MCAST

Parameters	Description
Priority	Defines the priority in the current call, with 1 being the highest priority
	and 10 being the lowest.
Mcast Listening Renew Time	Set the wait time for re-receiving multicast
Multicast Prompt Tone	Enable or disable multicast tone
Enable Auto Mcast	Send the multicast configuration information by Sip Notify signaling,
	and the device will configure the information to the system for
	multicast listening or cancel the multicast listening in the system after
	receiving the information
Auto Mcast Timeout Delete	When a multicast call does not end normally, but for some reason the
Time	device can no longer receive a multicast RTP packet, this
	configuration cancels the listening after a specified time
SIP Priority	Defines the priority in the current call, with 1 being the highest priority
	and 10 the lowest.
Intercom Priority	Compared with multicast and SIP priority, high priority is pluggable
	and low priority is rejected
Enable Page Priority	Regardless of which of the two multicast groups is called in first, the
	device will receive the higher priority multicast first.
Enable Mcast Tone	When enabled, play the prompt sound when receiving multicast
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 [Intercom Settings] >> [MCAST].
- Press the DSSKey of Multicast Key which you set.
- Receive end will receive multicast call and play multicast automatically.

MCAST Dynamic:

Description: send multicast configuration information through SIP notify signaling. After receiving the message, the device configures it to the system for multicast monitoring or cancels multicast monitoring in the system.

8.3 Hotspot

SIP hotspot is a simple utility. Its configuration is simple, which can realize the function of group vibration and expand thequantity of sip account. Take one device A as the SIP hotspot and the other devices (B, C) as the SIP hotspot client. When someone calls device A, devices A, B, and C will ring, and if any of them answer, the other devices will stop ringing and not be able to answer at the same time. When A B or C device is called out, it is called out with A SIP number registered with device A.

Table 8 - SIP Hotspot

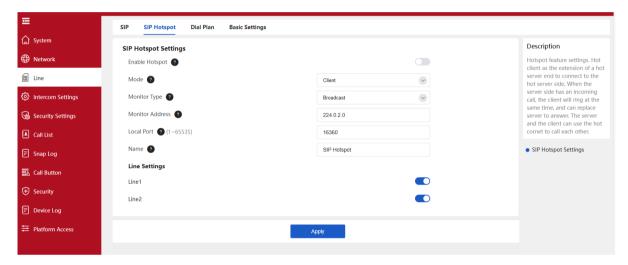
Parameters	Description	
Enable Hotspot	Enable or disable hotspot	
Mode	This device can only be used as a client	
Monitor Type	e The monitoring type can be broadcast or multicast. If you want to restric	
	broadcast packets in the network, you can choose multicast. The type of	
	monitoring on the server side and the client side must be the same, for	
	example, when the device on the client side is selected for multicast, the	
	device on the SIP hotspot server side must also be set for multicast	
Monitor	The multicast address used by the client and server when the monitoring	
Address	type is multicast. If broadcasting is used, this address does not need to	
	be configured, and the system will communicate by default using the	
	broadcast address of the device's wan port IP	
Remote Port	Fill in a custom hotspot communication port. The server and client ports	
	need to be consistent	



Name	Fill in the name of the SIP hotspot. This configuration is used to identify
	different hotspots on the network to avoid connection conflicts
Line Settings	Sets whether to enable the SIP hotspot function on the corresponding
	SIP line

Client Settings:

As a SIP hotspot client, there is no need to set up a SIP account, which is automatically acquired and configured when the device is enabled. Just change the mode to "client" and the other options are set in the same way as the hotspot.



Picture 13 - SIP hotspot

The device is the hotspot server, and the default extension is 0. The device ACTS as a client, and the extension number is increased from 1 (the extension number can be viewed through the [SIP hotspot] page of the webpage).

Calling internal extension:

- The hotspot server and client can dial each other through the extension number before
- Extension 1 dials extension 0



9 Web Configurations

9.1 Web Page Authentication

Users can log into the device's web page to manage user device information and operate the device. Users must provide the correct user name and password to log in. If the password is entered incorrectly three times, it will be locked and can be entered again after 5 minutes.

The details are as follows:

- If an IP is logged in more than the specified number of times with a different user name, it will be locked
- If a user name logs in more than a specified number of times on a different IP, it is also locked

9.2 System >> Information

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

- Model
- Hardware Version
- Software Version
- Uptime
- Last uptime
- MEMinfo
- System Time

And summarization of network status,

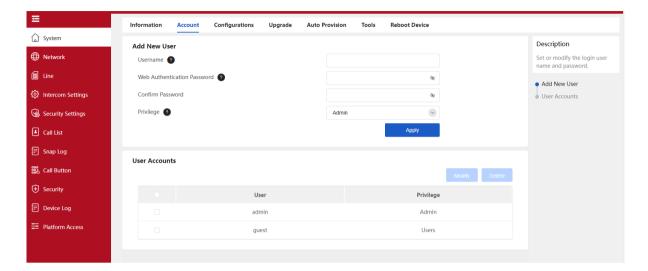
- Network Mode
- MAC Address
- IP
- Subnet Mask
- Default Gateway

Besides, summarization of SIP account status,

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



9.3 System >> Account



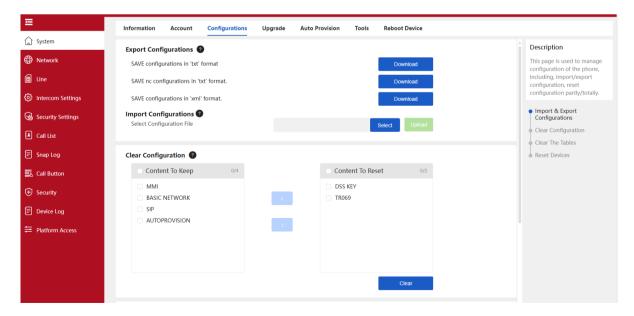
Picture 14- WEB Account

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

9.4 System >> Configurations

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



Picture 15 - System Setting



■ Export Configurations

Right click to select target save as, that is, to download the device's configuration file, suffix ".txt". (note: profile export requires administrator privileges)

■ Import Configurations

Import the configuration file of Settings. The device will restart automatically after successful import, and the configuration will take effect after restart

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

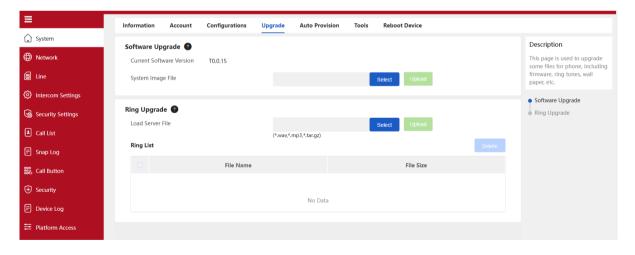
Clear Tables

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.

9.5 System >> Upgrade



Picture 16- Upgrade

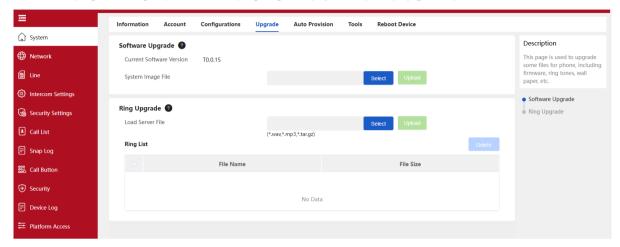
Upgrade the software version of the device, and upgrade to the new version through the webpage. After the upgrade, the device will automatically restart and update to the new version. Click select, select the version and then click upgrade.

Upgrade the ringtone, support wav and MP3 format.



Firmware Upgrade:

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



Picture 17 - Web page firmware upgrade

Table 9- Firmware upgrade

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

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





- 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

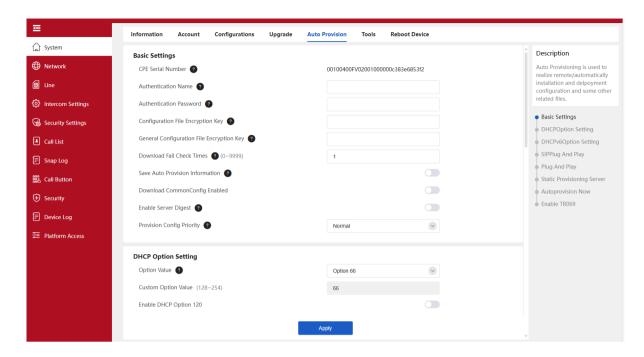
Xxxxx

 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.

9.6 System >> Auto Provision

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





Picture 18- 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

https://www.fanvil.com/Support/download/cid/14.html

Table 10- Auto Provision

Auto provision		
Parameters	Description	
Basic settings		
	Shows the current config file's version. If the version of the	
	downloaded configuration file is same with this one, the	
Current Configuration	configuration file will not be applied. If the device confirm the	
Version	configuration by the Digest method, once the configuration of	
	server is modified or the device's configurations are different from	
	server's, the device will download and apply the configurations.	
	Shows the common config file's version. If the version of the	
General	downloaded configuration file is same with this one, the	
	configuration file will not be applied. If the device confirm the	
Configuration Version	configuration by the Digest method, once the configuration of	
	server is modified or the device's configurations are different from	



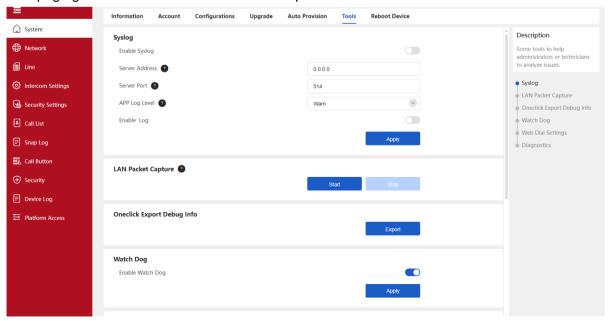
	server's, the device will download and apply the configurations.		
CPE Serial Number	Serial number of the equipment		
Authentication Nam	Username for configuration server. Used for FTP/HTTP/HTTPS.		
Admentication Nam	If this is blank the phone will use anonymous		
Authentication	Password for configuration server. Used for FTP/HTTP/HTTPS.		
Password	r assword for configuration server. Osed for 1 11 /111 11 /111 11 3.		
Configuration File	Encryption key for the configuration file		
Encryption Key	Encryption key for the configuration file		
General			
Configuration File	Encryption key for common configuration file		
Encryption Key			
Download Fail Che	The default value is 5. If the download configuration fails, it will be		
Times	downloaded 5 times.		
Enable Get Digest	When the feature is enable, if the configuration of server is		
From Server	changed, phone will download and update.		
DHCP Option			
Option Value	The equipment supports configuration from Option 43, Option 66,		
Option value	or a Custom DHCP option. It may also be disabled.		
Custom Option Valu	ue Custom option number. Must be from 128 to 254.		
Enable DHCP Option	Set the SIP server address through DHCP option 120.		
120	Set the Sir Server address through Drief Option 120.		
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		
Lilable Sil Till	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	nP protocol, TCP or UDP.		
Protocol			
Update Interval	PnP message interval.		
Static Provisioning Server			
Server Address	Set FTP/TFTP/HTTP server IP address for auto update. The		
Corver / touress	address can be an IP address or Domain name with subdirectory.		
	The configuration file name. If it is empty, phone will request the		
Configuration File	common file and device file which is named as its MAC address.		
Name	The file name could be a common name, \$mac.cfg, \$input.cfg. The		
	file format supports CFG/TXT/XML.		



	,		
Protocol Type	Transferring protocol type, supports FTP \ TFTP \ HTTP and HTTPS		
Lindata lata mial	Configuration file update interval time. As default it is 1, means		
Update Interval	phone will check the update every 1 hour.		
	Provision Mode.		
Lindata Mada	1. Disabled.		
Update Mode	2. Update after reboot.		
	3. Update after interval.		
TR069			
Enable TR069	Enable TR069 after selection		
Enable TR069	KTDOCO is analytical there will be a present tone when connection		
Warning Tone	If TR069 is enabled, there will be a prompt tone when connecting.		
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)		
STUN	Fator the OTUN address		
server address	Enter the STUN address		
Enable the STUN	Enable the STUN		
TLS Version	TLS Version		

9.7 System >> Tools

This page gives the user the tools to solve the problem.



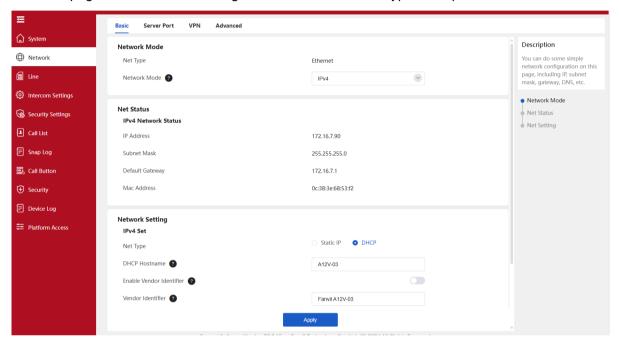


Picture 19 - Tools

Syslog: When enabled, set the syslog software address, and log information of the device will be recorded in the syslog software during operation. If there is any problem, log information can be analyzed by Fanvil technical support.

9.8 Network >> Basic

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



Picture 20 - Network Basic Setting

Table 11 - Network Basic Setting

Field Name	Explanation	
Network Sta	atus	
IP	The current IP address of the equipment	
Subnet	The current Subnet Mask	
mask		
Default	The current Cotower ID address	
gateway	The current Gateway IP address	
MAC	The MAC address of the equipment	
MAC Time	Disabelle the time when the device water the MAC address	
stamp	Display the time when the device gets the MAC address	
Settings		
Select the appropriate network mode. The equipment supports three network modes:		



Static IP	Network parameters must be entered manually and will not change. All parameters are provided by the ISP.	
DHCP	Network parameters are provided automatically by a DHCP server.	
PPPoE	Account and Password must be input manually. These are provided by your ISP.	
If Static IP is c	hosen, the screen below will appear. Enter values provided by the ISP.	
DNS Server		
Configured	Select the Configured mode of the DNS Server.	
by		
Primary DNS	Enter the server address of the Primary DNS.	
Server	Enter the server address of the Philliary DNS.	
Secondary	Enter the server address of the Secondary DNS	
DNS Server	Enter the server address of the Secondary DNS.	

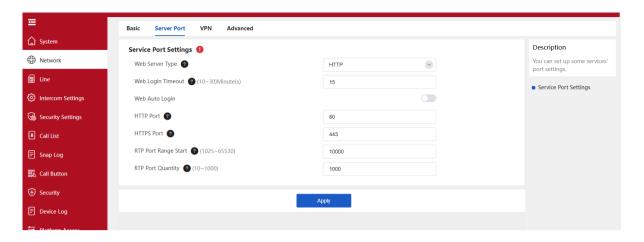
attention:

- 1) After setting the parameters, click 【Apply 】 to take effect.
- 2)If you change the IP address, the webpage will no longer responds, please enter the new IP address in web browser to access the device.
- 3) If the system USES DHCP to obtain IP when device boots up, and the network address of the DHCP Server is the same as the network address of the system LAN, then after the system obtains the DHCP IP, it will add 1 to the last bit of the network address of LAN and modify the IP address segment of the DHCP Server of LAN. If the DHCP access is reconnected to the WAN after the system is started, and the network address assigned by the DHCP server is the same as that of the LAN, then the WAN will not be able to obtain IP access to the network

9.9 Network >> service port

This page provides the settings of webpage login protocol, protocol port and RTP port.





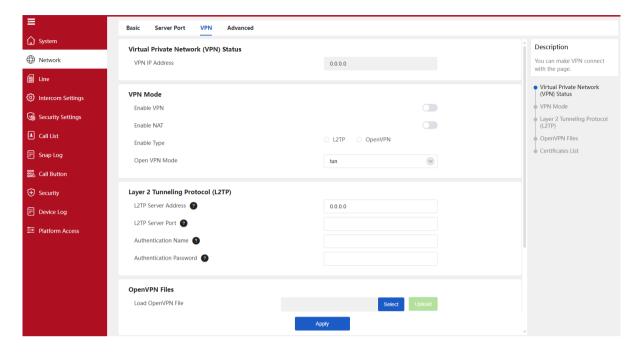
Picture 21- Service port setting interface

Table 12- Server Port

parameter	description
Web server type	Restart after setting takes effect. Optional web login as
	HTTP/HTTPS
Web login timeout	The default is 15 minutes, the timeout will automatically log out of
	the login page, and you need to log in again
Web page automatic	No need to enter the user name and password after the timeout,
login	it will automatically log in to the web page.
HTTP port	The default is 80, if you want system security, you can set other
	port
	Such as: 8080, web page login: HTTP://ip:8080
HTTPS port	The default is 443, same as HTTP port usage
RTP port start range	The value range is 1025-65535. The value of rtp port starts from
	the initial value set. Each time a call is made, the value of the
	voice and video ports is increased by 2
RTP port quantity	Number of calls



9.10 Network >> VPN



Picture 22- 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 page [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 to the VPN automatically when the device boots up every time until user disable it. Sometimes, if the VPN connection does not established 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

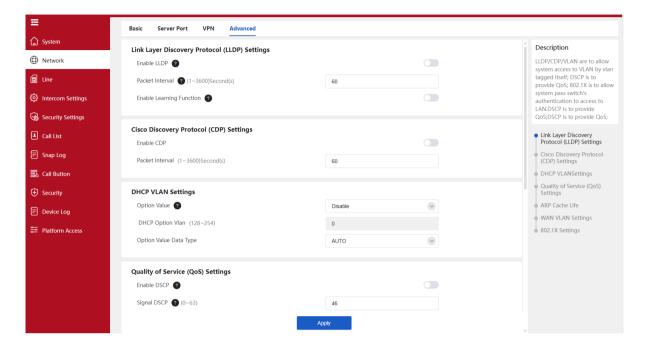
CA Root Certification: ca.crt
Client Certification: client.crt
Client Key: client.key

User then upload these files to the device in the web page [Network] -> [VPN], Section 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.



9.11 Network >> Advanced



Picture 23 - Network Setting

Network advanced Settings are typically configured by IT administrators to improve the quality of device service.

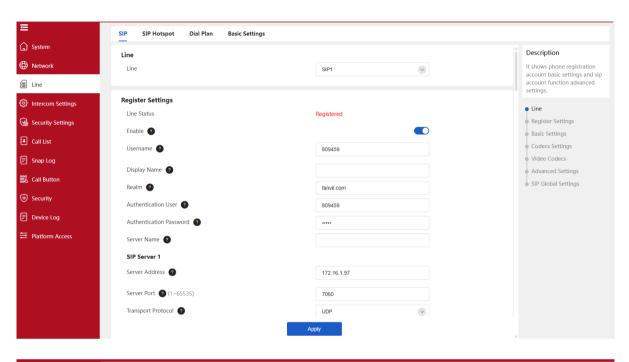
Table 13- Network Setting

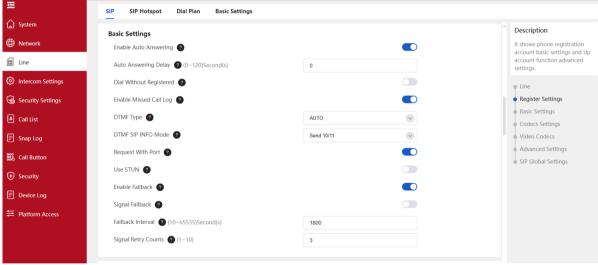
Field Name	Explanation		
LLDP Settings			
Enable LLDP	Enable or disable LLDP		
Packet Interval	LLDP Send detection cycle		
Enable Learning Function	Learn the discovered device information on the device		
QoS Settings			
Pattern	Voice quality assurance (off by default)		
DHCP VLAN Settings	DHCP VLAN Settings		
parameters values	128-254, Obtain the VLAN value through DHCP		
WAN port virtual Wan			
WAN port virtual Wan	WAN port Settings		
LAN port virtual LAN			
LAN port virtual LAN	LAN port Settings		
802.1X			
Enable 802.1X	Enable or disable 802.1X		



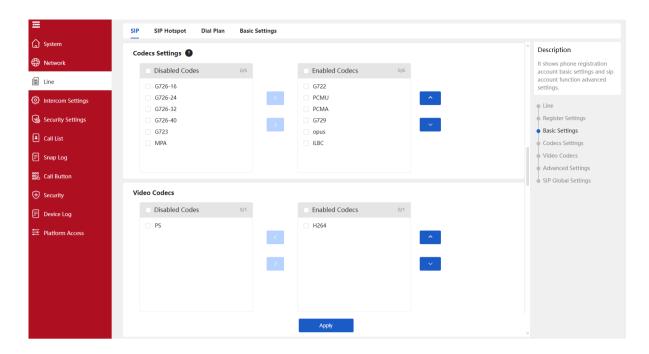
Username	Confirm Username
Password	Confirm Password

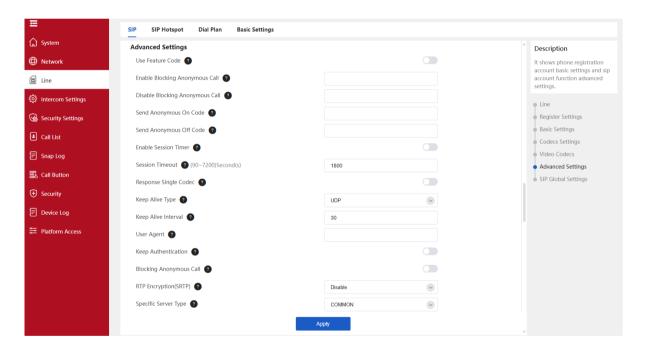
9.12LINES >> SIP



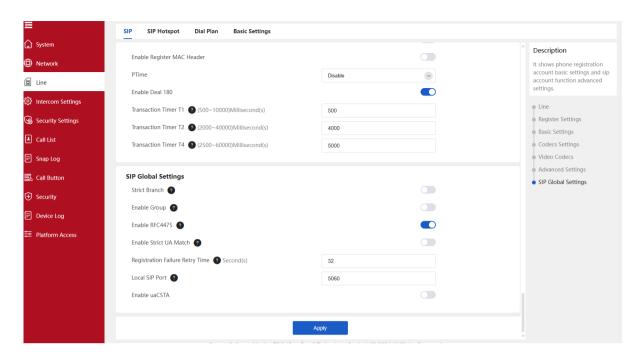












Picture 24- SIP

Table 14 - SIP

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.
Server Address	Enter the IP or FQDN address of the SIP server
Server Port	Enter the SIP server port, default is 5060
Authentication User	Enter the authentication user of the service account
Authentication Password	Enter the authentication password of the service account
Username	Enter the username of the service account.
Display Name	Enter the display name to be sent in a call request.
Activate	Whether the service of the line should be activated
Realm	Enter the SIP domain if requested by the service provider
SIP Proxy Server Address	Enter the IP or FQDN address of the SIP proxy server
Proxy Server Port	Enter the SIP proxy server port, default is 5060
Proxy User	Enter the SIP proxy user
Proxy Password	Enter the SIP proxy password
Backup Proxy Server	Enter the IP or FQDN address of the backup proxy server
Address	
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	Enable unconditional call forward, all incoming calls will be forwarded
Unconditional	to the number specified in the next field
Call Forward Number for	Set the number of unconditional call forward
Unconditional	
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	Set the number of call forward on busy
Busy	
Call Forward on No	Enable call forward on no answer, when an incoming call is not
Answer	answered within the configured delay time, the call will be forwarded to
	the number specified in the next field
Call Forward Number for	Set the number of call forward on no answer
No Answer	
Call Forward Delay for No	Set the delay time of not answered call before being forwarded
Answer	
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	Set the conference room number when conference type is set to be
Number	Server
Subscribe For Voice	Enable the device to subscribe a voice message waiting notification, if
Message	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	Set the interval of voice message notification subscription
Period	
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
Registration Expiration	Set the SIP expiration interval
Use VPN	Set the line to use VPN restrict route
Use STUN	Set the line to use STUN for NAT traversal
Codec Settings	Set the priority and availability of the codecs by adding or remove them
	from the list.
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	Set the feature code to dial to the server
Unconditional	
Disable Call Forward	Set the feature code to dial to the server
Unconditional	
Enable Call Forward on	Set the feature code to dial to the server
Busy	
Disable Call Forward on	Set the feature code to dial to the server
Busy	
Enable Call Forward on	Set the feature code to dial to the server
No Answer	
Disable Call Forward on	Set the feature code to dial to the server
No Answer	
Enable Blocking	Set the feature code to dial to the server
Anonymous Call	
Disable Blocking	Set the feature code to dial to the server
Anonymous Call	
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	Set the feature code to dial to the server
Code	
Send Anonymous Off	Set the feature code to dial to the server
Code	



SIP Encryption	Enable SIP encryption such that SIP transmission will be encrypted
SIP Encryption Key	Set the pass phrase for SIP encryption
RTP Encryption	Enable RTP encryption such that RTP transmission will be encrypted
RTP Encryption Key	Set the pass phrase for RTP encryption
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.
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
Transport Protocol	Set the line to use TCP or UDP for SIP transmission
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	Whether to add quote in display name, i.e. "Fanvil" vs Fanvil
Name	



Enable GRUU	Support Globally Routable User-Agent URI (GRUU)
Sync Clock Time	Time Sycn with server
Caller ID Header	Set the Caller ID Header
Use 182 Response for	Set the device to use 182 response code at call waiting response
Call waiting	
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.
Enable Feature Sync	Feature Sycn with server
Enable SCA	Enable/Disable SCA (Shared Call Appearance)
CallPark Number	Set the callPark number
Server Expire	
TLS Version	Choose TLS Version

9.13 Line >> SIP Hotspot

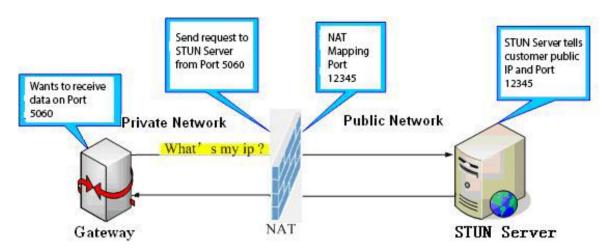
SIP hotspot is a simple and practical function. It is simple to configure, can realize the function of group vibration, and can expand the number of SIP accounts.

See 8.3 Hotspot for details.

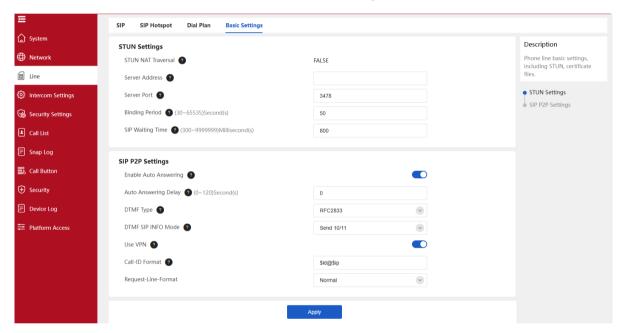
9.14 Line >> Basic Settings

STUN -Simple Traversal of UDP through NAT -A STUN server allows a phone in a private network to know its public IP and port as well as the type of NAT being used. The equipment can then use this information to register itself to a SIP server so that it can make and receive calls while in a private network.





Picture 25- Basic Settings



Picture 26 - Line Basic Setting

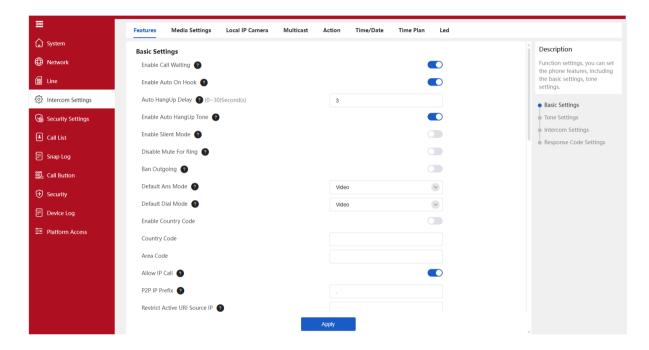
Table 15- Line Basic Setting

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
SIP P2P Settings	
Enable Auto	Automatically answer incoming IP calls after the timeout period is
Answering	enabled



Auto Answering	Automatic answer timeout setting
Delay	
DTMF Type	Set the DTMF type of the line.
DTMF SIP INFO	Set SIP INFO mode to send '*' and '#' or '10' and '11'
Mode	

9.15 Intercom settings >> Features



Picture 27 - Feature

Table 16- Common device function Settings on the web page

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 Auto Handdown	The phone will hang up and return to the idle automatically at
Enable Auto Handdown	hands-free mode
	Specify Auto handdown time, the phone will hang up and return to the
Auto Handdown Time	idle automatically after Auto Hand down time at hands-free mode, and
	play dial tone Auto handdown time at handset mode
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 not mute the phone.

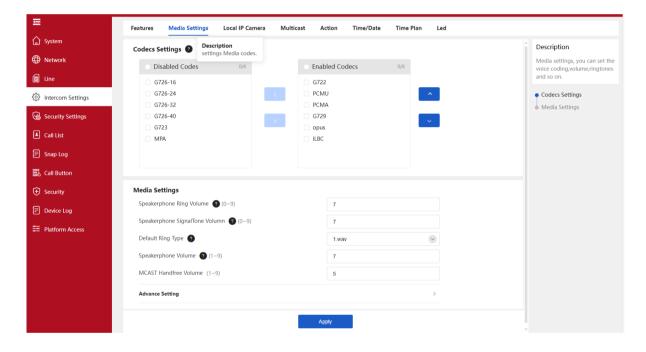


Ban Outgoing	If you select Ban Outgoing to enable it, and you cannot dial out any number.
Enable Restricted	
Incoming List	Whether enable Restricted Incoming List
Enable Restricted	
Outgoing List	Wether enable Restricted Outgoing List
Enable country Code	Wether enable country Code
Country Code	Country Code
Area Code	Area Code
Allow IP Call	If enabled, user can dial out with IP address
P2P IP Prefix	You can set IP call prefix,for example,i set it as "172.16.2.",then i input
	#160 in dialpad and press dial key ,it will call 172.16.2.160 automatically
Restrict Active URI	Set the device to accept Active URI command from specific IP address.
Source IP	More details please refer to this link
	https://www.fanvil.com/Support/download/cid/14.html
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.
Line Display Format	Line display format including SIPn/SIPn: xxx/xxx@SIPn
0 11 11	Configure a special character & ,if the number is 78 & 9. The call will be
Call Number Filter	filtered out&
Auto Resume Current	If the current path changes, the hold will be automatically resume
Limit Talking Duration	Automatically hang up the call after enabling the time set for the call
Talking Duration	Call duration ,20-600s
No Answer Auto HangUp	If the call is not answered, the call will be automatically hung up after the
Timeout	timeout
Enable Push XML Auth	To enable push xml auth, user password is required
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.
Intercom Settings	1 5
Enable Intercom	When intercom is enabled, the device will accept the incoming call
	request with a SIP header of Alert-Info instruction to automatically
	1.04.001 to add of the mondon to automationing



	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	
Busy Response Code	Set the SIP response code on line busy
Reject Response Code	Set the SIP response code on call rejection

9.16 Intercom settings >> media



Picture 28- Media Settings

Table 17- Audio Settings

Parameters	Description
Codecs Settings	Select the enabled and disabled voice codecs
	codec:G.711A/U,G.726, G.723, G.722,G.729,ILBC,opus,
	MPA
Audio Settings	
Default Ring Type	Set the default ring type. If the caller ID of an incoming call
	was not configured with specific ring type, the default ring
	will be used.

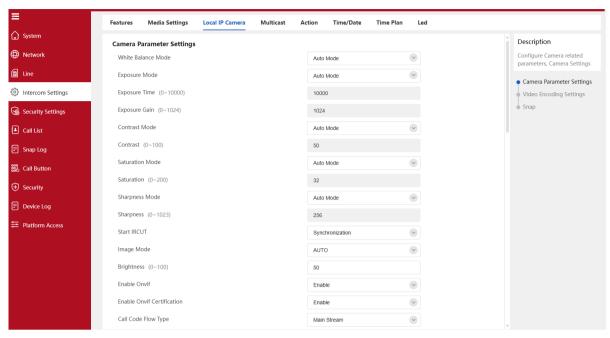


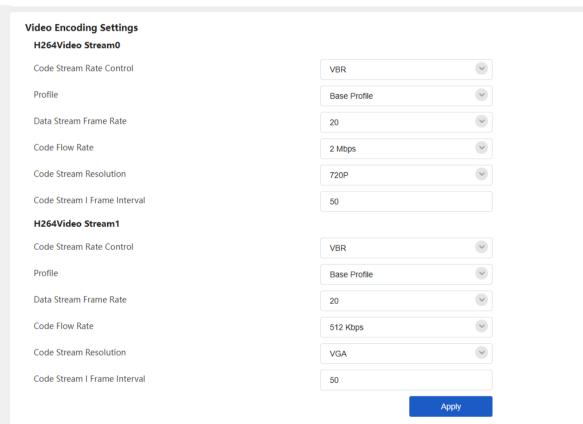
Speakerphone Volume	Set the speakerphone volume, the value must be 1~9	
Speakerphone Ring Volume	Set the ring volume in the speakerphone, the value must	
	be 1~9	
DTMF Payload Type	Enter the DTMF payload type, the value must be 96~127.	
Opus playload type	Enter the opus payload type, the value must be 96~127.	
OPUS Sample Rate	Set the opus sample rate · including OPUS-NB (8KHz),	
	OPUS-WB (16KHz)	
ILBC Payload Type	Set the ILBC Payload Type	
ILBC Payload Length	Set the ILBC Payload Length	
Enable VAD	Enable Voice Activity Detection. When enabled, the	
	device will suppress the audio transmission with artificial	
	comfort noise signal to save the bandwidth.	
RTP Control Protocol(RTC	P) Settings	
CNAME user	Set the CNAME user	
CNAME host	Set the CNAME host	
RTP		
RTP keep alive	Keep talking, send a packet 30 seconds after enable it	
Alert Info Ring Settings (alert-info)		
Value of notification	Set the value of the specified ring type	
message 1 to 10		
ring type	The ring type	

9.17 Intercom settings>>Camera Settings

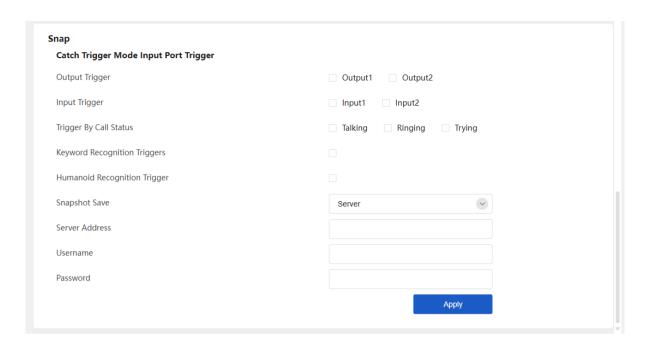
Customers can configure camera related parameters and adjust video coding related settings.











Picture 29- Camera Settings

Table 18- Camera Settings

Parameters	Description
Connection Mode Setting	
	Local: Automatically use the local camera to transmit images
Native Camera	External: After setting the external camera, it will automatically use
	the external camera to transmit images
camera settings	
	Auto mode: The camera automatically makes the most appropriate
	adjustments according to the color temperature of the shooting
	scene, and automatically compensates for the color of the light
	source
	Lock mode: Fixed white balance parameters will not be automatically
	adjusted according to the actual color temperature.
	Incandescent lamp mode: To compensate for the hue of
White Balance	incandescent lamps, it is suitable for use under beige light sources
Mode	(bulbs, tungsten lamps, candles) and other light sources of this
	type.。
	Warm light mode: Compensate the hue of warm light, suitable for
	light sources with a color temperature of about 2700K.
	Naturl light mode: It can be used for white balance in outdoor
	shooting and has a wide range of applications.
	Fluorescent lamp light: Compensate the hue of fluorescent lamps,



	suitable for use under fluorescent light sources (fluorescent lamps, energy-saving lamps) and other types of light sources.
Exposure Mode	Auto mode: The camera automatically sets the parameters, no need for the operator to adjust. Manual exposure time: Set the exposure time by yourself, the range is 0~10000 Manual exposure gain: Set the exposure gain by yourself, the range is 0~1024 All manual: Manually set the exposure time and gain.
Exposure Time	It refers to the time to press the shutter. Increasing the exposure time can increase the signal-to-noise ratio and make the image clear. The longer the time, the more the sum of photons to the CCD\CMOS surface, the brighter the captured image will be, but if it is overexposed, the photo will be too bright and lose the image details; if it is underexposed, the photo will be too dark.
Exposure Gain	It refers to the amplification gain of the analog signal after double sampling, but the noise signal is also amplified in the process of amplifying the image signal. The gain is generally only used when the signal is weak, but you do not want to increase the exposure time.
Contrast Mode	Auto mode: The camera automatically sets the contrast according to the environment, no need for the operator to adjust Manual mode: Manually set the camera's contrast parameters.
Contrast	Contrast refers to the contrast between light and dark in the picture. Increase the contrast, the brighter areas will be brighter and the darker areas will be darker, and the contrast between light and dark will increase.
Saturation Mode	Auto mode: The camera automatically sets the saturation according to the environment, without the need for the operator to adjust Manual mode: Manually set the camera's saturation parameters.
Saturation	Saturation refers to the color. Adjusting the saturation will change the color. The greater the adjustment, the more distorted the image color. Adjusting the saturation is only suitable for pictures with insufficient colors. When the saturation is adjusted to the lowest, the image will lose its color and become a black and white image.



Auto mode: The camera automatically sets the sharpness according to the environment, no need for the operator to adjust Manual mode: Manually set the sharpness parameters of the camera Sharpness Sharpness is sometimes called "sharpness", which is an indicator that reflects the sharpness of the image plane and the sharpness of the edges of the image. If you increase the sharpness, the contrast of the details on the image plane is also higher and it looks clearer. Wide dynamic Panamic and the image brightness by yourself, range 0–10 Turn on IRCUT Whether to open IRCUT Daytime (color): The camera transmits color images when there is sufficient light during the day Night (black and white): The camera transmits black and white images when there is insufficient light at night Automatic: The camera transmits color images when the light is sufficient during the day according to the light sensitivity, and transmits black and white images when the light is insufficient at night brightness Set the image brightness by yourself, the range is 0–100 Enable Onvif Enable on disable the onvif protocol, after enabling it, the device can be discovered through a recorder that supports ONVIF Call Stream Main stream or sub stream used in video call Enable Onvif Auth and password) Enable Rtsp When using rtsp protocol, whether authentication is required (with username and password) H.264 Payload Type Osd Settings Osd Time Turn on/off the date display of the camera image interface. Video Codecs H264 Video Stream Support H.264 encoding format		A Constant Theorem Control of the Co	
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Video Codecs H264 Video Support H.264 encoding format	Osd Time	Turn on/off the date display of the camera image interface.	
H264 Video Support H.264 encoding format	Osd Text	Enable/disable the text display of the camera image interface.	
Support H.264 encoding format	Video Codecs		
Stream Support 11.204 encoding format	H264 Video	Support H 264 encoding format	
	Stream	Support 11.204 encounty format	



Bitrate Control	VBR: Video call will adapt to the bit rate of the opposite end, so that the video effect is better.
Burate Control	CBR: The video call will not change according to the bit rate set by itself.
Resolution	Support 1080P,720P,4CIF,VGA,CIF,QVGA
Frame Rate (fps)	The larger the value is, the more fluent the video is, and the higher the requirement for network bandwidth is; adjustment is not recommended
BitRate	It refers to the data flow used by video files in unit time, also known as code rate or code flow rate. Generally speaking, sampling rate is the most important part of picture quality control in video coding. Generally, the unit we use is KB / s or MB / s
I Frame	The larger the value, the worse the video quality, otherwise the better
Interval	the video quality; adjustment is not recommended.
RTSP Informati	on
Main Stream Url	Display the main stream URL address
Sub Stream Url	Display the sub stream URL address
Snapshot	
Input trigger	Select the input port that triggers the capture
Output trigger	Select the output port that triggers the capture
Call trigger	Select the call status that triggers the capture
Keyword Recognition Triggers	Whether to turn on the Keyword Recognition Triggers capture
Humanoid Recognition Trigger	Whether to turn on the Humanoid Recognition Trigger capture
Saving Method of Capture	Set how to save the captured image, including: server, Storage Card, Server and Storage Card
server address	Enter the server address
Username	Enter a username
-	



Password	Enter a password
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9.18 Intercom Setting >> MCAST

It is easy and convenient to use multicast function to send notice to each member of the multicast via setting the multicast key on the device and sending multicast RTP stream to pre-configured multicast address. By configuring monitoring multicast address on the device, monitor and play the RTP stream which sent by the multicast address.

The detail for 8.2 MCAST

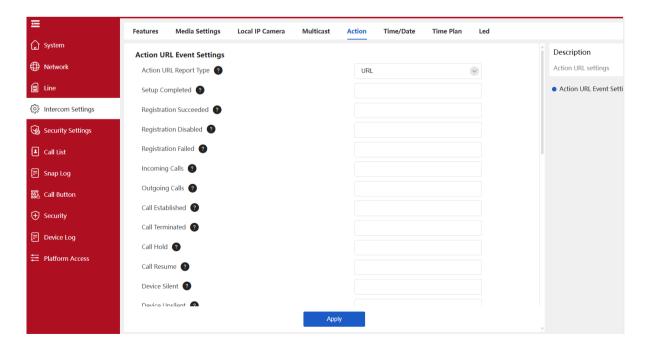
9.19 Intercom Setting >> Action URL

Table 19- Action URL

Action URL Event Settings

Set URL for the device to report its action to server. These actions are recorded and sent as xml files to the server. Sample format is http://InternalServer /FileName.xml.

(Internal Server: The IP address of server; File Name: the device's xml file used to report action.)



Picture 30- Action URL

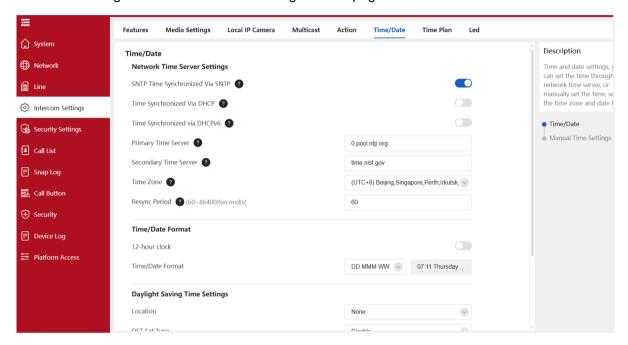


Note! The operation URL is used by the IPPBX system to submit device events. Please refer to the details Fanvil Action URL.

https://www.fanvil.com/Support/download/cid/14.html

9.20 Intercom Setting >> Time/Date

Users can configure the device's time Settings on this page.



Picture 31 - Time/Date

Table 20- Time/Date

Time/Date		
Field Name	Explanati	ion
Network Time Se	rver Settir	ngs
Time Synchronized v	ria SNTP	Enable time-sync through SNTP protocol
Time Synchronized v	ria DHCP	Enable time-sync through DHCP protocol
Primary Time Server		Set primary time server address
		Set secondary time server address, when primary server is not
Secondary Time Ser	ver	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
Daylight Saving Time Settings		
Location		Select the user's time zone specific area



DST Set Type	Select automatic DST according to the preset rules of DST, or the
	manually input rules
Offset	The DST offset time
Month Start	The DST start month
Week Start	The DST start week
Weekday Start	The DST start weekday
Hour Start	The DST start hour
Month End	The DST end month
Week End	The DST end week
Weekday End	The DST end weekday
Hour End	The DST end hour
Manual Time Setting	

Manual Time Settings

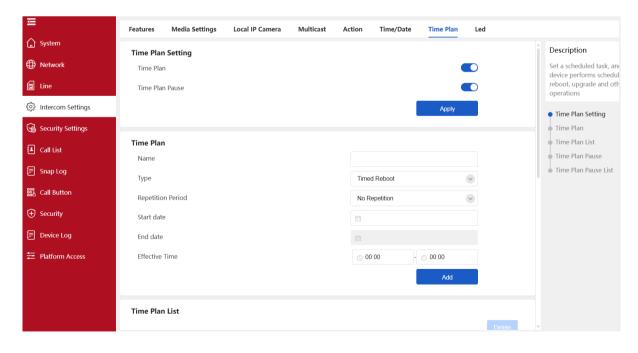
To set the time manually, you need to disable the SNTP service first, and you need to fill in and submit each item of year, month, day, hour and minute in the figure above to make the manual settings successful.

System time: Display system time and its source

(SIP automatic get >SNTP automatic get >manual manual setting)

9.21 Intercom settings>>Time plan

The user can set the time point and time period for the device to perform a certain action.



Picture 32- Time Plan

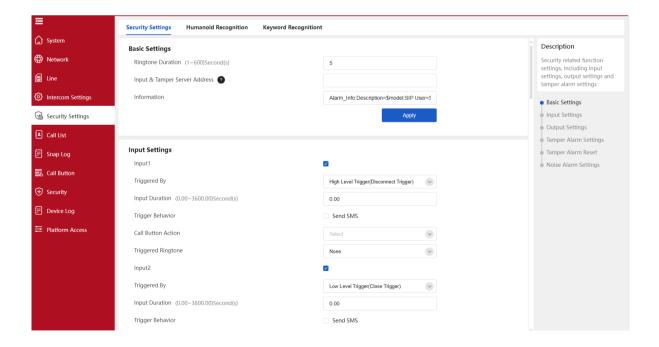


Table 21- Time Plan

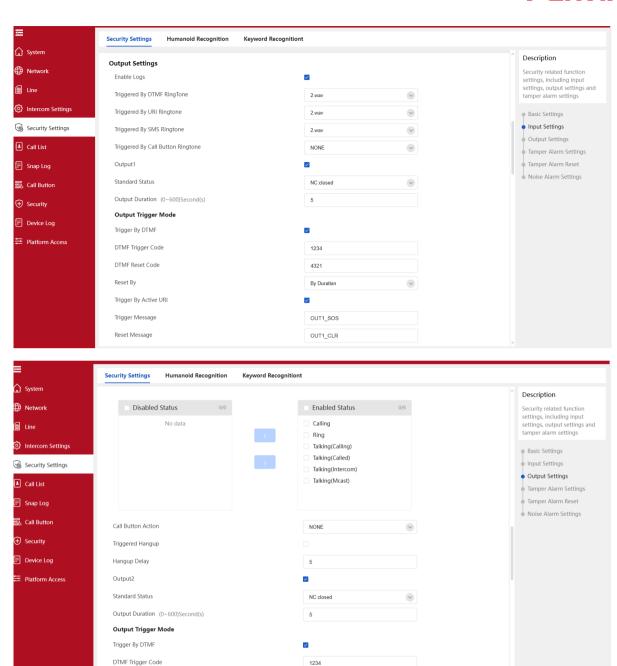
Parameters	Description
type	Timing restart, timing upgrade, timing sound detection, timing playback
	audio
Audio path	Support local
	Local: select the audio file uploaded locally
Audio settings	Select the audio file you want to play, it supports trial listening, and you can
	play it immediately after clicking the trial listening
Repeat cycle	Do not repeat: execute once within the set time range
	Daily: Perform this operation in the same time frame every day
	Weekly: Do this in the time frame of the day of the week
	Monthly: the time frame of the month to perform this operation
Effective time	Set the time period for execution

9.22 Security settings

Enable Tamper: after enable, when the device is removed by force, the alarm information will be sent to the server and the alarm ring will be played.

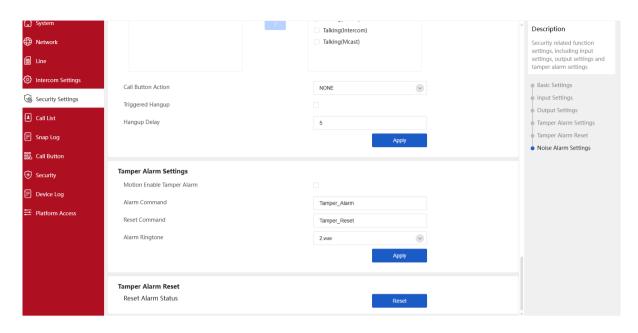






DTMF Reset Code





Picture 33 - Security Settings

Table 22- Security Settings

Security Settings		
Parameters	Description	
Basic Settings		
Ringtone Duration	Set the ringtone duration, default value is 5 seconds.	
	Set remote server address. The device will send message to the	
Input & Tamper	server when the alarm is triggered. The message format is :	
Server Address	Alarm_Info:Description=A12V;SIP User=;Mac=0c:38:3e:3a:06:65;IP=;	
	port=Input.	
Input settings		
Input Detect	Enable or disable Input Detect	
	When choosing the low level trigger (closed trigger), detect the input	
Triggered by	port (low level) closed trigger.	
rriggered by	When choosing the high level trigger (disconnect trigger), detect the	
	input port (high level) disconnected trigger.	
	Send SMS: Set the alert message send to server if selected.	
Triagonad Astion	Call Button: The device will perform corresponding Dss Key	
Triggered Action	configurations if any key is selected, by default the value is none.	
	Triggered Ringtone: Select triggered ring tone.	
Output Settings		
Output Response	Enable or disable Output Response	
Triggered by DTMF	Select the DTMF trigger ring tone.	



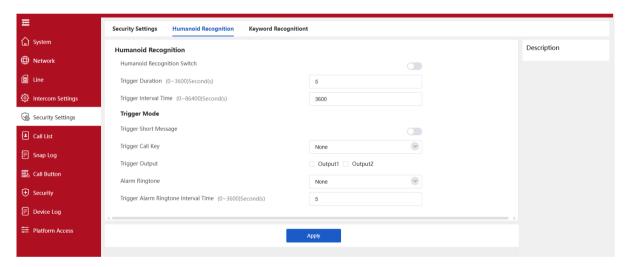
Ring tone	
Triggered by URI Ringtone	Select the URI trigger ring tone.
Triggered By SMS Ringtone	Select the SMS trigger ring tone.
Triggered By Dsskey Ringtone	Select the Call Button trigger ring tone.
-	When choosing the low level trigger (NO: normally open), when meet
0(2) 12 1 0(2)	the trigger condition, trigger the NO port disconnected.
Standard Status	When choosing the high level trigger (NC: normally close), when meet the trigger condition, trigger the NC port close.
Output Duration	Set the output change duration time, the default is 5 seconds.
	Enable or disable trigger by DTMF. The device will check the received
Trigger by DTMF	DTMF sent by remote device, if it matches the DTMF trigger code, the
,	device will trigger corresponding output port.
DTMF Trigger Code	Input the DTMF trigger code, default value is 1234.
DTMF Reset Code	Input the DTMF reset code, default value is 4321.
	Reset the output port mode by duration or state.
	By duration: Reset the output port status when output duration occurs.
Reset By	By state: Reset the output port status when device's call state
	changes.
	Enable or disable trigger by URI.
TriananhaalIDI	User can send commands from remote device or server to A12V
Trigger by URI	series device, if the command is correct, then device will trigger
	corresponding output port.
Trigger Message	Input trigger message for trigger by URI mode.
Rest Message	Input reset message for trigger by URI mode.
	Enable or disable trigger by SMS.
Trigger by SMS	User can send ALERT command to A12V series device, if the
	command is correct, then device will trigger corresponding output port.
Trigger SMS	Input trigger message for trigger by SMS mode.
Reset SMS	Input reset message for trigger by SMS mode.
Trigger by Input	Select the input port, when the input port meets the trigger condition,
	the output port will be triggered (The Port level time change, By <
	Output Duration > control)
	Select call state to trigger the output port, options are:
Trigger By Call state	Talking: When the device's talking status changes, trigger the output
	port.



	Ringing: When the device's ringing status changes, trigger the output
	port.
	Calling: When the device's calling status changes, trigger the output
	port.
	Enable or disable trigger by dsskey. If any of the Call Button is
Trigger By DssKey	selected, when the Call Button application performs, the output port
	will be triggered.

9.23 Security Settings

The human figure recognition function is used in a variety of monitoring scenarios, when an outsider stays in the camera too much for a certain period of time, the alarm will be triggered. The related configuration functions are as follows:



picture 34 Humanoid Recognition Trigger

Table 23 Humanoid Recognition Trigger settings

Parameters	Description		
Humanoid Recognition Trigger			
Humanoid Recognition Switch			
Trigger Duration	Trigger Detection Duration: A humanoid with the same		
	characteristics continues to appear in the screen for xx seconds,		
	then the trigger action configured below is triggered.		
Trigger Interval Time	Interval between this trigger and the next trigger		
Trigger Mode			



Trigger Short Message	Whether to trigger a short message	
Trigger Call Key	Select the call key that needs to be triggered. Default is None, you	
	can configure Dsskey1, Dsskey2	
Trigger Output	Select the output port to be triggered	
Alarm Ringtone	Select the alarm ringing tone	
Trigger Alarm Ringtone	Set the duration of alarm ringing	
Interval Time		

9.24 Call list >> Call List

Restricted Incoming Calls

It same as blacklist. By adding a number into the blacklist, user will no longer receive phone call from that number and it will be rejected automatically by the device until user delete it from the blacklist.

User can add specific number to be blocked, or a prefix where any numbers matched the prefix will all be blocked.

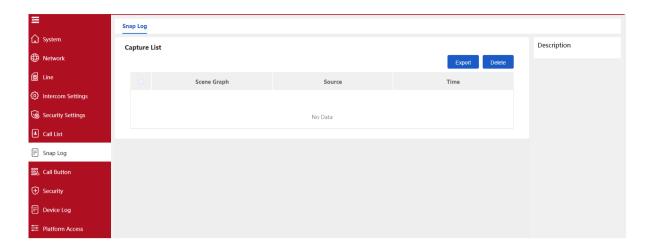
Restrict Outgoing Call

You can set the rule to restrict some numbers from dialing out,until you remove the number from the table.

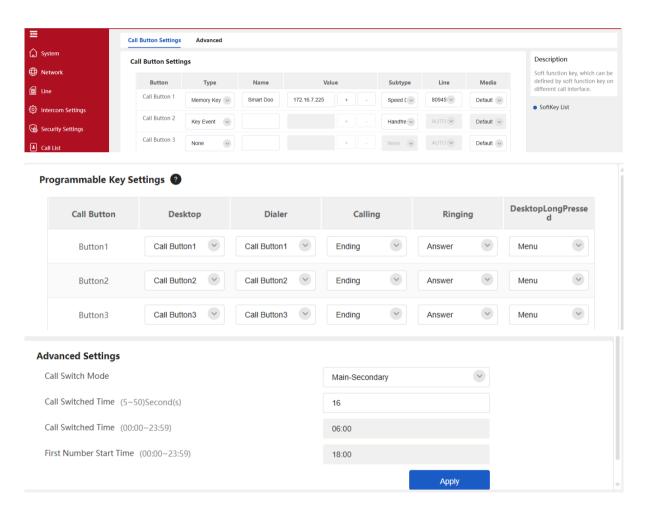
9.25 Snap log

This list is used to display the captured images. If the image exists locally (device storage or SD card), then you can view the detailed image again in this list; if the image exists in a third party server, then the name of the image is displayed, and the customer can find the corresponding image in the server by comparing the name of the image.





9.26 Call Button



Picture 35- Call Button

Table 24- Call Button

Parameters Description



Function key sett	tings		
memory	Speed Dial: The user can directly dial the set number. This feature is		
	convenient for customers to dial frequent numbers.		
	Intercom: This feature allows the operator or secretary to quickly connect		
	to the phone, widely used in office environments		
Key event	The user can select a function key as a shortcut to trigger an event		
	example: None /Handfree		
DTMF	Press during a call to send the set DTMF		
Mcast Paging	Configure the multicast address and voice encoding. User can in		
	multicast by pressing this key		
Action URL	The user can use a specific URL to make basic calls to the device,		
	the door, etc.		
Mcast Listening	In standby, press the function key, if the RTP of the multicast is detected,		
	the device will monitor the multicast		
PTT	Speed dial: Make a call when pressed, and end the call when lifted.		
	Intercom: Start the intercom when pressed, and end the intercom when		
	lifted.		
	Multicast: Initiate multicast when pressed, and end multicast when lifted		
Programmable Ke	y Settings		
Desktop	None: Nothing happens when you press the speed dial		
	Call Button1: When it is set to Call Button1, follow the settings of Call		
	Button1 to make call, answer, etc.		
	Call Button2: When it is set to Call Button2, perform operations such as		
	calling and answering according to the setting of Call Button2		
	Call Button3: When it is set to Call Button3, perform operations such as		
	calling and answering according to the setting of Call Button3		
Dialer	None: Nothing happens when you press the speed dial		
	Call Button1: When it is set to Call Button1, follow the settings of Call		
	Button1 to make call, answer, etc.		
	Call Button2: When it is set to Call Button2, perform operations such as		
	calling and answering according to the setting of Call Button2		
	Call Button3: When it is set to Call Button3, perform operations such as		
	calling and answering according to the setting of Call Button3		
Ringing	Answer: Set to answer, when there is an incoming call, if auto answer is		
	disabled, press the speed dial key to answer the call		
	End: set to end, when there is an incoming call, press the speed dial		
	button to hang up the call		
Talking	End: set to end, when there is a call, press the speed dial key to hang up		



	the call
	Volume up: set as volume up button, when there is a call, press the speed
	dial button to increase the volume
	Volume down: set as volume up button, when there is a call, press the
	speed dial button to decrease the volume
	Call Button1: When it is set to Call Button1, follow the settings of Call
	Button1 to make call, answer, etc.
	Call Button2: When it is set to Call Button2, perform operations such as
	calling and answering according to the setting of Call Button2
	Call Button3: When it is set to Call Button3, perform operations such as
	calling and answering according to the setting of Call Button3
Desktop Long	None: Long press the Call Button does not respond
Pressed	Main menu: Long press the Call Button to enter the command line mode,
	see 5.2.1 Common Command Mode for details
Advanced Settings	
	Number 1 call number 2 mode selection.
	<main secondary="">: If the first number is not answered within the set time,</main>
Hot Key Dial Mode	the second number will be automatically switched.
Select	<day night=""> : The system time is automatically detected during the call. If</day>
	it is daytime, the first number is called, otherwise the second number is
	called.
Call Switched Time	Set number 1 to call number 2 time, default 16 seconds
Day Start Time	The start time of the day when the <day night=""> mode is defined. Default</day>
	"06:00"
Day Find Time	The end time of the day when the <day night=""> mode is defined. Default</day>
Day End Time	"18:00

> Memory

Enter the phone number in the input box. When you press the function key, the device will call out the set phone number. This button can also be used to set the IP address, press the function key to make an IP direct call.



Call Button Settings



Picture 36 - Memory Key

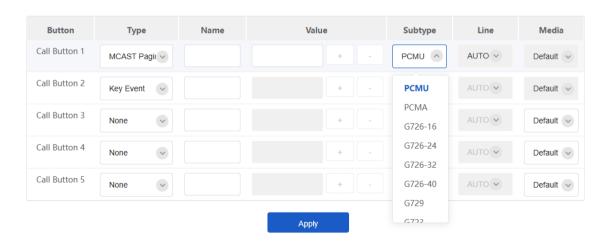
Table 25- Memory Key

Туре	number	line	Subtype	usage
	Fill in the SIP	The line	Speed Dial	Using the speed dial mode, press the button to quickly dial the set number.
memor y	account or IP address of the called party	correspon ding to the SIP account	Intercom	Using the intercom mode, when the SIP phone at the opposite end supports the intercom function, the call can be automatically answered.

Multicast

Multicast function is to deliver voice streams to configured multicast address; all equipment monitored the multicast address can receive and play the broadcasting. Using multicast functionality would make deliver voice one to multiple which are in the multicast group simply and conveniently.

The Call Button multicast web configuration for calling party is as follow:



Picture 37- Multicast

Table 26- Web Multicast



Туре	Number	Subtype
Multicast		G.711A
	Set the host IP address and port number, they must	G.711U
	be separated by a colon (The IP address range is	G.729AB
	224.0.0.0 to 239.255.255.255, and the port number	iLBC
	is preferably set between 1024 and 65535)	opus
		G.722

> PTT

Keep pressing the shortcut key set to make a call, release it and hang up

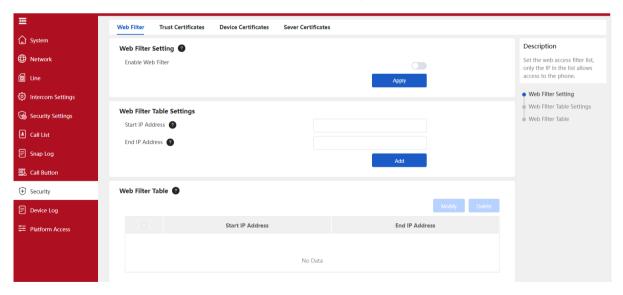
Call Button Settings



Picture 38 - Advanced Setting

9.27 Security >> Web filter

Users can set up to allow only a certain network segment IP to access the device







Picture 39- WEB filter

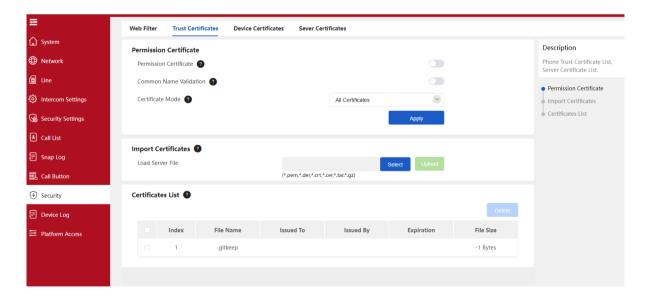
Add and delete the allowed IP network segments; configure the start IP address in the start IP, configure the end IP address in the end IP, and then click [Add] to add successfully. You can set a large network segment or add it into several network segments. When deleting, select the starting IP of the network segment to be deleted in the list, and then click [Delete] to take effect.

Enable web filtering: configure to enable/disable web access filtering; click the [Submit] button to take effect

Note: If the device you access to the device is on the same network segment as the device, do not configure the web filtering network segment to be outside your own network segment, otherwise you will not be able to log in to the web page.

9.28 Security >> Trust Certificates

You can upload and delete uploaded trust certificates.



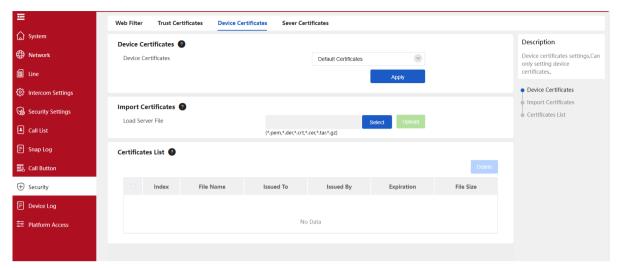
Picture 40 - Trust Certificates

9.29 Security >> Device Certificates

Select the default certificate or the custom certificate as the device certificate.

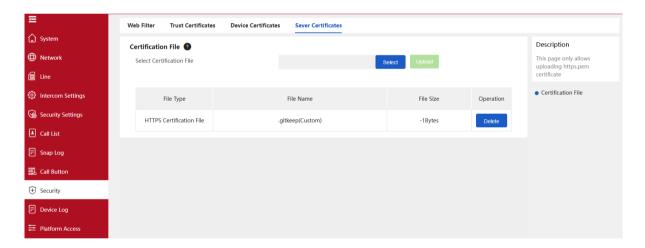


You can upload and delete uploaded certificates.



Picture 41- Device Certificates

9.30 Security >> Firewall



Picture 42 - Firewall

Through this page, you can set whether to enable the input and output firewalls, and at the same time, you can set the input and output rules of the firewall. Use these settings to prevent malicious network access, or restrict internal users from accessing some resources of the external network, and improve safety.

The firewall rule setting is a simple firewall module. This function supports two kinds of rules: input rules and output rules. Each rule will be assigned a serial number, and a maximum of 10 each rule can be set.

Taking into account the complexity of firewall settings, the following will illustrate with an example:

Table 27- Web Firewall



parameter	Description	
Enable Input Rules	whether enable Input Rules	
Enable Output Rules	Whether enable Output Rules	
input/output	Select the current rule as an input or output rule	
Deny/permit	Choose the current rule is deny or allowed;	
protocol	There are four types of protocols: TCP, UDP, ICMP, IP。	
Port range	Port range	
Src Address	The source address can be the host address, network address, or	
	all addresses 0.0.0.0; it can also be a network address similar to	
	..*.0, such as 192.168.1.0.	
Dst Mask	The destination address can be a specific IP address or all	
	addresses 0.0.0.0; it can also be a network address similar to	
	..*.0, such as 192.168.1.0.	
Src Port Range	It is the source address mask. When it is configured as	
	255.255.255.255, it means it is a specific host. When it is set as a	
	subnet mask of type 255.255.255.0, it means that the filter is a	
	network segment;	
	It is the destination address mask. When it is configured as	
Det Port Pango	255.255.255.255, it means it is a specific host. When it is set as a	
Dst Port Range	subnet mask of 255.255.255.0 type, it means that a network	
	segment is filtered;	

After setting, click [Add], a new item will be added to the firewall output rules, as shown in the figure below:



Picture 43- Firewall rules list

Then select and click the button [Submit].

In this way, when the device runs: ping 192.168.1.118, it will not be able to send data packets to 192.168.1.118 because of the prohibition of the output rule. But ping other IPs in the 192.168.1.0 network segment can still receive the response packets from the destination host normally.





Picture 44- Delete firewall rules

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

9.31 Device log

You can crawl the device log, when you encounter unusual problems, please send the device log to the technical staff for positioning problem. For more detail 10.5 get device log.



10 Trouble Shooting

When the device is not working properly, users can try the following methods to restore the device to normal operation or collect relevant information to send a problem report to the Fanvil technical support mailbox.

10.1 Get device system information

Users can obtain information through the [**System**] >> [**Information**] option on the device webpage. The following information will be provided:

Device information (model, software and hardware version) and Internet Information etc.

10.2 Reboot device

User can restart the device through the webpage, click [System] >> [Reboot Phone] and click [Reboot] button, or directly unplug the power to restart the device.

10.3 Device factory reset

Restoring the factory settings will delete all configurations, database and configuration files on the device and the device will be restored to factory default state.

To restore the factory settings, please go to [System] >> [Configuration] >> [Reset Phone] page, and click [Reset] button, the device will return to the factory default state.

10.4 Network Packets Capture

In order to obtain the data packet of the device, the user needs to log in to the webpage of the device, open the webpage [System] >> [Tools], and click the [Start] option in the "Network Packets Capture". A message will pop up asking the user to save the captured file. At this time, the user can perform related operations, such as starting/deactivating the line or making a call, and clicking the [Stop] button on the webpage after completion. Network packets during the device are saved in a file. Users can analyze the packet or send it to the Fanvil Technical Support mailbox.



10.5Get device log

Log information is helpful when encountering abnormal problems. In order to obtain the log information of the device, the user can log on to the device web page, open the web 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 the local for analysis or send the log to the technician to locate the problem.

10.6 Common Trouble Cases

Table 28 - Trouble Cases

Trouble Case	Solution
Device could not boot up	The device is powered by external power supply via power
	adapter or POE switch. Please use standard power adapter provided
	or POE switch met with the specification requirements and check if
	device is well connected to power source.
	2. If the device enters "POST mode" (the SIP/NET and function button
	indicators are always on), the device system is damaged. Please
	contact your location technical support to help you restore your
	equipment system.
Device could not register to a	Please check if the device is connected to the network.
service provider	2. If the network connection is good, please check your line
	configuration again. If all configurations are correct, contact your
	service provider for support, or follow the instructions in "10.4 Network
	Data Capture" to obtain a registered network packet and send it to the
	Fanvil Support Email to help analyze the issue.