

PA2S User Manual

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Directory

Direct	tory	2
1 Pict	ture	4
2 Tab	ole	6
3 Saf	ety Instruction	7
	erview	
	tall Guide	
	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 Hec	er Guide	
	6.1 Interface description	
	6.2 Installation instructions.	
	6.2.1 Installation	
	6.2.2 Device IP address	
	6.3 WEB configuration	
	6.4 SIP Configurations	
	6.5 Volume setting	
	6.6 Set the player type	
7 Bas	sic Function	17
	7.1 Making Calls	17
	7.2 Answering Calls	
	7.3 End of the Call	
	7.4 Auto Answer	17
	7.5 Call Waiting	19
8 Adv	vance Function	21
	8.1 Intercom	21
	8.2 MCAST	
	8.3 Hotspot	23
9 Wel	b Configurations	25
	9.1 Web Page Authentication	
	9.2 System >> Information	
	9.3 System >> Account	
	9.4 System >> Configurations	

	9.5 System >> Upgrade	27
	9.6 System >> Auto Provision	29
	9.7 System >> FDMS	32
	9.8 System >> Tools	33
	9.9 Network >> Basic	33
	9.10 Network >> service port	35
	9.11 VPN	36
	9.12 Network >> Advanced	38
	9.13 LINES >> SIP	39
	9.14 Line >> SIP Hotspot	45
	9.15 Line >> Basic Settings	45
	9.16 Intercom settings >> Features	47
	9.17 Intercom settings >> media	49
	9.18 Intercom settings>>Camera Settings	51
	9.19 Intercom Setting >> MCAST	54
	9.20 Intercom Setting >> Action URL	54
	9.21 Intercom Setting >> Time/Date	55
	9.22 Intercom settings>>Time plan	57
	9.23 Intercom settings >> Tone	58
	9.24 Call list >> Call List	58
	9.25 Call list >> Web Dial	59
	9.26 Function key	60
	9.27 Security >> Web filter	64
	9.28 Security >> Trust Certificates	65
	9.29 Security >> Device Certificates	65
	9.30 Security >> Firewall	66
	9.31 Device log	68
	9.32 Security settings	68
10 1	Trouble Shooting	70
	10.1 Get device system information	70
	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 - Interface display	11
Picture 2 - WEB Login	14
Picture 3 - SIP Line Configuration	15
Picture 4 - Volume Set	15
Picture 5 - Speaker	16
Picture 6 - Function Setting	17
Picture 7 - WEB line enable auto answer	18
Picture 8 - Enable auto answer for IP calls	18
Picture 9 - Call Waiting	19
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 - FDMS	32
Picture 20 - Tools	33
Picture 21 - Network Basic Setting	34
Picture 22 - Service port setting interface	35
Picture 23 - Network VPN	36
Picture 24 - Network Setting	38
Picture 25 - SIP	41
Picture 26 - Basic Settings	46
Picture 27 - Line Basic Setting	46
Picture 28 - Feature	47
Picture 29 - Media Settings	49
Picture 30 - Camera Settings	51
Picture 31 - Snapshot	54
Picture 32 - Action URL	55
Picture 33 - Time/Date	56
Picture 34 - Time Plan	57
Picture 35 - Tone	58
Picture 36 - Webpage Dial	59

Picture 37 - Function Key	60
Picture 38 - Memory Key	62
Picture 39 - Multicast	63
Picture 40 - Advanced Setting	64
Picture 41 - WEB filter	64
Picture 42 - Trust Certificates	65
Picture 43 - Device Certificates	66
Picture 44 - Firewall	66
Picture 45 - Firewall rules list	67
Picture 46 - Delete firewall rules	68
Picture 47 - Security Settings	68

2 Table

Table 1 - Common command mode	9
Table 2 - Function key LED status	10
Table 3 - Interface Description	11
Table 4 - Configuration instructions	
Table 5 - Power Supply	
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 - FDMS	32
Table 12 - Network Basic Setting	34
Table 13 - Server Port	36
Table 14 - Network Setting	
Table 15 - SIP	41
Table 16 - Line Basic Setting.	46
Table 17 - Common device function Settings on the web page	47
Table 18 - Audio Settings.	49
Table 19 - Camera Settings	51
Table 20 - Action URL	54
Table 21 - Time/Date	56
Table 22 - Time Plan.	57
Table 23 - Function Key.	60
Table 24 - Memory Key	62
Table 25 - Web Multicast	63
Table 26 - Web Firewall	67
Table 27 - Security Settings	68

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

PA2S is a SIP audio&video intercom and Public Announcement system device for industry application. The media stream transmission adopts standard IP/RTP/RTSP protocols. It has various functions and interfaces, such as Intercom, video, broadcast, recording and short circuit trigger, to adapt different application environments. Users can DIY the paging device easily.

5 Install Guide

5.1 Use POE or external Power Adapter

PA2S called as 'the device' hereafter, supports two power supply modes, power supply from external power adapter or over Ethernet (POE) complied switch.

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

For users who do not have POE equipment, the traditional power adaptor should be used. If the device is connected to both POE switch and external power adapter, PA2S 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 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	Standby long press volume - 3 seconds to report IP	
	Long press the volume + 3 seconds to enter the command mode,	
	the beep will sound, and within 5 seconds, press 3 times quickly to	
Switch network	switch the network mode; if there is no IP currently, switch to the	
mode	default static IP (192.168.1.128) DHCP mode; when DHCP	
	obtains IP, it will report IP directly without switching;	
	Report IP after successful switching	

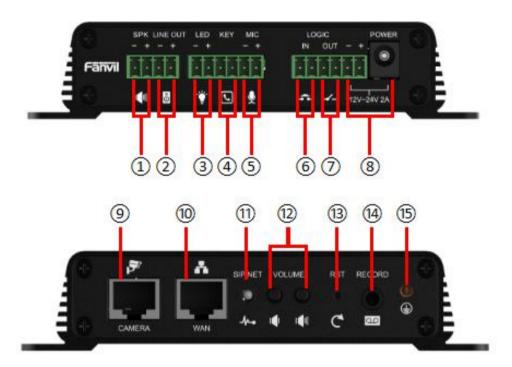
5.2.2 Function key LED status

Table 2- Function key LED status

Туре	LED	status
SIP/NET	Normally on	Successfully Registered
	Fast Flashing	Registration failed/network abnormality
	Slow Flashing	In call

6 User Guide

6.1 Interface description



Picture 1- Interface display

Table 3- Interface Description

Number	Name	Description	
	Speaker port	Speaker port: according to the device input voltage adaptive	
		output maximum power.	
(1)		4Ω spkaker, POE/10W, 12V/10W, 18V/20W, 24V/30W.	
		The greater the horn impedance, the smaller the output	
		power.	
		Suggested wire diameter: 18AWG or larger diameter.	
2	Line out port audio signal output, for external headset or active speaker		
	(3) LED port	5V / 5mA output, can be an external LED, indicating the	
		network status, call status, registration status.	
4	Function	connection the function button, you can make an emergency	
4)	button port	call through this button.	
5	Microphone	the multiplex port is microphone input by default, which can	

port & line in be configured as audio line input function through software	
port a)Sensitivity: -38dB, bias voltage 2.2V.	are.
b)Microphone signal cable it is recommended to	use a
shielded cable and connect the shield cable to the grou	unding
screw, improve anti-interference.	
Switch input the connection switch, you need to log on to the re	elevant
port settings page.	
corresponding to the short-circuit input port, login	device
Switch security page settings, you can control the alarm light, e	electric
output port locks and other device, with the ® power port connect	ion for
external device power supply.	
8 Power input 12V ~ 24V 2A input, according to the input volta	ige to
port determine the maximum output power amplifier.	
9 Camera port standard RJ45 port, connect the original camera	a, the
proposed use of five or five sub-network cable.	
WAN port, standard RJ45 port, 10 / 100M adaptive, s	upport
10 Ethernet port PoE input. It is recommended to use five or super five no	etwork
cable.	
Network / indicates network status, call status, registration status.	
Fast flashing: network anomaly or SIP account exceptio	n.
Slow flashing: during a call.	
Always bright: successful registration.	
standby to adjust the volume of the ringtone, call only	adjust
the call volume.	
a)Volume decrease key: adjust ring volume / call vol	lume /
(12) broadcast volume. Long press the volume down k	key to
control keys broadcast the IP address by voice.	
b)Volume increase key: adjust ring volume / call vol	ume /
broadcast volume.	
press and hold for 3S, and the indicator light will turn o	ff, and
the device will restart and restore the factory settings.	_
Recording mixed output of local microphone voice and call voice.	
mixed output of local microphone voice and call voice.	
the metal shell of external accessories or access of	control
Grounding panel shall be connected to this port to prevent abr	normal
screw operation of equipment caused by static electricity and	other
port. (except microphone accessories)	

6.2 Installation instructions

6.2.1 Installation

The first step: the device with metal strips (user-owned) fixed in the installation location.

The second step: connect the function key, speaker, microphone and other peripheral devices to the corresponding port. (metal shell with thick wires connected to the device grounding screw.)

The third step: plug the network cable and power, the device light flashes on behalf of the power connection is normal.

6.2.2 Device IP address

Method 1:

Open the iDoorPhone Network Scanner. Press the Refresh button to search the device and find the IP address.



Method 2:

Connect the speaker, by pressing the volume down key for 3 seconds (after 30 seconds after power on),the device automatically voice broadcast the machine's IP address.

Method 3:

Long press the volume up key for 3 seconds, the speaker issued a rapid beep, and then quickly press the Volume up key three times, beep stopped. Wait 10 seconds, successfully switch to dynamic IP after the system automatically voice broadcast IP address. Switching again will become a fixed IP address.

Table 4 - Configuration instructions

Default configuration			
DHCP mode	Default enable	Static IP	192.168.1.128
Voice read IP address	Long press the volume	Server port	80
	down button for 3		
	seconds		

6.3 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 2 - WEB Login

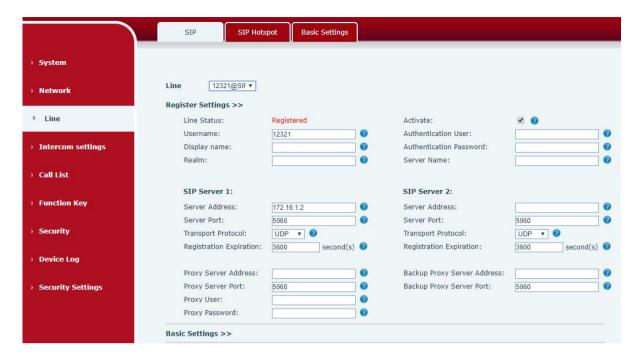
The username and password should be correct to log in to the web page. **The default username and password are "admin"**. For the specific details of the operation of the web page, please refer to 9 Web Configurations

6.4 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 3 - SIP Line Configuration

6.5 Volume setting

Set the volume (if the speaker or microphone is not connected, you can skip it)

[Phone 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.



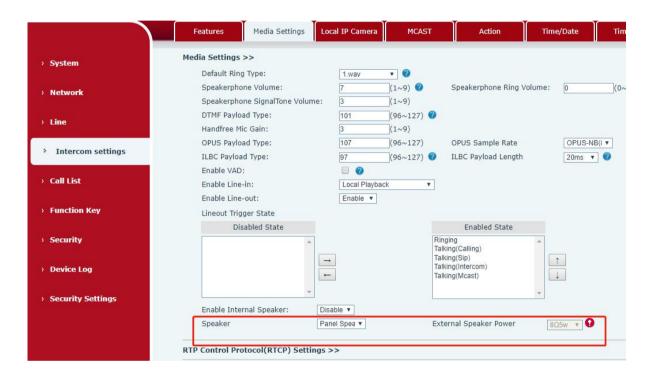
Picture 4- Volume Set

6.6 Set the player type

Set the player type (the default is panel speaker mode)

[Phone Settings] >> [Media Settings] >> [Media Settings]

The system defaults to the **<panel speaker>** mode, which is an intercom panel terminal with a shell. In order to ensure the voice effect of hands-free intercom and avoid damage to the speaker, When speaking, the output power is limited to less than 10W.



Picture 5- Speaker

If you need external speakers for broadcasting, you can adjust to the <external speakers> mode:

At this time, you can select 10W/20W/30W according to the power of the external speaker. Note that the corresponding power supply needs to be matched at this time:

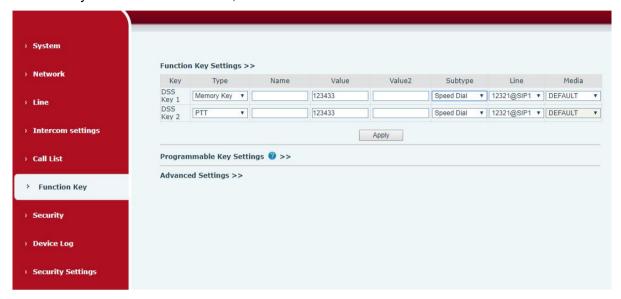
	Output Power	Speaker type
POE	10W	10W/4 Ω
12V/2A DC	10W	10W/4Ω
18V/2A DC	20W	20W/4Ω
24V/2A DC	30W	30W/4Ω

Table 5- Power Supply

7 Basic Function

7.1 Making Calls

After setting the function key to Speed dial and setting the number, press the function key to immediately call out the set number, as shown below:



Picture 6- Function Setting

See detailed configuration instructions 9.26 Function 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 Function Key.

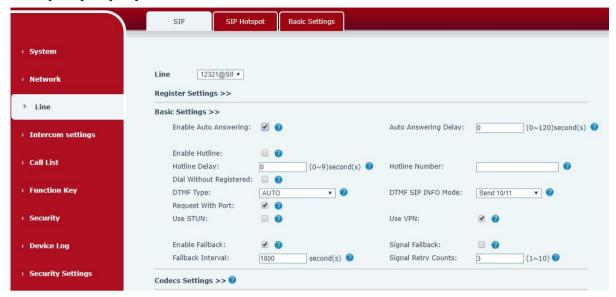
7.4 Auto Answer

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:

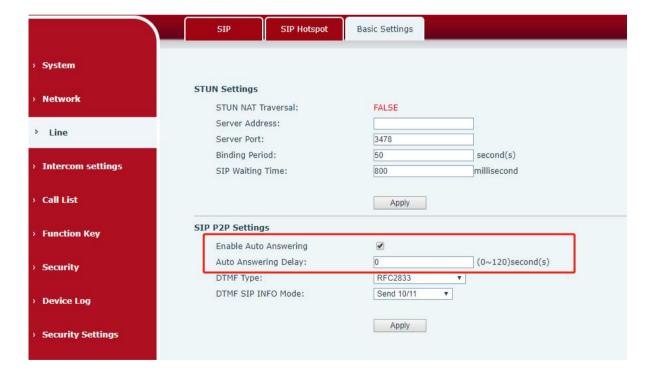
Enter [Line] >> [SIP], Enable auto answer and set auto answer time and click submit.



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

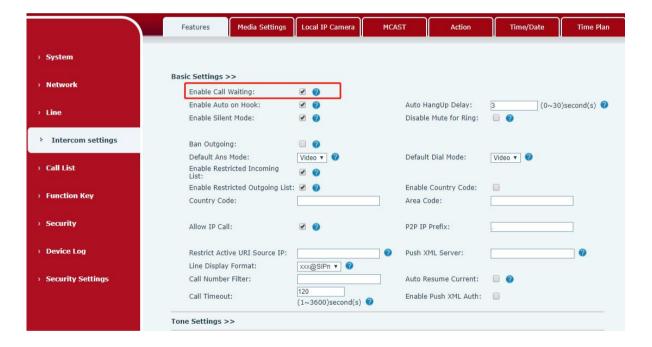
Auto Answer Timeout (0~120)

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

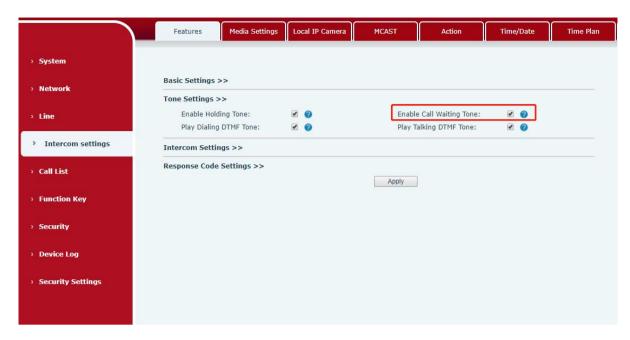
is set.

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 [Phone Settings] >> [Features], enable/disable call waiting, enable/disable call waiting tone.



Picture 9 - Call Waiting

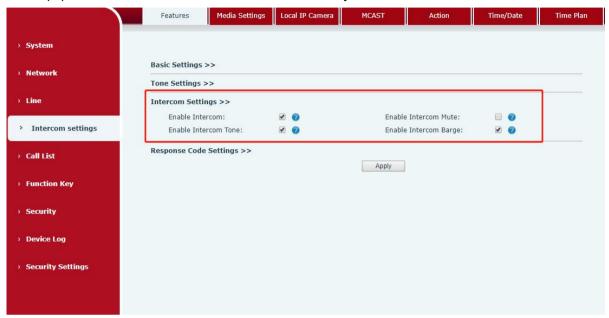


Picture 10 - Call Waiting tone

8 Advance Function

8.1 Intercom

The equipment can answer intercom calls automatically.



Picture 11 - WEB Intercom

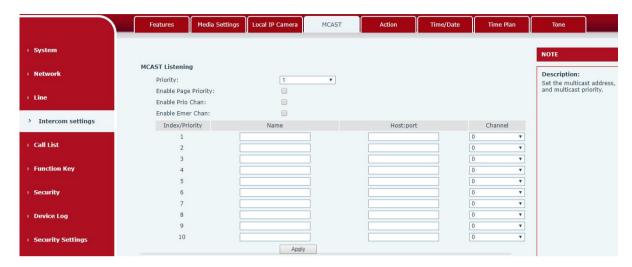
Table 6- Intercom

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, PA2S 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
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 [Phone 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.

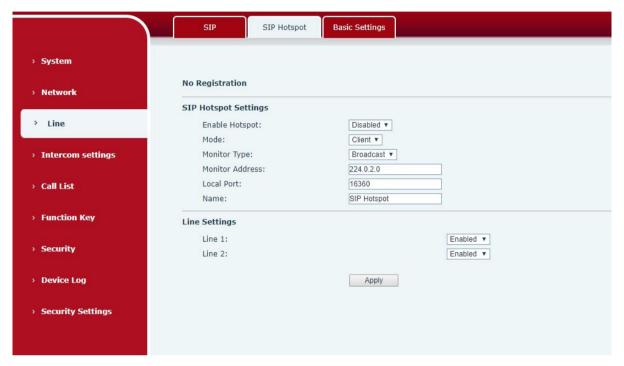
Table 8 - SIP Hotspot

Parameters	Description
Enable Hotspot	Enable or disable hotspot
Mode	This device can only be used as a client
Monitor Type	The monitoring type can be broadcast or multicast. If you want to restrict
	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

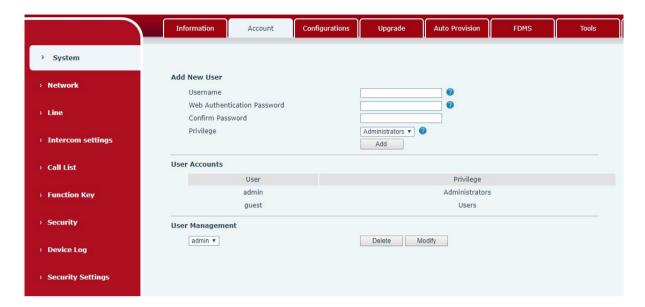
And summarization of network status,

- 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



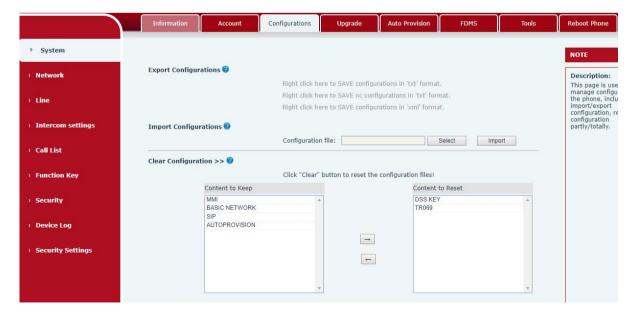
Picture 14- WEB Account

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

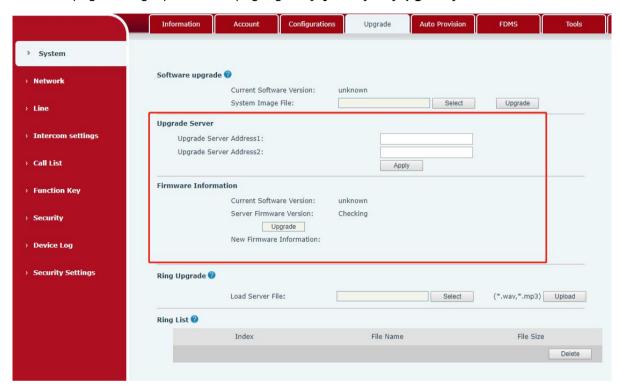
Upgrade the software version of the device, and upgrade to the new version through the

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].



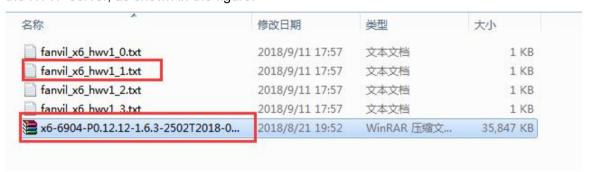
Picture 17 - Web page firmware upgrade

Table 9- Firmware upgrade

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

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

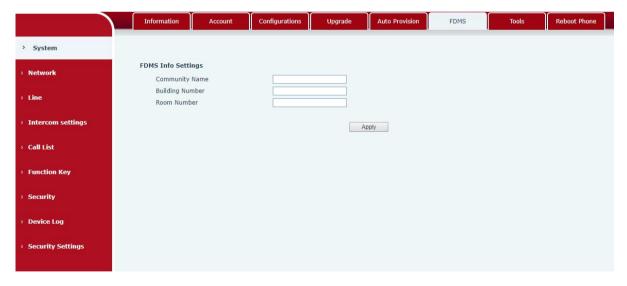
Table 10- Auto Provision

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
	downloaded configuration file is same with this one, the
General	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.	
	If this is blank the phone will use anonymous	
Authentication	Password for configuration server. Used for FTP/HTTP/HTTPS.	
Password	<u> </u>	
Configuration File	Encryption key for the configuration file	
Encryption Key		
General		
Configuration File	Encryption key for common configuration file	
Encryption Key		
Download Fail Ched	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 SID compare address through DLICD setion 100	
120	Set the SIP server address through DHCP 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 SIF FIIF	support the feature will respond and send a Notify with URL to	
	phone. Phone could get the configuration file with the URL.	
Server Address	Broadcast address. As default, it is 224.0.0.0.	
Server Port	PnP port	
Transport		
Protocol	PnP protocol, TCP or UDP.	
Update Interval	PnP message interval.	
Static Provisioning	g Server	
Comion Address	Set FTP/TFTP/HTTP server IP address for auto update. The address	
Server 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	
Update Interval	Configuration file update interval time. As default it is 1, means	
l	I	

	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	ISTROOP: III III III III III III III III III I	
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 >> FDMS



Picture 19 - FDMS

Table 11- FDMS

FDMS information Settings	
Community Designations	Name of equipment installation community

Building a movie theater	Name of equipment installation building
room number	Equipment installation room name

9.8 System >> Tools

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

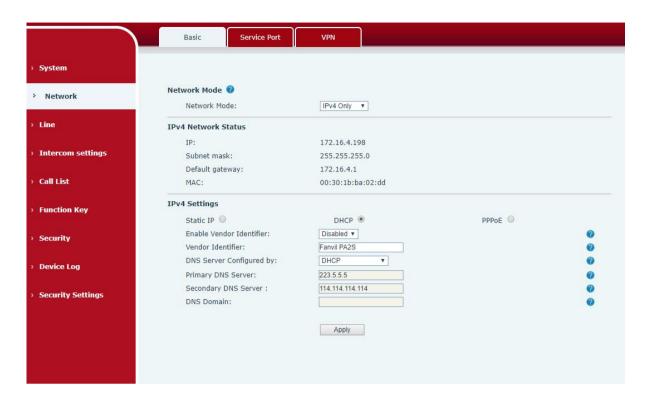


Picture 20 - Tools

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 technical support.

9.9 Network >> Basic

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



Picture 21 - Network Basic Setting

Table 12 - Network Basic Setting

Field Name	Explanation		
Network Sta	Network Status		
IP	The current IP address of the equipment		
Subnet mask	The current Subnet Mask		
Default gateway	The current Gateway IP address		
MAC	The MAC address of the equipment		
MAC Time 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.		

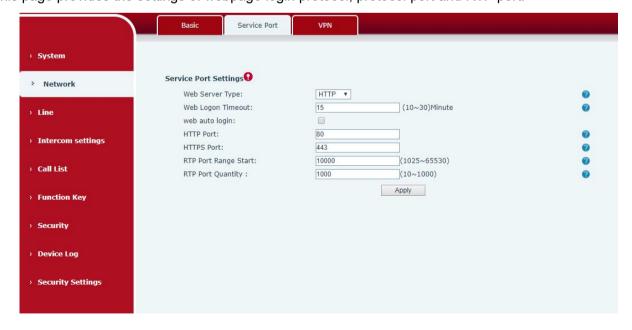
If Static IP is chosen, the screen below will appear. Enter values provided by the ISP.		
DNS Server		
Configured	Select the Configured mode of the DNS Server.	
by		
Primary DNS	Enter the conver address of the Primary DNS	
Server	Enter the server address of the Primary DNS.	
Secondary	Enter the conver 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

9.10Network >> service port

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

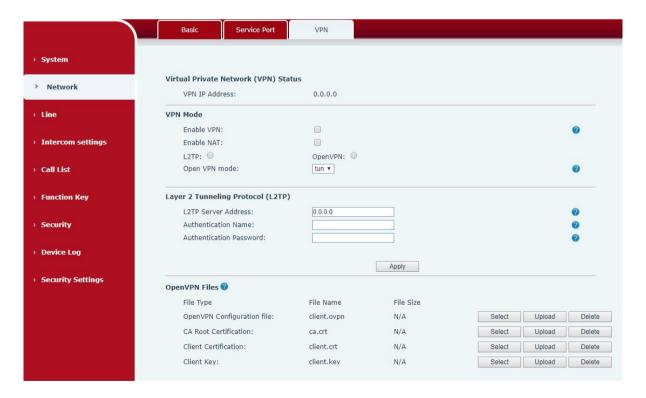


Picture 22- Service port setting interface

Table 13- 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

9.11 VPN



Picture 23- 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

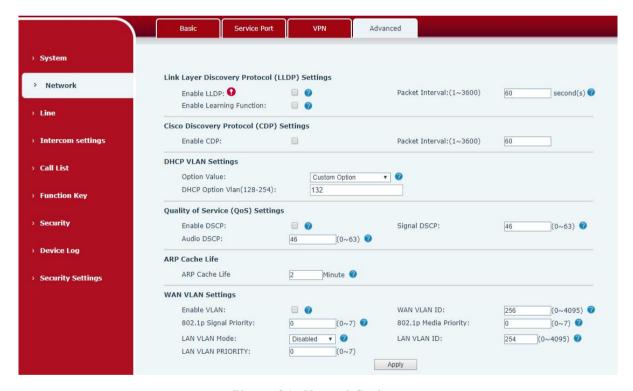
37

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.

9.12 Network >> Advanced

When the camera connection mode is external, the network advanced can be set. The local camera does not support advanced network settings.



Picture 24 - Network Setting

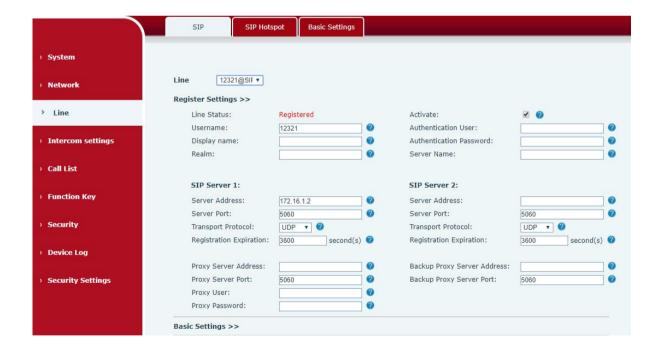
Network advanced Settings are typically configured by IT administrators to improve the quality of device service.

Table 14- 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		
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	

9.13LINES >> SIP



sic Settings >>					
Enable Auto Answering:	2 0	Aut	o Answering Delay:	0	(0~120)second(s)
Enable Hotline:	0				
Hotline Delay:	0 (0~9)sec	ond(s) 🕜 Hot	line Number:		0
Dial Without Registered:					
DTMF Type:	AUTO ▼ Ø	DTI	MF SIP INFO Mode:	Send 10/11	7 0
Request With Port:	?				
Use STUN:		Use	VPN:	?	
Enable Failback:	2 0	Sig	nal Failback:	0	
Failback Interval:	1800 second(s)) 🕖 Sig	nal Retry Counts:	3	(1~10)
			Annu Talan III		
odecs Settings >> 🕖					
Disabled Codecs:			Enabled Codecs:		
=	A .		G.711U	*	
	-		G.711A G.729AB		1
			iLBC		
	,		opus		*
1	<u>×</u>		G 722	×	
Enable Blocking Anonymous Call: Call Waiting On Code:		Call:	ole Blocking Anonymou Waiting Off Code:	5	0
Send Anonymous On Code:		Send	Anonymous Off Code:		0
Enable Session Timer:	0	Sessi	on Timeout:	0	second(s) 0
Response Single Codec:	0	BLF S			
Keep Alive Type:			server;	1	0
	UDP v	Кеер	Alive Interval:	30	second(s) 0
Keep Authentication:				30	second(s) 0
Keep Authentication: RTP Encryption(SRTP):	UDP v		Alive Interval:	30	second(s) 0
	UDP v	Block	Alive Interval:	30 O	
RTP Encryption(SRTP):	UDP v	Block Speci	Alive Interval: ing Anonymous Call:	• •	
RTP Encryption(SRTP): User Agent:	UDP ▼ O Disabled ▼ O	Block Speci Anon	Alive Interval: ing Anonymous Call: ific Server Type:	COMMON	V 0
RTP Encryption(SRTP): User Agent: SIP Version:	UDP ▼ O Disabled ▼ RFC3261 ▼ O	Speci Anon Ring	Alive Interval: ing Anonymous Call: ific Server Type: ymous Call Standard:	COMMON	v @
RTP Encryption(SRTP): User Agent: SIP Version: Local Port:	UDP ▼	Speci Anon Ring Use 1	Alive Interval: ing Anonymous Call: ific Server Type: ymous Call Standard: Type:	COMMON None Default	v @
RTP Encryption(SRTP): User Agent: SIP Version: Local Port: Enable user=phone:	UDP ▼	Speci Anon Ring Use 1	Alive Interval: ing Anonymous Call: ific Server Type: ymous Call Standard: Type: fel Call:	COMMON None Default	v @
User Agent: SIP Version: Local Port: Enable user=phone: Auto TCP:	UDP ▼	Speci Anon Ring Use 1 Enab	Alive Interval: ing Anonymous Call: ific Server Type: ymous Call Standard: Type: fel Call:	COMMON None Default	v @
RTP Encryption(SRTP): User Agent: SIP Version: Local Port: Enable user=phone: Auto TCP: Enable Rport: DNS Mode: Enable Strict Proxy:	UDP ▼	 Speci Anon Ring Use 1 Enab 	Alive Interval: ing Anonymous Call: ific Server Type: ymous Call Standard: Type: fel Call: le PRACK:	COMMON None Default	v @
RTP Encryption(SRTP): User Agent: SIP Version: Local Port: Enable user=phone: Auto TCP: Enable Rport: DNS Mode:	UDP ▼	Speci Anon Ring Use 1 Enab Conv	Alive Interval: ing Anonymous Call: ific Server Type: ymous Call Standard: Type: fel Call: le PRACK:	COMMON None Default	v @
User Agent: SIP Version: Local Port: Enable user=phone: Auto TCP: Enable Rport: DNS Mode: Enable Strict Proxy: Use Quote in Display	UDP ▼	Speci Anon Ring Use 1 Enab Conv Enab	Alive Interval: ing Anonymous Call: ific Server Type: ymous Call Standard: Type: Fel Call: le PRACK:	COMMON None Default ② ②	v @
User Agent: SIP Version: Local Port: Enable user=phone: Auto TCP: Enable Rport: DNS Mode: Enable Strict Proxy: Use Quote in Display Name:	UDP ▼	Ø Speci Anon Ø Ring Use 1 Enab Conv Enab Lose 1	Alive Interval: ing Anonymous Call: ific Server Type: ymous Call Standard: Type: fel Call: le PRACK: le Long Contact: ert URI: le GRUU: le Use Inactive Hold: 182 Response for Call	COMMON None Default ② ③	v @
User Agent: SIP Version: Local Port: Enable user=phone: Auto TCP: Enable Rport: DNS Mode: Enable Strict Proxy: Use Quote in Display Name: Sync Clock Time: Caller ID Header:	Disabled ▼ ② Disabled ▼ ② RFC3261 ▼ ② 5060 ② ② ② ② ② ② ② ② ② ② ② ② ② ② ② ② ② ②	Ø Speci Anon Ø Ring Use 1 Enab Conv Enab Use 2 Waitin	Alive Interval: ing Anonymous Call: ific Server Type: ymous Call Standard: Type: fel Call: le PRACK: le Long Contact: ert URI: le GRUU: le Use Inactive Hold: 182 Response for Call ng:	COMMON None Default ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ?	v @
User Agent: SIP Version: Local Port: Enable user=phone: Auto TCP: Enable Rport: DNS Mode: Enable Strict Proxy: Use Quote in Display Name: Sync Clock Time: Caller ID Header: Enable Feature Sync:	UDP ▼	Speci Anon Ring Use 1 Enab Conv Enab Use 1 waitin	Alive Interval: ing Anonymous Call: ific Server Type: ymous Call Standard: Type: fel Call: le PRACK: le Long Contact: ert URI: le GRUU: le Use Inactive Hold: 182 Response for Call ng: le SCA:	COMMON None Default ② ② ② ② ② ② ② ② ② ③	v @
User Agent: SIP Version: Local Port: Enable user=phone: Auto TCP: Enable Rport: DNS Mode: Enable Strict Proxy: Use Quote in Display Name: Sync Clock Time: Caller ID Header:	UDP ▼	Special Anon Vise 1 Enab Conv Enab Use 1 waitin Enab	Alive Interval: ing Anonymous Call: ific Server Type: ymous Call Standard: Type: fel Call: le PRACK: le Long Contact: ert URI: le GRUU: le Use Inactive Hold: 182 Response for Call ng:	COMMON None Default ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ?	v @
User Agent: SIP Version: Local Port: Enable user=phone: Auto TCP: Enable Rport: DNS Mode: Enable Strict Proxy: Use Quote in Display Name: Sync Clock Time: Caller ID Header: Enable Feature Sync: CallPark Number:	UDP ▼	Plack Pl	Alive Interval: ing Anonymous Call: iffic Server Type: ymous Call Standard: Type: fel Call: le PRACK: le Long Contact: ert URI: le GRUU: le Use Inactive Hold: 18.2 Response for Call ng: le SCA: er Expire:	COMMON None Default ② ② ② ② ② ② ② ② ② ③	v @

Enable MAC Header:

Unregister On Boot:

Picture 25- SIP

Table 15 - SIP

ster Settings	
Status	Display the current line status at page loading.
	To get the up to date line status, user has to
1	refresh the page manually.
er Address	Enter the IP or FQDN address of the SIP server
er Port	Enter the SIP server port, default is 5060
entication User	Enter the authentication user of the service
	account
entication Password	Enter the authentication password of the service
	account
name	Enter the username of the service account.
ay Name	Enter the display name to be sent in a call
1	request.
ate	Whether the service of the line should be
	activated
m I	Enter the SIP domain if requested by the service
1	provider
Proxy Server Address	Enter the IP or FQDN address of the SIP proxy
	server
y Server Port	Enter the SIP proxy server port, default is 5060
y User I	Enter the SIP proxy user
y Password	Enter the SIP proxy password
up Proxy Server Address	Enter the IP or FQDN address of the backup
1	proxy server
up Proxy Server Port	Enter the backup proxy server port, default is
	5060
c Settings	
ole Auto Answering	Enable auto-answering, the incoming calls will
	be answered automatically after the delay time
Answering Delay	Set the delay for incoming call before the system
	automatically answered it
Forward Unconditional	Enable unconditional call forward, all incoming
	calls will be forwarded to the number specified in

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

DTMF Type	Set the DTMF type to be used for the line	
DTMF SIP INFO Mode	Set the SIP INFO mode to send '*' and '#' or '10'	
	and '11'	
Enable DND	Enable Do-not-disturb, any incoming call to this	
	line will be rejected automatically	
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 Unconditional	Set the feature code to dial to the server	
Disable Call Forward Unconditional	Set the feature code to dial to the server	
Enable Call Forward on Busy	Set the feature code to dial to the server	
Disable Call Forward on Busy	Set the feature code to dial to the server	
Enable Call Forward on No Answer	Set the feature code to dial to the server	
Disable Call Forward on No Answer	Set the feature code to dial to the server	
Enable Blocking Anonymous Call	Set the feature code to dial to the server	
Disable Blocking Anonymous Call	Set the feature code to dial to the server	
Call Waiting On Code	Set the feature code to dial to the server	
Call Waiting Off Code	Set the feature code to dial to the server	
Send Anonymous On Code	Set the feature code to dial to the server	
Send Anonymous Off Code	Set the feature code to dial to the server	
SIP Encryption	Enable SIP encryption such that SIP	
	transmission will be encrypted	
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	
<u> </u>		

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
	1

	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
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 Call waiting	Set the device to use 182 response code at call
	waiting response
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

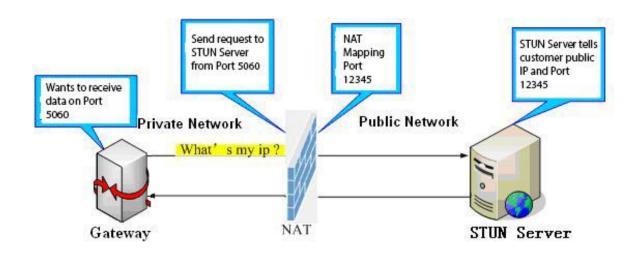
9.14 Line >> SIP Hotspot

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.

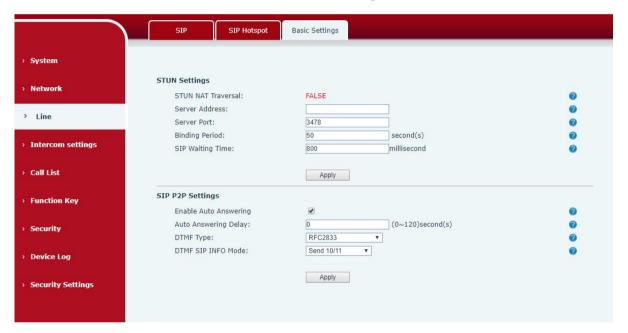
See 8.3 Hotspot for details.

9.15 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 26- Basic Settings



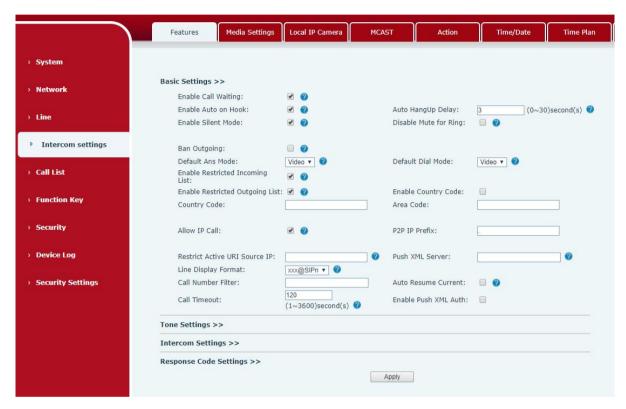
Picture 27 - Line Basic Setting

Table 16- 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	

9.16 Phone settings >> Features



Picture 28 - Feature

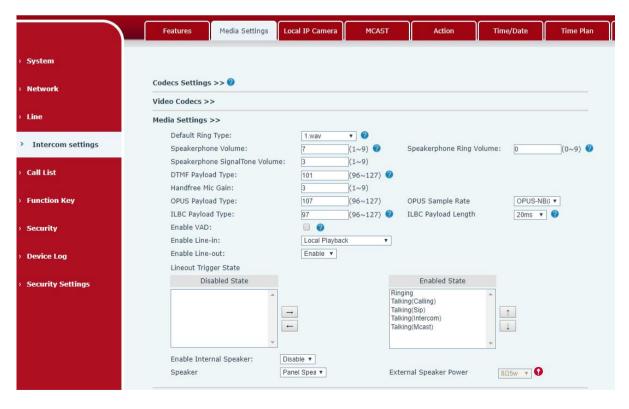
Table 17- Common device function Settings on the web page

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
	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.
Default Ans Mode	The video mode is used to answer calls by default, and it can be
Delault Aris Mode	changed to voice answering
Default Dial Mode	The default outgoing method is video, which can be changed to voice
	outgoing
Pon Outgoing	If you select Ban Outgoing to enable it, and you cannot dial out any
Ban Outgoing	number.
Enable Restricted	Whather enable Restricted Incoming List
Incoming List	Whether enable Restricted Incoming List
Enable Restricted	Wether enable Restricted Outgoing List
Outgoing List	Wether enable Nestricted Odigoling 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
Disable AEC	When disabled, the device will not support AEC
Restrict Active URI	Set the device to accept Active URI command from specific IP address.
Source IP	
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
Call Number Filter	Configure a special character & ,if the number is 78 & 9. The call will be
Can runnber i nici	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
Call Timeout	If the call is not answered, the call will be automatically hung up after the
Call Timeout	timeout
Enable Push XML Auth	To enable push xml auth, user password is required
Description	Display the model of the device
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		
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		
Busy Response Code	Set the SIP response code on line busy	
Reject Response Code	Set the SIP response code on call rejection	

9.17 Phone settings >> media



Picture 29- Media Settings

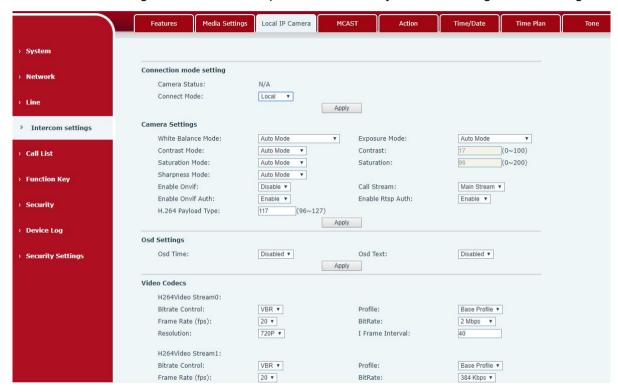
Table 18- Audio Settings

Parameters	Description
Codecs Settings	Select the enabled and disabled voice codecs
	codec:G.711A/U,G.722,G.729,ILBC,opus,G726-16/24/32/
	40,G723.1,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.
	Set the opus sample rate · including OPUS-NB(8KHz),
OPUS Sample Rate	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.
Enable Line-in	enable or disable the linein function
Enable Line-out	enable or disable the lineout function
Lineout Trigger State	After enabling, the corresponding operation will trigger the
	output port
Enable Internal Speaker	When enabled, the sound is played from the internal
	speakers
Speaker	Support panel speaker and external speaker
External Speaker Power	External speaker power , support 10W, 20W, 30W, when
	using the corresponding speaker, you must select the
	corresponding power supply.
Video Direction	Set Send And Receive, Send Only, Receive Only
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

9.18Phone settings>>Camera Settings

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



Picture 30- Camera Settings

Table 19- Camera Settings

Parameters	Description
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
White Balance	adjusted according to the actual color temperature.
Mode	Incandescent lamp mode: To compensate for the hue of incandescent lamps,
	it is suitable for use under beige light sources (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。
	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
Exposure Mode	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.
	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
Exposure Time	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.
	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
Exposure Gain	signal. The gain is generally only used when the signal is weak, but you do
	not want to increase the exposure time.
	Auto mode: The camera automatically sets the contrast according to the
Contrast Mode	environment, no need for the operator to adjust
	Manual mode: Manually set the camera's contrast parameters.
	Contrast refers to the contrast between light and dark in the picture. Increase
Contrast	the contrast, the brighter areas will be brighter and the darker areas will be
	darker, and the contrast between light and dark will increase.
	Auto mode: The camera automatically sets the saturation according to the
Saturation Mode	environment, without the need for the operator to adjust
	Manual mode: Manually set the camera's saturation parameters.
	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	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.
Sharpness Mode	Auto mode: The camera automatically sets the sharpness according to the
Orialphiess Wode	environment, no need for the operator to adjust

	Manual mode: Manually set the sharpness parameters of the camera	
	Sharpness is sometimes called "sharpness", which is an indicator that	
	reflects the sharpness of the image plane and the sharpness of the edges of	
Sharpness	the image. If you increase the sharpness, the contrast of the details on the	
	image plane is also higher and it looks clearer.	
	Enable or disable the onvif protocol, after enabling it, the device can be	
Enable Onvif	discovered through a recorder that supports ONVIF	
Call Stream	Main stream or sub stream used in video call	
Enable Onvif	Is authentication required when using onvif protocol (with username and	
Auth	password)	
	When using rtsp protocol, whether authentication is required (with username	
Enable Rtsp Auth	and password)	
H.264 Payload		
Туре	Set the load type of h.264, the range is 96~127	
Osd Settings		
Osd Time	Turn on/off the date display of the camera image interface.	
Osd Text	Enable/disable the text display of the camera image interface.	
Title Message	Text display content of camera image interface	
Video Codecs		
H264 Video	Cuppert II 264 and ding format	
Stream	Support H.264 encoding format	
	VBR: Video call will adapt to the bit rate of the opposite end, so that the video	
Bitrate Control	effect is better.	
	CBR: The video call will not change according to the bit rate set by itself.	
Resolution	Support 1080P, 720P, 4CIF,VGA,CIF,QVGA	
1 (Coolation	Support 10001 7 7201 7 4011, VOA, OII , QVOA	
Frame Rate (fps)	The larger the value is, the more fluent the video is, and the higher the	
(4-7)	requirement for network bandwidth is; adjustment is not recommended	
	Minimum configuration: support I / P frame, only support progressive and	
	CAVLC. It is generally used for low-level or applications requiring additional	
Profile	fault tolerance, such as video call, mobile video, etc	
	Main configuration: provide I / P / B frames, support progressive and	
	interleaved, and support CAVLC and CABAC,	
	It refers to the data flow used by video files in unit time, also known as code	
BitRate	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 Interval	The larger the value, the worse the video quality, otherwise the better the	

	video quality; adjustment is not recommended.		
RTSP Information			
Main Stream Url	Display the main stream URL address		
Sub Stream Url	Display the sub stream URL address		

Snapshot Trigger Mode:		
	Snapshot By State:	Talking Ringing Calling
Server Url:		
Username:		Password:
	Ap	ply

Picture 31 - Snapshot

Capture trigger mode: call state trigger

Call status trigger: save the screenshot to the local / server when the status of outgoing call, incoming call and call is triggered.

Snapshot save path: local

Server address (supports uploading via FTP / TFTP / HTTPS) ftp://IP : Port @ user name: password / path

9.19 Phone 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.

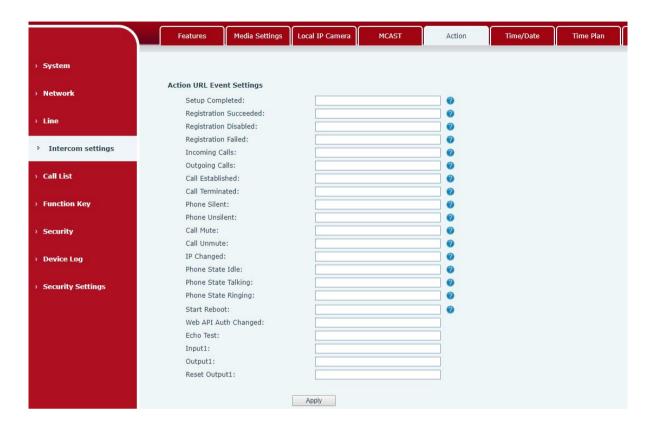
The detail for 8.2 MCAST

9.20 Phone Setting >> Action URL

Table 20- Action URL

Action URL Event Settings

URL for various actions performed by the phone. These actions are recorded and sent as xml files to the server. Sample format is http://InternalServer /FileName.xml

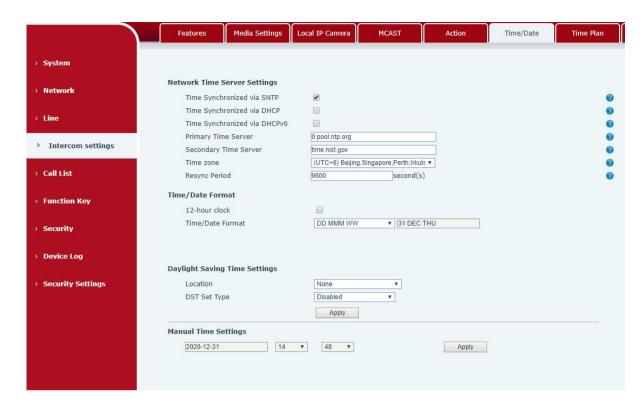


Picture 32- Action URL

Note! The operation URL is used by the IPPBX system to submit device events.

9.21 Phone Setting >> Time/Date

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



Picture 33 - Time/Date

Table 21- Time/Date

Time/Date		
Field Name	Explanation	
Network Time Server Settings		
Time Synchronized \	∕ia SNTP	Enable time-sync through SNTP protocol
Time Synchronized via DHCP		Enable time-sync through DHCP protocol
Primary Time Server		Set primary time server address
		Set secondary time server address, when primary server is not
Secondary Time 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 Setti	ngs
Location		Select the user's time zone specific area
DST Set Type		Select automatic DST according to the preset rules of DST, or the
DST Set Type		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

1. 1. 7. 0.44	
Hour End	The DST end hour
Weekday End	The DST end weekday
Week End	The DST end week
Month End	The DST end month
Hour Start	The DST start hour

Manual Time Settings

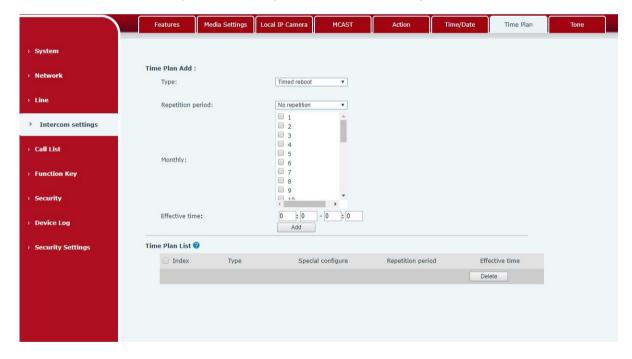
To set the time manually, you need to disable the SNTP service first, and you need to fill in and submit each item of year, month, day, hour and minute in the figure above to make the manual settings successful.

System time: Display system time and its source

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

9.22Phone settings>>Time plan

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



Picture 34- Time Plan

Table 22- Time Plan

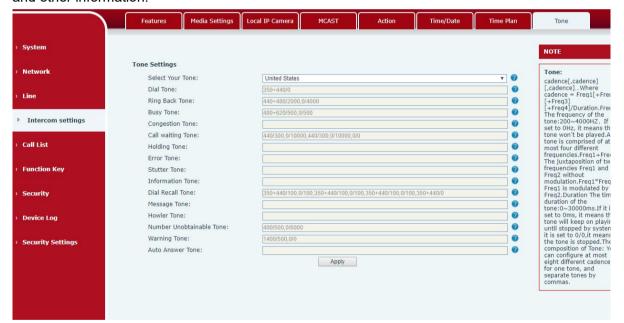
Parameters	Description
type	Timing restart, timing upgrade, timing sound detection, timing playback
	audio
Audio path	Support local
	Local: select the audio file uploaded locally

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

9.23Phone settings >> Tone

The user can configure the prompt tone of the device on this page.

You can select the country area or customize the area. The selected area can directly appear the default information, and the customized one can modify the key tone, callback tone and other information.



Picture 35- Tone

9.24Call 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

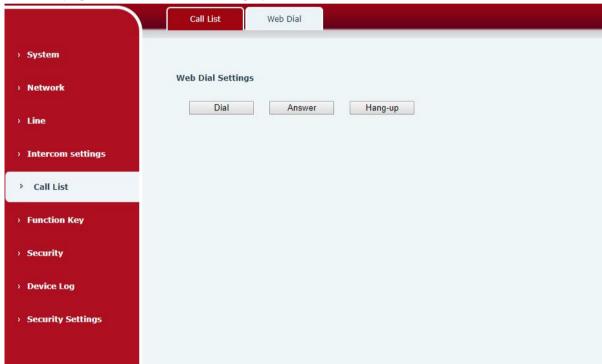
prefix will all be blocked.

■ Restrict Outgoing Call

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

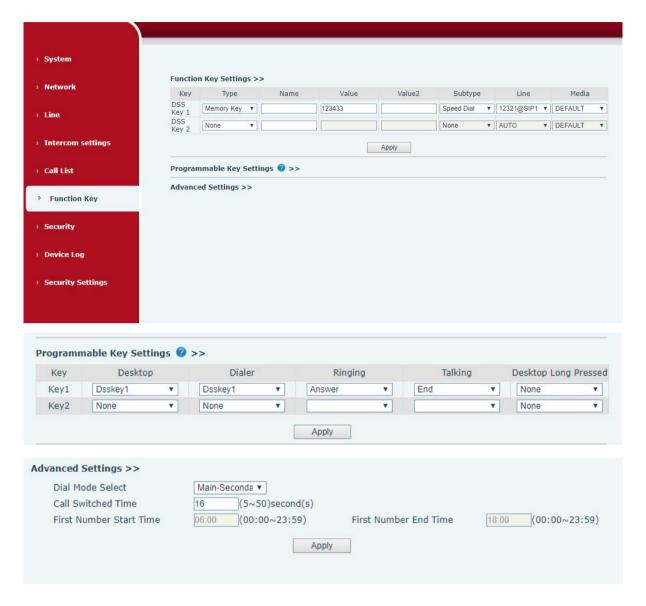
9.25Call list >> Web Dial

Use web page to call, answer and hang up.



Picture 36- Webpage Dial

9.26Function key



Picture 37- Function Key

Table 23- Function Key

Parameters	Description		
Function key settings			
memory	Speed Dial:The user can directly dial the set number. This feature		
	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 for		
	example: None /Handfree		

DTMF	Press during a call to send the set DTMF
Mcast Paging	Configure the multicast address and voice encoding. User can initiate
	multicast by pressing this key
Action URL	The user can use a specific URL to make basic calls to the device, open
	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 Key	Settings
Desktop	None: Nothing happens when you press the speed dial
	Dsskey1: When it is set to dsskey1, follow the settings of dsskey1 to make
	call, answer, etc.
	Dsskey2: When it is set to dsskey2, perform operations such as calling
	and answering according to the setting of dsskey2
Dialer	None: Nothing happens when you press the speed dial
	Dsskey1: When it is set to dsskey1, follow the settings of dsskey1 to make
	call, answer, etc.
	Dsskey2: When it is set to dsskey2, perform operations such as calling
	and answering according to the setting of dsskey2
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
	Dsskey1: When it is set to dsskey1, follow the settings of dsskey1 to make
	call, answer, etc.
	Dsskey2: When it is set to dsskey2, perform operations such as calling
	and answering according to the setting of dsskey2
Desktop Long	None: Long press the speed dial key does not respond
Pressed	Main menu: Long press the speed dial key 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 Chart Time	The start time of the day when the <day night=""> mode is defined. Default</day>		
Day Start Time	"06:00"		
Day End Time	The end time of the day when the <day night=""> mode is defined. Default</day>		
	"18:00		

table 20 - Function Key

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.



Picture 38 - Memory Key

Table 24- Memory Key

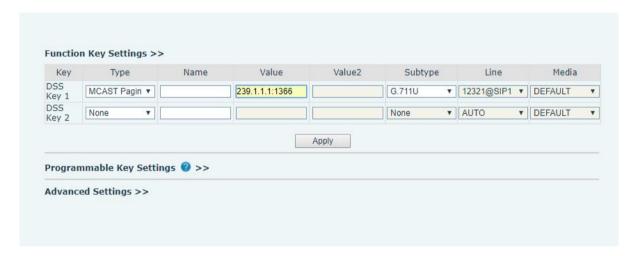
Type	number	line	Subtype	usage
	Fill in the	The line	Speed	Using the speed dial mode, press the button
momor	SIP	correspon	Dial	to quickly dial the set number.
memor	account or	ding to the		Using the intercom mode, when the SIP
y	IP address	SIP	Intercom	phone at the opposite end supports the
	of the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

called		automatically answered.
party		

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 DSS Key multicast web configuration for calling party is as follow:



Picture 39- Multicast

Table 25- 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

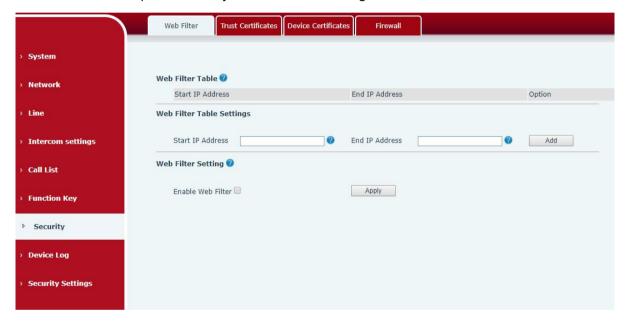
Keep pressing the shortcut key set to make a call, release it and hang up



Picture 40 - Advanced Setting

9.27Security >> Web filter

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





Picture 41- WEB filter

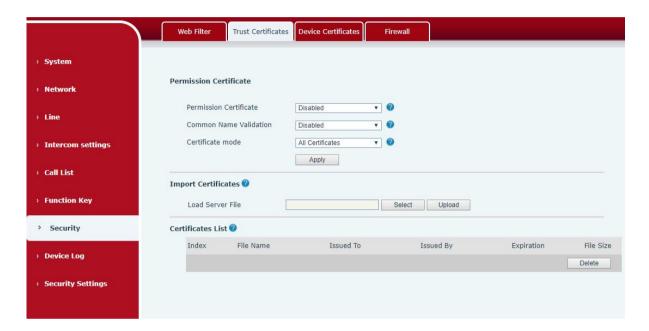
Add and delete the allowed IP network segments; configure the start IP address in the start IP, configure the end IP address in the end IP, and then click [Add] to add successfully. You can set a large network segment or add it into several network segments. When deleting, select the starting IP of the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

9.28Security >> Trust Certificates

You can upload and delete uploaded trust certificates.

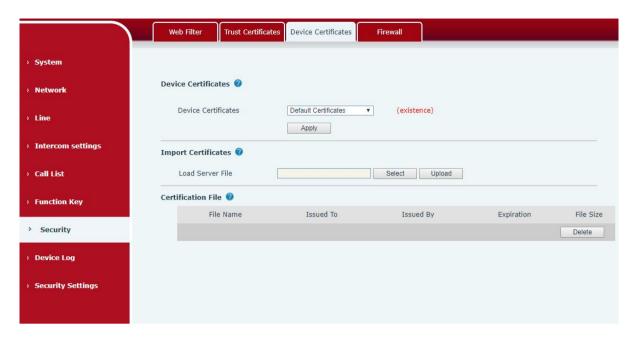


Picture 42 - Trust Certificates

9.29Security >> Device Certificates

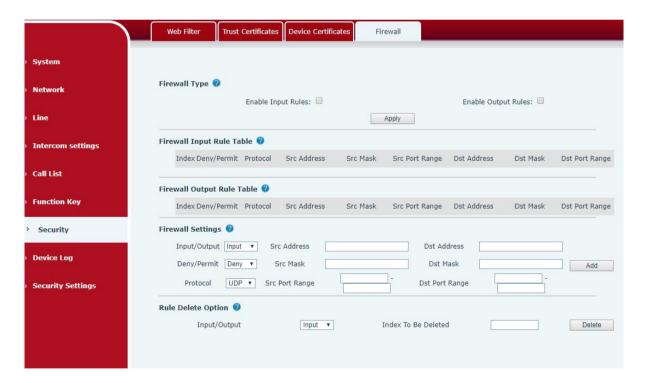
Select the default certificate or the custom certificate as the device certificate.

You can upload and delete uploaded certificates.



Picture 43- Device Certificates

9.30Security >> Firewall



Picture 44 - 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 26- 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	
	The source address can be the 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 a specific IP address or all	
Dst Mask	addresses 0.0.0.0; it can also be a network address similar to	
	..*.0, such as 192.168.1.0.	
	It is the source address mask. When it is configured as	
Sro Port Pongo	255.255.255.255, it means it is a specific host. When it is set as a	
Src Port Range	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	
Dst Port Range	255.255.255.255, it means it is a specific host. When it is set as a	
Dat Full Natige	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 45- 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 46- Delete firewall rules

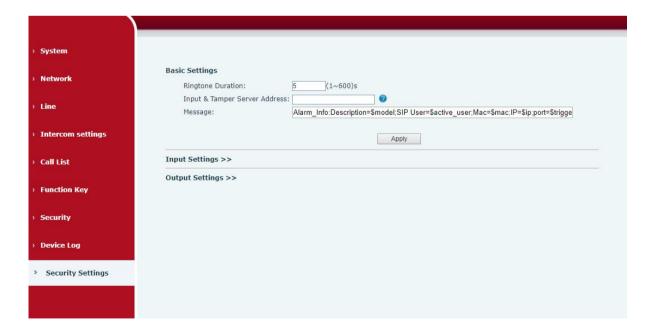
Select the list you want to delete and click [Delete] to delete the selected list.

9.31Device 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.

9.32Security 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.



Picture 47 - Security Settings

Table 27- Security Settings

Security settings		
Parameters	Description	
Basic settings		
Ringtone Duration	The Alarm ring duration	
Input & Tamper Server Address	Configure remote response server address (including remote response server address and trigger alarm server address)	
Message	When the input port is triggered, a short message will be sent to the server. The message format is as follows: Alarm_Info:Description=\$model;SIP User=\$active_user;Mac=\$mac;IP=\$ip;port=\$trigger	
Enable Tamper Alarm	If the terminal is forcibly removed, the tamper will be triggered and the set alarm ring will be played all the time	
Alarm command	When the alarm is triggered, the server sends the command immediately	
Reset command	If the alarm ring needs to be stopped, the remote end can send a short message to the terminal. The content of the short message is the value set in the reset command. At this time, the terminal will stop playing the alarm bell	
Reset Alarm Status	Reset to stop the playing of the bell	
Alarm Ringtone	The ringtone of alarm	

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 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

The user can restart the device through the webpage, click [System] >> [Tools] >> [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 configuration, database and configuration files on the device and the device will be restored to the factory default state.

To restore the factory settings, you need to log in to the webpage [System] >> [Configuration], and click [Reset] button, the device will return to the factory default state.

Users can press the Reset button on the device and long press 6S to restore factory Settings.

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 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 25 - Trouble Cases

Trouble Case	Solution
Device could not boot up	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.
	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. The
service provider	network cable must b e co nnected to the [Network] interface
	instead of the [Camera] interface.
	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
	Support Email to help analyze the issue.