

i61&i62&i63&i64 User Manual

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3 Safety Instruction

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

- Please use the product-specified power adapter. If you need to use a power adapter provided by another manufacturer due to special circumstances, please confirm that the voltage and current of the provided adapter meet the specifications of this product, and it is recommended to use a product that has passed safety certification, otherwise it may cause fire or electric shock accidents. When using this product, do not damage the power cord, do not twist, stretch and strap it, and do not press it under heavy objects or sandwich between items, otherwise it may cause fire or electric shock caused by broken power cord.
- Before using the product, please confirm that the temperature and humidity of the
 environment in which it is located meet the working needs of the product. (Moving
 this product from the air-conditioner to the natural temperature, the surface or
 internal components of this product may produce condensate vapor, and the
 product needs to be dried naturally before turning on the power supply.))
- Non-technical service personnel should not disassemble or repair the product by themselves, improper repair may cause accidents such as electric shock, fire, etc., and the warranty service of your product will also be invalid.
- Do not put metal foreign objects such as pins and wires into vents or gaps.
 Otherwise, it may cause electric shock and other injuries caused by the passage of electricity through metal foreign objects, and if foreign objects or similar metal objects fall into the product, the use should be stopped in time.
- Do not discard or store the plastic bag used for packaging in a place where the child can get it, so as not to cover the head of the young child, causing the nose and mouth to block, resulting in suffocation.
- Please use this product correctly in accordance with the instructions in this product manual, long-term abnormal operation may lead to product damage and safety hazards.



i61&i62&i63&i64 is a SIP Audio and Video Door Phone specially developed for the needs of users in the security industry. It has the advantages of high reliability and high-quality audio/video. It integrates intelligent security and audio and video access control into one. Can provide users with quality access control security and communication intercom services.



5 Install Guide

5. 1 Use POE or external Power Adapter

i61&i62&i63&i64 called as 'the device' hereafter, supports two power supply modes, power supply from external power adapter or over Ethernet (POE) complied switch.

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

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

Please use the power adapter 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 speed dial button for 3 seconds,	
	there will be a toot sound will 5 seconds, please press the speed	
	dial button once within 5 seconds, the toot sound will stop	
	automatically reporting IP.	
	Note: I63 press the first speed dial button.	
	I64 press the button in the upper right corner	
	In the standby mode, long-press the speed dial button for 3	
	seconds and the beep will last for 5 seconds. Within 5 seconds,	
Switch network press the speed dial button three times quickly to switch		
mode	network 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.
	In the standby mode, long-press the speed dial button for 3
Voice loop mode	seconds and the beep will last for 5 seconds. Within 5 seconds,
	after you press the speeddial button twice, the device enters the
Voice loop mode	voice loopback mode. After you press the MIC speaker, you can
	check the voice related problems. After you press the speeddial
	button again, you can exit the voice loopback mode

5.2.2 LED status

i61 and i62 indicators have the same position and behavior

Table 2 - i61&i62 LED status

Type	Indicator status	Indicator status
LED light	Steady green	Standby (No registration, normal network)
	Steady cyan	Registration success
	Cyan light flash	talking/Calling/going
	Red slow flash	Registration failed
	Red slow flash	Network anomaly
	Orange light flash	Upgrade and restore factory
Card reader indicator	Steady	Standby
light	Olcady	Ctanaby
	Flashing 1s	A credit card
Power Saving	Light off	Enter the power saving mode
	Indicator light indicates	Exit the power saving mode
the device status	the device status	Late the power saving mode

i63 has five key indicators, the same color in each state

Table 3 - i63 LED status

Type	Indicator status	Status indicators
LED light	Steady green	Standby (No registration, normal network)
	Steady cyan	Registration success
	Cyan light flash	talking/Calling/going
	Red slow flash	Registration failed



Туре	Indicator status	Status indicators
	Red slow flash	Network anomaly
	Orange light flash	Upgrade and restore factory
Card reader indicator light	Steady	Standby
	Flashing 1s	A credit card
Power Saving	Light off	Enter the power saving mode
	Indicator light indicates the device status	Exit the power saving mode

i64 has a status indicator. The color of keyboard backlight does not change according to device status.

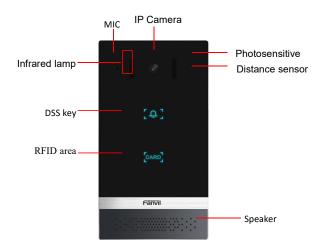
Table 4 - i64 LED status

Туре	Indicator status	Indicator status	
LED light	Steady green	Standby (No registration, normal network)	
	Steady cyan	Registration success	
	Cyan light flash	talking/Calling/going	
	Red slow flash	Registration failed	
	Red slow flash	Network anomaly	
	Orange light flash	Upgrade and restore factory	
Card reader indicator light	Steady	Standby	
	Flashing 1s	A credit card	
Power Saving	Light off	Enter the power saving mode	
	Indicator light indicates the device status	Exit the power saving mode	
Keypad	Steady	Standby	
	Light off	Enter the power saving mode	

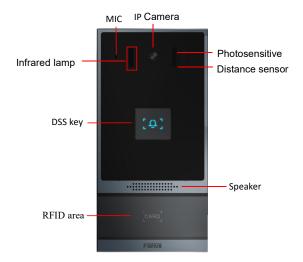


6 User Guide

6.1 Panel description

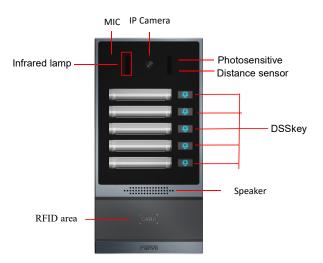


Picture 1 - i61 Panel

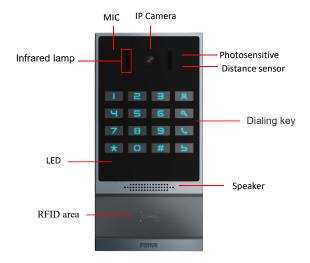


Picture 2 - i62 Panel





Picture 3 - i63 Panel



Picture 4 - i64 Panel

Table 5 - Panel introduction

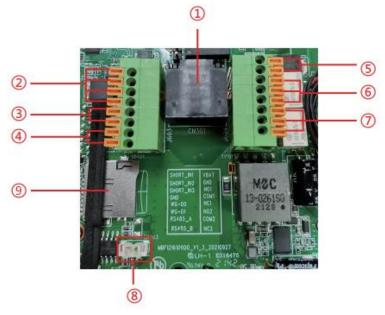
Number	Name	Description
1	IP Camera Infrared lamp	Video signal acquisition and transmission
2	MIC	Audio acquisition
3	DSS key For speed dial, multicast, intercom, IP broadcast are other functions	
4	RFID area	Identification card



5	Speaker	Play sound	
6	Photosensitive	Difficulty of sensing light	
7 Distance sensor	The distance between the sensing device and the		
Distance sensor		object	

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 5 - Interface

Table 6 - Interface

SN	Description
1	Ethernet interface: standard RJ45 interface, 10/100M adaptive, it is recommended to use five or five types of network cable
2	Three groups of short-circuit input detection interfaces: for connecting switches, infrared probes, door magnets, vibration sensors and other input devices
3	Wiegand interface, wiegand in is used to connect wiegand card reader, wiegand out access control controller and other devices
4	RS485 interface
(5)	Power interface: 12V/1A input, UP-positive electrode, DOWN-negative electrode

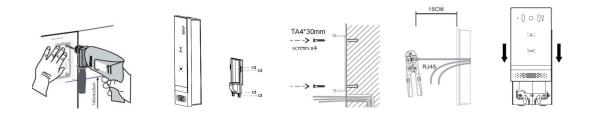


6, 7	Two groups of short-circuit output control interface: used to control electric locks, alarms, etc.
8	Line out interface, accessibility aids for the deaf
9	TF interface, support 128G, store snapshot pictures and audio files

6. 3 Installation instructions

6.3.1 Installation

- 1. Draw the installation holes on the wall according to the installation dimension drawing provided by the equipment, use an electric drill to make the vacant place, after drilling the hole, remove the installation dimension drawing, and use a hammer to drive the plastic plug into the drilled hole;
- 2. Use a screwdriver to loosen the 4 screws on the back, separate the back shell from the wall bracket, and lock the screws on the back of the device at the same time;
- 3. Align the screw holes of the wall bracket with the holes made on the wall, and fix it to the wall with the supplied screws;
- 4. Pass all the wires through the silicone plug in the middle of the bottom shell. All wires need to reserve a length of 15-20cm.
- 5. Hang the device and the wall bracket tightly from top to bottom, and tighten the screws at the bottom

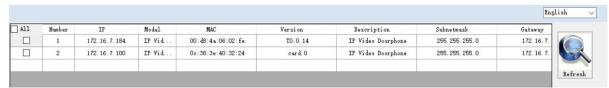


Picture 6 - Installation

6.3.2 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, touch and hold the speed-dial button for 3 seconds (30 seconds after power on), wait for the speaker to beep. Press the speed-dial button within 5 seconds, and the system will automatically announce the IP address by voice.

Method 3:

Touch and hold the speed-dial button for 3 seconds, wait for the speaker to beep, press the speed-dial button three times within 5 seconds, and the system will automatically announce the IP address by voice after successfully switching to the network mode.

Table 7 - Configuration instructions

Default configuration			
DHCP mode	Default enable	Static IP	192.168.1.128
Voice read IP address	Touch and hold the speed-dial button for 3 seconds, press the	Server port	80
	speed dial 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 7 - 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>

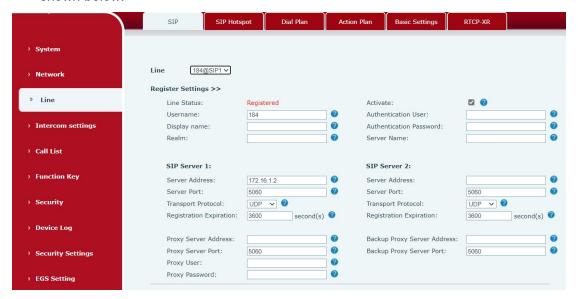


6. 5 SIP Configurations

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 8 - SIP Line Configuration

6. 6 Door opening operation

Unlock the door in the following five ways:

- 1) Open the door by swiping the RFID card, which supports IC card and ID card.
- 2) Open the door by NFC.
- 3) The access control helps to call owner, and the owner enters the remote opening password to open the door.
- 4) The other device helps to call the door phone, enters the corresponding remote authentication code, and opens the door after timeout or the password check



length is reached (the authentication code shall be configured in the access list).

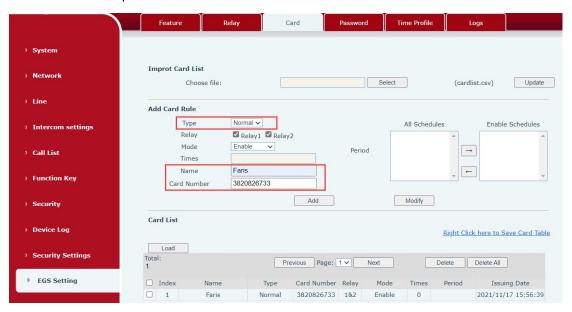
- 5) The door can be opened through the indoor door button when the door phone is in any state.
- 6) Timed door opening: automatically opens the door in a predetermined time period by setting a timed task.



7 Basic Function

7. 1 Swipe to open the door

- Access control settings on web page→EGS Setting→Add Card Rule→Select "Type" (Normal card provides open door function, Add card and Del card provides add and delete card function. Default Normal card)
- Enter your name and card number (just enter the first 10 digits of the card number),
 and clicking "Add" to add the card to the list.
- Access the card reading area of the device through the configured ID card
 - to open the door.

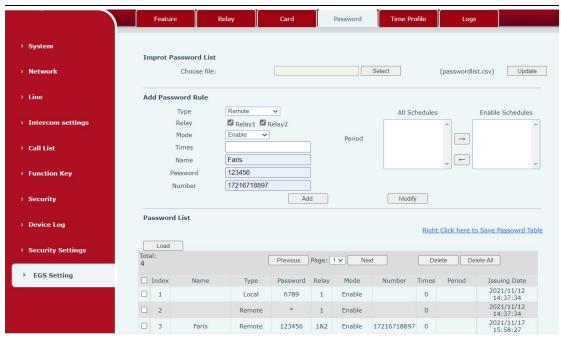


Picture 9 - Card

7. 2 Remote Door Opening

- Set access control on the web page→ EGS Setting→Password→ Add password rule
 → Select "Remote "
- Enter your name, password and number, add to the password list.
- The owner answers the access control call and presses " * "(default password) or "123456" (new password) to open the door for visitors.

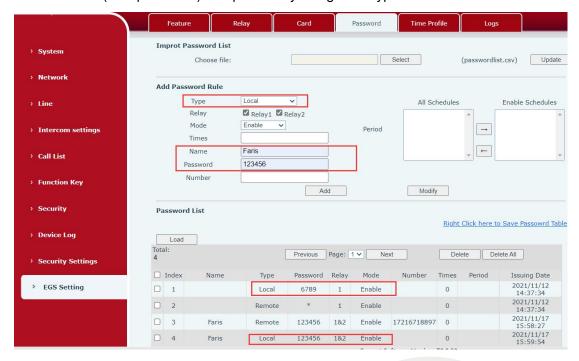




Picture 10 - Remote Door Opening

7.3 Password to Open Door

- Configure access on Web→EGS Setting →Password → Add password rule → Select
 "Local " (only the i64 supports local password access)
- Enter your your name and password password to the password list.
- Owners and visitors can open the door by entering "6789" (default password) or "123456" (new password) and press # by using the keypad.

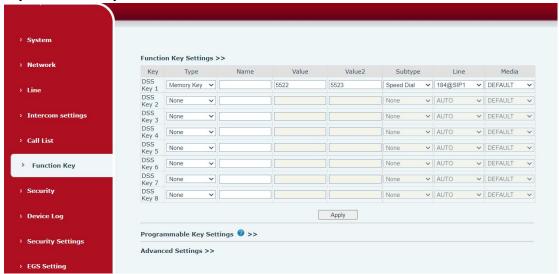




Picture 11 - Remote Door Opening

7.4 Making Calls

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



Picture 12 - Function Setting

See detailed configuration instructions <u>9.26 Function Key</u>
After setting the speed dial according to the above settings, i64 can directly dial the set number by pressing the management center button ...

You can also press the dial button first then enter the number you want to call, and automatically call after timeout.

7.5 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.

7.6 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.

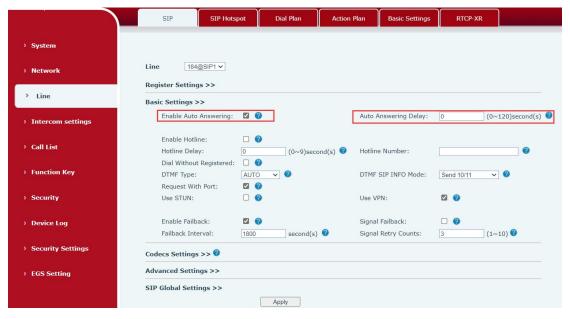
i64 can also use the back button to hang up the call.

7.7 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.

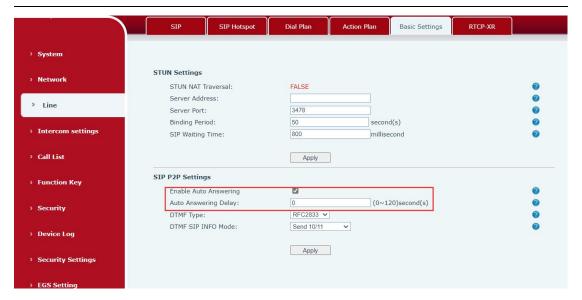


Picture 13 - WEB line enable auto answer

SIP P2P auto answering:

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





Picture 14 - 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.

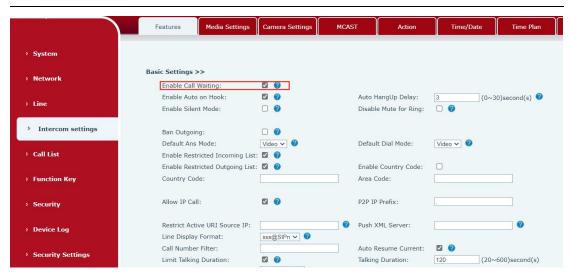
7.8 Call Waiting

- Enable call waiting: new calls can be accepted during a call.
- Disable call waiting: new calls will be automatically rejected and a busy signal will be prompted.
- Enable call waiting tone: when you receive a new call on the line, the device will beep.

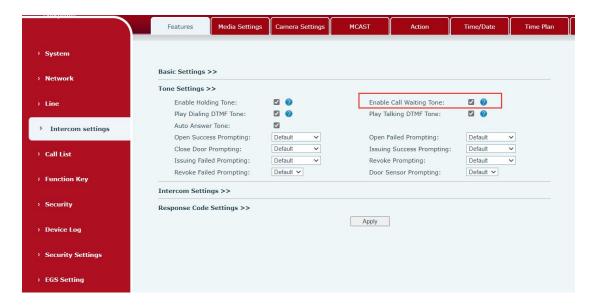
Users can enable/disable call waiting in the device interface and the web interface.

 Web interface: enter [Intercom Settings] >> [Features], enable/disable call waiting, enable/disable call waiting tone.





Picture 15 - Call Waiting



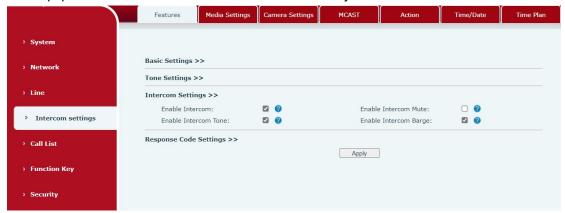
Picture 16 - Call Waiting tone



8 Advance Function

8.1 Intercom

The equipment can answer intercom calls automatically.



Picture 17 - WEB Intercom

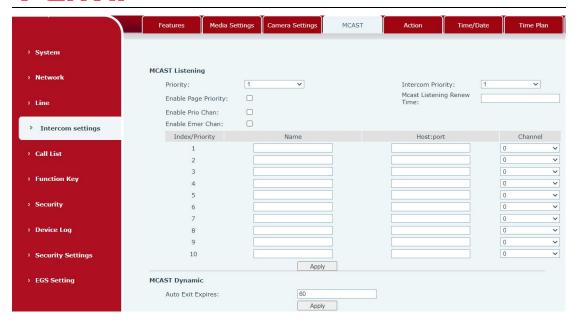
Table 8 - Intercom

Parameters	Description
	When the intercom system is enabled, the device will
Enable Intercom	accept the SIP header call-info of the Call request
	Command automatic call
	If the option is enabled, device will answer the intercom
Enable Intercom Barge	call automatically while it is in a normal call, and it will
3	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 18 - MCAST

Table 9 - 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	When a multicast call does not end normally, but for some
Delete Time	reason the 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 the quantity 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.

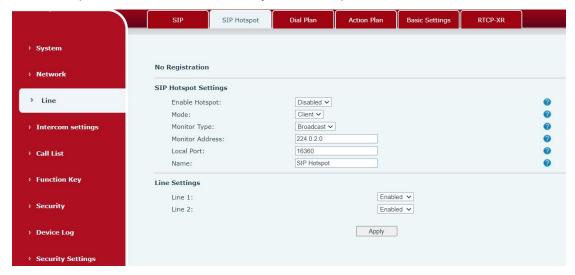
Table 10 - SIP Hotspot

Parameters	Description
Enable	Enable or disable hotspot
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
Address	monitoring 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 19 - 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 lockedIf 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
- Software
- Uptime
- Last uptime
- MEMInfo
- System time

And summarization of network status,

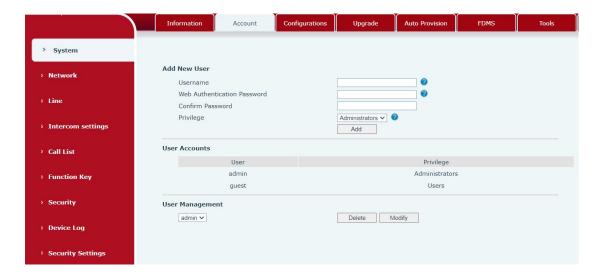
- Network Mode
- MAC
- IP
- Subnet mask
- Default getaway

Besides, summarization of SIP account status,

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



9.3 System >> Account



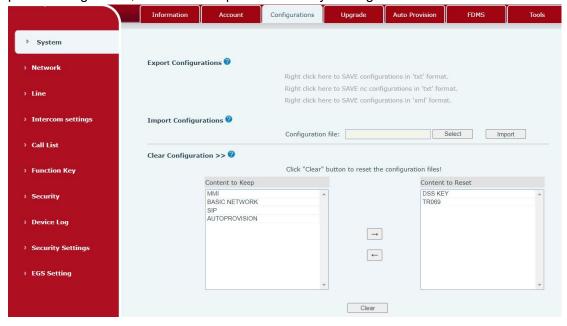
Picture 20 - WEB Account

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 21 - 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

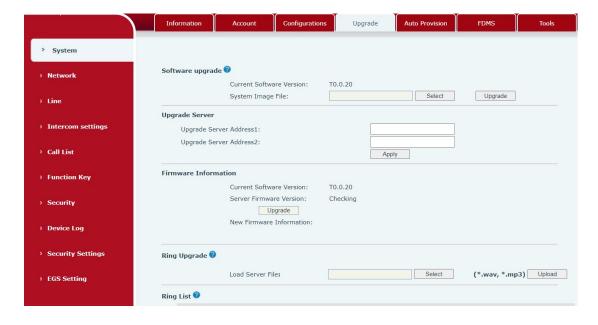
Clear Tables

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 22 - 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



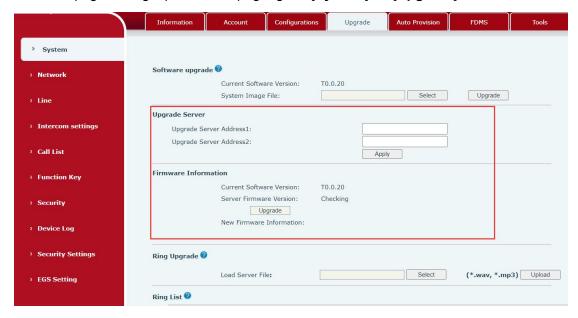
version

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 23 - Web page firmware upgrade

Table 11 - Firmware upgrade

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



	When there is a corresponding TXT file and version	
New version description	on the server side, the TXT and version information	
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

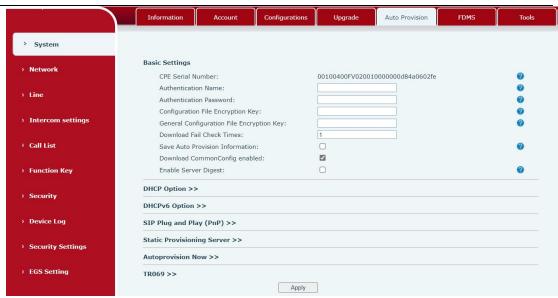
Xxxxx

 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 24 - 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 12 - Auto Provision

Auto Provision		
Parameters	Description	
Basic settings		
CPE Serial	Display the device SN	
Number	Display the device Six	
Authentication	The user name of provision server	
Name		
Authentication	The password of provision server	
Password		
Configuration File	If the device configuration file is encrypted , user should add the	
Encryption Key	encryption key here	
General	If the common configuration file is engrypted upor should add the	
Configuration File	If the common configuration file is encrypted, user should add the encryption key here	
Encryption Key	encryption key here	
Save Auto	Save the HTTP/HTTPS/FTP user name and password. If the	
Provision	·	
Information	provision URL is kept, the information will be kept.	
Download	Whether phone will download the common configuration file.	



Common Config	
enabled	
Enable Get	When the feature is enable, if the configuration of server is
Digest From	changed, phone will download and update.
Server	Changed, phone will download and update.
DHCP Option	
	Configure DHCP option, DHCP option supports DHCP custom
Option Value	option DHCP option 66 DHCP option 43, 3 methods to get the
	provision URL. The default is Option 66.
Custom Option	Custom Option value is allowed from 128 to 254. The option value
Value	must be same as server define.
Enable DHCP	11 O 1 100 1 11 0 D
Option 120	Use Option120 to get the SIP server address from DHCP server.
DHCPv6 Option	
	Configure DHCPv6 option, DHCPv6 option supports custom option
Option Value	option 66 option 43, 3 methods to get the provision URL. The
•	default is Disable.
Custom Option	
Value	Custom option number. Must be from 128 to 254.
Enable DHCP	
Option 120	Set the SIP server address through DHCP option 120.
SIP Plug and Play	(PnP)
	Whether enable PnP or not. If PnP is enabled, phone will send a
	SIP SUBSCRIBE message with broadcast method. Any server can
Enable SIP PnP	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 Provisionin	
	Provisioning server address. Support both IP address and domain
Server Address	address.
	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.
	Transferring protocol type ,supports FTP、TFTP、HTTP and
Protocol Type	HTTPS
	Configuration file update interval time. As default it is 1, means
Update Interval	phone will check the update every 1 hour.
	priorie will offect the appare every 1 flour.



Update Mode	Provision Mode.
	1. Disabled.
	2. Update after reboot.
	3. Update after interval.
Static Provisionin	g Server
TR069	
Enable TR069	Enable TR069 after selection
ACS Server Type	There are 2 options Serve type, common and CTC.
ACS Server URL	ACS server address
ACS User	ACS server username (up to is 59 character)
ACS Password	ACS server password (up to is 59 character)
Enable TR069	If TDOGO is analyzed there will be a prompt tops when connecting
Warning Tone	If TR069 is enabled, there will be a prompt tone when connecting.
TLS Version	TLS Version
STUN	Enter the CTLIN address
server address	Enter the STUN address
Enable the STUN	Enable the STUN

9.7 **System >> FDMS**



Picture 25 - FDMS

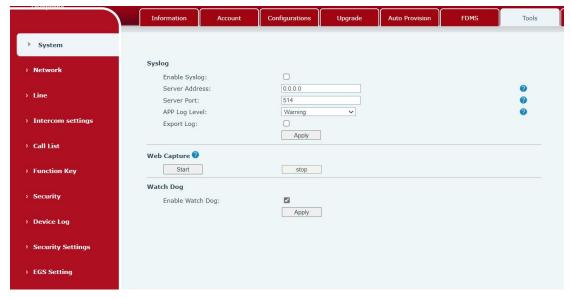
Table 13 - FDMS

FDMS information Settings	
Community	Name of aguinment installation community
Designations	Name of equipment installation community
Building a	Name of aggingment installation building
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 26 - 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 System >> Reboot

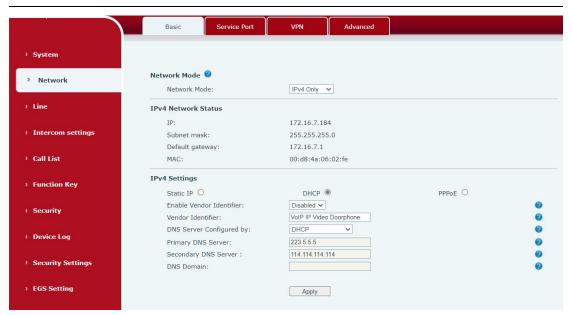
This page can restart the device.



9. 10 Network >> Basic

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





Picture 27 - Network Basic Setting

Table 14 - Network Basic Setting

Field Name	Explanation	
IPv4 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	
IPv4 Settings		
Settings		
Select the appropriate network mode. The equipment supports three network modes:		
Static IP	Network parameters must be entered manually and will not be	
Static IF	changed. All parameters are provided by the ISP.	
DHCP	Network parameters are provided automatically by a DHCP	
Diloi	server.	
If Static IP is chose	en, the screen below will appear. Enter values provided by the ISP.	
DNS Server	Select the Configured mode of the DNS Server.	
Configured by	Ociect the Configured Mode of the Divo Cerver.	
Primary DNS	Enter the server address of the Primary DNS.	
Server	Litter the server address of the Fillinary Divo.	
Secondary DNS	Enter the corver address of the Secondary DNS	
Server	Enter the server address of the Secondary DNS.	
DNS Domain	Enter the domain of the DNS.	

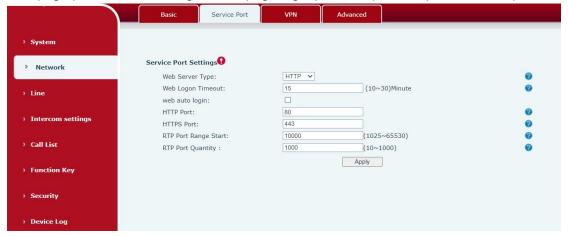


attention:

- 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. 11 Network >> service port

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



Picture 28 - Service port setting interface

Table 15 - 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	No need to enter the user name and password after the timeout, it
automatic login	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	The value range is 1025-65535. The value of rtp port starts from
range	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. 12 **Network >> VPN**



Picture 29 - Network VPN Settings

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

■ 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

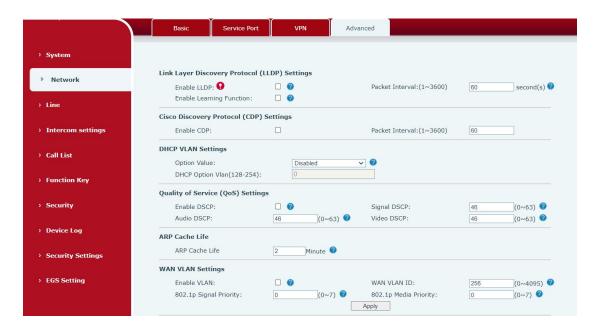
CA Root Certification: ca.crt
Client Certification: client.crt
Client Key: client.key

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. 13 Network >> Advanced



Picture 30 - Network Setting

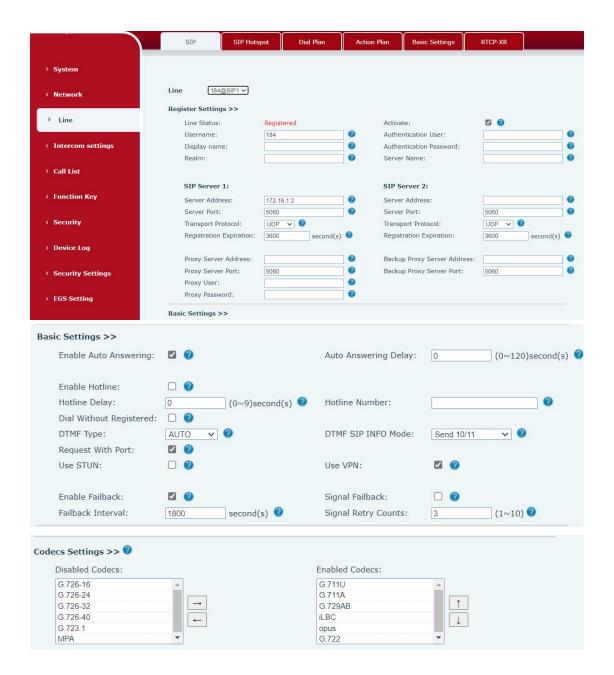
Network advanced Settings are typically configured by IT administrators to improve the quality of device service.

Table 16 - 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. 14 Line >> SIP



Picture 31 - SIP

Table 17 - 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.
Activate	Whether the service of the line should be activated
Username	Enter the username of the service account.
Authentication User	Enter the authentication user of the service account
Display Name	Enter the display name to be sent in a call request.
Authentication	Enter the authentication password of the service account
Password	
Realm	Enter the SIP domain if requested by the service provider
Server Name	Input server name.
SIP Server 1	
Server Address	Enter the IP or FQDN address of the SIP server
Server Port	Enter the SIP server port, default is 5060
Transport Protocol	Set up the SIP transport line using TCP or UDP or TLS.
Registration	Set SIP expiration date.
Expiration	
SIP Server 2	
Server Address	Enter the IP or FQDN address of the SIP server
Server Port	Enter the SIP server port, default is 5060
Transport Protocol	Set up the SIP transport line using TCP or UDP or TLS.
Registration	Set SIP expiration date.
Expiration	
SIP Proxy Server	Enter the IP or FQDN address of the SIP proxy server.
Address	
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	Enter the IP or FQDN address of the backup proxy server.
Server Address	
Backup Proxy	Enter the backup proxy server port, default is 5060.
Server Port	
Basic Settings	
Enable Auto	Enable auto-answering, the incoming calls will be answered
Answering	automatically after the delay time
Auto Answering	Set the delay for incoming call before the system automatically
Delay	answered it
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	Set call out by proxy without registration
Registered	
Enable Missed Call	If enabled, the phone will save missed calls into the call history
Log	record.
DTMF Type	Set the DTMF type to be used for the line
Use VPN	Set the line to use VPN restrict route
Use STUN	Set the line to use STUN for NAT traversal
Enable Failback	Whether to switch to the primary server when it is available.
Failback Interval	A Register message is used to periodically detect the time interval for the availability of the main Proxy.
Signal Failback	Multiple proxy cases, whether to allow the invite/register
J	request to also execute failback.
Signal Retry Counts	The number of attempts that the SIP Request considers proxy
	unavailable under multiple proxy scenarios.
Codecs Settings	Set the priority and availability of the codecs by adding or
	remove them from the list.
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 Blocking Anonymous Call	Set the feature code to dial to the server
Disable Blocking	Set the feature code to dial to the server
Anonymous Call	
Call Waiting On	Set the feature code to dial to the server
Code	
Call Waiting Off	Set the feature code to dial to the server
Code	
Send Anonymous	Set the feature code to dial to the server
on Code	
Send Anonymous	Set the feature code to dial to the server
Off Code	
Enable Session	Set the line to enable call ending by session timer refreshment.
Timer	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
· · · · · · · · · · · · · · · · · · ·	



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
I.C. All T	server will be separated.
Keep Alive Type	Set the line to use dummy UDP or SIP OPTION packet to keep
	NAT pinhole opened
Keep Alive Interval	Set the keep alive packet transmitting interval
Keep Authentication	Keep the authentication parameters from previous authentication
Blocking	Reject any incoming call without presenting caller ID
Anonymous Call	
User Agent	Set the user agent, the default is Model with Software Version.
Specific Server	Set the line to collaborate with specific server type
Туре	
SIP Version	Set the SIP version
Anonymous Call	Set the standard to be used for anonymous
Standard	
Local Port	Set the local port
Ring Type	Set the ring tone type for the line
Enable user=phone	Sets user=phone in SIP messages.
Use Tel Call	Set use tel call
Auto TCP	Using TCP protocol to guarantee usability of transport for SIP
	messages above 1500 bytes
Enable Rport	Set the line to add rport in SIP headers
Enable PRACK	Set the line to support PRACK SIP message
DNS Mode	Select DNS mode, A, SRV, NAPTR
Enable Long	Allow more parameters in contact field per RFC 3840
Contact	
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	Whether to add quote in display name, i.e. "VoIP" vs VoIP
Display Name	
Enable GRUU	Support Globally Routable User-Agent URI (GRUU)
Sync Clock Time	Time Sync with server
Enable Inactive	With the post-call hold capture package enabled, you can see
Hold	that in the INVITE package, SDP is inactive.
Caller ID Header	Set the Caller ID Header
Use 182 Response	Set the device to use 182 response code at call waiting
	The second is the second of the walling



for Call waiting	response
Enable Feature	Feature Sync with server
Sync	
Enable SCA	Enable/Disable SCA (Shared Call Appearance)
CallPark Number	Set the CallPark number.
Server Expire	Set the timeout to use the server.
TLS Version	Choose TLS Version.
uaCSTA Number	Set uaCSTA Number.
Enable Click to Talk	With the use of special server, click to call out directly after
	enabling.
Enable Chgport	Whether port updates are enabled.
Intercom Number	Set Intercom Number.
Unregister On Boot	Whether to enable logout function.
Enable MAC	Whether to open the registration of SIP package with user
Header	agent with MAC or not.
Enable Register	Whether to open the registration is user agent with MAC or not.
MAC Header	
PTime(ms)	Set whether to bring ptime field, default no.
SIP Global Settings	
Strict Branch	Set up to strictly match the Branch field.
Enable Group	Set open group.
Enable RFC4475	Set to enable RFC4475.
Enable Strict UA	Enable strict UA matching.
Match	
Registration Failure	Set the registration failure retry time.
Retry Time	
Local SIP Port	Modify the phone SIP port.
Enable uaCSTA	Set to enable the uaCSTA function.

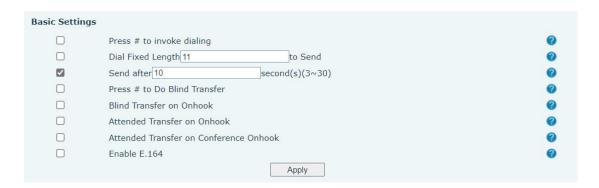
9. 15 **Line >> SIP Hotspot**

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. 16 **Line >> Dial Plan**



Picture 32 - Dial Plan

Table 18 - Phone 7 dialing methods

Parameters	Description
Press # to invoke dialing	The user dials the other party's number and
	then adds the # number to dial out;
Dial Fixed Length	The number entered by the user is
	automatically dialed out when it reaches a
	fixed length
Timeout dial	The system dials automatically after timeout

Dial Plan Add:



Picture 33 - Custom setting of dial - up rules



Table 19 - Dial - up rule configuration table

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

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

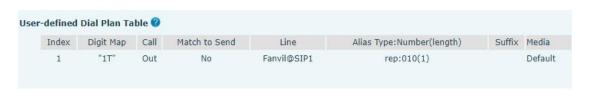
Example 1: All Substitution -- Assume that it is desired to place a direct IP call to IP address 172.168.2.208. Using this feature, 123 can be substituted for 172.168.2.208.





Picture 34 - Dial rules table (1)

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



Picture 35 - Dial rules table (2)

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

- x -- Matches any single digit that is dialed.
- [] -- Specifies a range of numbers to be matched. It may be a range, a list of ranges separated by commas, or a list of digits.

9. 17 Line >> Action Plan





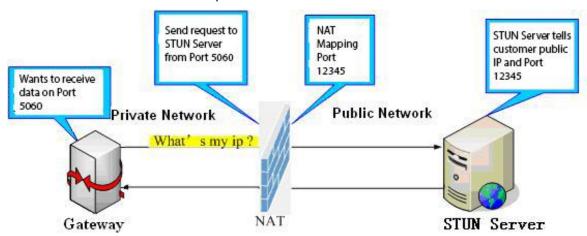
Picture 36 - Action Plan

Table 20 - Action Plan

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

9. 18 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 37 - Basic Settings





Picture 38 - Line Basic Setting

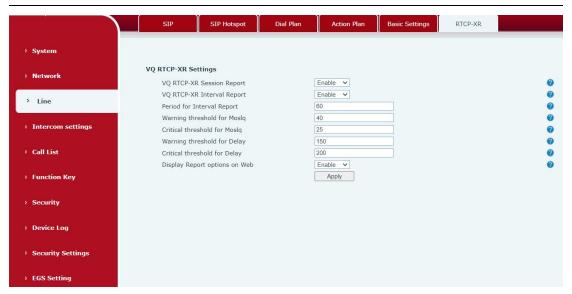
Table 21 - Line Basic Setting

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. 19 **Line >> PTCR-XR**

The RTCP-XR mode is based on THE RTP Control Extended Report (RFC3611). It sends RTCP-XR packets to evaluate network packet loss, delay, and voice quality.





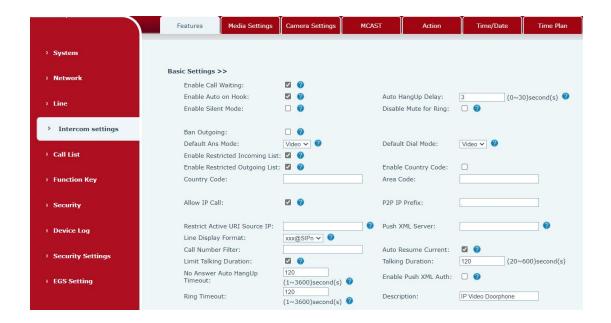
Picture 39 - RTCP-XR

Table 22 - set RTCP-XR

Parameters	Description	
VQ RTCP-XR Setting	VQ RTCP-XR Settings	
VQ RTCP-XR	Whether to enable sending VQ reports in session mode	
Session Report		
VQ RTCP-XR	Whether to enable sending VQ reports in Interval mode	
Interval Report		
Period for Interval	The interval at which VQ reports are periodically sent	
Report (5~99)		
Warning threshold	When the Moslq value x10 is lower than the threshold, a warning	
for Moslq(15~40)	message is generated	
Critical threshold for	When the CALCULATED Moslq value x10 is lower than the	
Moslq(15~40)	threshold, a critical report is generated	
Warning Threshold	When the One-way delay is greater than the threshold, the IP	
for Delay (10~2000)	phone generates a warning report	
Critical Threshold	When the One-way delay is greater than the threshold, the IP	
for Delay (10~2000)	phone generates a critical report	
Display Report	Whether to display the VQ report data for the last call through a	
Options on web	web page	



9. 20 Intercom settings >> Features



Picture 40 - Features

Table 23 - Feature Parameters

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	The phone will hang up and return to the idle automatically at
Handdown	hands-free mode
Auto Handdown	Specify Auto handdown time, the phone will hang up and return
	to the idle automatically after Auto Hand down time at hands-free
Time	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
Enable Silent Wode	calls, you can use the volume keys and mute key to unmute.
Disable Mute for	When it is enabled,you can not mute the phone.
Ring	,,,
Ban Outgoing	If you select Ban Outgoing to enable it, and you cannot dial out
	any number.
Default Reply Mode	Select the default mode after an incoming call, including Video
Delault Neply Wode	and Audio
Default Dial Mode	Select the default mode after an dialling, including Video and
	Audio
Enable Restricted	Whether enable Restricted Incoming List



Incoming List		
Enable Restricted	Wether enable Restricted Outgoing List	
Outgoing List	Wether enable Nestricted Outgoing List	
Enable country	Wether enable country Code	
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	
Source IP	address.	
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	
Call Number Filter	will be filtered out&	
Auto Resume		
Current	If the current path changes, the hold will be automatically resume	
Limit Talking	Automatically hang up the call after enabling the time set for the	
Duration	call	
Talking Duration	Call duration ,20-600s	
No Answer Auto	If the call is not answered, the call will be automatically hung up	
HangUp Timeout	after the timeout	
Enable Push XML		
Auth	To enable push xml auth, user password is required	
Ringing timeout	If the call is not answered, automatic hang-up after timeout	
Show description	Show description information on the IP scan tool software.	
information	Default is "IP Video Doorphone"	
Tone Settings	<u>'</u>	
Enable Holding	When turned on, a tone plays when the call is held	
Tone	The same on, a tene playe when the same hold	
Enable Call Waiting	When turned on, a tone plays when call waiting	
Tone		
Play Dialing DTMF	Play DTMF tone on the device when user pressed a phone digit	
Tone	at dialing, default enabled.	
Play Talking DTMF	Play DTMF tone on the device when user pressed a phone digits	
Tone	during taking, default enabled.	
. 5110		



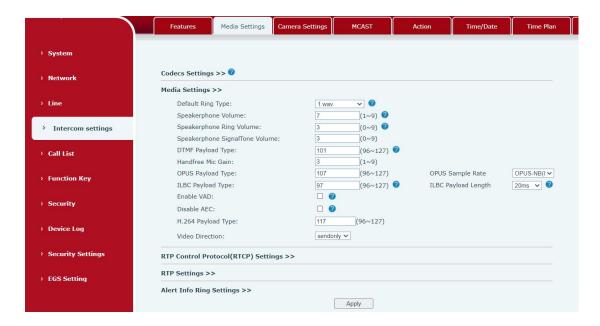
Auto-answer beep	When switched on, a beep will be heard when the auto-answer is activated.
Tone of open door	Closed: No prompt tone is played after the door is opened
successfully	successfully
	Default: Use the default prompt tone
	Voice: built-in voice prompt by default, default is "open the door
	successfully"
	Support custom door opening success prompt tone, which can be customized in system - upgrade - ringtone or after the door is
	opened and the ringtone file upgrades successfully
Tone of open door	opened and the fingtone file upgrades successfully
unsuccessfully	Closed: There is no prompt tone after the door fails to open
	Default: Use the default prompt tone
	Voice: built-in voice prompt by default, default is "failed to o
	pen the door"
	point and door
	Supports custom door opening failure prompt tone, in the sy
	stem - upgrade - ringtone, or after failing to open the door
	and the ringtone file upgrades unsuccessfully
Door closing beep	Close: no beep after closing the door
	Default: Use the default beep
	Voice: default built-in voice prompt, default is "Close"
	Support custom door closing tone, in the system - upgrade -
	ringtones, after upgrading the ringtone file under the door closing available settings to use the custom
Successful card	Close: No beep after successful card addition
addition beep	Default: Use the default beep
	Voice: default built-in voice prompt, default is "Card added
	successfully"
	Support customizable beep for successful card addition, in the
	system - upgrade - ringtones, after upgrading the ringtones file
	available under successful card addition settings to use a custom
Add card failure	Close: No beep after failed card addition
beep	Default: Use the default beep
	Voice: default built-in voice prompt, default is "card refill
	failed"Support customizable sound for card failure, in the system
	- upgrade - ringtones, after upgrading the ringtones file under the
	card failure can be set to use a custom
Successful beep for	Close: No beep after successful card deletion
card deletion	Default: Use the default beep



	Voice: default built-in voice prompt, default is "card deletion
	successful"
	Support for customising the successful card deletion tone, in
	System - Upgrade - Ringtone, after upgrading the ringtone file
	under the successful card deletion you can set to use a
	customised
Card deletion failure	Close: No beep after failed card deletion
beep	Default: Use the default beep
	Voice: default built-in voice prompt, default is "card deletion
	failed"
	Support for customising the card deletion failure tone, in System
	- Upgrade - Ringtone, after upgrading the ringtone file under the
	card deletion failure can be set to use a customised
Magnetic door	Closed: No beep after door magnetic detection anomaly
detection beep	Default: Use the default beep
	Voice: default built-in voice prompt, default is "Please close the
	door"
	Customised door detection tones are available under System -
	Upgrade - Ringtones, after upgrading the ringtone file the door
	detection can be set to use a customised
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	Enable mute mode during the intercom call
Mute	
Enable Intercom	If the incoming call is intercom call, the phone plays the intercom
Tone	tone
Enable Intercom	Enable Intercom Barge by selecting it, the phone auto answers
Barge	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	Set the SIP response code on line busy
Code	
Reject Response	Set the SIP response code on call rejection
Code	



9. 21 Intercom settings >> Media



Picture 41 - Media Settings

Table 24 - Media Setting

Parameters	Description
Codecs Settings	Select the enabled and disabled voice codecs
	codec:G.711A/U,G.722,G.729,ILBC,opus,G.726,G.723.1
Media Setting	
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
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.		
Set the H264 Payload Type, the value must be 96~127.		
RTP Control Protocol(RTCP) Settings		
Set CNAME user		
Set CNAME host		
RTP Settings		
Hold the call and send the packet after 30s		
Alert Info Ring Settings		
Set the value to specify the ring type.		
Type1-Type9		

9. 22 Intercom settings>>Camera Settings

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



Picture 42 - Camera Settings

Table 25 - 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	



White Balance Mode	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 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, and other types of light sources)
	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
Exposure	range is 0~10000
Mode	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
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 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;
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 Time Exposure Gain	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. 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
	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. 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
	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. 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.
Exposure Gain	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. 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. Auto mode: The camera automatically sets the contrast according to
	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. 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.
Exposure Gain	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. 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. Auto mode: The camera automatically sets the contrast according to the environment, no need for the operator to adjust
Exposure Gain Contrast Mode	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. 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. 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.
Exposure Gain	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. 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. 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 refers to the contrast between light and dark in the picture.

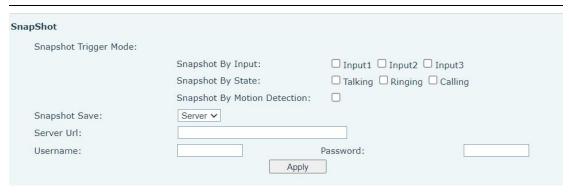


Saturation	Auto mode: The camera automatically sets the saturation according
Mode	to the environment, without the need for the operator to adjust
	Manual mode: Manually set the camera's saturation parameters.
Saturation	Saturation refers to the color. Adjusting the saturation will change the
	color. 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
Sharpness	to the environment, no need for the operator to adjust
Mode	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
Sharpness	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.
Maria alamana	Enable or disable wide dynamic. Turning on wide dynamic allows the
Wide dynamic	camera to see the image in a very strong contrast
Wide dynamic	Cot impose being to so her very most former 0, 40
range	Set 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
Image mode	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
Finally One of	Enable or disable the onvif protocol, after enabling it, the device can
Enable Onvif	be 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
Auth	and password)
Enable Rtsp	When using rtsp protocol, whether authentication is required (with
Auth	username and password)
H.264 Payload	Cat the lead time of h 204 the new reliance 107
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.
-	



Video Codecs		
H264 Video	Support H.264 encoding format	
Stream	Support 11.204 chooding format	
Bitrate Control	VBR: Video call will adapt to the bit rate of the opposite end, so that the video 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	
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	
Call trigger	Select the call status that triggers the capture	
Movement detection trigger	Whether to enable monitoring 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	





Picture 43 - SnapShot

Capture trigger mode: input trigger, call status trigger, Movement detection trigger

Input trigger: Select the input port to trigger the snapshot

Call status trigger: The snapshot is triggered when an incoming call, call, or call occurs

Movement detection trigger: A capture is triggered when the camera detects abnormal action

Snapshot Save: Save the screenshot to the server or SD card. Support 128G

Server url: Server address (Upload through FTP, TFTP, HTTP, or HTTPS): ftp://IP:port@user: password/

9. 23 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.

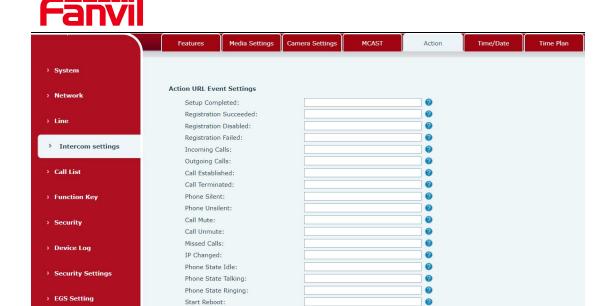
The detail for 8.2 MCAST

9. 24 Intercom Setting >> Action URL

Table 26 - 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

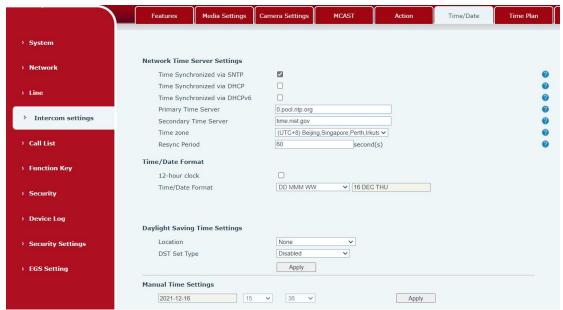


Picture 44 - Action URL

9. 25 Intercom Setting >> Time/Date

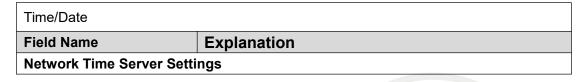
Users can configure the device's time Settings on this page.

Web API Auth Changed:



Picture 45 - Time/Date

Table 27 - Time/Date



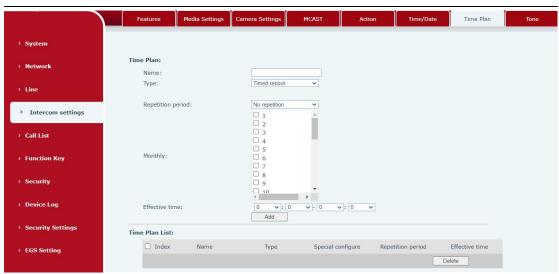


Time Synchronized via SNTP	Enable time-sync through SNTP protocol		
Time Synchronized via DHCP	Enable time-sync through DHCP protocol		
Primary Time Server	Set primary time server address		
	Set secondary time server address, when primary server		
Secondary Time Server	is not reachable, the device will try to connect to		
	secondary time server to get time synchronization.		
Time zone	Select the time zone		
Resync Period	Time of re-synchronization with time server		
Daylight Saving Time Settings			
Location	Select the user's time zone specific area		
DCT Cot Turns	Select automatic DST according to the preset rules of		
DST Set Type	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 Settings			
To set the time manually, yo	u 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. 26 Intercom settings>>Time plan

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





Picture 46 - Time Plan

Table 28 - Time Plan

Parameters	Description
Name	Enter a defined action name
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. 27 Intercom 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.

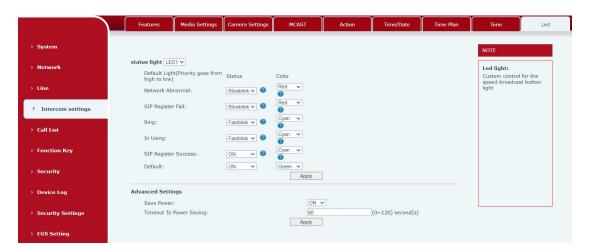




Picture 47 - Tone

9. 28 Intercom settings >> Led

The user can configure the status and color of the indicator light on this page.



Picture 48 - Led

Status indicator: The user can customize how the LED displays when the device is in different status.

Energy-saving mode: The device automatically turns off the LED when the device is not in use. The user can turn on or off the energy-saving mode.

Energy-saving mode timeout: The user can set the timeout of the energy-saving mode after inactivity. The default timeout is 60 seconds.

9. 29 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. 30 Call list >> Web Dial

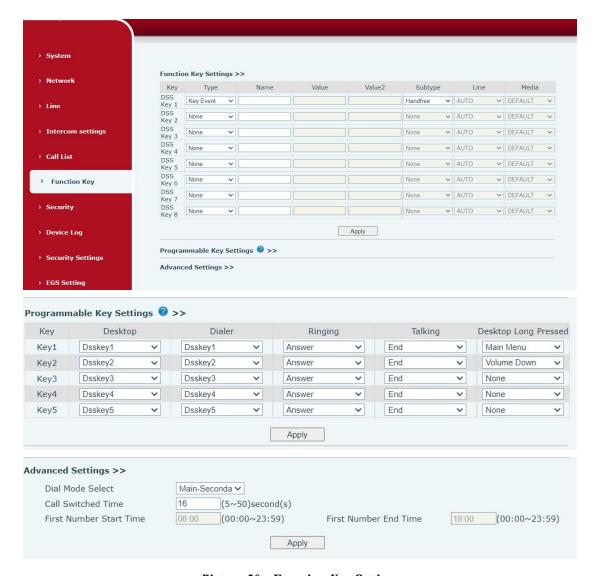
Use web page to call, answer and hang up.



Picture 49 - Webpage Dial



9. 31 Function key



Picture 50 - Function Key Settings

Table 29 - Function Key Settings

Parameters	Description
Function key s	ettings
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



Kayayant	·
Key event	The user can select a function key as the shortcut to trigger an event
	Handfree: One-click to open the hands-free
	Audio play: play music stored locally
	OK: Confirm key
	Volume Up: Increase the volume
	Volume Down: Decrease the volume
	Redial: redial out the last number dialed
	Release: Hang up the call
	Call Back: dial back the last call
	Volume Circle
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 Ke	·
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

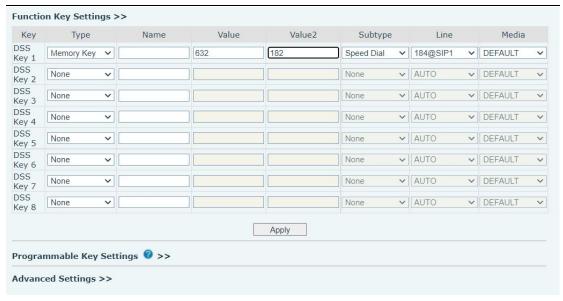


-	
Talking	End: set to end, when there is a call, press the speed dial key to hang
	up the call
	Volume up: set as volume up button, when there is a call, press the
	speed dial button to increase the volume
	Volume down: set as volume up button, when there is a call, press
	the speed dial button to decrease 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</main>
Hot Key Dial	time, the second number will be automatically switched.
Mode Select	<day night=""> : The system time is automatically detected during the</day>
	call. If it is daytime, the first number is called, otherwise the second
	number is called.
Call Switched	Set number 1 to call number 2 time, default 16 seconds
Time	oct number 1 to can number 2 time, detault 10 3000 nus
Day Start Time	The start time of the day when the <day night=""> mode is defined.</day>
Day Start Time	Default "06:00"
Day End Time	The end time of the day when the <day night=""> mode is defined.</day>
	Default "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.





Picture 51 - Memory Key

Table 30 - Memory Key

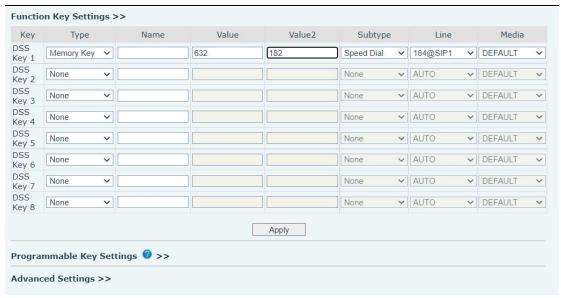
Туре	number	line	Subtyp e	usage
	Fill in the SIP	The line	Speed Dial	Using the speed dial mode, press the button to quickly dial the set number.
memo ry	or IP address of the called party	correspo nding to the SIP account	Interco m	Using the intercom mode, when the SIP phone at the opposite end supports 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 DSS Key multicast web configuration for calling party is as follow:





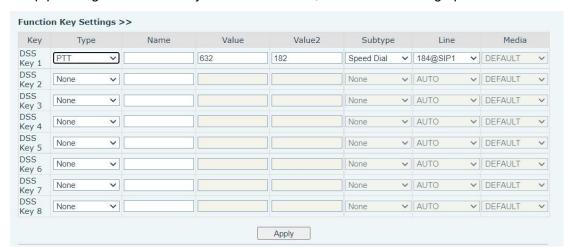
Picture 52 - Multicast

Table 31 - Web Multicast

Туре	Number	Subtype
		G.711A
Multicast	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

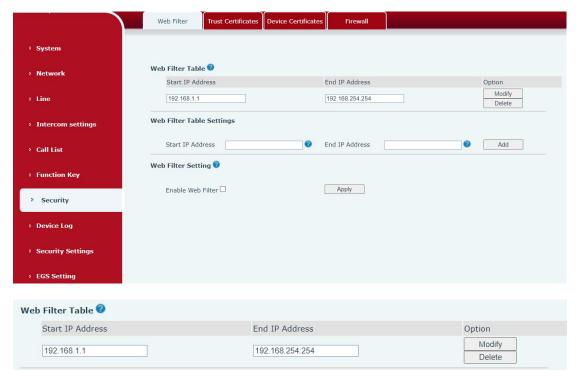
Keep pressing the shortcut key set to make a call, release it and hang up





9. 32 **Security >> Web filter**

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



Picture 53 - 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.

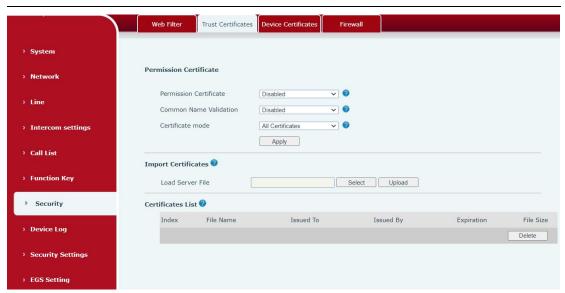
Enable web filtering: configure to enable/disable web access filtering; click the [Submit] button to take effect

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. 33 **Security** >> Trust Certificates

You can upload and delete uploaded trust certificates.

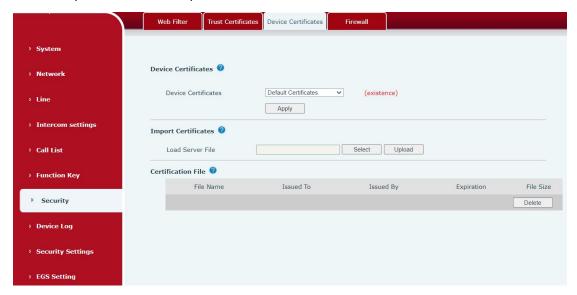




Picture 54 - Trust Certificates

9. 34 Security >> Device Certificates

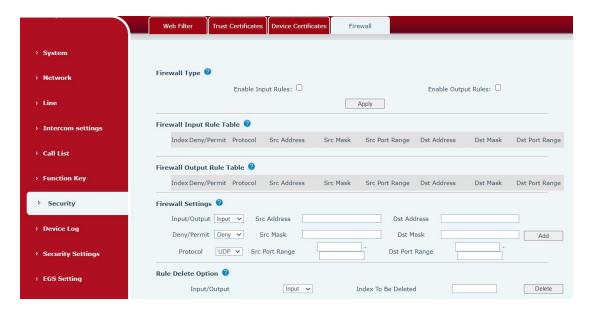
Select the default certificate or the custom certificate as the device certificate. You can upload and delete uploaded certificates.



Picture 55 - Device Certificates



9. 35 **Security >> Firewall**



Picture 56 - 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:

Description parameter **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, Src Address or 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

Table 32 - Web Firewall



	..*.0, such as 192.168.1.0.		
	It is the source address mask. When it is configured as		
Cro Dort Dongo	255.255.255.255, it means it is a specific host. When it is set as		
Src Port Range	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 Dert Denge	255.255.255.255, it means it is a specific host. When it is set as		
Dst Port Range	a 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 57 - 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 58 - Delete firewall rules

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

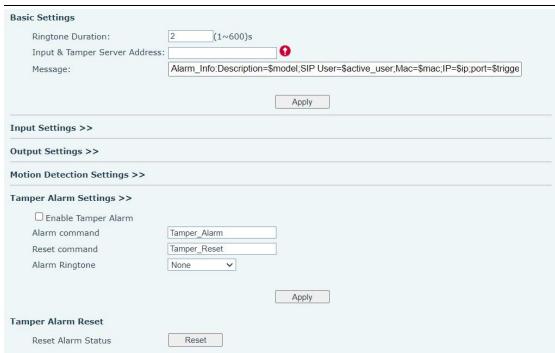
9. 36 **Device log**

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 <u>10.5 get device</u> <u>log</u>.

9. 37 **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.





Picture 59 - Security Settings

Table 33 - Security Settings

Security Settings			
Parameters	Description		
Basic Settings			
Ringtone Duration	Set the ringtone duration, default value is 2 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=i16SV;SIP		
	User=;Mac=0c:38:3e:3a:06:65;IP=; port=Input .		
Information	Fill in the information attached to the upload server		
Input settings			
Input	Enable or disable Input		
	When choosing the low level trigger (closed trigger), detect the		
Triggered by	input port (low level) closed trigger.		
Triggered by	When choosing the high level trigger (disconnect trigger), detect		
	the input port (high level) disconnected trigger.		
Input Duration	Set the Input change duration time, the default is 5 seconds.		
	Send SMS: Set the alert message send to server if selected.		
T	Event: 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.		



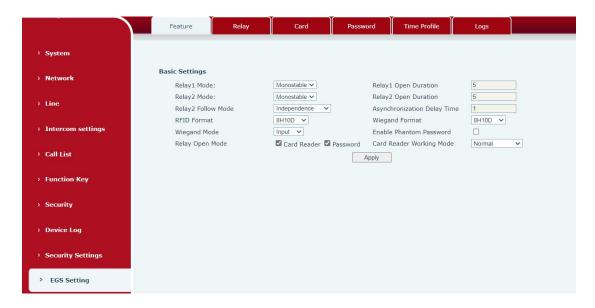
Triggered Ringtone	Ringtone selection	
Output Settings		
Enable Logs	Enable or disable LOG	
Triggered by DTMF Ring tone	Select the DTMF trigger ring tone.	
Triggered by URI Ringtone	Select the URI trigger ring tone.	
Triggered By SMS Ringtone	Select the SMS trigger ring tone.	
Triggered By Dsskey Ringtone	Select the Dsskey trigger ring tone.	
Output Response	Enable or disable Output Response	
	When choosing the low level trigger (NO: normally open), when	
Standard Status	meet 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.	
Output Duration	When the input port meets the trigger condition, the output port	
Input trigger	will trigger (the port level time changes, controlled by <output duration="">).</output>	
Trigger by DTMF	Enable or disable trigger by DTMF. The device will check the received 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 By	Reset the output port mode by duration or state. By duration: Reset the output port status when output duration occurs. By state: Reset the output port status when device's call state changes.	
Trigger by URI	Enable or disable trigger by URI. User can send commands from remote device or server to i16SV 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 i16SV 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.	
	Select the input port, when the input port meets the trigger	
Trigger by Input	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:	
	Talking: When the device's talking status changes, trigger the	
Trigger By Call	output port.	
state	Ringing: When the device's ringing status changes, trigger the	
State	output port.	
	Calling: When the device's calling status changes, trigger the	
	output port.	
	Enable or disable trigger by dsskey. If any of the dsskey is	
Trigger By DssKey	selected, when the dsskey application performs, the output port	
	will be triggered.	
Triggered Hangup	Trigger the output port after hanging up	
Hangup Delay	Hang up trigger delay, default 5 seconds	
Motion detection se	ettings	
Motion Detection	Enable or disable motion detection	
Alarm	Litable of disable motion detection	
Trigger Duration	Set the trigger delay time, the default is 3 seconds, the range:	
Trigger Duration	0~3600 seconds	
Trigger ringtone	Support ringtone selection	
Trigger behavior:	Enable or disable the input port to send messages to the server	
Send SMS	Enable of disable the input port to send messages to the server	
Function key	When set to dsskey1 or dsskey2, trigger dsskey to make a call,	
T dilottori key	the default is none	
Tamper Alarm Setti	ngs	
Enable Tamper	Whether to enable tamper detection, if the terminal is violently	
Alarm	dismantled, the tamper is triggered and always play the set alarm	
	ringtone	
Alarm command	When detected someone tampering the equipment, the alarm	
Alaim Command	signal will be sent to the corresponding server	
Reset command	When the equipment receives the command of reset from server,	
Reset command	the equipment will stop alarm	
	are equipment will etep diam.	
Alarm Ringtone	Alarm ringtone setting	
Alarm Ringtone Detachable alarm re	Alarm ringtone setting	
	Alarm ringtone setting	



9. 38 **EGS Setting >> Features**



Picture 60 - ESG Feature Settings

You can set basic access control Settings on this screen

Table 34 - ESG Feature Parameters

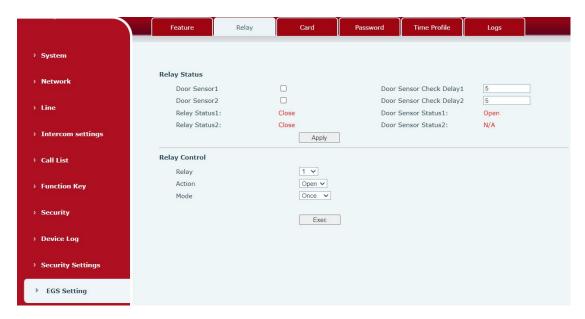
Field Name	Explanation
Basic Settings	
Relay1 Mode	Monostable: there is only one fixed action status for door unlocking.
	Bistable: there are two actions and statuses, door unlocking and door
	locking. Each action might be triggered and changed to the other
	status. After changed, the status would be kept.
	Initial Value is Monostable
Relay1 Duration	Door unlocking time for Monostable mode only. If the time is up, the
	door would be locked automatically. Initial Value is 5 seconds.
Relay2 Mode	Monostable: there is only one fixed action status for door unlocking.
	Bistable: there are two actions and statuses, door unlocking and door
	locking. Each action might be triggered and changed to the other
	status. After changed, the status would be kept.
	Initial Value is Monostable
Relay2 Duration	Door unlocking time for Monostable mode only. If the time is up, the
	door would be locked automatically. Initial Value is 5 seconds.



Monostable: there is only one fixed action status for door unlocking.
Bistable: there are two actions and statuses, door unlocking and door
locking. Each action might be triggered and changed to the other
status. After changed, the status would be kept.
Initial Value is Monostable
Door unlocking time for Monostable mode only. If the time is up, the
door would be locked automatically. Initial Value is 5 seconds.
Independent: Open the door independently with Relay1
Synchronous: open the door at the same time as Relay1
Asynchronous: Relay1 opens after a period of time Relay2 opens
The user can set the asynchronous door opening delay time of
Relay1 and Relay2, the default is 1 second
Supported access control card format
Supported Wiegand access card format
Optional input port or output port, default in
Support 26 and 34
Fushla and disable send mandar for DEID sends
Enable or disable card reader for RFID cards.
Set ID card stats:
Normal: This is the work mode, after the slot card can to open the
door.
Card Issuing: This is the issuing mode, after the slot card can to add
ID cards.
Card Revoking: This is the revoking mode, after the slot card can to
delete ID cards.



9. 39 EGS Setting >> Relay



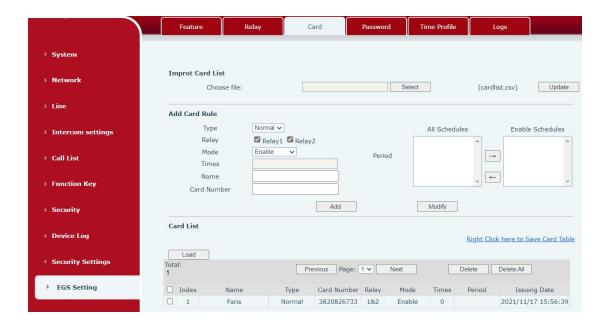
Picture 61 - Relay

Table 35 - Relay

Field Name	Explanation
Relay Status	
Door Sensor1	Enable or disable door sensor 1
Door Sensor	Door Sensor1 detection delay time setting,5 seconds by default
Check Delay 1	
Door Sensor2	Enable or disable door status sensor 2
Door Sensor	Door Sensor2 detection delay time setting,5 seconds by default
Check Delay 2	
Lock Status 1	Door Close/Open
Door Sensor	Door Close/Open
Status1	
Lock Status 2	Door Close/Open
Door Sensor	Door Close/Open
Status2	
Door Lock Cont	ol
Door Lock	Execute a door lock to open or close the door
Action	Door Open/Close
Onen mede	Once: perform door opening action, and will be closed automatically
	when timeout.
Open mode	Continue: perform the door opening action, the door will not be closed
	automatically and need to closed manually when timeout.



9. 40 EGS Setting >> Card



Picture 62 - Card

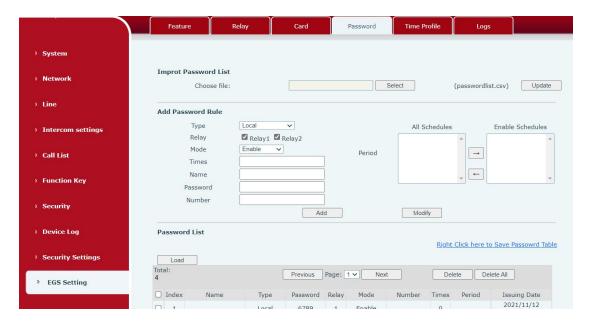
Table 36 - Card rule

Field Name	Explanation		
Import Card List			
Click the <select></select>	Click the <select> to choose to import remote card list file (cardlist.csv) and then clicking</select>		
<update> can bate</update>	ch import remote card rule.		
Add Card Rule			
Туре	Standard, namely to open the door card		
	Add, swipe the added card administrator card in the standby mode,		
	the device will enter the card add mode, and then swipe the card, the		
	card that has not been added to the card list will be added		
	Delete, swipe the added card delete administrator card in standby,		
	the device will enter the card delete mode, and then swipe the card,		
	the added card will be deleted		
Relay	Swipe to open the door lock		
Mode	Closed, swiping is unsuccessful after disabling		
	Enable, swipe the card to take effect after enabling		
	Time zone, swiping the card in the set time zone takes effect		
Times	The number of times the card can be swiped in a time period		
Name	User name		
Card Number	RFID card number. You can manually fill in the first 10 digits of the		
	card number or select the existing card number		



Period	The time to add the card, automatically generated
Card List	
Operation	Delete, delete all
	Export, support to export to csv. file

9.41 EGS Setting >> Password



Picture 63 - Password Rule

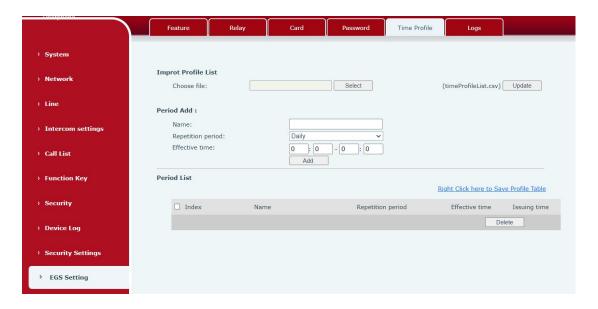
Table 37 - Time to add the card, automatically generatedd Rule

Field Name	Explanation	
Import Password List		
Click the <select> to choose to import remote password list file (passwordlist.csv) and</select>		
then clicking <update> can batch import remote password rule.</update>		
Add Password Rule		
Туре	Local, that is, the local door opening password, enter the password	
	dial interface in standby and enter the set opening password to open	
	the door immediately	
	Remote, remote opening password, when the indoor unit calls the	
	door or when the door calls the indoor unit to open the door, enter the	
	DTMF password to open the door	
	Remote and local, one password supports two door opening	
	methods at the same time	
Relay	A door lock with a code	



Mode	Closed, unsuccessful password opening after disabling	
	Enable, after enabling the password to open the door to take effect	
	Time zone, the password to open the door takes effect during the set	
	time zone	
Times	The number of times the door can be opened with a password in a	
	time period	
Name	User name	
Password	Password to open the door	
Number	When the indoor unit calls the access control or the access control	
	calls the indoor unit to open the door, enter the DTMF password to	
	open the door	
Period	Time to add the card, automatically generated	
Password List		
Operation	Delete, delete all	
	Export, support to export to csv. file	

9. 42 EGS Setting >> Time Profile



Picture 64 - Time Profile

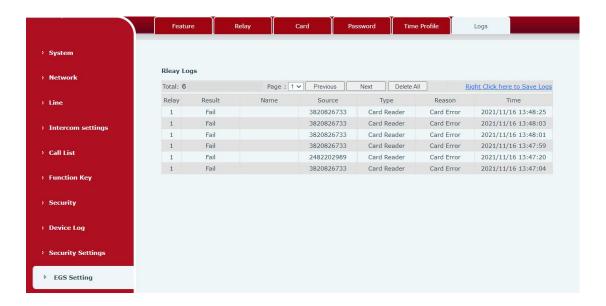
Table 38 - Time Profile

Field Name	Explanation	
Import time list		
Click the <select> to choose to import remote Profile list file (timeProfileList.csv) and</select>		
then clicking <update> can batch import remote Period.</update>		
Period Add		



Name	Set the name of the time period
	No repetition: Opening the door in the set time period is valid, and it
	is invalid at other times
	Daily: It is valid to open the door in the time period set daily, and it is
Repetition	invalid at other times
period	Weekly: It is valid to open the door in the time period set every week,
	and it is invalid at other times
	Monthly: Open the door in the time period set every month is valid,
	and it is invalid at other times
Effective time	Set the effective time

9. 43 EGS Setting >> Logs



Picture 65 - Logs

Table 39 - Logs

Field Name	Explanation
Relay	Relay
Result	Display the result of a single door opening (success or failure)
Name	The name of the person who opened the door
Source	Card number or password to open the door
Туре	Door opening type, including password, credit card
Reason	Reasons for failed door opening
Time	Opening time



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

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 Technical Support mailbox.

10.5 Get 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 40 - Trouble Cases

Trouble Case	Solution
Device could not boot up	1. The device is powered by external power supply via power
	adapter or POE switch. Please use standard power adapter
	provided 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	Please check if the device is connected to the network.
to a 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 Support Email to help analyze the
	issue.