



User's Manual

7-inch SIP Indoor Touch Screen PoE Video Intercom with Built-in Wi-Fi

► VTS-700WP



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This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
4. Consult the dealer or an experienced radio technician for help.

FCC Caution

To assure continued compliance, use only shielded interface cables when connecting to computer or peripheral devices. Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure set forth for an uncontrolled environment. In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, human proximity to the antenna shall not be less than 20 cm (8 inches) during normal operation.

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This equipment is designed with the utmost care for the safety of those who install and use it. However, special attention must be paid to the dangers of electric shock and static electricity when working with electrical equipment. All guidelines of this and of the computer manufacture must therefore be allowed at all times to ensure the safe use of the equipment.

CE Mark Warning

This is a Class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

WEEE Regulation



To avoid the potential effects on the environment and human health as a result of the presence of hazardous substances in electrical and electronic equipment, end users of electrical and electronic equipment should understand the meaning of the crossed-out wheeled bin symbol. Do not dispose of WEEE as unsorted municipal waste and have to collect such WEEE separately.

Revision

User's Manual of PLANET 7-inch SIP Indoor Touch Screen PoE Video Intercom with Built-in Wi-Fi
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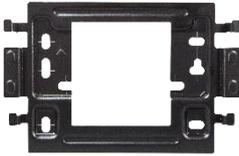
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Chapter 1. Product Introduction

1.1 Package Contents

Thank you for purchasing PLANET SIP Indoor Touch Screen PoE Video Intercom, VTS-700WP.

Open the box of the SIP Indoor Touch Screen PoE Video Intercom and carefully unpack it. The box should contain the following items:

Touch Screen PoE Video Intercom x 1	Quick Installation Guide QR Code Sheet x 1	Wall-mounted Kit x 1
		
Pin Cable x 3	Wall Anchor x 4	TA4*30mm Screw x 4
		
TM6*20mm Screw x 4	KM3*30mm Screw x 2	PM4*16mm Screw x 2
		

 **Note** If any of the above items are missing, please contact your seller immediately.

1.2 Overview

Touch Screen PoE Video Intercom with Built-in Wi-Fi

PLANET VTS-700WP, a 7-inch SIP Indoor Touch Screen PoE Video Intercom, serves as the central hub for Video Intercom and Automation Systems. Ideal for both homes and businesses, this elegantly-designed unit allows you to effortlessly manage functions at your fingertips. Eliminating the need to physically go to the door, the VTS-700WP facilitates receiving calls, communicating through the door phone, and achieving remote door-opening, ensuring reliable security and easy access control. With its 7-inch color touch screen and rich interfaces, it is tailored for residential areas, villas, office buildings, and various locations. The VTS-700WP contributes to the creation of a safe and comfortable living environment. Additionally, the VTS-700WP is equipped with built-in Wi-Fi functionality, ensuring network connectivity remains uninterrupted in case of wired network transmission failure.



Its simple user interface enables you to easily arm and disarm your home security system, view status of doors and door locks, and see live video from cameras in and around the house – all at the touch of a button. Quick-read information, such as time, and more are available via on-screen widgets that are constantly updated. One glance at the display panel shows who is outside your door, and you can decide to start a dialogue or open the door lock. In addition, with PLANET IP PBX and IP intercoms, the VTS-700WP makes the door communication system comprehensive and easy.



Safeguarding Homes Conveniently via the Multi-functional Sensor

The VTS-700WP provides 8 local zones of conventional detectors and different type for alarm outputs. When detectors are triggered upon detection, the alarm signal is picked up and you will be alerted of the situation via the VTS-700WP or alarm outputs. The real-time alert can certainly stop the situation from becoming worse, thereby protecting your home from the would-be burglary.

Video Monitoring of Indoor Touch Screen IP Intercoms

With Indoor Touch Screen you can view video from the intercom camera at any time. This allows you to have a constant overview of what is happening outside the door or around your home on the screen. Keep an eye on your kids and pets, screen visitors at your entrance and view activities occurring around the interior or exterior of your home whenever and wherever you want.



Audio in HD Quality

Experience PLANET's crystal clear sound in the HDP-1261PT Door Phone and VTS-700WP SIP Indoor Touch Screen PoE Video Intercom. The Acoustic Echo Cancellation (AEC) technology is adopted in PLANET's HDP-1261PT Door Phone and VTS-700WP SIP Indoor Touch Screen PoE Video Intercom to minimize the sound signal distortion. In addition, with echo suppression, you'll feel like you're talking to your caller face-to-face, thus guaranteeing the best-in-class sound quality.



1.3 Features

➤ Highlights

- Stylish and simple outlook which matches with different decorative styles.
- 7-inch capacitive color touch screen.
- HD voice speech quality with built-in 2W speaker and Acoustic Echo Canceller (AEC).
- Built-in 2.4G/5G Wi-Fi.
- Possesses 8 alarm inputs and 1 RS-485 interface (RS-485 is reserved.).
- View the authorized camera image over the video door phone.
- Rich interfaces to meet the needs in different application scenarios.

➤ Network and Configuration

- Standard SIP protocol compatible with modern IP Intercom systems
- Support for seamless integration with P2P applications
- Supports wideband G.722 audio codec and H.264 video codec.
- Integrates door phone with one control pad
- Real-time image monitoring of home and community public cameras
- Two-way communication with other units in the network
- Able to see, hear and speak to your visitors before opening the door (with the HDP-5240PT/HDP-1261PT).
- PLANET DDNS and Easy DDNS
- PLANET Smart Discovery Utility for deployment management

1.4 Specifications

Product	VTS-700WP
Hardware Platform	
Screen Size	7- inch
Video Resolution	1024 x 600
Aspect Ratio	16:9
Touch Panel	Projected capacitive (multi touch)
Audio	
Standard	Wideband ADC/DAC 16KHz sampling Full-duplex hands-free speakerphone with AEC Voice Activity Detection (VAD) / Comfort Noise Generation (CNG) / Background Noise Estimation (BNE) / Noise Reduction (NR) Packet Loss Concealment (PLC) Dynamic Adaptive Jitter Buffer DTMF: In-band, Out-of-Band – DTMF-Relay (RFC2833) / SIP INFO VQM voice quality monitoring
Voice Codec	Narrowband codec: <ul style="list-style-type: none"> ✓ G.711A/U, ✓ G.723.1, ✓ G.726-16/24/32/40, ✓ G.729AB, ✓ iLBC Wideband codec: <ul style="list-style-type: none"> ✓ G.722,Opus
Audio Streaming	Two-way audio
Microphone	Built-in microphone
Video	
Hardware video decoding	H.264
Video call resolution:	QVGA / CIF / VGA / 4CIF / 720P / 1080P
Network and Configuration	
Network Standard	IEEE 802.3 10BASE-T IEEE 802.3u 100BASE-TX
IP Configuration	IPv4/IPv6 Static / DHCP
Functions	SIP intercom supported (with the HDP-5240PT/HDP-1261PT) 6 SIP Lines VPN: L2TP / OpenVPN VLAN QoS RTCP-XR (RFC3611), VQ-RTCPXR(RFC6035) Wi-Fi:2.4/5G
Protocols	SIP v1 (RFC2543), v2 (RFC3261) over UDP/TCP/TLS RTP/RTCP/SRTP STUN L2TP SNTP FTP/TFTP HTTP/HTTPS TR-069

Management	Web management portal Web-based packet dump Configuration export / import Firmware upgrade Syslog PLANET DDNS and Easy DDNS PLANET Smart Discovery Utility
General	
Power Requirements	12V DC, 1A IEEE 802.3af Class 3
Operating Temperature	-10 ~ 50 degrees C
Operating Humidity	10 ~ 90% (non-condensing)
Weight	276g
Dimensions (W x D x H)	177.4x114x22.5 mm
Installation	Wall-mount
Emission	CE, FCC
Connectors	10/100Mbps Ethernet, RJ45 DC power jack (12V/1A, female connector) Alarm Input Interface x 8 RS485 Interface x 1 (reserve) Short-out control port x 1 (built-in relay) ✓ Relay: Max. DC30V / 2A, AC125V / 0.5A Doorbell short-in detection input x 1

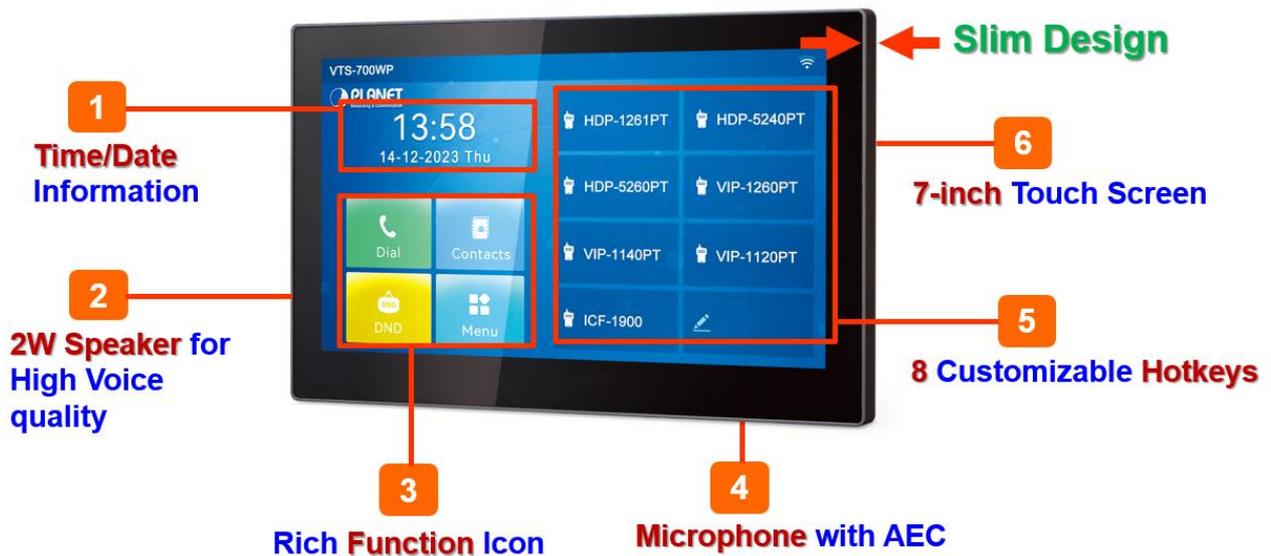
Chapter 2. Hardware Interface

2.1 Physical Descriptions

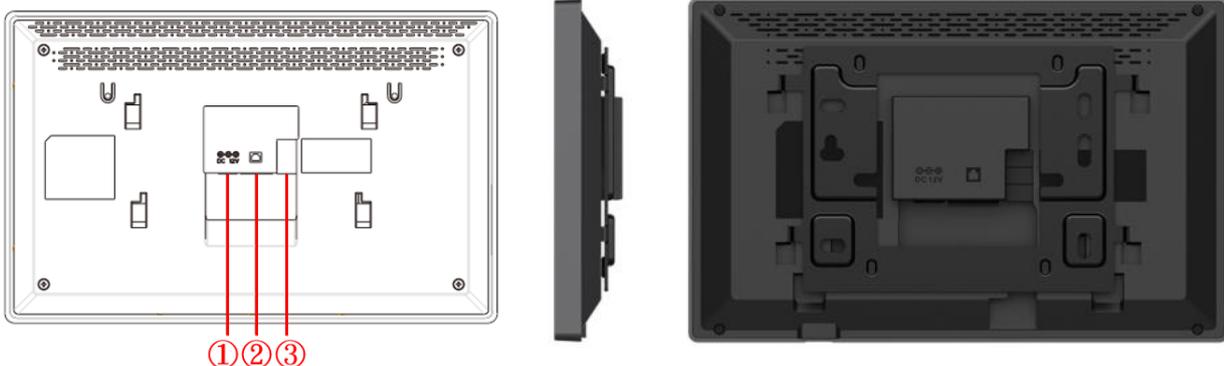
Dimensions and Weight

Dimensions (W x D x H)	177.4 x 114 x 22.5 mm
Gross Weight	276 g

Front Panel



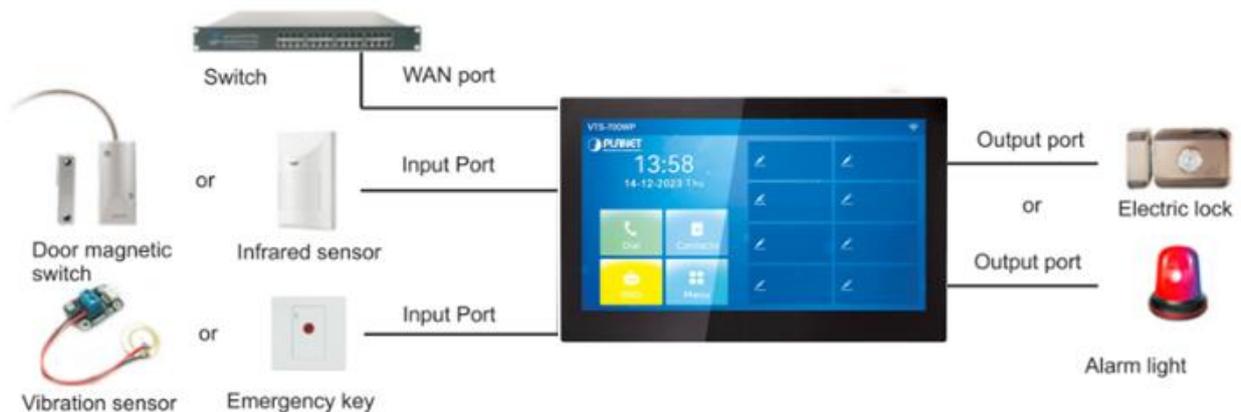
Rear Panel



Security contact configuration diagram

No.	Description	Interface
1	Power interface : 12V/1A input	
2	10/100M adaptive RJ45 interface (It is recommended to use CAT5 or CAT5e network cable.)	
3-1	12V/1A input	
3-2	1 doorbell interface	
3-3	3 short-circuit output interfaces can be connected to electric locks, alarm, etc.	
3-4	8 alarm input interfaces for connecting switches, infrared sensor, door sensor, vibration sensors, etc.	
3-5	2 RS485 interfaces connected to card reader, sensor, etc. (Reserved for future use)	

External Device Connection Diagram

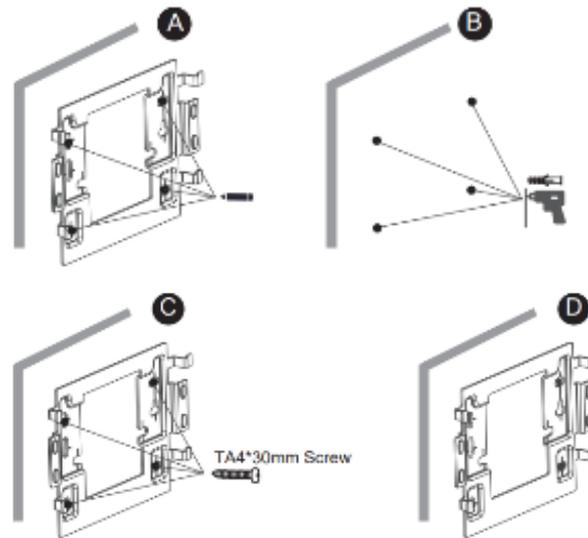


2.2 Wall-mount Installation

Step 1. Install wall bracket

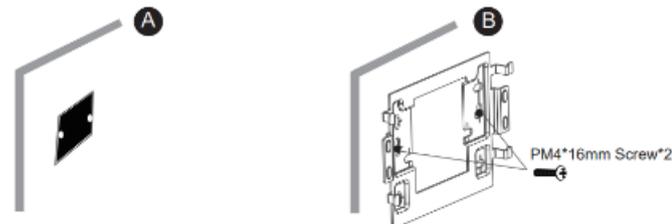
Without embedded box in the wall

1. Mark four fixed holes on the wall with the wall bracket.
2. Remove the bracket, drill the four fixed holes on the wall, and insert the four wall anchors provided.
3. Tighten the wall bracket on the wall with the four TA4*30mm screws.



With 86 embedded box in the wall

Fix the wall bracket on the 86 embedded box with the two PM4*16mm screws

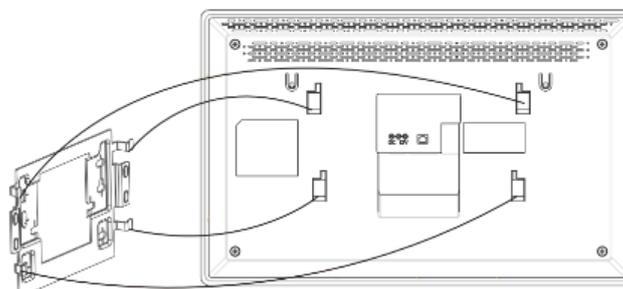


Step 2. Connect peripherals

If you need to connect other input and output devices, please connect to the host through the cable.

Step 3. Power on the device

If the powered device is working properly, align the slot with the rear side of the panel with the pin on the wall bracket and slide the host down to complete the installation.



Chapter 3. User Getting Started

3.1 Search VTS-700WP

Open the **Planet SmartDiscoveryLite Utility**. Press the Refresh button to search the VTS-700WP and find the IP address.

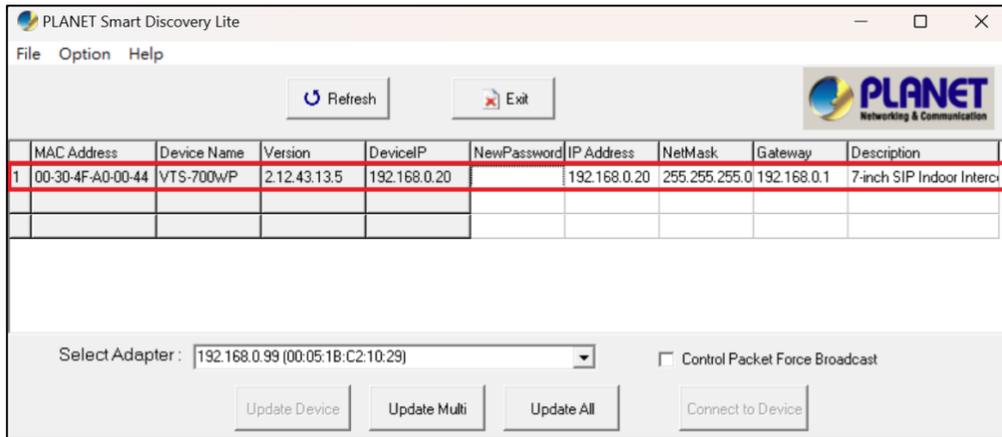


Figure 3-1-1 Planet SmartDiscoveryLite Utility Screenshot

3.2 Starting Web Management and IP Indoor Unit Setting

Step 1: Log in the web setting page of Indoor Unit

Enter the IP address of indoor unit (e.g., <https://192.168.0.20>) in the address bar using the **https** method of your PC's web browser. The default user name and password are both **admin**.



Figure 3-2-1 Login Page Screenshot

Step 2 : Add the SIP account.

Set SIP server address, port, user name, password and SIP user with assigned SIP account parameters. Select “Activate”, and then click Apply to save this setting.

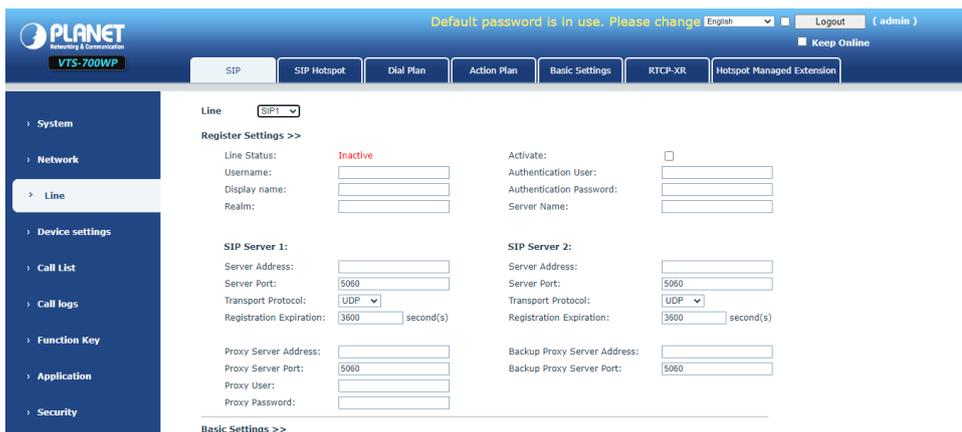


Figure 3-2-2 SIP Configuration Page Screenshot

Step 3 : Unlock Setting

Application→Door phone Settings→Add→OK.

Title: Doorphone mode; **Number:** The SIP account of doorphone

Line: The SIP line of Indoor Unit; **Access Codec:** Consistent with the access code in doorphone access table

Password: Same as the doorphone’s password

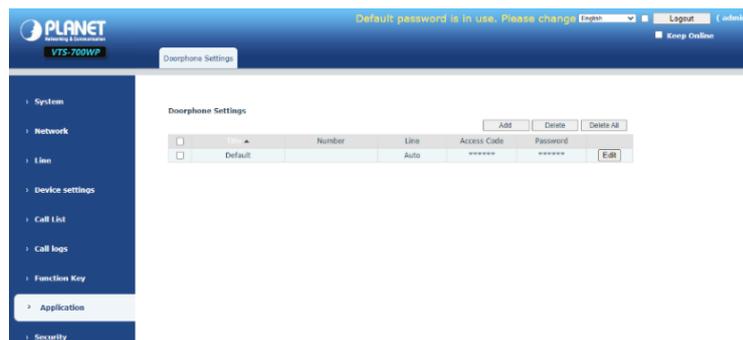


Figure 3-2-3 Doorphone Configuration Page Screenshot

3.3 About Icons

Please refer to the following tables for related icons.

Status Prompt and Notification Icons

	Call out
	Call in
	Mute Microphone
	Call voice quality
	Call voice encryption
	Call Hold
HD	HD Audio
	Network disconnected
	Enable VLAN
	Enable VPN
	Keyboard locked
	Call forward activated
	Auto-answering activated
	Connecting WIFI
	Wi-Fi network abnormal
	SIP Hotspot
	DND

	Missed call
	SMS
	Unread voice message
	Network storm

Table 3-3-1 Status Prompt and Notification Icons

DSSkey Icons

Icon	Explanation
	Speed Dial
	Intercom
	Key Event
	URL/Action URL
	BLF List
	Multicast
	Memory Key None
	None
	Line
	DTMF

Table 3-3-2 DSSkey Icons

3.4 Introduction to the User

3.4.1 Panel for Standby Interface

The figure above shows the default standby screen interface, which is the state of the user interface most of the time. The upper half of the main screen displays the welcome message, time and date, and status information (such as automatic answer, network connection status, etc.).



Figure 3-4-1 LCD Panel Screenshot

Number	Description
1	Welcome word, number
2	Status icon
3	Time, Date
4	Custom function
5	Common functions

The dial interface is mainly used to make calls, enter the contacts, and call history interface.



Figure 3-4-1 Dial Interface Page Screenshot

Number	Features	Description
1	Dialpad	Enter the dial interface
2	Contact	Enter the contact interface, view/edit contacts
3	Call Records	Enter the call log interface, view the call log
4、5	Turn page	When the list supports multiple pages, page up and down
6	Home	Back to main interface
7	Volume Down Key	Volume Adjustment
8	Volume Up Key	Volume Adjustment
9	Number matching record	After entering the number, the query record displays
10	Input box	Enter number
11	Numeric keypad	0-9 , * , #
12	Input method	Switch input method, 123/abc/ABC/Abc/2aB
13	Switch Line	Switch the line from which to dial
14	Redial	After entering the number, press it to redial the number; If the number is not entered, press the number that last called out
15	Dial key	After entering the number, press to call out

3.4.2 Commonly Used Icons on the Interface

Introduction to icons commonly used by equipment.

Icon	Description	Icon	Description
	Back to main interface		Previous page
	Next page		Return
	Search for contacts		Add
	Save		

3.5 Use of Touch Keyboard

The device supports using the touch keyboard to enter data.

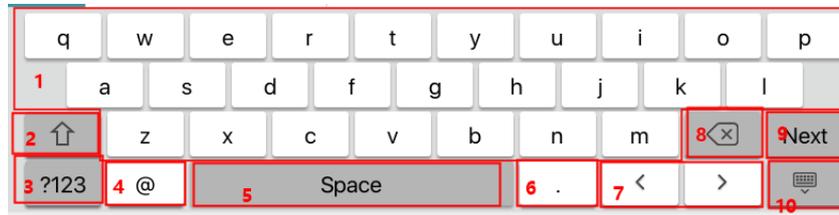


Figure 3-5-1 Touch Keyboard Screenshot

Number	Function keys	Description
1	26 English letters	Type letters
2		Switch to uppercase letter input mode
3		Switch to number, special character input mode
4、6	Special characters	@、\、.
5	Space Bar	Enter a Space
7	Switch	Switch input characters left and right
8	Delete	Delete entered characters
9	Next	Switch to the next edit box
	Done	Save operation
10		Hide keyboard

Tap  on the screen to switch to number and special character input mode.

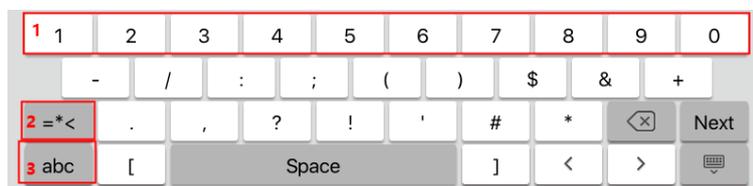


Figure 3-5-2 Keyboard Numbers & Characters Screenshot

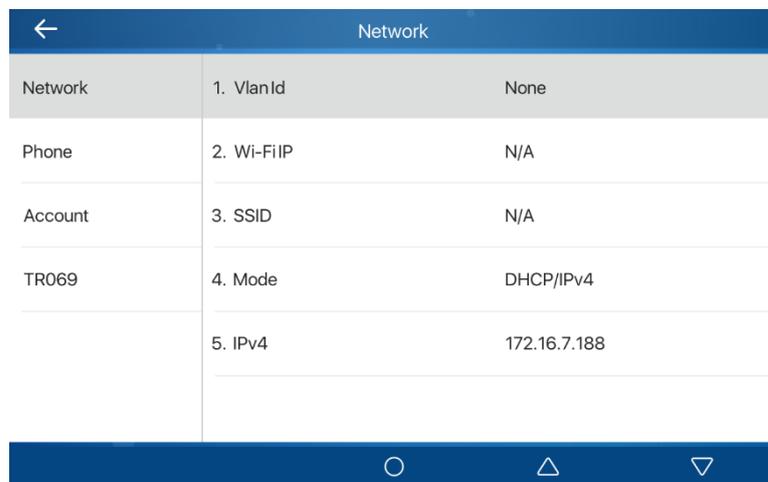
Number	Function keys	Description
1	Number Key	Type in data
2		Switch to special character input mode
3		Switch lowercase English letter input mode

3.6 Device Status

The VTS-700WP status includes the following information:

- **Network Status**
- **The Phone Device Information**
- **SIP Account Information**
- **TR069 Connection Status (Displayed only in [State] on LCD)**

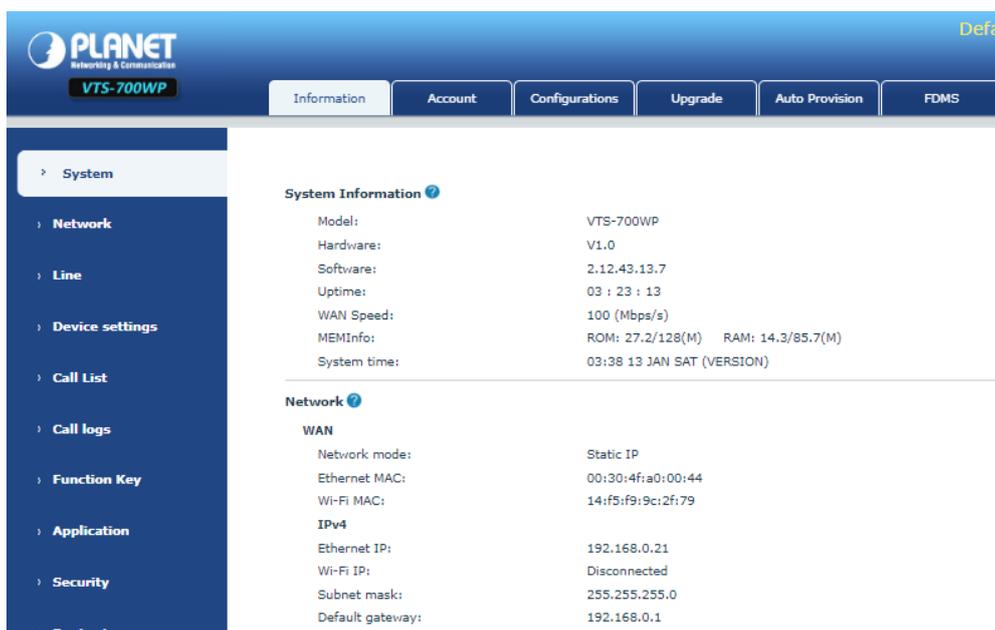
The user can view the VTS-700WP status through the phone interface and the web interface. Device interface: When the device is in standby, press **[Menu]** >> **[Status]**, select options to view corresponding information, as shown in the picture:



Network		
Network	1. VlanId	None
Phone	2. Wi-FiIP	N/A
Account	3. SSID	N/A
TR069	4. Mode	DHCP/IPv4
	5. IPv4	172.16.7.188

Figure 3-6-1 Network Status information Screenshot

- **Web interface** : Enter the **[System]** >> **[Information]** page, and check the phone status, as shown in the picture:



PLANET Networking & Communication
VTS-700WP

Information Account Configurations Upgrade Auto Provision FDMS

System

System Information

Model: VTS-700WP
 Hardware: V1.0
 Software: 2.12.43.13.7
 Uptime: 03 : 23 : 13
 WAN Speed: 100 (Mbps/s)
 MEMInfo: ROM: 27.2/128(M) RAM: 14.3/85.7(M)
 System time: 03:38 13 JAN SAT (VERSION)

Network

WAN

Network mode: Static IP
 Ethernet MAC: 00:30:4f:a0:00:44
 Wi-Fi MAC: 14:f5:f9:9c:2f:79

IPv4

Ethernet IP: 192.168.0.21
 Wi-Fi IP: Disconnected
 Subnet mask: 255.255.255.0
 Default gateway: 192.168.0.1

Figure 3-6-2 System Information on Web Screenshot

3.7 Web Management

The VTS-700WP can be configured and managed on the web page of the device. The user needs to enter the IP address of the device in the browser at first and open the web page of the device.

The user can check the IP address of the VTS-700WP by pressing **[Menu]** >> **[Status]**.



Figure 3-7-1 Login Page Screenshot

Users must correctly enter the user name and password to log in to the web page. The default user name and password are "**admin**".

3.8 Network Configurations

The VTS-700WP supports two network connection methods: wired network connection and wireless network connection. Users need to choose the corresponding connection method according to their own situation.

The device uses an IP network connection to provide services. Unlike traditional devices based on line circuit technology, IP devices are connected to each other through the network to exchange data packets and data based on the device's IP address.

To enable the device, the network configuration must first be properly configured. To configure the network, users need to find the device function menu button **[Menu]** >> **[Advanced Settings]** >> **[Network]** >> **[Network Settings]**. The default password for entering advanced settings is "123".

 Note	If user sees a  'WAN Disconnected' icon flashing in the middle of screen, it means the network cable is not correctly connected to the device's network port. Please check whether the cable is connected correctly to the device and to the network switch, router, or modem.
---	---

The device supports three network types, IPv4, IPv6, and IPv4 and IPv6.

There are three common IP configuration types for IPv4

- **DHCP** – This is the mode that automatically obtains the network configuration from the server. The user does not need to manually configure any parameters. Suitable for most users.
- **Static IP configuration** – This option allows users to manually configure each IP parameter, including IP address, mask, gateway and primary DNS server and backup DNS server. This usually applies to some professional network user environments.
- **PPPoE** – This option is usually suitable for users who connect to the network through a broadband service account. To establish a PPPoE connection, the user should provide the user name and password provided by the operator.
- The default configuration of the device is the network mode of automatic configuration

There are two common IP configuration types for IPv6

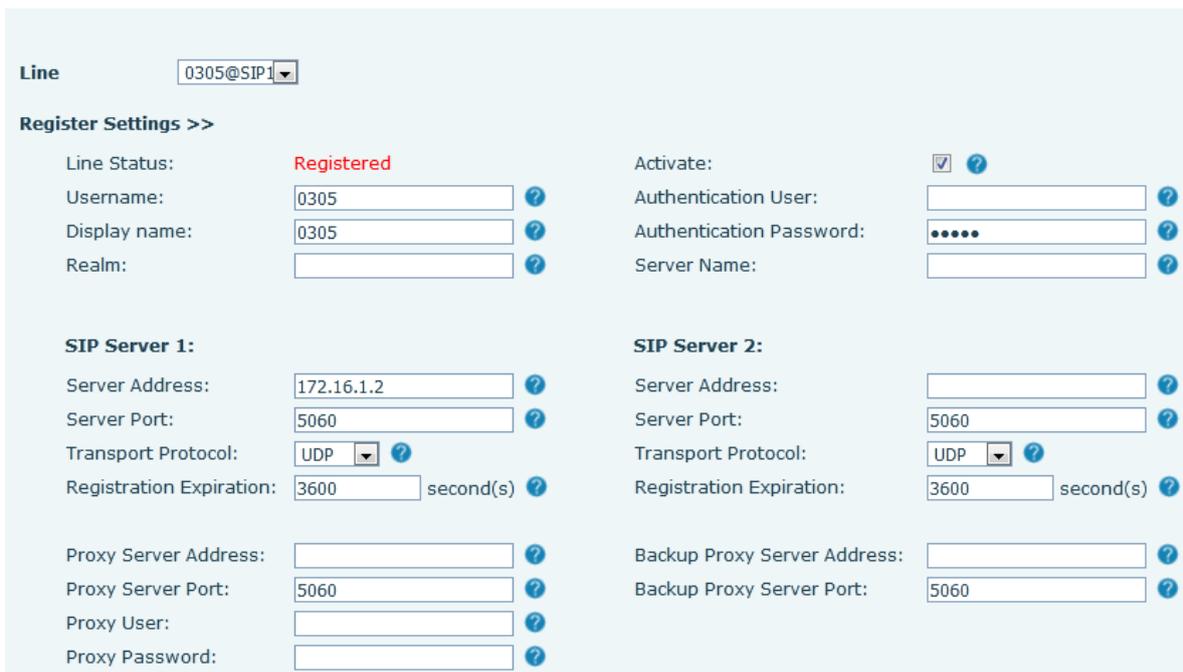
- **DHCP** – This is the mode that automatically obtains the network configuration from the server. The user does not need to manually configure any parameters. Suitable for most users.
- **Static IP configuration** – This option allows users to manually configure each IP parameter, including IP address, mask, gateway, and primary and secondary domain names. This usually applies to some professional network user environments.

3.9 SIP Configurations

There must be at least one line is configured properly in order to provide telephony service. The line configuration is like a virtualized SIM card. Just like a SIM card on a mobile phone, it stores the service provider and the account information used for registration and authentication. When the device is applied with the configuration, it will register the device to the service provider with the server's address and user's authentication as stored in the configurations.

The user can conduct line configuration on the interface of the device or the webpage, and input the corresponding information at the registered address, registered user name, registered password and SIP user, display name and registered port respectively, which are provided by the SIP server administrator.

Web interface: After logging in the Web, enter [Line] >> [SIP] to configure each line, and click Apply to save the configuration.



The screenshot shows a web interface for SIP configuration. At the top, there is a 'Line' dropdown menu set to '0305@SIP1'. Below it is a 'Register Settings >>' section. The 'Line Status' is 'Registered'. The 'Username' is '0305', 'Display name' is '0305', and 'Realm' is empty. The 'Activate' checkbox is checked. The 'Authentication User' and 'Authentication Password' fields are empty, with the password field masked with dots. The 'Server Name' field is also empty. Below this are two columns for 'SIP Server 1' and 'SIP Server 2'. For SIP Server 1, the 'Server Address' is '172.16.1.2', 'Server Port' is '5060', 'Transport Protocol' is 'UDP', and 'Registration Expiration' is '3600 second(s)'. For SIP Server 2, the 'Server Address' and 'Server Port' are empty, 'Transport Protocol' is 'UDP', and 'Registration Expiration' is '3600 second(s)'. At the bottom, there are fields for 'Proxy Server Address', 'Proxy Server Port' (5060), 'Proxy User', and 'Proxy Password', as well as 'Backup Proxy Server Address' and 'Backup Proxy Server Port' (5060). Each input field has a help icon (question mark) to its right.

Figure 3-7-1 SIP Configuration Page Screenshot

Chapter 4. Basic Function

4.1 Making Phone Calls

■ Default Line

The equipment provides 6 SIP line services. If all the 6 lines are configured successfully, the user can use any line to make or receive calls. If the user has set a default line, the number or name currently used by default will be displayed in the upper left corner of the screen interface. To enable or disable the default line function, the user can go through [Menu] >> [Features] >> [Basic] >> [General] or complete the settings on the web page ([Web Page] >> [Device Settings] >> [Features] >> [Basic Settings]).

■ Dialing Methods

User can dial a number by:

- Entering the number directly
- Pressing the Redial to make a call
- Selecting a phone number from phonebook contacts
- Selecting a phone number from cloud phonebook contacts
- Selecting a phone number from call logs



Figure 4-1-1 Dial Interface Screenshot

When calling a number, the user can press **[End]** to cancel the call.



Figure 4-1-2 Calling Interface Screenshot

4.2 Answer a call

When the VTS-700WP is idle and there is an incoming call, the user will see the following call reminder screen.

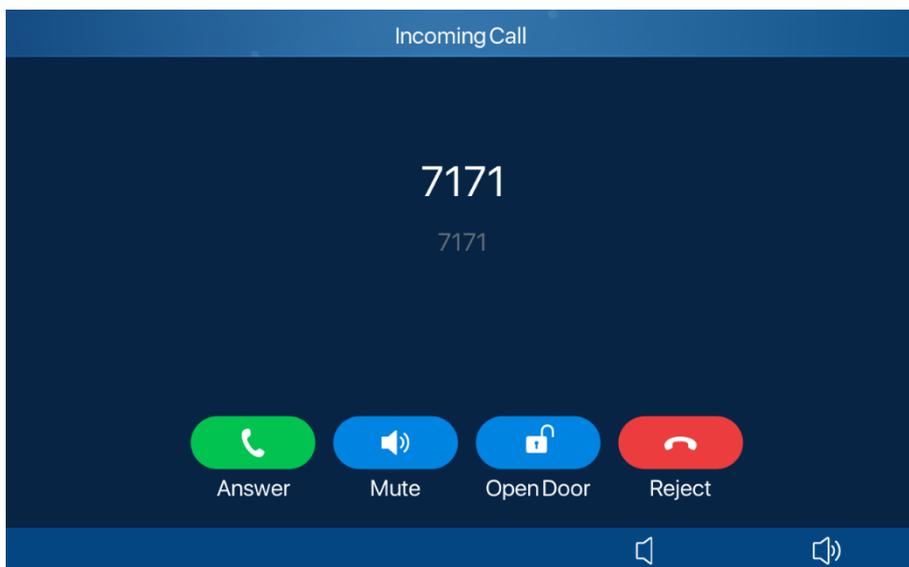


Figure 4-2-1 Audio Incoming Call Interface Screenshot

The user can answer the call by pressing **[Answer]**. To reject an incoming call, the user can press the **[Reject]** button on the interface.

4.3 Talking Interface

When the call is established, the user will see the calling interface as shown below:



Figure 4-3-1 Talking Interface Screenshot

Number	The keypad names	Instruction
1	Contact Name	The name of the other party
2	Call duration	Call duration
3	Mute icon	Icon indication after the call is muted
4	Voice quality, HD, voice encryption	Display the current call voice quality, voice call encryption and other icon indicators
5	End	Hang up
6、7	Volume addition and subtraction	Adjust call volume
8	Dailpad	A dialpad will pop out after it's clicked during a call. Users can enter DTMF to open a door.
9	OpenDoor	Open the door after one click.
10	Contact Number	Call the other party's number

4.4 End of the Call

When the user's call ends, you can press **[End]** on the interface.

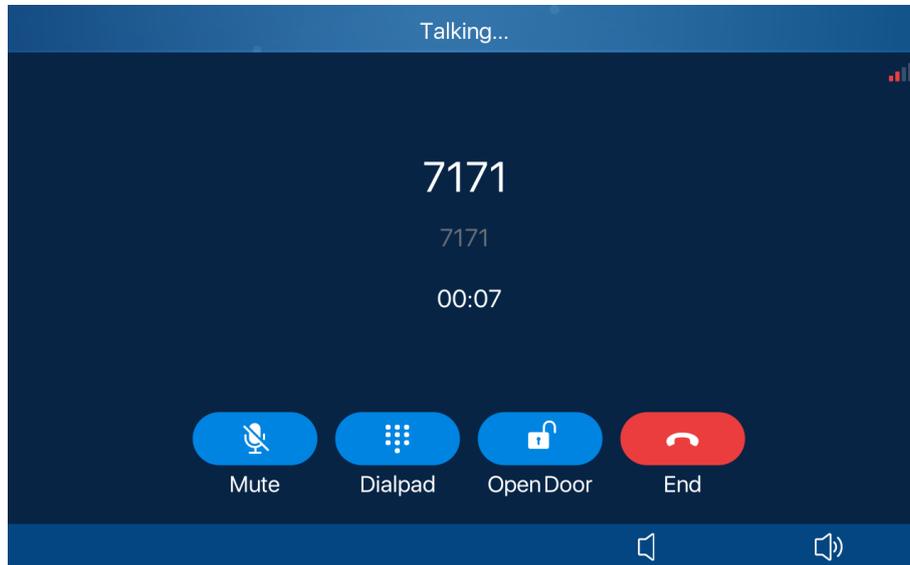


Figure 4-4-1 Talking Interface Screenshot

4.5 Open Door

4.5.1 Open the Door in Standby Mode

Click the set side key to open a door directly.

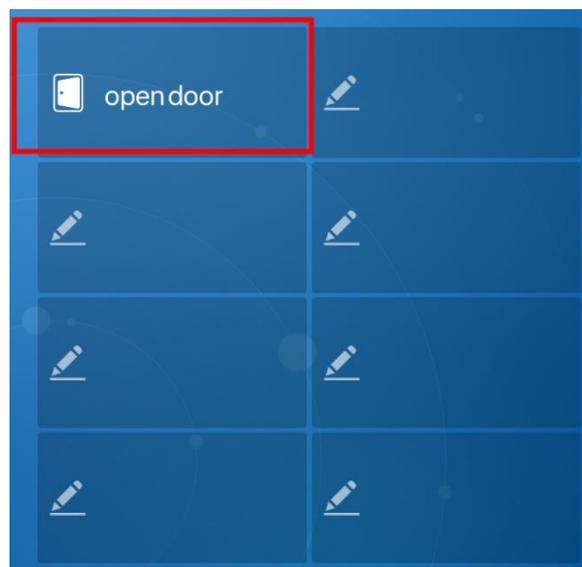
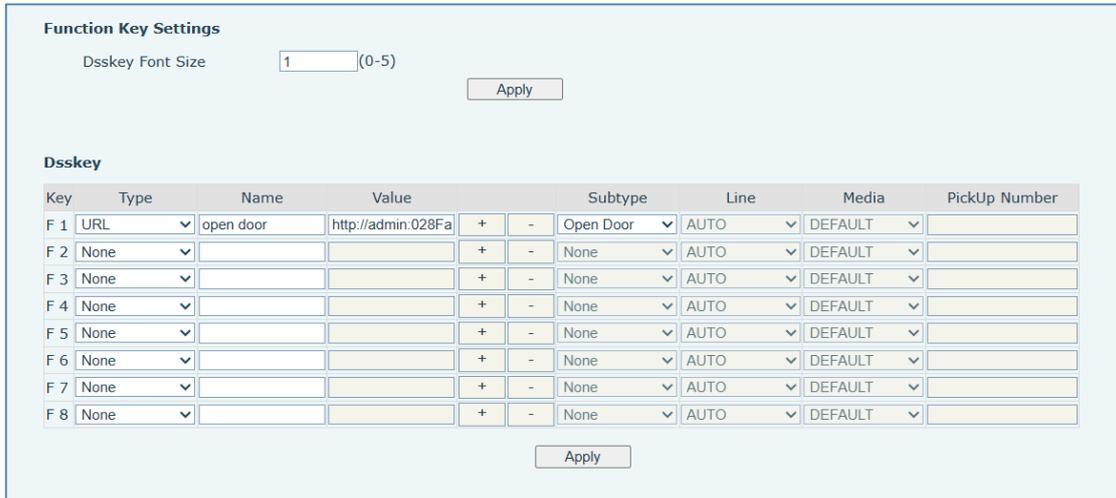


Figure 4-5-1 Open Door Sidekey Screenshot

4.5.2 Settings of Open the Door in Standby Mode

On the Website, enter [Function Key] >> [Side Key], choose Type as [URL] and Subtype as [Open Door].



Function Key Settings

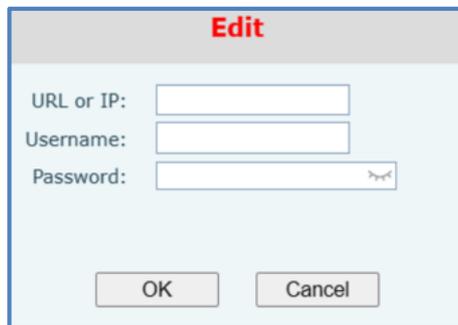
Dsskey Font Size: (0-5)

Dsskey

Key	Type	Name	Value			Subtype	Line	Media	PickUp Number
F 1	URL	open door	http://admin.028Fa	+	-	Open Door	AUTO	DEFAULT	
F 2	None			+	-	None	AUTO	DEFAULT	
F 3	None			+	-	None	AUTO	DEFAULT	
F 4	None			+	-	None	AUTO	DEFAULT	
F 5	None			+	-	None	AUTO	DEFAULT	
F 6	None			+	-	None	AUTO	DEFAULT	
F 7	None			+	-	None	AUTO	DEFAULT	
F 8	None			+	-	None	AUTO	DEFAULT	

Figure 4-5-2 Setting the Door Open Page Screenshot

When you add a value, an edit window pops up. Enter the device IP, user name, and password to automatically synthesize the URL; for third-party devices, you need to enter the full URL as shown in the following figure:



Edit

URL or IP:

Username:

Password:

Figure 4-5-3 Edit the URL/IP Page Screenshot

4.5.3 Open the Door During a Call

■ Enter DTMF

During a call, the user can press  the dialpad. After the dialpad pops up, the user can enter the DTMF (Open Door Code).

■ OpenDoor

During a call, the user can press [OpenDoor]  to open the door by one click.

4.5.4 Settings of Open the Door During a Call

When the doorphone establishes a call with the device, press the [OpenDoor] button, and the corresponding access code or door opening password will be sent to the doorphone to open the door.

■ Settings on LCD

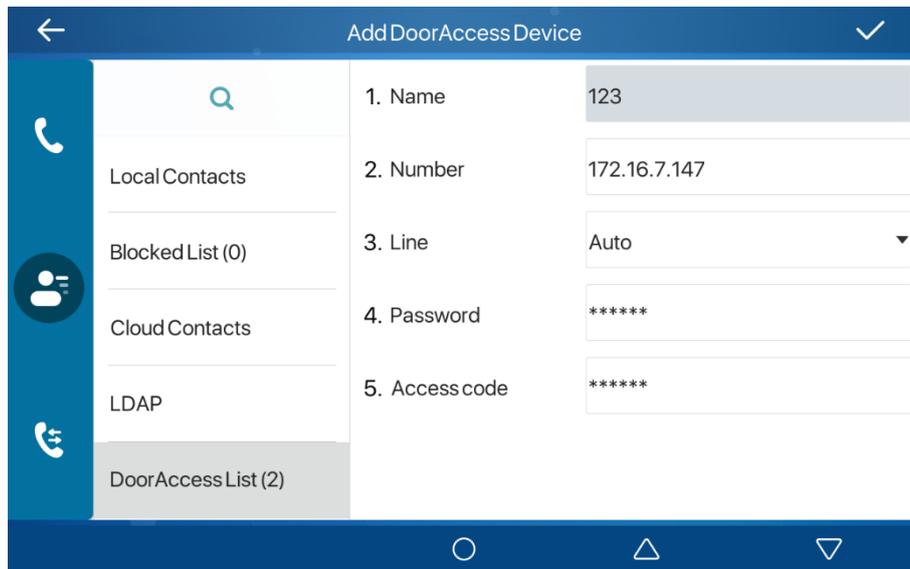


Figure 4-5-4 Add DoorAccess Page Screenshot

Number	Parameters	Descriptions
①	Name	Set the name of the device
②	Number	Set the number of the device
③	Line	Set the line of the device
④	Password	Set the password of the device
⑤	Access code	Set the access code of the device (same as password)

4.6 Video Preview

The user can bind the video stream of the camera of the door phone and view the situation outside the house with one click.

Web: [**Function Key**] >> [**Side Key**] >> [**Dsskey**]. Choose a key, set Type to URL, Subtype to [**IP Camera**], and fill in the Value blank with the RTSP URL of the camera. Press Apply to save and submit the configuration.

Dsskey

Key	Type	Name	Value			Subtype	Line	Media	PickUp Number
F 1	URL		rtsp://admin:admin	+	-	IP Camera	AUTO	DEFAULT	
F 2	None			+	-	None	AUTO	DEFAULT	
F 3	None			+	-	None	AUTO	DEFAULT	
F 4	None			+	-	None	AUTO	DEFAULT	
F 5	None			+	-	None	AUTO	DEFAULT	
F 6	None			+	-	None	AUTO	DEFAULT	
F 7	None			+	-	None	AUTO	DEFAULT	
F 8	None			+	-	None	AUTO	DEFAULT	

Apply

Figure 4-6-1 Add RTSP URL Page Screenshot

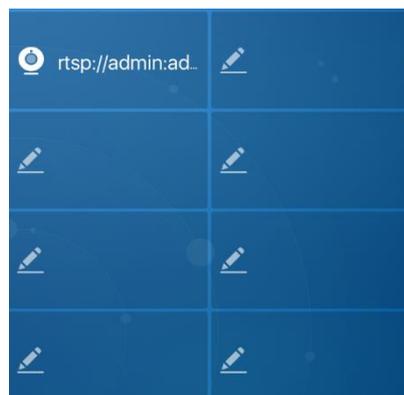


Figure 4-6-2 Standby Interface Display after Configuration

4.7 Security (Input Settings)

Users can click [Menu] on the standby interface to enter the [Security] page, as shown in the figure.

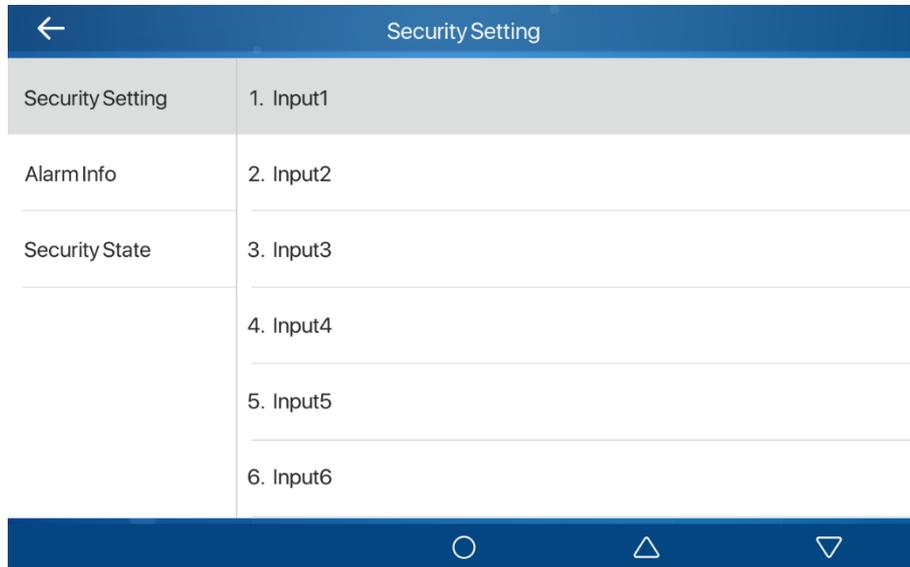


Figure 4-7-1 Security Page Screenshot

4.7.1 Security Setting

- **Set at the device**

The user clicks the menu on the standby interface and selects **[Security]>> [Security Setting] >> [Input1]** to enter the configuration of alarm settings. The device supports 8 alarm settings, the user can set their name, trigger mode, whether to enable, alarm delay time, after the setting is completed and saved, the security settings will take effect.

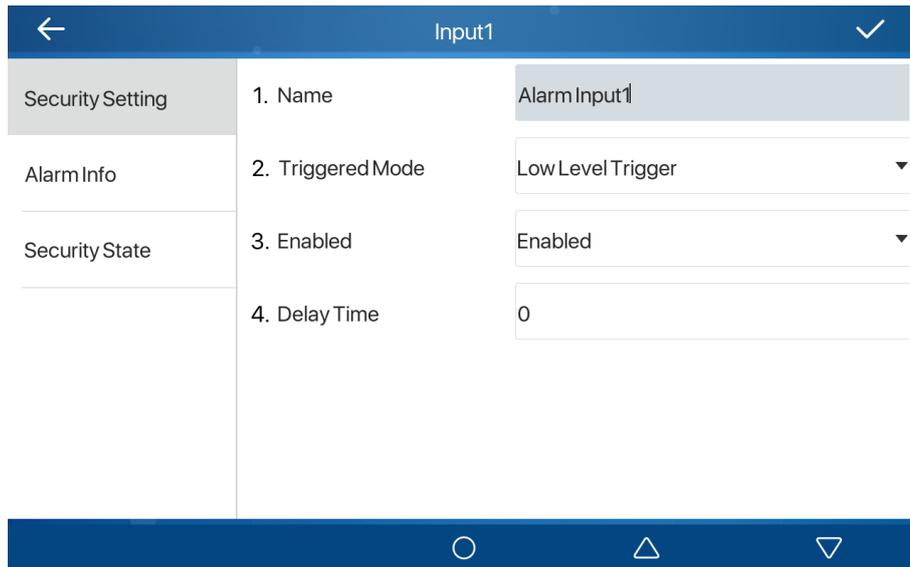


Figure 4-7-1 Security Setting Page Screenshot

- **Set on the Web**

Users can select the input port and trigger mode on the website **[Security Settings] >> [Input Alarm Settings]**.

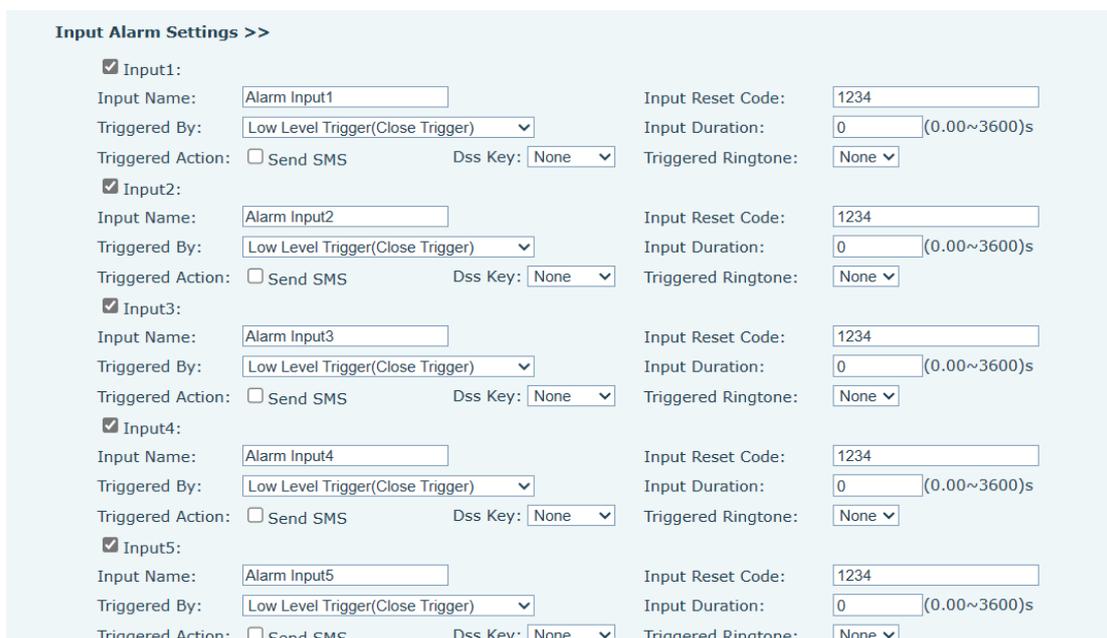


Figure 4-7-2 Security Setting Page on Web Screenshot

4.7.2 Alarm Info

After setting the security settings, the user can use the device to monitor and manage the Area. When the type of setting is triggered, the device can alarm according to the set trigger mode and alarm delay time.

Under the standby interface, the user selects **[Menu]>> [Security] >> [Alarm Information]** to view the alarm information.

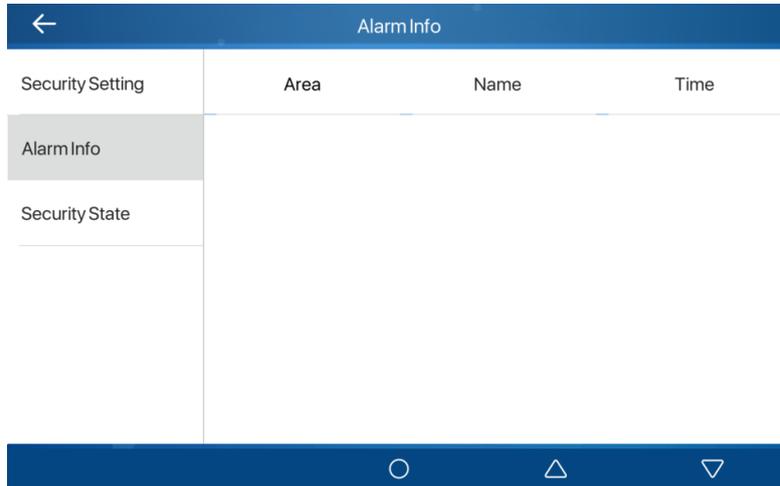


Figure 4-7-3 Alarm Info Page Screenshot

4.7.3 Security State

Users select **[Menu]>> [Security] >> [Security State]** to view the name, status, and alarm delay information of each Area.

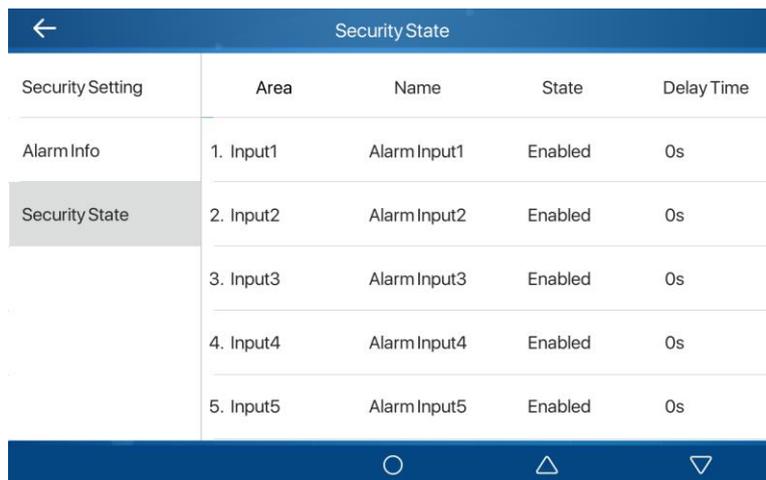


Figure 4-7-4 Security State Page Screenshot

4.8 Dial Query

The device defaults to enable the dial query function, and open the dial pad to dial by entering one or more numbers. The dial interface will automatically match the call record, the number list in the contact, and click to select the number and call out.

4.9 Auto Answer

The user can enable the automatic answering function on the device, and the device can automatically answer after a call comes in. Auto answer can be activated by distinguishing lines.

The user can start the automatic answer function on the device interface or the web interface.

- **Device interface:**

Press the **[Menu]** >> **[Features]** >> **[Auto Answer]** buttons.

Press the button to select the line, then use the left/right navigation keys to toggle the auto-answer option on/off.

Set the auto-answer time, with the default being 5 seconds.

Press  to save when finished

The icon  in the upper right corner of the screen indicates that auto answer is enabled.

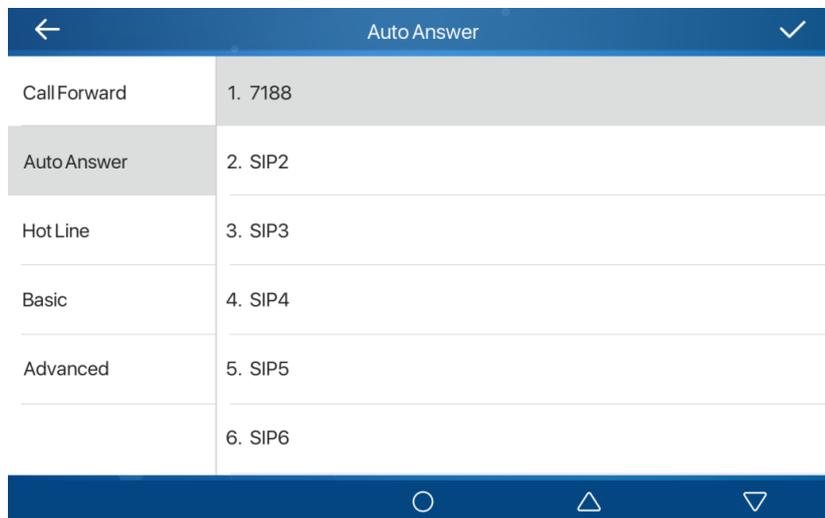


Figure 4-9-1 Auto Answer Page Screenshot

- **Web interface :**

Log in to the device webpage, enter **[Line]**>> **[SIP]**, Select **[Basic Settings]**, enable automatic answering, set the automatic answering time and click submit.

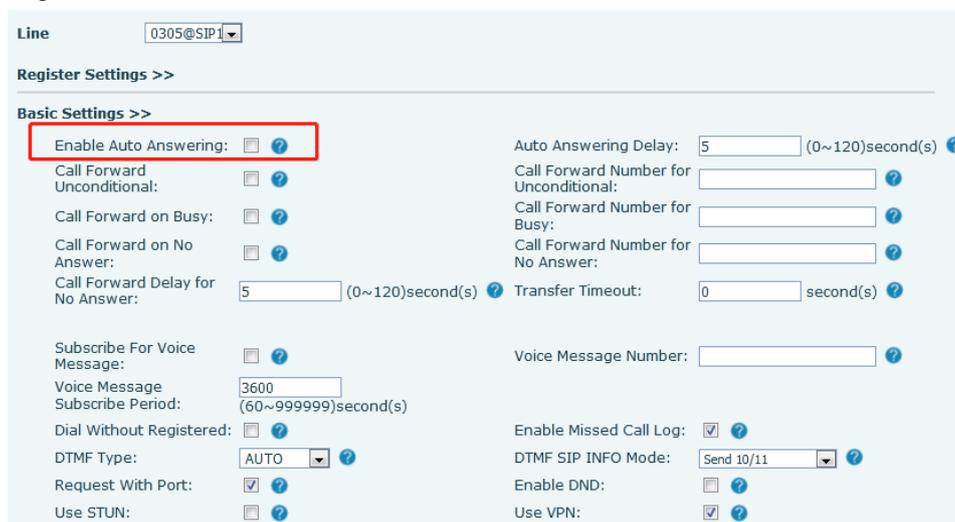


Figure 4-9-2 Auto Answer Page on Web Screenshot

4.10 Mute

You can turn on the silent mode and turn off the microphone of the device during a call, so that the other party cannot hear the local voice. Under normal circumstances, the silent mode is automatically turned off as the call ends.

4.10.1 Mute during a call

Press the mute button  on the call interface during a call: The mute button on the device turns red.

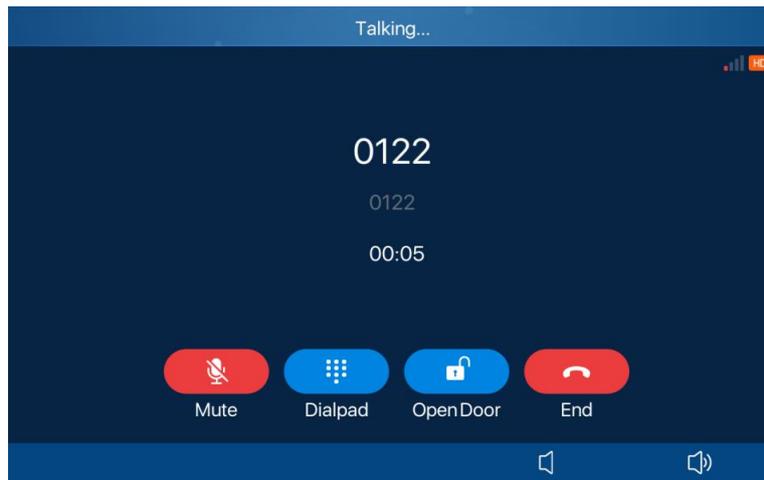


Figure 4-10-1 Mute the Call Page Screenshot

- Unmute the call: Press the mute  on the device again. The red light of the device mute button turns off.

4.10.2 Mute when ringing

To activate mute ringing, press the mute button on the incoming call interface when the device is ringing. The mute icon on the incoming call interface of the device will turn red, and there will be no ringtone. After hanging up, the device will resume ringing for the next incoming call.

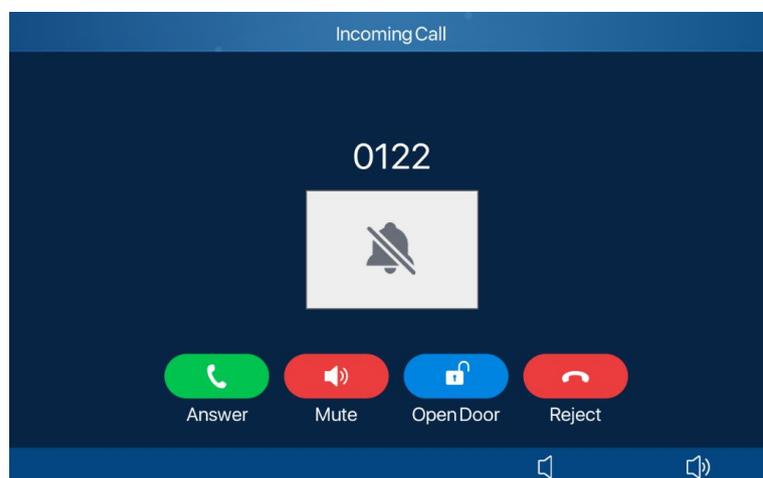


Figure 4-10-2 Mute the Ringing Page Screenshot

4.11 DND

To enable or disable Do-Not-Disturb (DND) on all lines of the phone, follow these steps:

- **Device interface:** In the default standby mode, press the **[DND]** button to enable DND. The icon will become red. The device status prompt bar will have a DND icon.

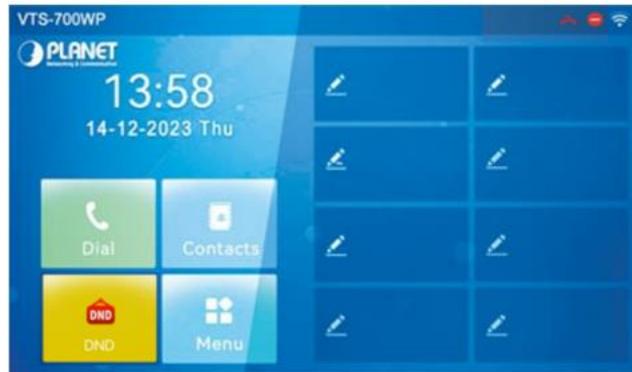


Figure 4-11-1 DND Display Page Screenshot

If the user wants to turn on/off the Do Not Disturb feature on a specific line, the user can configure the Do Not Disturb feature on the Configure Line page.

- 1) Press the **[Menu]** >> **[Features]**>> **[Basic]** >> **[DND]** buttons to enter the editing page.
- 2) Select **[Line]** to adjust the DND mode and status, and press the to save it after completion;
- 3) The user will see the DND icon turn red and the SIP line has DND mode enabled.

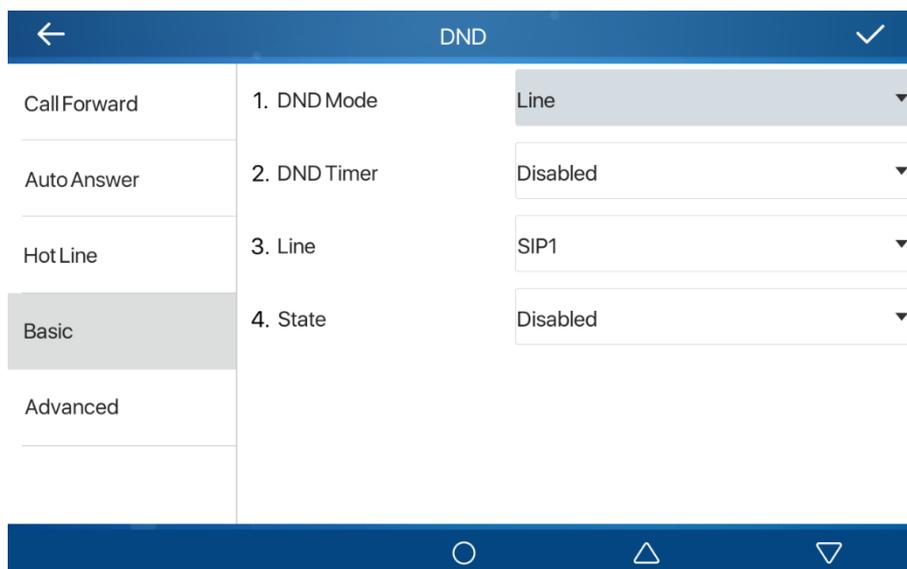


Figure 4-11-2 DND Setting Interface Page Screenshot

Users can also use the DND timer. After setting, within the time range, the Do Not Disturb function will be automatically turned on and the DND icon will turn red.

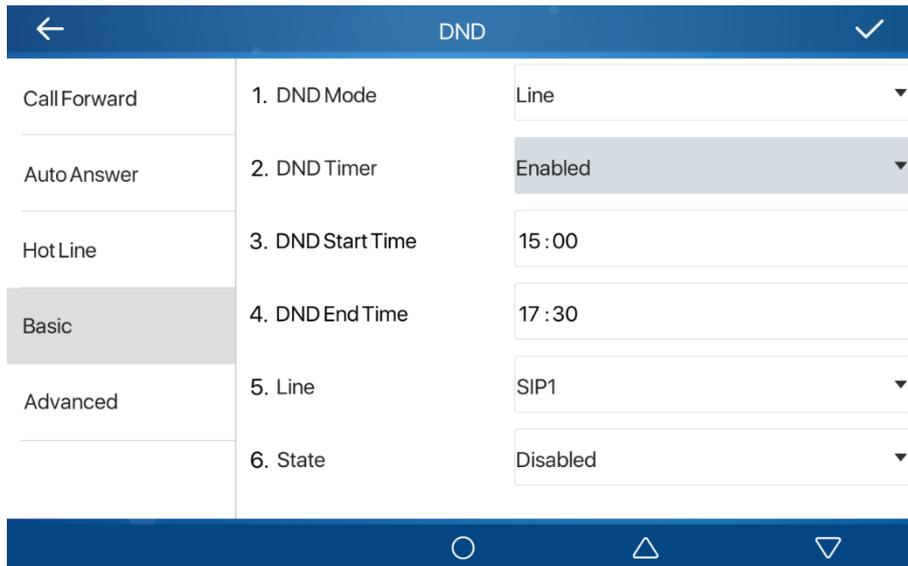


Figure 4-11-3 DND Timer Setting Page Screenshot

- **Web interface:** Go to [Device Settings] >> [Features] >> [DND Settings], set the type of DND (off, phone, line), and DND timing function.



Figure 4-11-4 DND Settings Page on WEB Screenshot

The user opens the DND of a specific line on the webpage: enter [Line] >> [SIP] >> [Basic Settings], and enable DND.

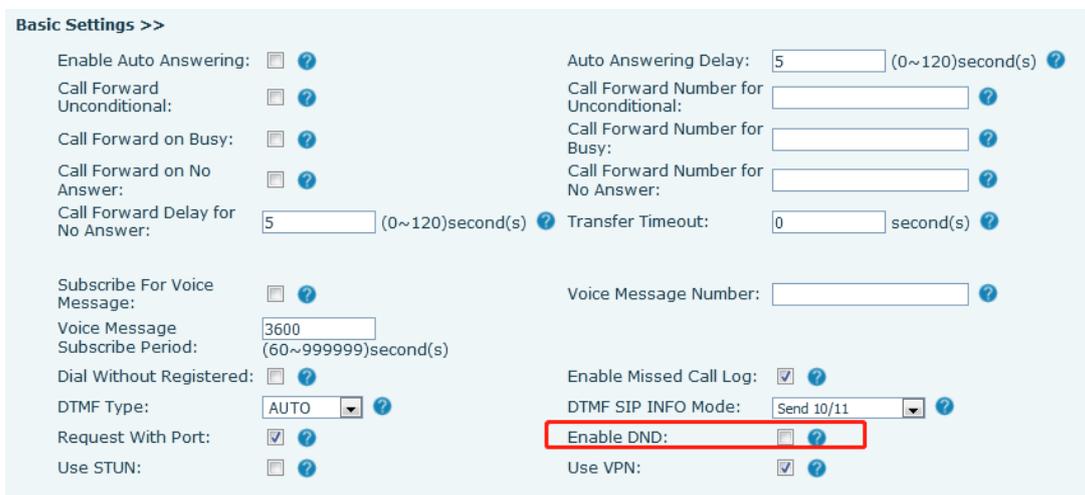


Figure 4-11-5 Enable DND Page on Web Screenshot

4.12 Call Forward

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

There are two types:

- **Unconditional Call Forward** – Forward any incoming call to the configured number.
- **Call Forward on No Answer** – When user does not answer the incoming call after the configured delay time, the incoming call will be forwarded to the configured number.

● **Device interface:** Default standby mode

- 1) Press **[Menu]** >> **[Features]** >> **[Call Forward]** to select the line
- 2) Select the type of call forwarding. Turn on and set the number to be transferred, etc.
- 3) Click the to save the changes.

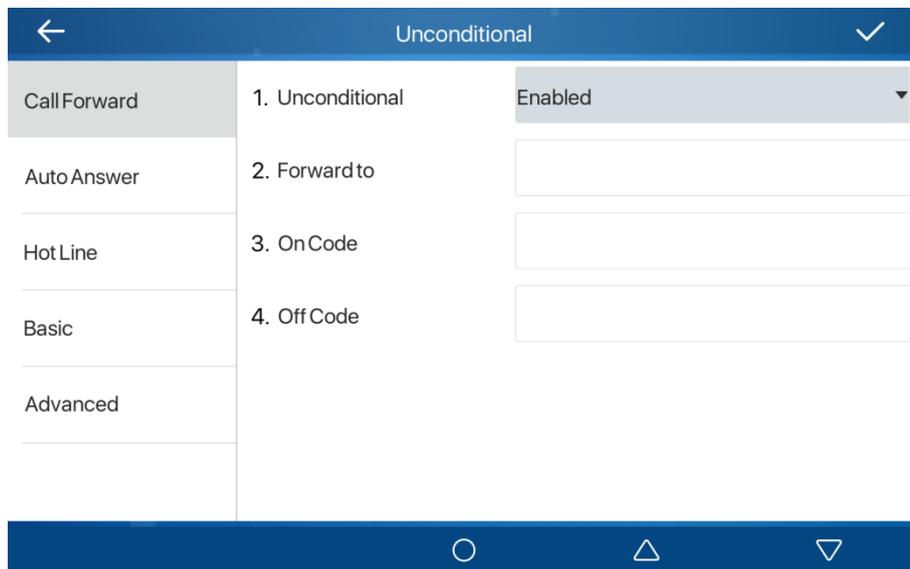


Figure 4-12-1 Call Forward Setting Page Screenshot

- **Web interface:** Enter **[Line]** >> **[SIP]**>> **[Basic Settings]**, and set the forward type, number, and time.

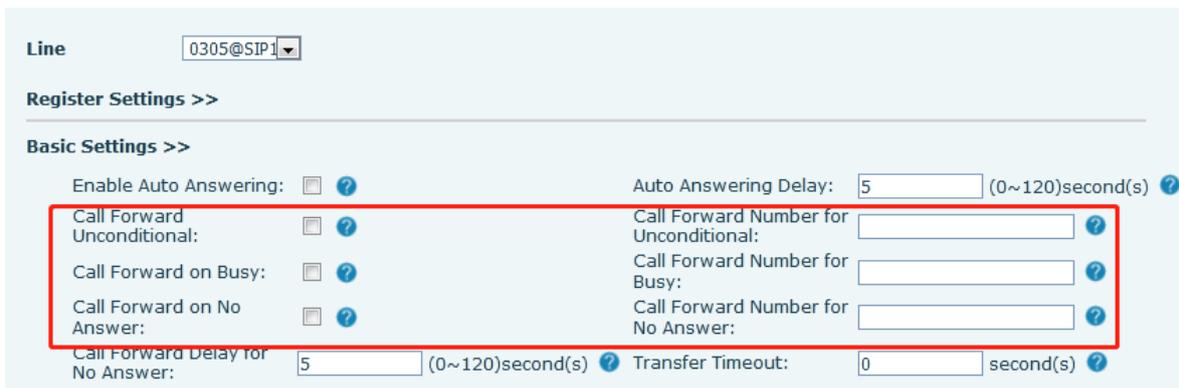


Figure 4-12-2 Call Forward Setting Page on Web Screenshot

Chapter 5. Advanced Functions

5.1 Intercom

After enabling intercom, intercom calls can be automatically answered.

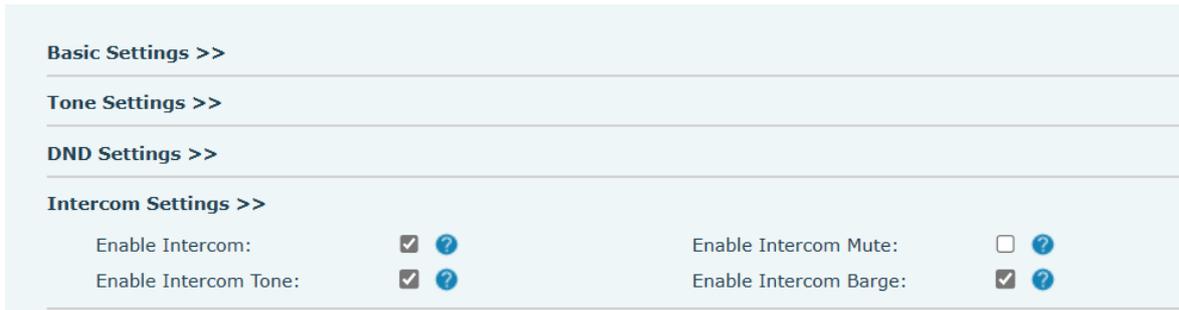


Figure 5-1-1 Intercom Settings Page on Web Screenshot

Parameter	Description
Enable Intercom	When intercom is enabled, the device will accept the incoming call request with a SIP header of Alert-Info instruction to automatically answer the call after specific delay.
Enable Intercom Mute	Enable mute mode during the intercom call.
Enable Intercom Tone	If the incoming call is intercom call, the phone will play the intercom tone
Enable Intercom Barge	Enable Intercom Barge by selecting it. The phone auto answers the intercom call during a call. If the current call is intercom call, the device will reject the second intercom call.

5.2 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 device, 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 device to receive an RTP stream from pre-configured multicast listening address without involving SIP signaling. You can specify up to 10 multicast listening addresses.

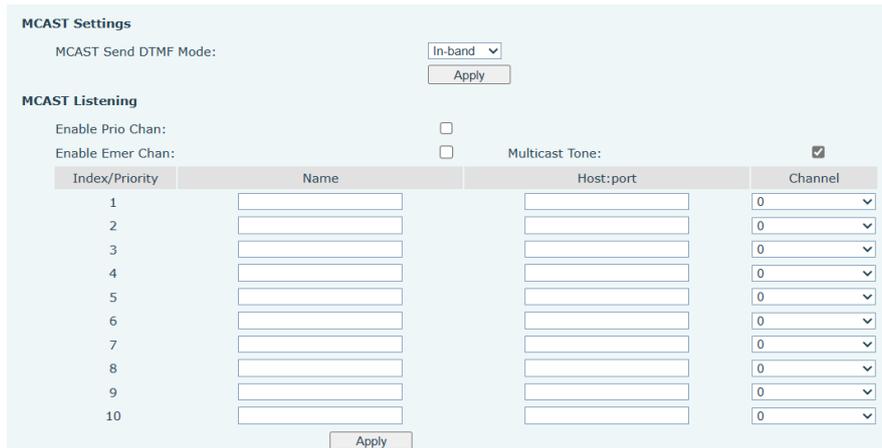


Figure 5-2-1 Multicast Settings Page on Web Screenshot

Parameters	Description
Enable Prio Chan	Once enabled, the same port and channel can only be connected. Channel 24 is the priority channel, higher than 1-23; A channel of 0 indicates that no channel priority is used.
Enable Emer Chan	When enabled, channel 25 has the highest priority
Multicast Tone	Listened multicast server name

Multicast :

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

Dynamic multicast:

- Function description: Send multicast configuration information through Sip Notify signaling. After receiving the information, the device configures it in the system for multicast monitoring or cancels multicast monitoring in the system.

5.3 SMS

5.3.1 SMS Introduction

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

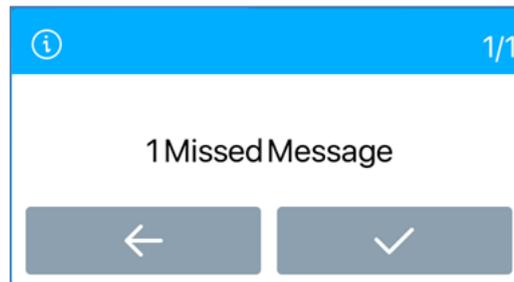


Figure 5-3-1 SMS Icon Screenshot

Send messages:

- Go to **[Menu]** >> **[Message]**>>**[SMS]**.
- Users can create new messages, select lines and send numbers.
- After editing is completed, click Send.

View SMS:

- Go to **[Menu]** >> **[Message]**.

Check **[Inbox]** to read the unread message.

5.3.2 MWI (Message Waiting Indicator)

If the service of the lines supports voice message feature and when the user is not available to answer the call, the caller can leave a voice message on the server to the user. User will receive voice message notification from the server and device will prompt a voice message waiting icon on the standby screen.

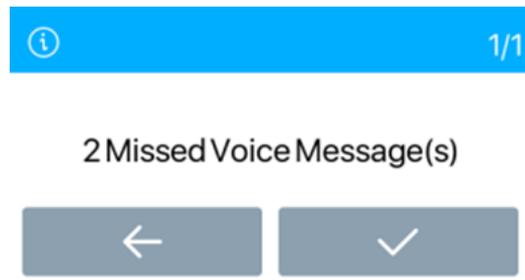


Figure 5-3-2 Voice Message Icon Screenshot

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

When the device is in the default standby state,

- Select **[Message]** under **[Menu]**
- Enter **[Voice Message]** under **[Message]**
- The "2" in brackets on the SIP1 line represents unread voice messages, and "5" represents the total number of voice messages.
- Select the line to enter, enable the message and set the message number, and press the upper right corner  to save
- After setting the message number, press  to listen to the message.

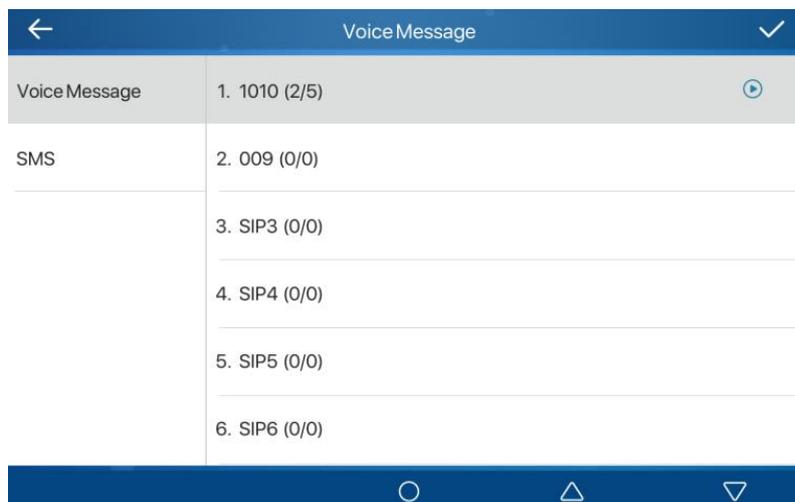


Figure 5-3-3 Voice Message Interface Screenshot

5.4 SIP Hotspot

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

Set a device as a SIP hotspot and other devices (B and C) as SIP hotspot clients. When somebody calls device A, devices A, B, and C will ring. When any device answers the call, other devices will stop ringing. The call can be answered by only one device. When B or C initiates a call, the SIP number registered by device A is the calling number.

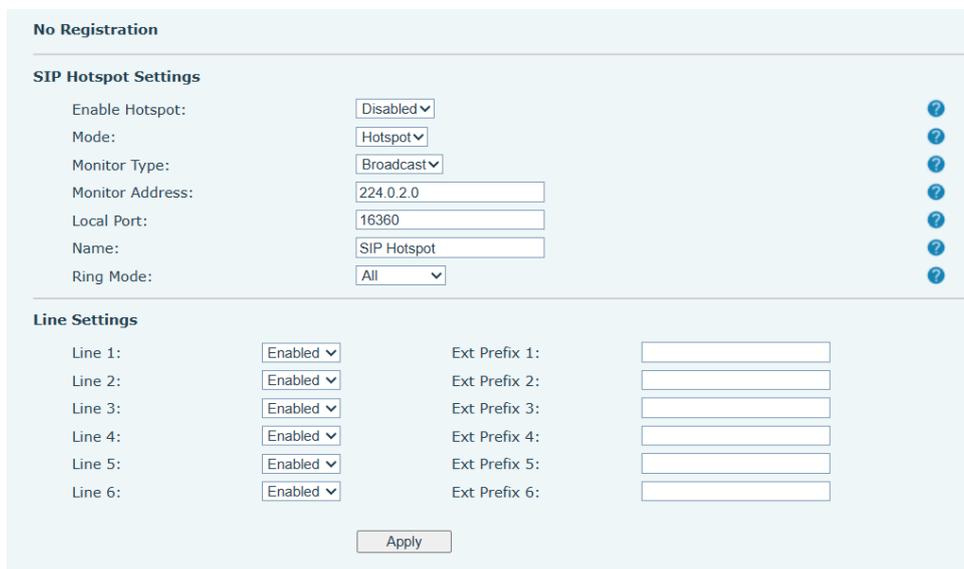


Figure 5-4-1 SIP Hotspot Settings Page on Web Screenshot

Parameters	Description
Enable Hotspot	Set it to be Enabled to enable the feature.
Mode	Selecting "Hotspot" mode transforms the device into a "SIP hotspot server," while opting for "Client" mode configures the device as a "SIP hotspot client."
Monitor Type	Either the Multicast or Broadcast is ok. If you want to limit the broadcast packets, you'd better use broadcast. But, if client chooses Broadcast, the SIP hotspot phone must be broadcast.
Monitor Address	The address of broadcast, hotspot server and hotspot client must be the same.
Local Port	Fill in the 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 distinguish different hotspots under the network to avoid connection conflicts.
Ring Mode	Set the ring mode for incoming calls, deciding when there's an incoming call, whether to ring on All/Extension/Hotspot devices.
Line Settings	Set whether to associate the SIP hotspot function on the corresponding SIP line.

Configure SIP hotspot server:

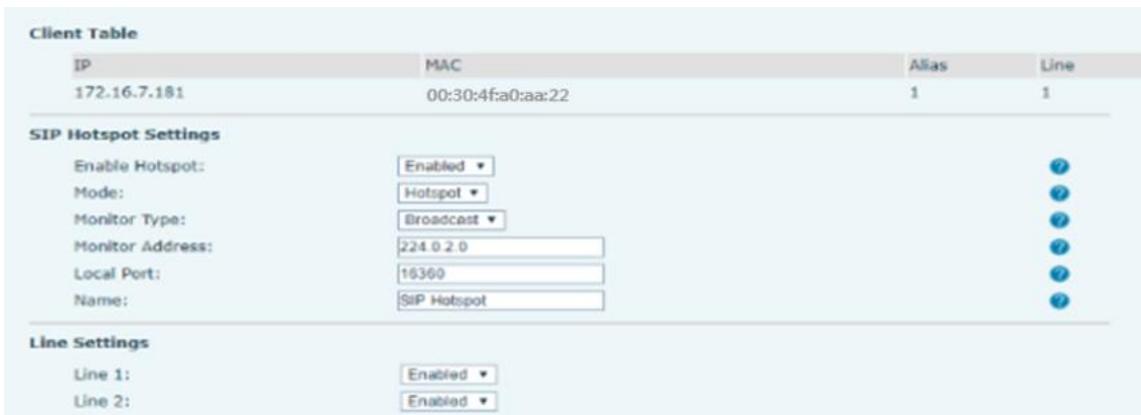


Figure 5-4-2 SIP Hotspot Server Settings Page on Web Screenshot

Configure SIP hotspot client:

As a SIP hotspot client, no SIP account needs to be set. The device set will automatically obtain and be configured a SIP account. On the SIP Hotspot tab page, set Mode to Client. The values of other options are the same as those of the hotspot.

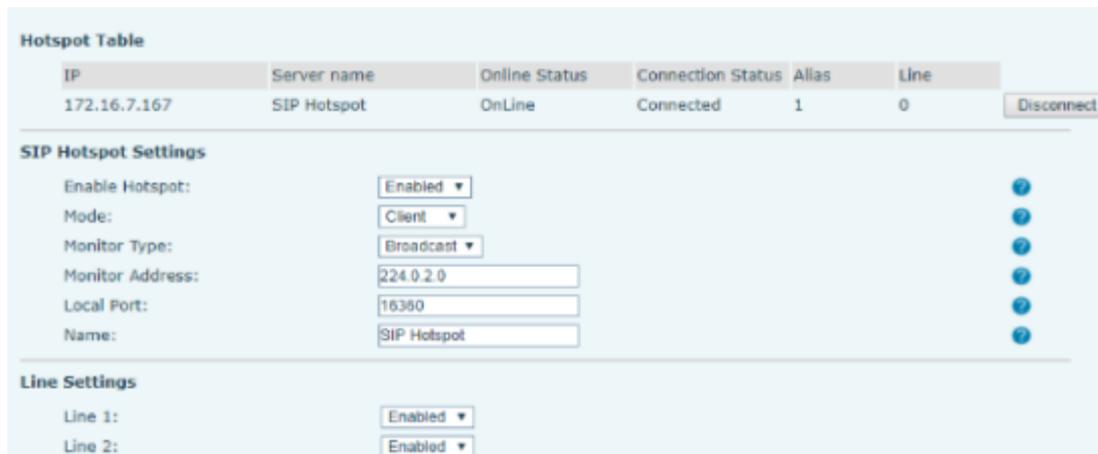


Figure 5-4-3 SIP Hotspot Client Settings Page on Web Screenshot

As the hotspot server, the default extension number is 0. When the device is used as the client, the extension number is increased from 1, you can view the extension number through the [SIP Hotspot] page.

Call extension number:

- The hotspot server and the client can dial each other through the extension number.
- For example, extension 1 dials extension 0.

Chapter 6. Phone Settings

6.1 Basic Settings

6.1.1 Language

The user can set the device language through the device interface or web interface.

- **Device interface:** After resetting the factory settings, the user needs to set the language; when setting the language during standby, go to [Menu] >> [Basic Setting] >> [UI Preference]>> [Language] settings, as shown in the figure.



Figure 6-1-1 Language Setting Page Screenshot

- **Web interface:** Log in to the device webpage and set the language in the drop-down box at the top right corner of the page, as shown in the figure:

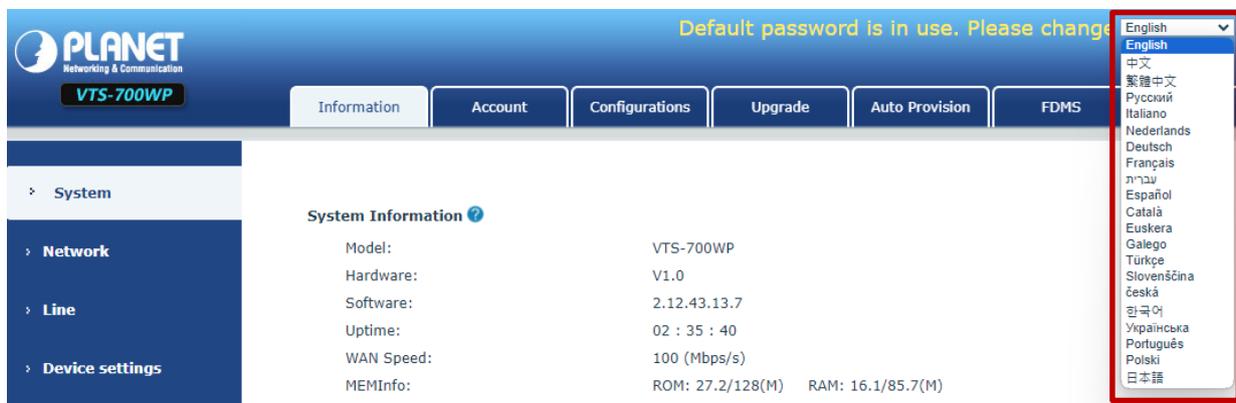


Figure 6-1-2 Language Setting Page on Web Screenshot

The function box on the right side of the web interface language setting box is “Synchronize language to device”; if selected, the device language will be synchronized with the webpage language. If it is not selected, it will not be synchronized.

6.1.2 Time & Date

Users can set the device time through the device interface and web interface.

- **Device interface:** When the device is in the default standby state, press the [Menu] >> [Basic settings] >> [UI Preference] >> [Time & Date], and use the up/down navigation button to edit parameters. Press  to save after completion, as shown in the figure:

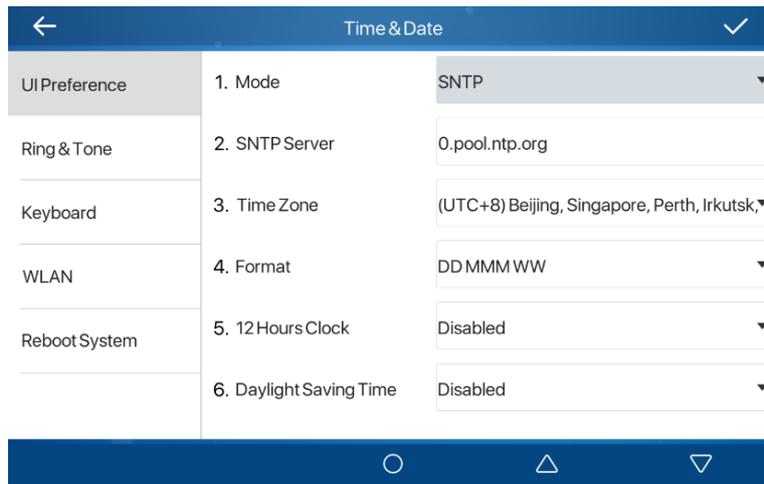


Figure 6-1-3 Time/Date Setting Page Screenshot

- **Web interface:** Log in to the device webpage and enter [Device Settings] >> [Time/Date], as shown in the figure:

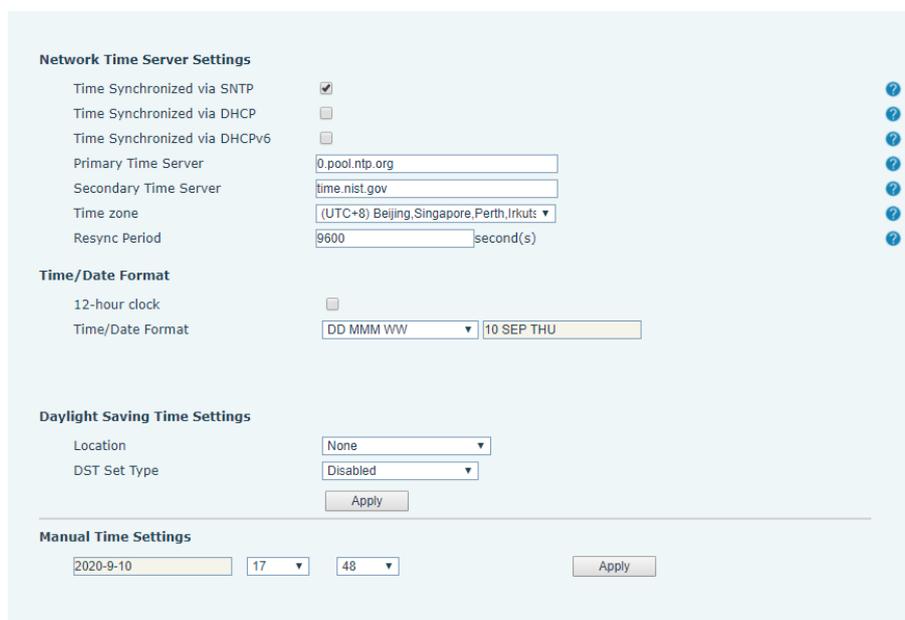


Figure 6-1-4 Time/Date Setting Page on Web Screenshot

Parameters	Description
Mode	Auto/Manual Auto: Enable network time synchronization via SNTP protocol, default enabled. Manual: User can modify data manually.
SNTP Server	SNTP server address
Time zone	Select the time zone
Time format	Select time format from one of the following formats: <ul style="list-style-type: none"> ■ 1 JAN, MON ■ 1 January, Monday ■ JAN 1, MON ■ January 1, Monday ■ MON, 1 JAN ■ Monday, 1 January ■ MON, JAN 1 ■ Monday, January 1 ■ DD-MM-YY ■ DD-MM-YYYY ■ MM-DD-YY ■ MM-DD-YYYY ■ YY-MM-DD ■ YYYY-MM-DD
Separator	Choose the separator between year and month and day
12-hour Clock	Display the clock in 12-hour format
Daylight Saving Time	Enable or Disable the Daylight Saving Time

6.1.3 Screen

The user can adjust the brightness of device screen in LCD in two ways.

- Slide down the outgoing status bar page in standby mode. Slide down again to adjust device brightness conveniently.
- Enter the [Menu] >> [Basic Settings] >> [UI Preference]>> [Screen] and then adjust the brightness. Click  to save.

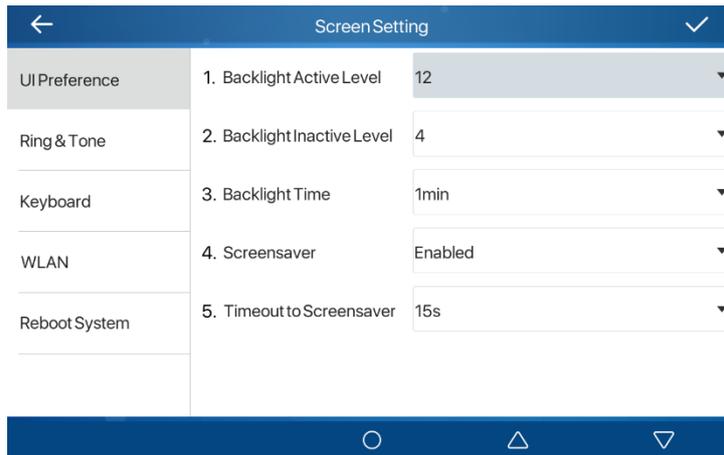


Figure 6-1-5 Screen Parameters Setting Page Screenshot

- **Web interface:** Enter [Settings] >> [Advanced], edit screen parameters, and click Submit to save.

6.1.3.1 Brightness and backlight

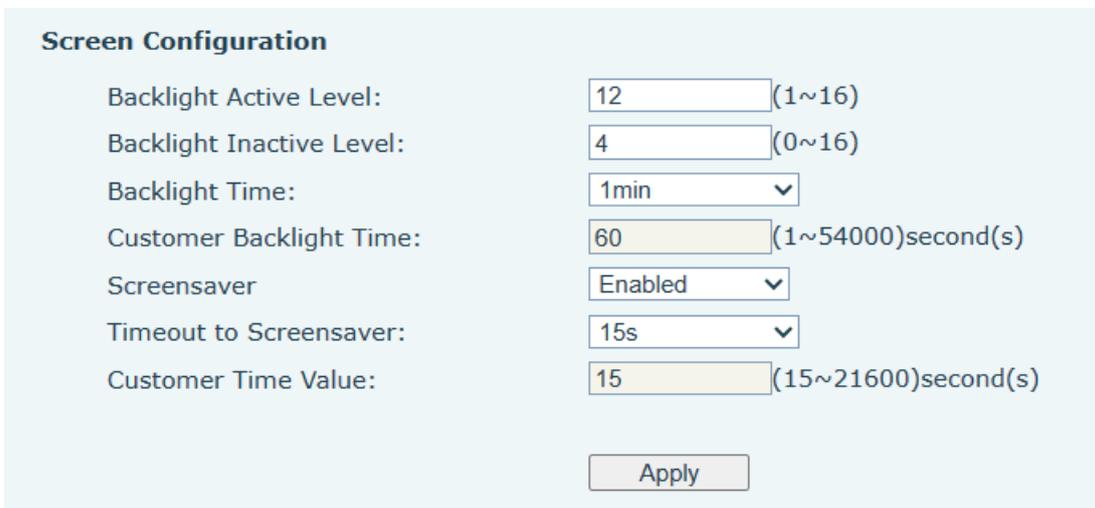
Set the brightness level in the use state from 1 to 16.

Set the brightness level in energy saving mode from 0 to 16 (optional).

Set the backlight time; the default is 1 minute. You can turn it off or choose 15 seconds/30 seconds/1min/2min/...../15h.

The screen saver can be turned on or off, and it is turned on by default.

- **Web interface:** Enter [**Device Settings**] >> [**Advanced**], edit the screen parameters, and click Submit to save.



Screen Configuration

Backlight Active Level:	<input type="text" value="12"/>	(1~16)
Backlight Inactive Level:	<input type="text" value="4"/>	(0~16)
Backlight Time:	<input type="text" value="1min"/>	▼
Customer Backlight Time:	<input type="text" value="60"/>	(1~54000)second(s)
Screensaver	<input type="text" value="Enabled"/>	▼
Timeout to Screensaver:	<input type="text" value="15s"/>	▼
Customer Time Value:	<input type="text" value="15"/>	(15~21600)second(s)

Figure 6-1-5 Screen Parameters Setting Page on Web Screenshot

6.1.3.2 Screen Saver

- Press [**Screen Settings**] to find the [Screen Saver] button, turn on/off the screen saver, set the timeout time, the default is 120S, and press to save after it is finished.
- Return to standby after saving; screen saver will display after 120s.

6.1.4 Ring

When the device is in the default standby mode,

- Enter **[Menu]** >> **[Basic settings]**.
- Enter **[Ring & Tone]** >> **[Ring]**.
- Set ring type and save it by pressing .

6.1.5 Voice Volume

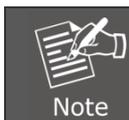
When the device is in the default standby mode

- Enter **[Menu]** >> **[Basic settings]**.
- Enter **[Ring & Tone]** >> **[Voice Volume]**
- Set volume and save it by pressing .

6.1.6 Greeting words

The device is in the default standby state.

- Press **[Menu]** to find the **[Basic Settings]** button.
- Press the **[UI Preference]** button to find the **[Welcome]** button.
- Enter the setting interface, press  to save after completion



The welcome message will only be displayed in the upper left corner of the standby screen after disabling the default line selection function.

6.1.7 Reboot

When the device is in the default standby mode,

- Enter **[Menu]** >> **[Basic setting]** >> **[Reboot]** item.
- Click **[Reboot]** to indicate whether to restart the device.

Press  to restart the device or press  to exit the prompt box to return to the configuration interface.

6.2 Phonebook

6.2.1 Local Contacts

Users can save contact information in the phone book and dial the contact's phone number directly in the phone book. The user can open the phonebook by pressing the "PhoneBook" in the Menu or press the button "Contact" on the device in the default main interface.

By default, the phonebook is empty, and users can add manually or add contacts to the phonebook from the call log (or cloud phonebook).

 Note

The device can save up to a total of 1000 contact records.

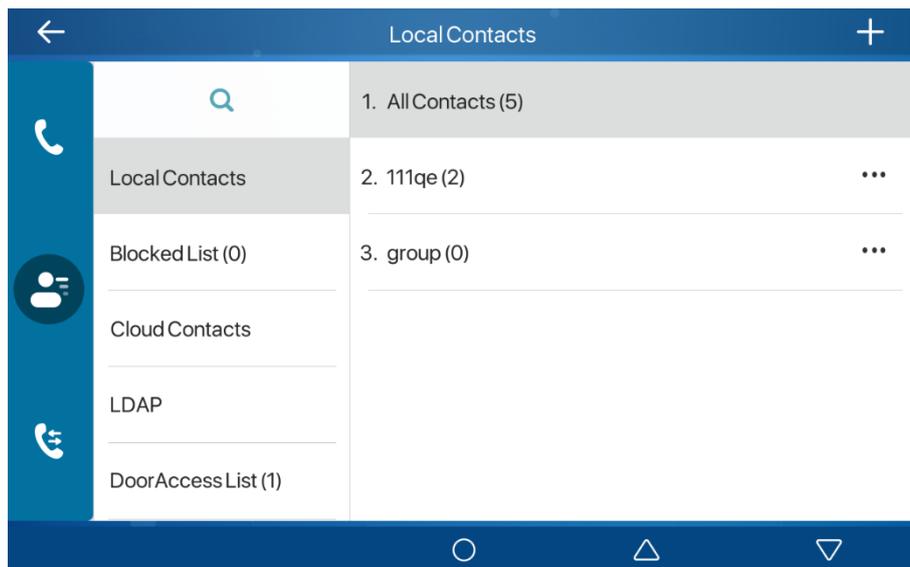


Figure 6-2-1 Local Contacts Page Screenshot

When there are contact records in the phonebook, the contact records will be arranged in the alphabetic order. User may browse the contacts with up/down navigator keys. The record indicator tells user which contact is currently focused.

6.2.1.1 Add / Edit / Delete Contact

To add a contact, click to enter the contact interface. Select the first icon (contact icon, selected by default) and add the following contact information.

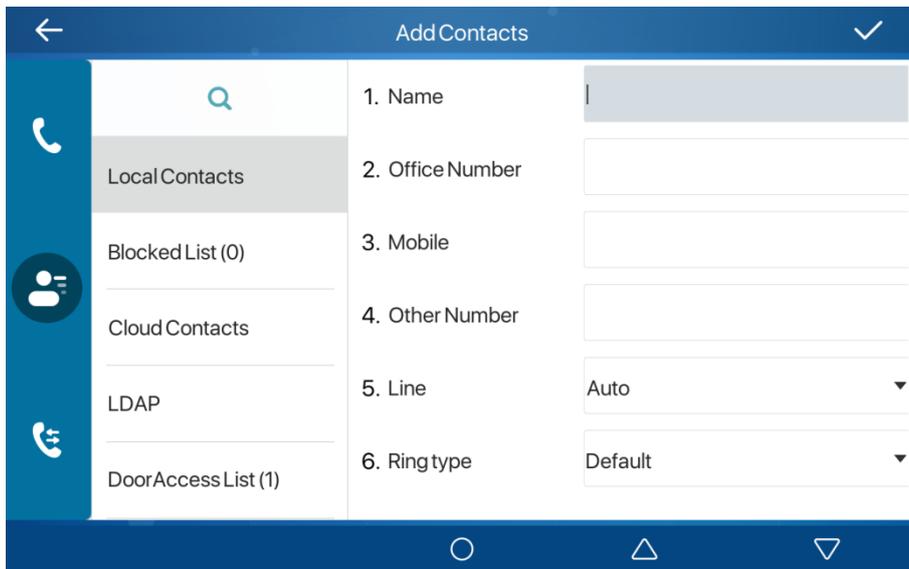


Figure 6-2-2 Contact Setting Page Screenshot

User can edit a contact by pressing the button .

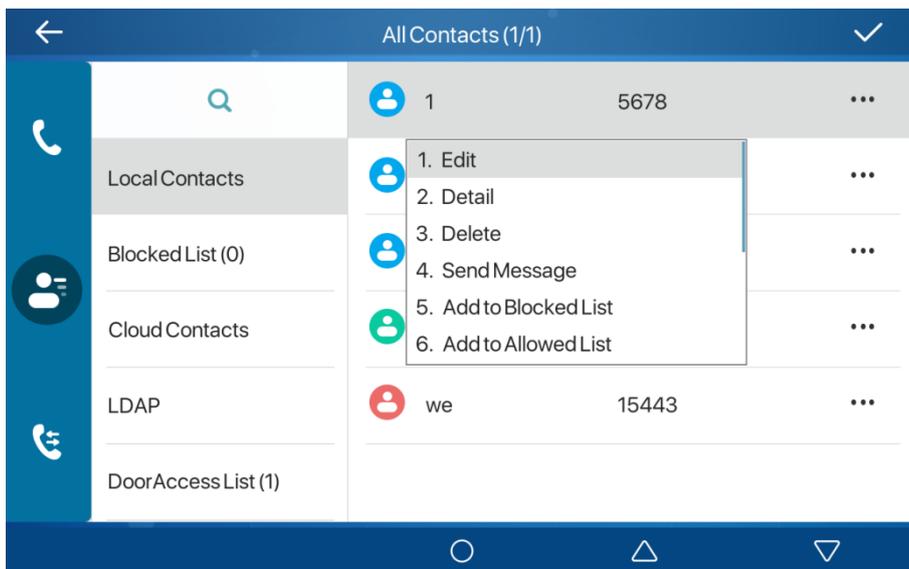


Figure 6-2-3 Edit Contact Page Screenshot

Press  to delete a contact but you are prompt to decide the deletion by pressing .

6.2.1.2 Add / Edit / Delete Group

By default, the group list is empty. Users can create their own group, edit group names, add or remove contacts from the group, and delete groups.

- Add group -- Enter contact list interface and press **+** to create groups.
 - Delete groups -- Press **⋮** to delete.
 - Edit group -- Press **⋮** to edit.
- The numbers in brackets indicate the total number of records in the group.

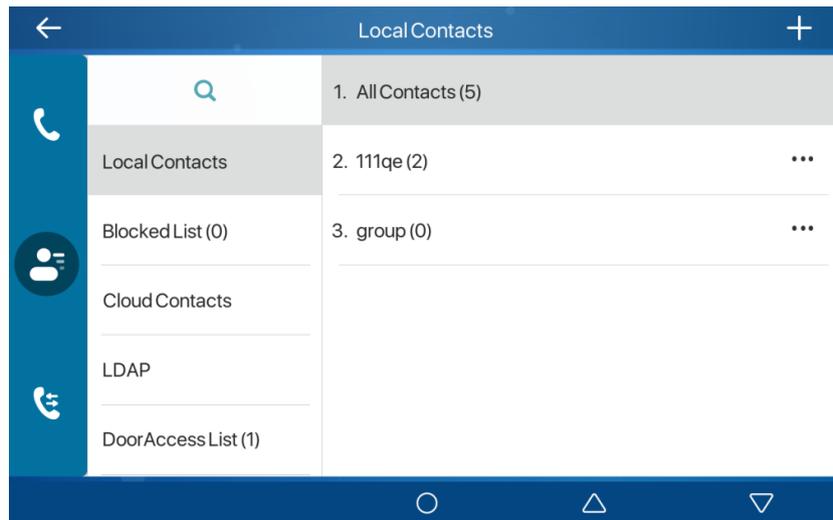


Figure 6-2-4 Group Setting Page Screenshot

6.2.1.3 Add / Edit / Delete contact in Group

User can browse the contact in group.

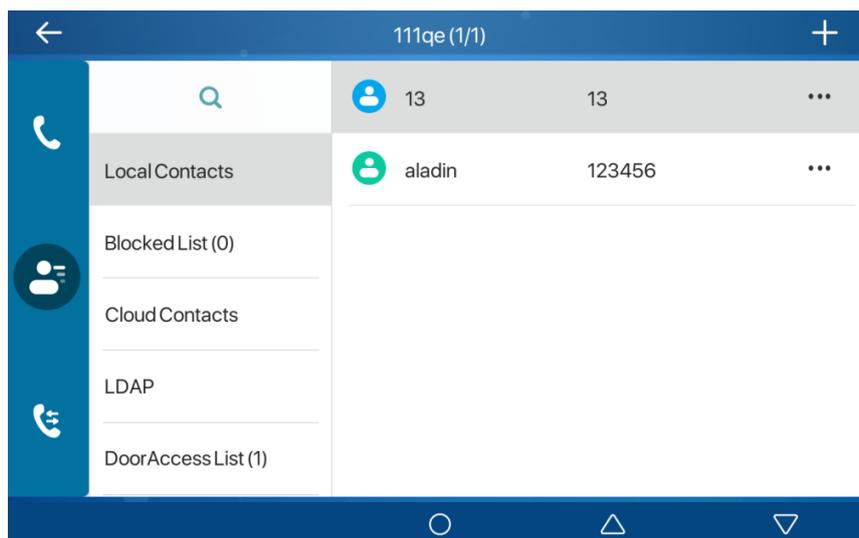


Figure 6-2-5 Browse the Contact in Group Page Screenshot

When the user browses the contacts in the group, he can press **+** to enter the add contact interface, and then press **✓** to save the contact. The contact will also be synchronized to the local phonebook. You can also delete contacts in the group by pressing **⋮**.

6.2.2 Blocklist

The device supports a blocklist feature, where numbers added to the blacklist are automatically rejected, preventing calls from reaching the device. As a result, the device will display no incoming calls from blacklisted numbers. It's worth noting that blacklisted numbers can still make outgoing calls normally.

- There are multiple ways to add a number to the Blacklist on the device. It can be added directly to **[Menu] >> [Phone book] >> [Blocked List]**.
- Select any number in the phonebook (both local and network) for configuration addition.
- Select any number in the call log for configuration addition.

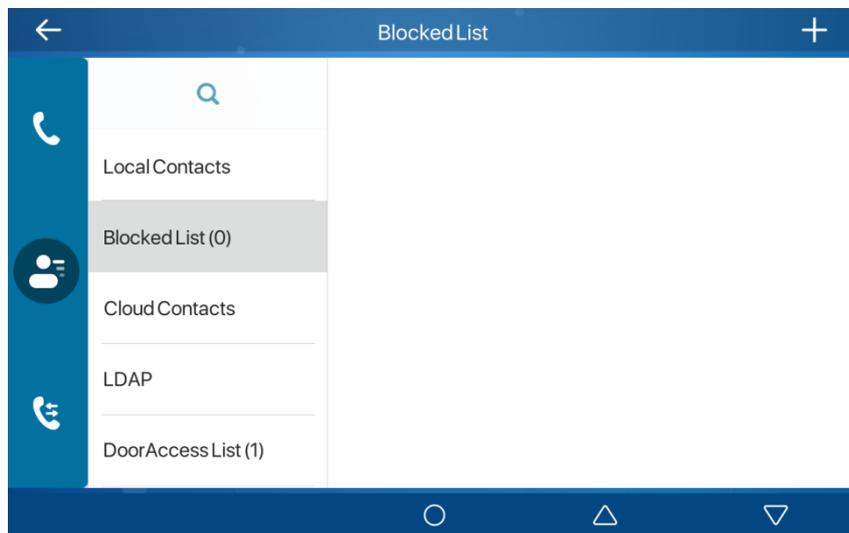


Figure 6-2-6 Blocklist Setting Page Screenshot

- There are various ways to add number to the blacklist on web page, which can be added to the **[Phone book] >> [Call list] >> [Restricted Incoming Calls]**.
- Select any number in the phonebook (both local and network) for configuration addition.
- Select any number in the call log and add it to the blacklist.



Figure 6-2-7 Blocklist Setting Page on Web Screenshot

6.2.3 Cloud Phonenook

6.2.3.1 Configure Cloud Phonebook

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


 Note

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

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


 Note

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

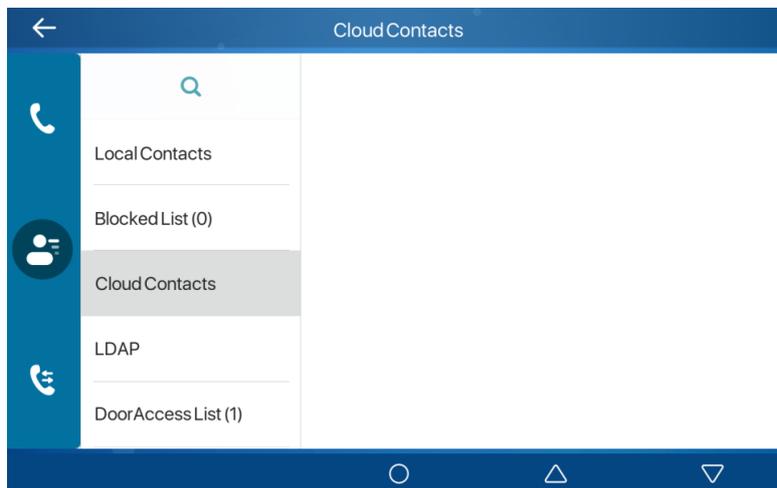


Figure 6-2-8 Cloud Contacts Page Screenshot

6.2.3.2 Downloading Cloud Phonebook

In cloud phonebook screen, user can open a cloud phonebook by pressing the network phonebook. The device will start downloading the phone book. The user will be prompted with a warning message if the download fails. Once the cloud phonebook is downloaded completely, the user can browse the contact list and dial the contact number which is the same as that in the local phonebook.

6.3 Call Log

The device can store up to 1000 call log records and user can open the call logs to check all incoming, outgoing, and missed call records by pressing [**CallLog**] icon.

In the call logs screen, user may browse the call logs with up/down navigator keys.

Each call log record is presented with 'call type' and 'call party number / name'. User can check further call log detail by pressing  icon and dial the number by pressing the call log, or add the call log number to phonebook by pressing  icon >> [**Add to Contact**].

User can delete a call log by pressing the [**Delete**] button and can clear all call logs by pressing the [**Delete All**] button from .

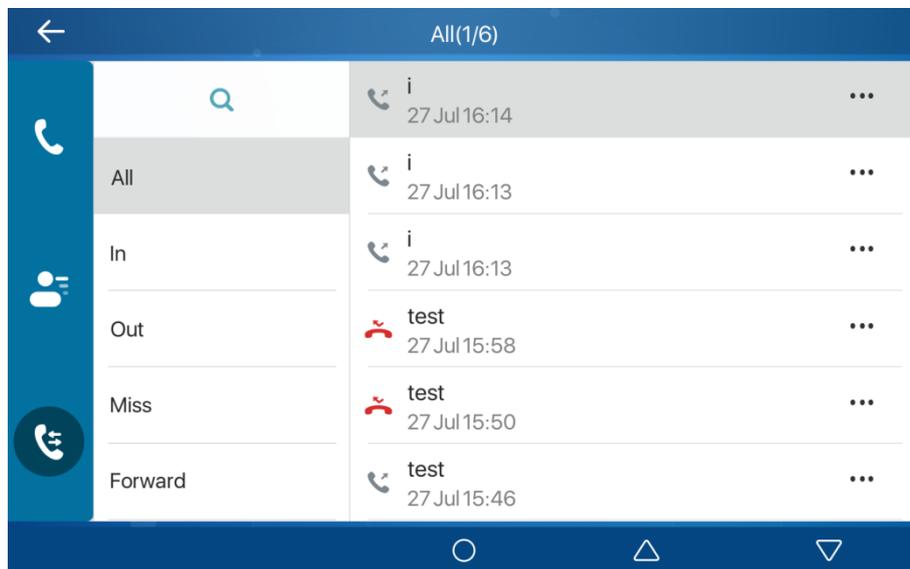


Figure 6-3-1 Call Log Page Screenshot

Users can also filter the call records of specific call types to narrow down the scope of search records, and select a call record type by left and right navigation keys.

-  - Missed Call Log
-  - Incoming Call Log
-  - Outgoing Call Log
-  - Forward Call Log

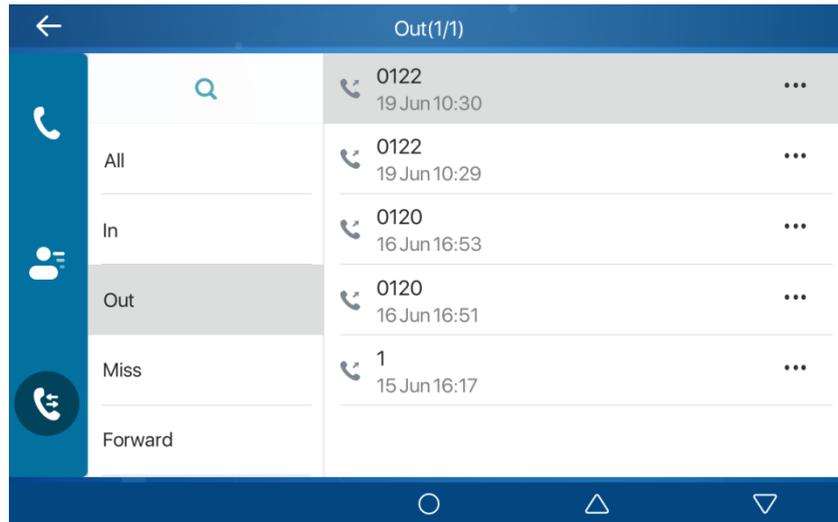


Figure 6-3-2 Filter Call Log Type Page Screenshot

6.4 Function Key

It shows 8 DSS keys in standby mode on Screen, each of which can be customized.

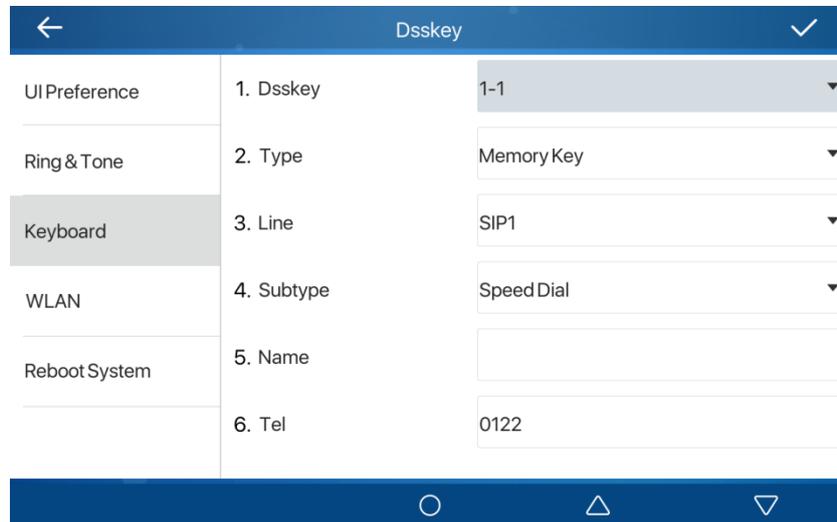


Figure 6-4-1 DSS Key Setting Page Screenshot

The DSS Key could be configured as follows:

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

Additionally, users can assign user-defined titles to the DSS Keys, configured as Memory Key, Line, URL, or MCAST Paging. The user-defined title can have up to 10 characters.

6.5 Wi-Fi

The device supports wireless Internet access and has built-in Wi-Fi without external devices.

6.5.1 Wireless network

When the device is in the default standby state, search for wireless networks

Press menu [Menu] >> [Basic Settings] .

Click [Basic Settings] >> [WLAN].

Click [WLAN] to enter the setting interface.

Turn on the wireless network, click to save, and the device will automatically search for wireless networks under the current network after enabling it.

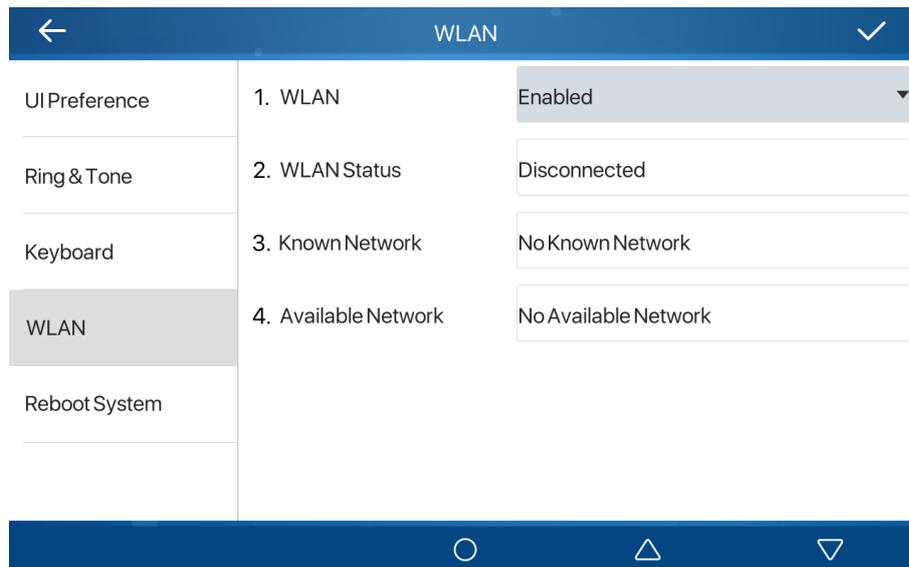


Figure 6-5-1 WLAN Setting Page Screenshot

To connect to the wireless network

- Select the available network, select wireless after entering, click  to enter username and password to connect.
- After connection is successful  will change to 

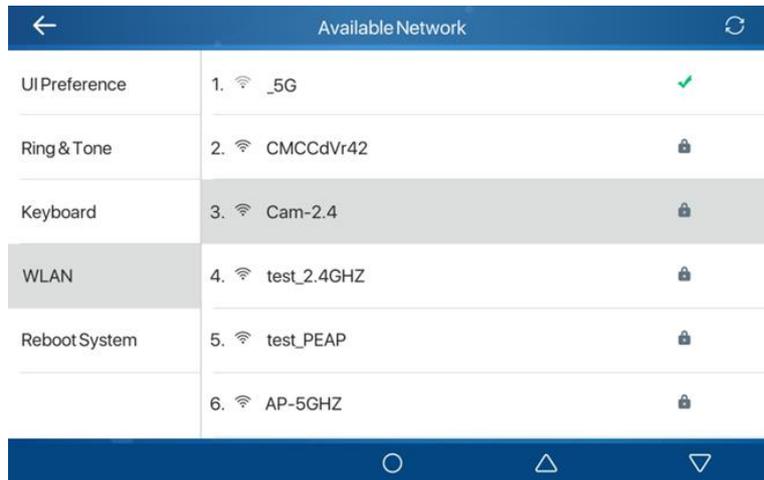


Figure 6-5-2 Wireless Network Page Screenshot

Connection to wireless network

- Log in to the webpage, [Network]>>[Wi-Fi Settings]
- After the configuration of Wi-Fi information is completed, click Add.
- Turn on Wi-Fi and click Submit.

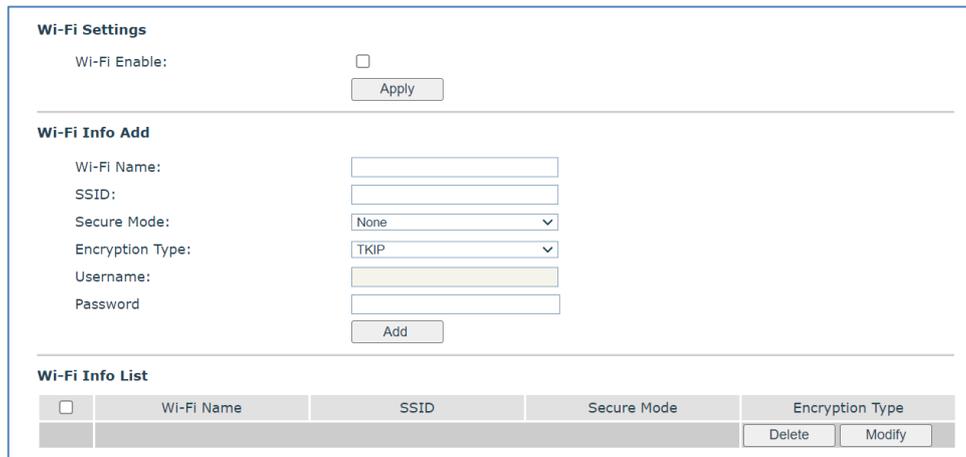
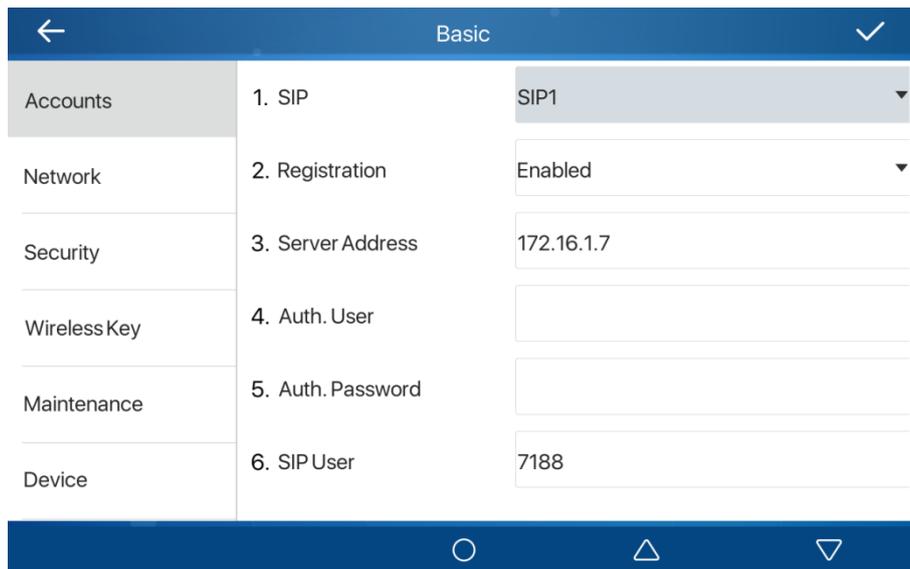


Figure 6-5-3 Wireless Setting Page on Web Screenshot

6.6 Advanced

6.6.1 Line Configurations

Device access [Phone settings] >> [Accounts], select [Basic] to configure the SIP line on the device.



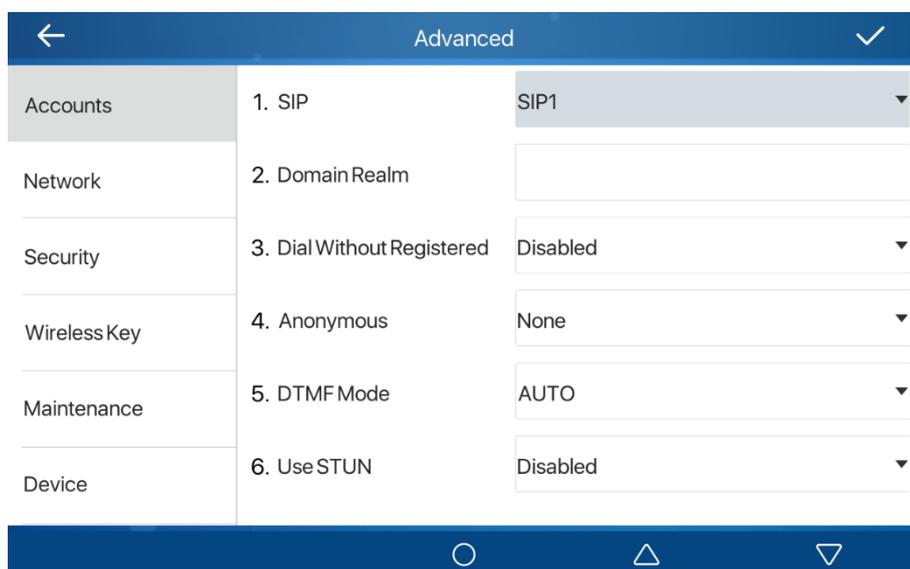
The screenshot shows the 'Basic' configuration page for a SIP line. The page has a blue header with a back arrow, the title 'Basic', and a checkmark. A left sidebar contains menu items: Accounts, Network, Security, WirelessKey, Maintenance, and Device. The main content area lists six settings:

Accounts	1. SIP	SIP1
Network	2. Registration	Enabled
Security	3. Server Address	172.16.1.7
WirelessKey	4. Auth. User	
Maintenance	5. Auth. Password	
Device	6. SIP User	7188

At the bottom, there is a blue navigation bar with three icons: a circle, a triangle pointing up, and a triangle pointing down.

Figure 6-6-1 Line Setting Page Screenshot

For users who want to configure more options, user should use web management portal to modify or [More Register Settings] in accounts on the individual line to configure those options.



The screenshot shows the 'Advanced' configuration page for a SIP line. The page has a blue header with a back arrow, the title 'Advanced', and a checkmark. A left sidebar contains menu items: Accounts, Network, Security, WirelessKey, Maintenance, and Device. The main content area lists six settings:

Accounts	1. SIP	SIP1
Network	2. Domain Realm	
Security	3. Dial Without Registered	Disabled
WirelessKey	4. Anonymous	None
Maintenance	5. DTMF Mode	AUTO
Device	6. Use STUN	Disabled

At the bottom, there is a blue navigation bar with three icons: a circle, a triangle pointing up, and a triangle pointing down.

Figure 6-6-2 Line Advanced Setting Page Screenshot

6.6.2 Network Settings

6.6.2.1 Network Settings

Device access [Phone Settings] >> [Network] >> [Network], you can configure the SIP line on the device.

■ IP Mode

There are 3 connection mode options: IPv4, IPv6, and IPv4 and IPv6. Click to switch IP mode.

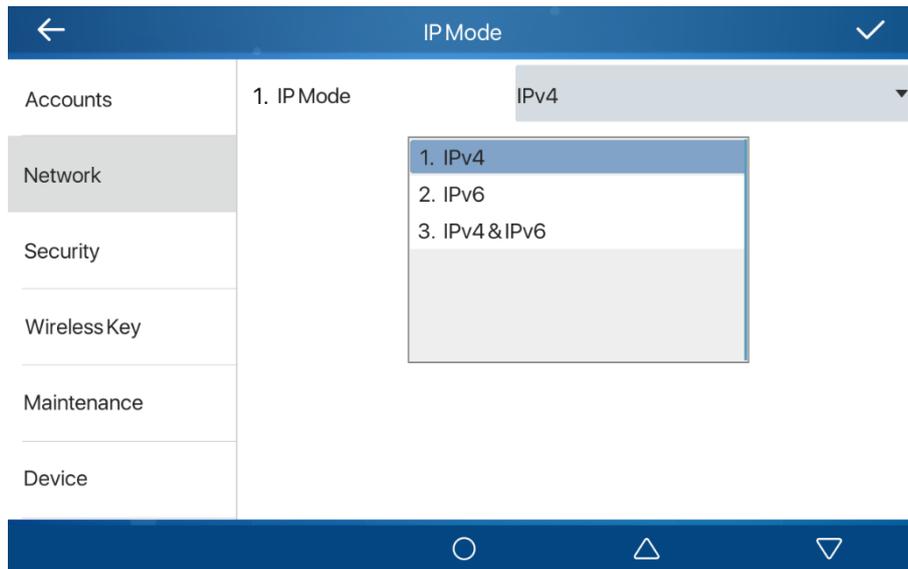


Figure 6-6-3 IP Mode Setting Page Screenshot

■ IPv4

The network type has three modes: DHCP, PPPoE, and static IP.

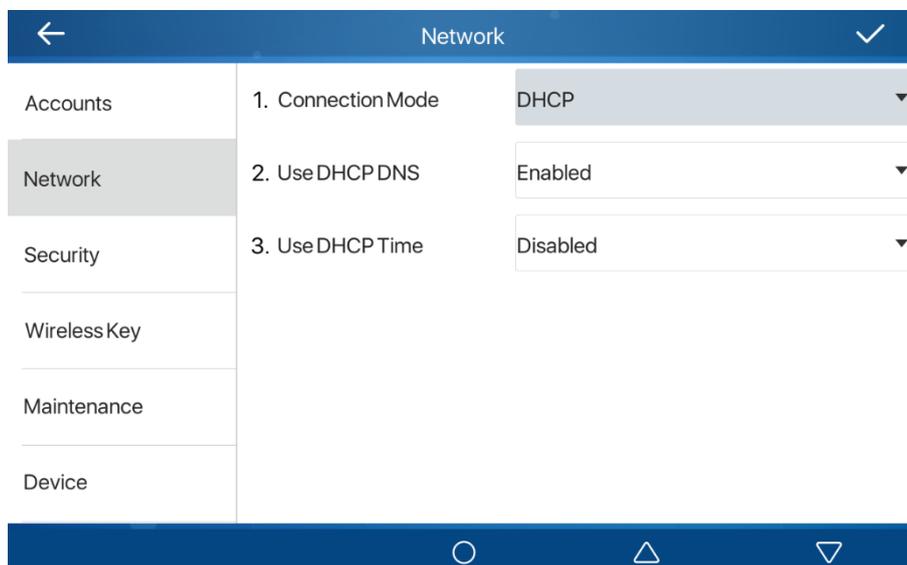


Figure 6-6-4 DHCP Mode Setting Page Screenshot

When using DHCP mode, device will get the IP address from DHCP server (router).

- Obtain DNS Server automatically: It is enabled as default. “Enable” means device will get DNS address from DHCP server and “disable” means no DNS address will be got from DHCP server.

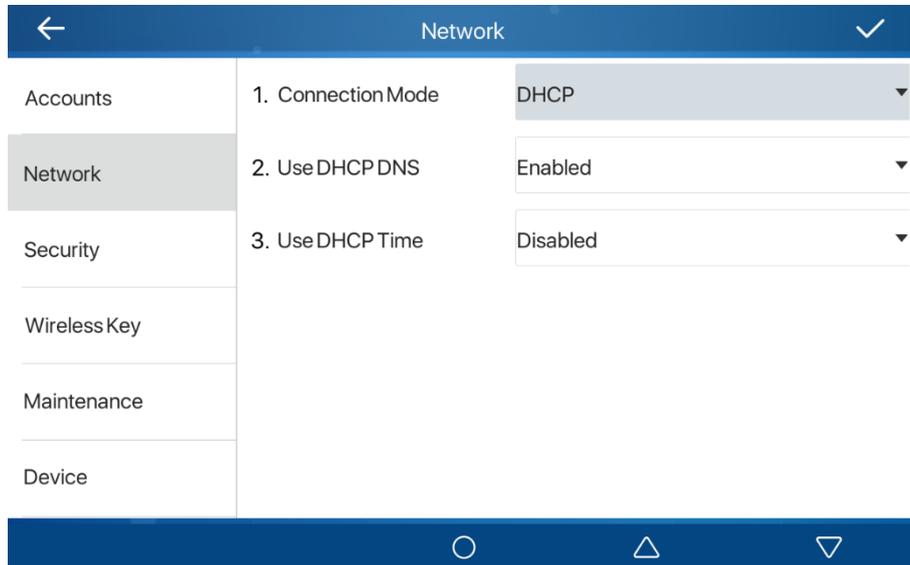


Figure 6-6-5 DHCP Network Mode Page Screenshot

When the network is set to PPPoE, the PPPoE server issues the network IP address of the device.

User: Fill in the username of the PPPoE server.

Password: Fill in the password of the PPPoE server.

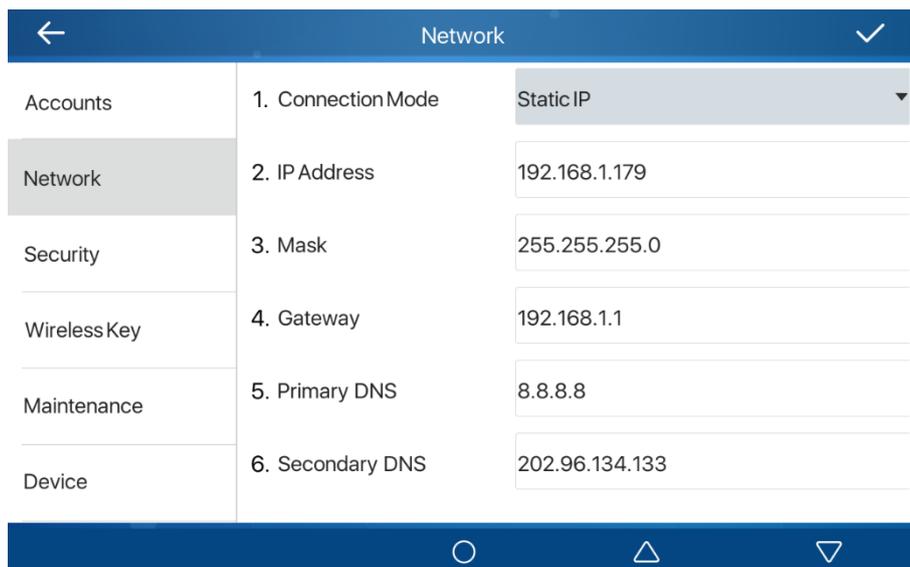


Figure 6-6-6 Static IP Mode Setting Page Screenshot

When using Static IP mode, user must configure the IP address manually.

- **IP Address:** Device IP address.
- **Subnet Mask:** Sub mask of your LAN.
- **IP Gateway:** The gateway IP address. Device could access the other network via it.
- **Primary DNS:** Primary DNS address. The default is 8.8.8.8, Google DNS server address.
- **Secondary DNS:** Secondary DNS. When primary DNS is not available, it will work.

■ IPv6

- The network type has two modes: **DHCP** and **static IP**.
- DHCP network settings are the same as IPv4.
- The static IP network settings are compatible with IPv4, just need to fill in the prefix in IPv6 Prefix.
- IPv6 Prefix: IPv6 prefix digits, the prefix represents the network bit, similar to the IPv4 subnet mask.

Category	Setting	Value
Accounts	1. Connection Mode	Static IP
Network	2. IP Address	
Security	3. IPv6 Prefix	
WirelessKey	4. Gateway	
Maintenance	5. Primary DNS	
Device	6. Secondary DNS	

Figure 6-6-7 IPv6 Static IP Mode Setting Page Screenshot

6.6.2.2 QoS & VLAN

■ LLDP

Link Layer Discovery Protocol (LLDP) is a vendor-independent link layer protocol employed by network devices to broadcast their identity and capabilities to neighboring devices on a LAN segment. Devices can utilize LLDP to discover the VLAN switch or other VLAN-enabled devices. Through LLDP, a device can learn features and apply the VLAN ID from the VLAN switch to itself.

■ CDP

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

Parameters	Description
LLDP setting	
Report	Enable LLDP
Interval	LLDP requests interval time
Learning	apply the learned VLAN ID to the device configuration
QoS	
QoS Mode	configure SIP DSCP and audio DSCP
WAN VLAN	
WAN VLAN	WAN port VLAN configuration
LAN VLAN	
LAN VLAN	LAN port VLAN configuration
CDP	
CDP	CDP enable/disable, CDP interval time

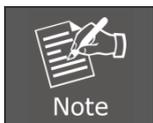
6.6.2.3 VPN

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

For some users, especially enterprise users, a VPN connection might be required to be established before activating 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



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 by opening page [Network] -> [VPN]. In VPN mode, checking the "Enable VPN" option and selecting "L2TP". Then fill in the L2TP server address, Authentication Username, and Authentication Password in the L2TP section. Press "Apply" to connect to the L2TP server.

When the VPN connection is 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 disables it. Sometimes, if the VPN connection does not established immediately, user may try to reboot the device and check if VPN connection is established after the reboot.

■ OpenVPN

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

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

The user can follow these steps to set up an OpenVPN connection:

1. Upload the required files to the device through the web page, specifically in the [Network] -> [VPN] section under OpenVPN Files.
2. Subsequently, the user should navigate to the [Network] -> [VPN] section and locate the OpenVPN settings.
3. Check the box for "Enable VPN" and choose "OpenVPN" as the VPN mode.
4. Click on the "Apply" button to activate the OpenVPN connection.

Similar to the L2TP connection, the OpenVPN connection will automatically establish itself every time the system is rebooted until the user manually disables it.

6.6.2.4 Web Server Type

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

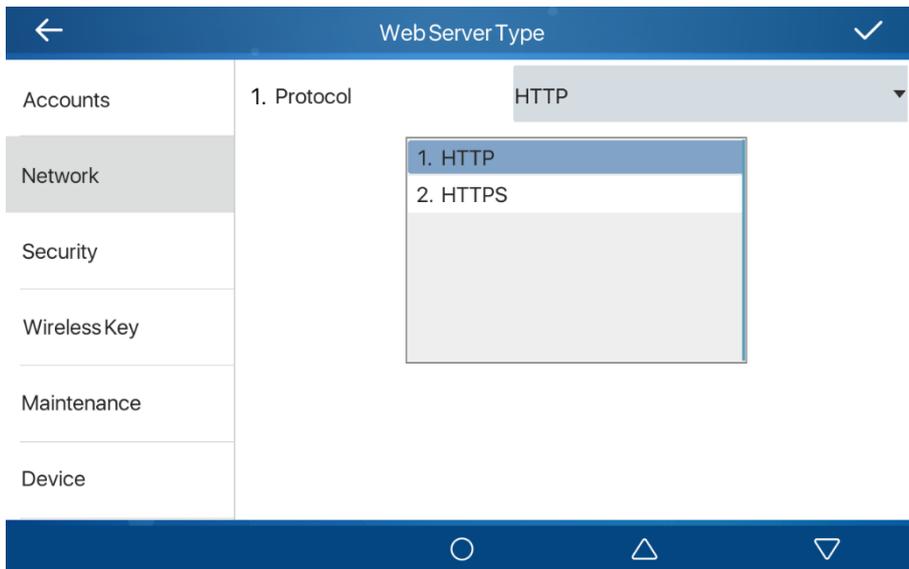


Figure 6-6-8 Web Service Type Page Screenshot

6.6.3 Set Secret Key

When the device is in the default standby mode,

- Select **[Menu]** >> **[Advanced]** >> **[Security]**
- Click **[Menu Password]** to change the password.

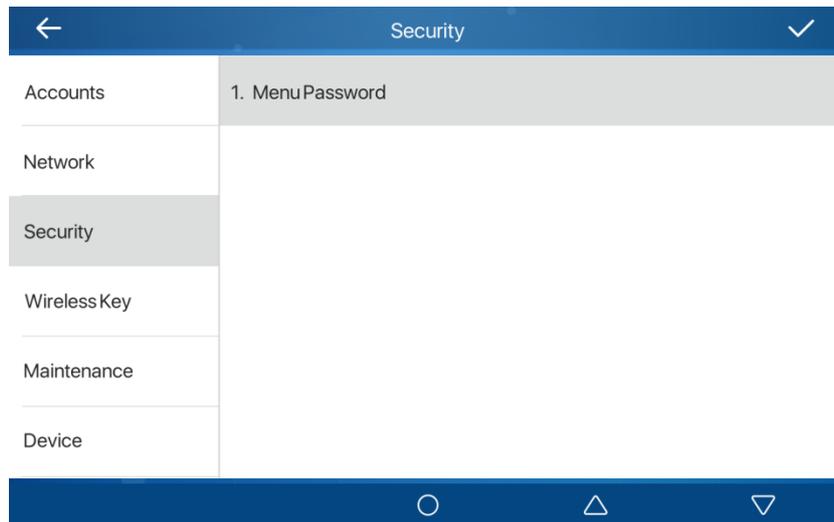


Figure 6-6-9 Menu Password Page Screenshot

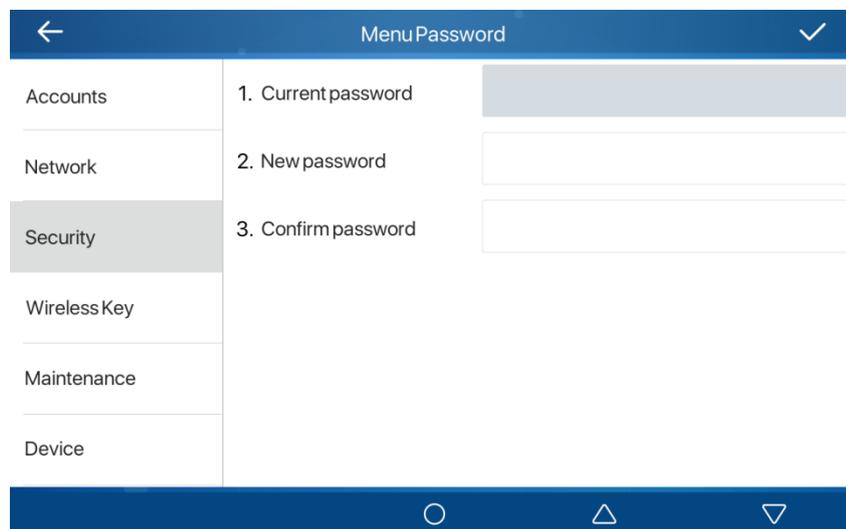


Figure 6-6-10 Menu Password Setting Page Screenshot

The menu password is the advanced setting password.

[Current password] If you have not set password, the default password is 123.

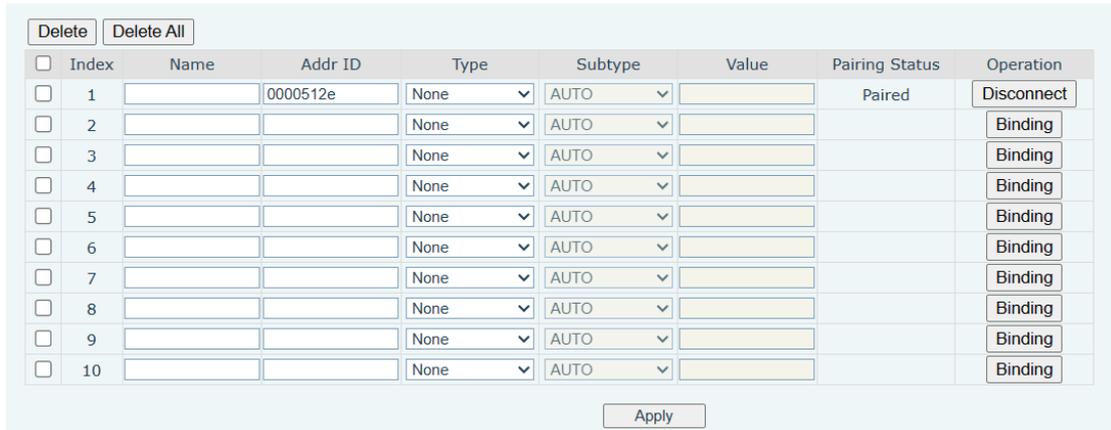
[New password] The password you want to reset.

The password immediately takes effect after the setting is completed, and the password is not displayed in plain text after being entered.

6.6.4 Wireless Key

The device is in standby mode, and by pressing the configured wireless button, you can play a ringtone on the device or make outgoing calls through the registration line.

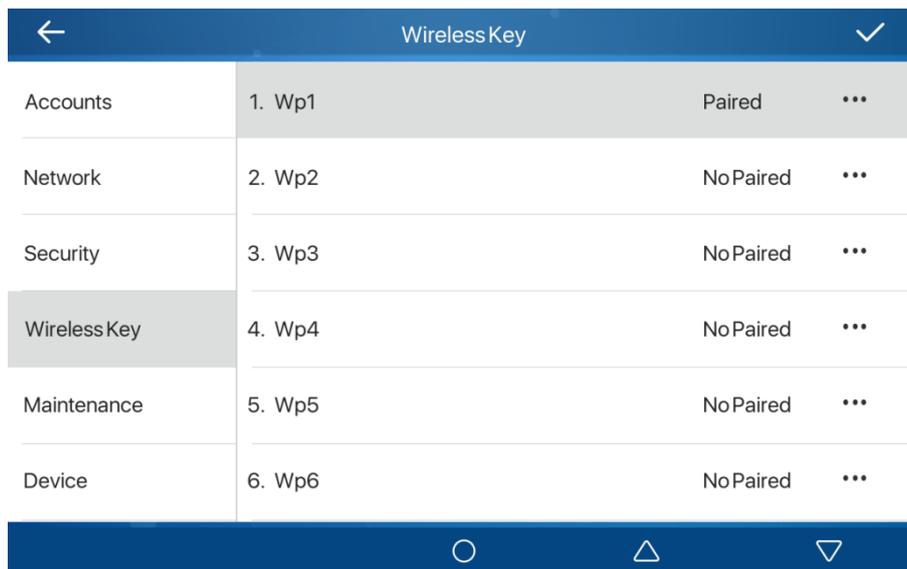
Web interface: Log in to the device webpage and enter the [Function Keys] >> [Wireless Key] page. A device can bind up to ten wireless buttons.



<input type="checkbox"/>	Index	Name	Addr ID	Type	Subtype	Value	Pairing Status	Operation
<input type="checkbox"/>	1		0000512e	None	AUTO		Paired	Disconnect
<input type="checkbox"/>	2			None	AUTO			Binding
<input type="checkbox"/>	3			None	AUTO			Binding
<input type="checkbox"/>	4			None	AUTO			Binding
<input type="checkbox"/>	5			None	AUTO			Binding
<input type="checkbox"/>	6			None	AUTO			Binding
<input type="checkbox"/>	7			None	AUTO			Binding
<input type="checkbox"/>	8			None	AUTO			Binding
<input type="checkbox"/>	9			None	AUTO			Binding
<input type="checkbox"/>	10			None	AUTO			Binding

Figure 6-6-11 Wireless Key Setting Page on Web Screenshot

Device interface: Enter [Menu] >> [Advanced] >> [Wireless Key].



	Index	Name	Pairing Status	Operation
Accounts	1.	Wp1	Paired	...
Network	2.	Wp2	No Paired	...
Security	3.	Wp3	No Paired	...
Wireless Key	4.	Wp4	No Paired	...
Maintenance	5.	Wp5	No Paired	...
Device	6.	Wp6	No Paired	...

Figure 6-6-12 Wireless Key Setting Page Screenshot

Select any of the wireless buttons 1-10 to scan binding or manually add wireless buttons, and then set the name, type, subtype, value, etc. of the wireless buttons.

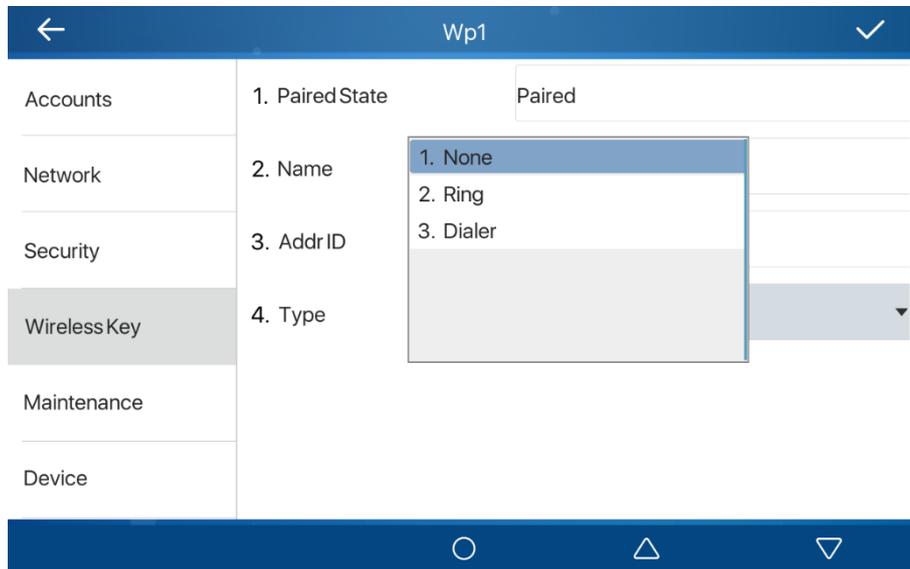


Figure 6-6-13 Wireless Key Setting Page Screenshot

6.6.5 Maintenance

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

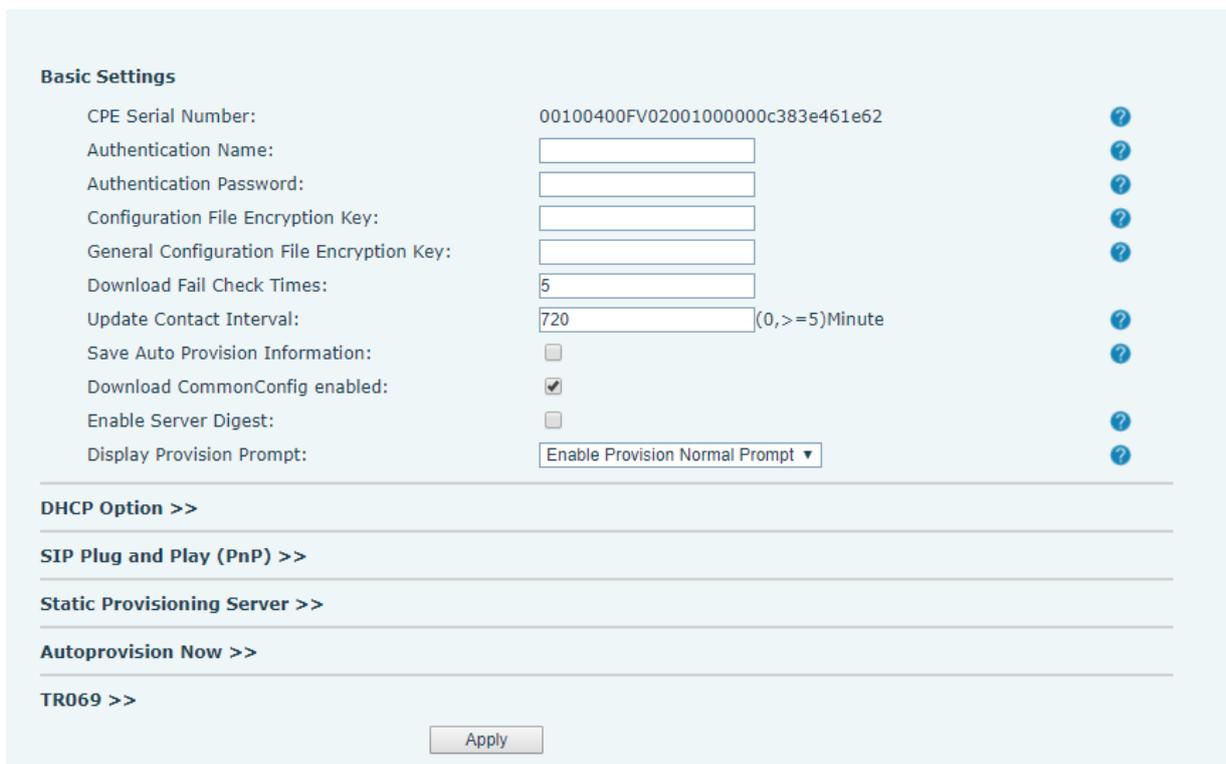


Figure 6-6-14 Auto Provision Setting Page on Web Screenshot

LCD : Enter [Advanced] >> [Maintain] >> [Auto Provision].

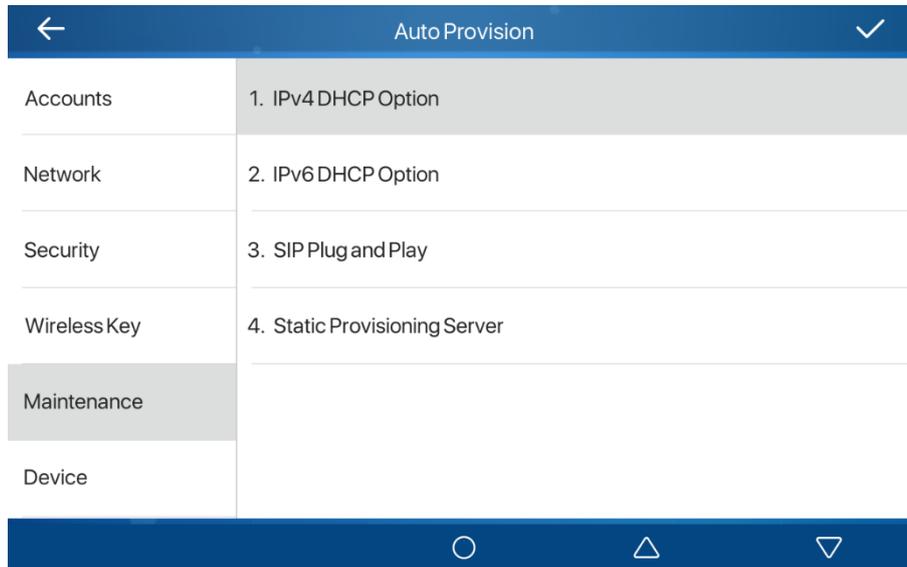


Figure 6-6-14 Auto Provision Setting Page Screenshot

The VTS-700WP supports SIP PnP, DHCP options, Static provision, and TR069.

Transferring protocols: FTP, TFTP, HTTP and HTTPS

Parameters	Description
Basic settings	
CPE Serial Number	Display the device SN
Authentication Name	The user name of provision server
Authentication Password	The password of provision server
Configuration File Encryption Key	If the device configuration file is encrypted , user should add the encryption key here
General Configuration File Encryption Key	If the common configuration file is encrypted, user should add the encryption key here
Download Fail Check Times	If the download failed, device will retry with the configured times.
Update Contact Interval	Device will update the phonebook with the configured interval time. If it is 0, the feature is disabled.
Save Auto Provision Information	Save the HTTP/HTTPS/FTP user name and password. If the provision URL is kept, the information will be kept.
Download Common Config enabled	Whether device will download the common configuration file.
Enable Server Digest	When the feature is enabled and if the configuration of server is changed, device will download and update.
DHCP Option	
Option Value	Configre DHCP option, DHCP option supports DHCP custom option

	DHCP option 66 DHCP option 43, 3 methods to get the provision URL. The default is Option 66.
Custom Option Value	Custom Option value is allowed from 128 to 254. The option value must be same as server define.
Enable DHCP Option 120	Use Option120 to get the SIP server address from DHCP server.
SIP Plug and Play (PnP)	
Enable SIP PnP	Whether to enable PnP or not -- If PnP is enabled, device will send a SIP SUBSCRIBE message with broadcast method. Any server can support the feature that will respond and send a Notify with URL to device. Device could get the configuration file with the URL.
Server Address	Broadcast address. As default, it is 224.0.0.0.
Server Port	PnP port
Transport Protocol	PnP protocol, TCP or UDP.
Update Interval	PnP message interval.
Static Provisioning Server	
Server Address	Supports both IP address and domain address.
Configuration File Name	If it is empty, device will request the common file and device file which is named as its MAC address. The file name could be a common name, \$mac.cfg, \$input.cfg. The file format supports CFG/TXT/XML.
Protocol Type	Supports FTP, TFTP, HTTP and HTTPS.
Update Interval	Configuration file update interval time. As default it is 1, which means device will check the update every 1 hour.
Update Mode	Provision Mode. 1. Disabled. 2. Update after reboot. 3. Update after interval.
TR069	
Enable TR069	Enable TR069 after selection
ACS Server Type	There are 2 options: Common and CTC.
ACS Server URL	ACS server address
ACS User	ACS server username (up to 59 characters)
ACS Password	ACS server password (up to is 59 characters)
Enable TR069 Warning Tone	If TR069 is enabled, there will be a prompt tone when connecting.
TLS Version	TLS version (TLS 1.0, TLS 1.1, TLS 1.2)
INFORM Sending Period	INFORM signal interval time. It ranges from 1s to 999s
STUN Server Address	Configure STUN server address
STUN Enable	To enable STUN server for TR069

6.6.6 Firmware Upgrade

Web page: Log in to device web page and go to [System] >> [Upgrade].

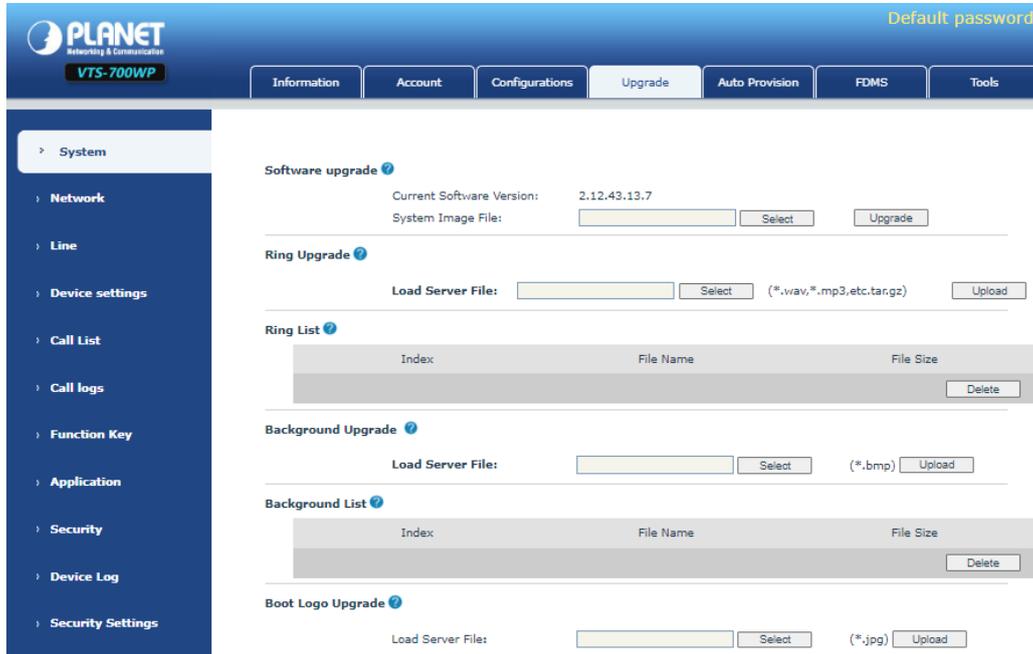


Figure 6-6-15 Firmware Upgrade Page on Web Screenshot

- **LCD interface:** go to [Menu] >> [Maintain] >> [Upgrade].

Parameter	Description
Upgrade server	
Enable Auto Upgrade	If there is a new version text file and updated software firmware available on the server, the device will display a prompt message indicating the availability of an upgrade. This message will appear after the specified Update Interval has elapsed.
Upgrade Server Address 1	Set available upgrade server address.
Upgrade Server Address 2	Set available upgrade server address.
Update Interval	Set Update Interval.
Firmware Information	
Current Software Version	It will show Current Software Version.
Server Firmware Version	It will show Server Firmware Version.
[Upgrade] button	When a new version text file and updated software firmware are present on the server, the page will showcase version information, and the upgrade button will become accessible. Users can then click the [Upgrade] button to initiate the process of upgrading to the new firmware.

6.6.7 Factory Reset

The device is in default standby mode.

- Press **[Advanced]** >> **[Maintain]**>> **[Factory Reset]**.
- Press the **[Reset]** button to select the file to be cleared.

Press **[OK]** to clear after completion. When you select clear configuration file and clear all, the device will restart automatically after clearing.

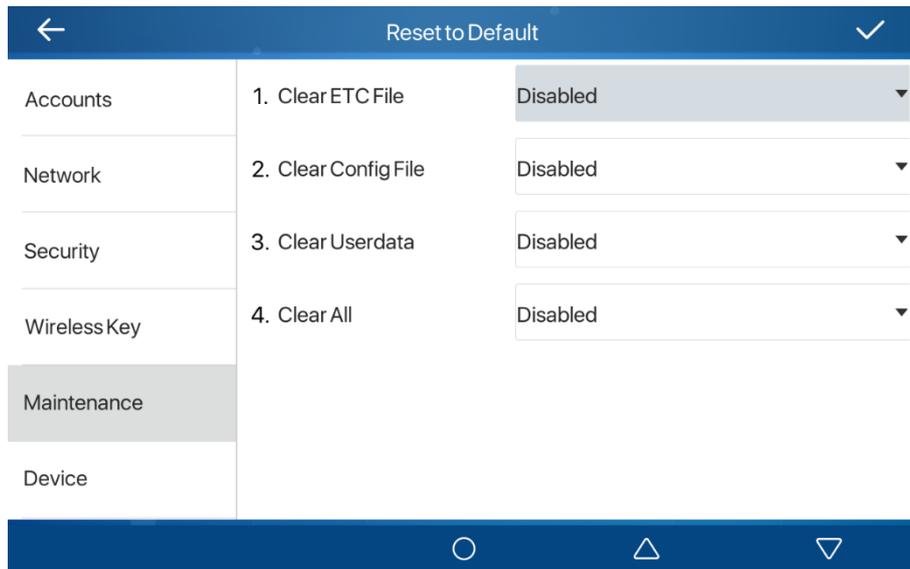


Figure 6-6-16 Factory Reset Page Screenshot

Chapter 7. Web Configurations

7.1 Web Page Authentication

The user can log into the web page of the device to manage the user's device information and operate the device. Users must provide the correct user name and password to log in.

When logging in to the web page with the same or different IP and if the user name/password is entered incorrectly three times, the web page will be locked and you can log in again after 5 minutes.

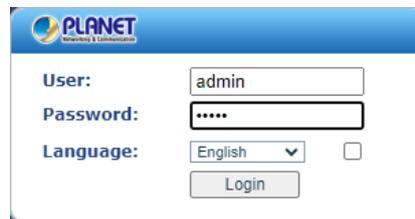


Figure 7-1-1 Web Login Page Screenshot

When the user logs in for the first time, the default user name and password are used. If the password is not changed after login, the web page will prompt "The default password is being used, please change it". After clicking, you can jump to the modify password interface to modify the login password.



Figure 7-1-2 Default Password Prompt Screenshot

7.2 System >> Information

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

- Model
- Hardware Version
- Software Version
- Uptime
- Memory Information

And summarization of network status,

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

Besides, summarization of SIP account status,

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

7.3 System >> Account

On this page the user can change the password for the login page.

Users with administrator rights can also add or delete users, manage users, and set permissions and passwords for new users.

7.4 System >> Configurations

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

■ Clear Configurations

Select the module in the configuration file to clear.

SIP: account configuration.

AUTOPROVISION: automatically upgrades the configuration

TR069: TR069 related configuration

MMI: MMI module, including authentication user information, web access protocol, etc.

DSS Key: DSS Key configuration

■ Clear Tables

Select the local data table to be cleared, all selected by default.

■ Reset Device

The device data will be cleared, including configuration and database tables.

7.5 System >> Upgrade

To upgrade the device software version, including the option to update customized elements such as ringtones, background, logo, etc., and delete files. The ringtone feature supports the ".wav" format

7.6 System >> Auto Provision

The Auto Provision settings help IT manager or service provider to easily deploy and manage the devices in mass volume. If these four methods are configured at the same time, the terminal will be automatically deployed in the order in which the configuration is obtained first, and the first obtained configuration will be used first. It supports protocols like FTP, TFTP, HTTP and HTTPS.

7.7 System >> Tools

Tools provided in this page help users to identify issues at troubleshooting. Please refer to [8 Trouble Shooting](#) for more details.

7.8 System >> Reboot Device

This page can restart the device.

7.9 Network >> Basic

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

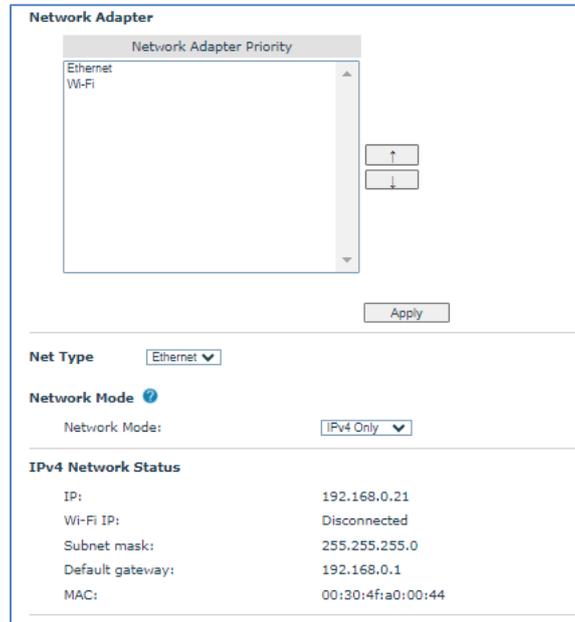


Figure 7-9-1 Network Settings Screenshot

Network priority: When wired and wireless are enabled at the same time, you can choose to use wired or wireless first.

Network type: You can view the information of wired/wireless network.

7.10 Network >> Wi-Fi Settings

This page allows you to enable Wi-Fi, add Wi-Fi information, and manage the Wi-Fi info list.

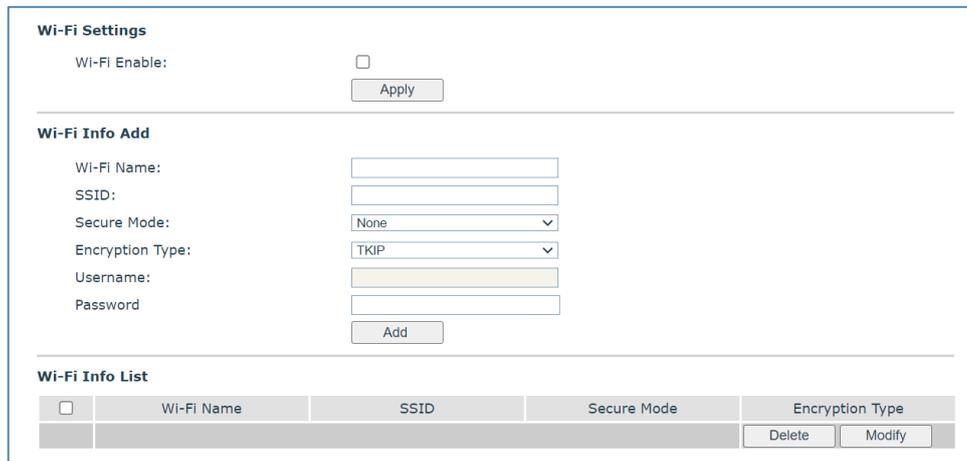


Figure 7-10-1 Wi-Fi Settings Screenshot

Parameter	Description
Wi-Fi Settings	
Wi-Fi Enable	Enable/disable Wi-Fi
Wi-Fi Info Add	
Wi-Fi Name	Customize the name of Wi-Fi
SSID	The exact SSID of the Wi-Fi users want to add
Secure Mode	The secure mode of the Wi-Fi
Encryption Mode	The encryption mode of the Wi-Fi
Username	In the secure mode, the user needs to input a username
Password	Input the password the Wi-Fi needs.

7.11 Network >> Service Port

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

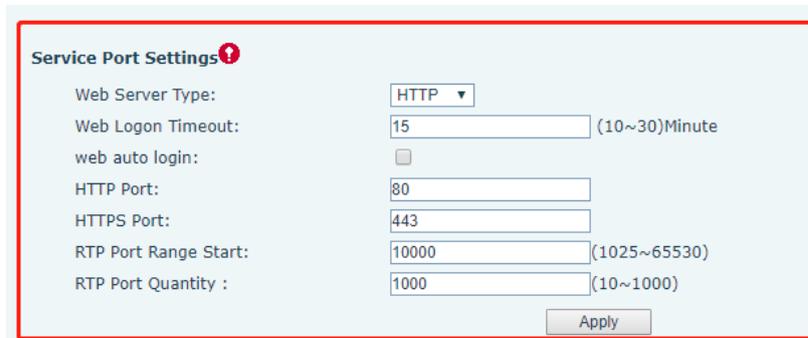


Figure 7-11-1 Service Port Settings Screenshot

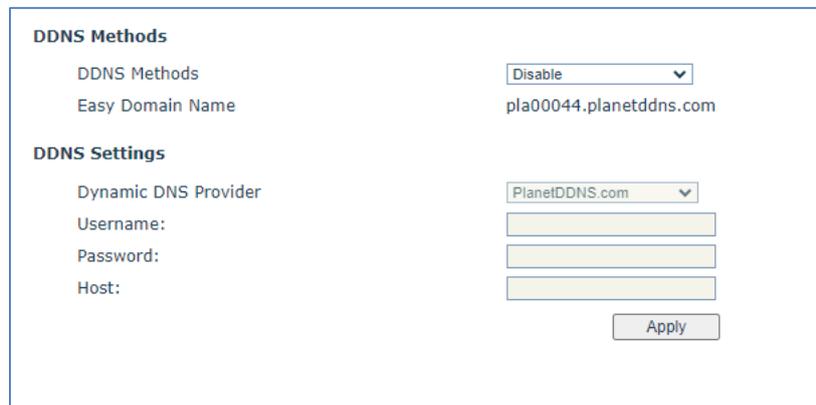
Parameter	Description
Web Server Type	Reboot to take effect after settings. Optionally, the web page login is HTTP/HTTPS.
Web Logon Timeout	Default as 15 minutes; the timeout will automatically exit the login page and will need to log in again.
Web auto login	After the specified timeout, there is no need to enter a username and password; the web page will automatically log in.
HTTP Port	The default is 80. If you want system security, you can set ports other than 80. Such as :8080, webpage login: HTTP://ip:8080
HTTPS Port	The default is 443; the same as the HTTP port.
RTP Port Range Start	The valid range for the value is between 1025 and 65535. The initial value for the RTP (Real-time Transport Protocol) port is set as the starting point. With each subsequent call, the values for both voice and video ports are increased by 2.
RTP Port Quantity	Number of calls.

7.12 Network >> VPN

Users can configure VPN connections on this page. Please refer to [6.6.2.3 VPN](#) and get more details.

7.13 Network >> DDNS

This page provides the settings of DDNS. The default is Disable. You can choose PLANET DDNS or Easy DDNS.



The screenshot shows a web interface for DDNS settings. It is divided into two sections: 'DDNS Methods' and 'DDNS Settings'. In the 'DDNS Methods' section, there is a dropdown menu for 'DDNS Methods' currently set to 'Disable', and a text field for 'Easy Domain Name' containing 'pla00044.planetddns.com'. The 'DDNS Settings' section includes a dropdown menu for 'Dynamic DNS Provider' set to 'PlanetDDNS.com', and three text input fields for 'Username:', 'Password:', and 'Host:'. An 'Apply' button is located at the bottom right of the settings area.

Figure 7-13-1 DDNS Setting Page Screenshot

7.14 Line >> SIP

Configure the Line service configuration on this page.

Parameter	Description
Register Settings	
Line Status	The current line status is displayed upon loading the page. For real-time updates, users must manually refresh the page to obtain the most recent line status.
Activate	Whether the service of the line is activated
Username	Enter the username of the service account.
Authentication User	Enter the authentication user of the service account
Display Name	Enter the display name to be sent in a call request.
Authentication Password	Enter the authentication password of the service account
Realm	Enter the SIP domain if requested by the service provider
Server Name	Input server name.
SIP Server 1	
Server Address	Enter the IP or FQDN address of the SIP server
Server Port	Enter the SIP server port; default is 5060
Transport Protocol	Set up the SIP transport line using TCP or UDP or TLS.
Registration Expiration	Set SIP expiration date.
SIP Server 2	
Server Address	Enter the IP or FQDN address of the SIP server
Server Port	Enter the SIP server port; default is 5060
Transport Protocol	Set up the SIP transport line using TCP or UDP or TLS.
Registration Expiration	Set SIP expiration date.
SIP Proxy Server Address	Enter the IP or FQDN address of the SIP proxy server.
Proxy Server Port	Enter the SIP proxy server port; default is 5060.
Proxy User	Enter the SIP proxy user.
Proxy Password	Enter the SIP proxy password.
Backup Proxy Server Address	Enter the IP or FQDN address of the backup proxy server.
Backup Proxy Server Port	Enter the backup proxy server port; default is 5060.
Basic Settings	
Enable Auto Answering	The incoming calls will be answered automatically after the delay time.
Auto Answering Delay	Set the delay for incoming call before the system automatically answers it
Call Forward Unconditional	Enable unconditional call forward, all incoming calls will be

	forwarded to the number specified in the next field
Call Forward Number for Unconditional	Set the number of unconditional call forward
Call Forward on Busy	When the device is busy, any incoming call will be forwarded to the number specified in the next field.
Call Forward Number for Busy	Set the number of call forward on busy .
Call Forward on No Answer	Enable call forward on no answer, when an incoming call is not answered within the configured delay time, the call will be forwarded to the number specified in the next field.
Call Forward Number for No Answer	Set the number of call forward on no answer.
Call Forward Delay for No Answer	Set the delay time of not answered call before being forwarded.
Transfer Timeout	Set the timeout of call transfer process.
Subscribe For Voice Message	Configure the device to subscribe to voice message waiting notifications. When enabled, the device will receive notifications from the server whenever there is a voice message waiting on the server.
Voice Message Number	Set the number for retrieving voice message
Voice Message Subscribe Period	Set the interval of voice message notification subscription
Enable Hotline	The device will promptly dial the specified number when the audio channel is activated by lifting the handset off the hook. Alternatively, it will activate the hands-free speaker or headphone mode for immediate communication.
Hotline Delay	Set the delay for hotline before the system automatically dials it
Hotline Number	Set the hotline dialing number
Dial Without Registered	Set call out by proxy without registration
Enable Missed Call Log	If enabled, the device will save missed calls into the call history record.
DTMF Type	Set the DTMF type to be used for the line
DTMF SIP INFO Mode	Set the SIP INFO mode to send '*' and '#' or '10' and '11'
Enable DND	Any incoming call to this line will be rejected automatically.
Subscribe For Voice Message	Enable the device to subscribe a voice message waiting notification, if enabled, the device will receive notification from the server if there is voice message waiting on the server
Use VPN	Configure the line to utilize a VPN-restricted 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	In cases involving multiple proxies, decide whether to permit the execution of failback for both invite and register requests.
Signal Retry Counts	Specify the number of attempts at which the SIP request considers the proxy as unavailable in scenarios involving multiple proxies.
Codecs Settings	Set the priority and availability of the codecs by adding or removing them from the list.
Video Codecs	Select video code to preview video.
Advanced Settings	
Use Feature Code	When this setting is activated, the features within this section will be delegated to the server for handling, rather than being processed by the device itself. To control the enabling of these features, the device will dispatch a feature code to the server by dialing the number specified in each feature code field.
Enable DND	Set the feature code to dial to the server
Disable DND	Set the feature code to dial to the server
Enable Call Forward Unconditional	Set the feature code to dial to the server
Disable Call Forward Unconditional	Set the feature code to dial to the server
Enable Call Forward on Busy	Set the feature code to dial to the server
Disable Call Forward on Busy	Set the feature code to dial to the server
Enable Call Forward on No Answer	Set the feature code to dial to the server
Disable Call Forward on No Answer	Set the feature code to dial to the server
Enable Blocking Anonymous Call	Set the feature code to dial to the server
Disable Blocking Anonymous Call	Set the feature code to dial to the server
Call Waiting On Code	Set the feature code to dial to the server
Call Waiting Off Code	Set the feature code to dial to the server
Send Anonymous On Code	Set the feature code to dial to the server
Send Anonymous Off Code	Set the feature code to dial to the server
SIP Encryption	Activate SIP encryption to ensure that SIP transmissions are securely encrypted.
RTP Encryption	Activate RTP encryption to ensure that RTP (Real-time Transport Protocol) transmissions are securely encrypted.
Enable Session Timer	Configure the line to enable call termination through session timer refreshment. The call session will conclude if no new session timer event updates are received within the specified timeout period.
Session Timeout	Set the session timer timeout period
Enable BLF List	Enable/Disable BLF List

BLF List Number	BLF List allows one BLF key to monitor the status of a group. Multiple BLF lists are supported.
Response Single Codec	If setting enabled, the device will use single codec in response to an incoming call request
BLF Server	The registered server will receive the subscription package from ordinary application of BLF device. Please enter the BLF server. If the sever does not support subscription package, the registered server and subscription server will be separated.
Keep Alive Type	Configure the line to utilize a dummy UDP or SIP OPTION packet for maintaining the NAT pinhole open.
Keep Alive Interval	Establish the interval for transmitting keep-alive packets.
Keep Authentication	Keep the authentication parameters from previous authentication
Blocking Anonymous Call	Reject any incoming call without presenting caller ID
User Agent	The default is Model with Software Version.
Specific Server Type	Set the line to collaborate with specific server type
SIP Version	Set the SIP version
Anonymous Call Standard	Set the standard to be used for anonymous requests
Local Port	Set the local port
Ring Type	Set the ring tone type for the line
Enable user=device	Sets user=device in SIP messages.
Use Tel Call	Set use tel call
Auto TCP	Using TCP protocol to guarantee usability of transport for SIP messages above 1500 bytes
Enable Rport	Set the line to add rport in SIP headers
Enable PRACK	Set the line to support PRACK SIP message
DNS Mode	Select DNS mode, A, SRV, NAPTR
Enable Long Contact	Allow more parameters in contact field per RFC 3840
Enable Strict Proxy	Enable the use of strict routing. When the device receives packets from the server, it will use the source IP address, not the address in via field.
Convert URI	Transform characters that are neither digits nor alphabet characters into their corresponding %hh hexadecimal code.
Use Quote in Display Name	Whether to add quote in display name.
Enable GRUU	Supports Globally Routable User-Agent URI (GRUU)
Sync Clock Time	Time Sync with server
Enable Inactive Hold	With the post-call hold capture package enabled, you can see that in the INVITE package, SDP is inactive.

Caller ID Header	Set the Caller ID Header
Use 182 Response for Call waiting	Configure the device to utilize the 182 response code for call waiting responses.
Enable Feature Sync	Feature Sync with server
Enable SCA	Enable/Disable SCA (Shared Call Appearance)
CallPark Number	Set the CallPark number.
Server Expire	Set the timeout to use the server.
TLS Version	Choose TLS Version.
uaCSTA Number	Set uaCSTA Number.
Enable Click To Talk	With the use of special server, click to call out directly after enabling.
Enable Chgport	Whether port updates are enabled.
VQ Name	Open the VQ name for VQ RTCP-XR.
VQ Server	Open VQ server address for VQ RTCP-XR.
VQ Port	Open VQ port for VQ RTCP-XR.
VQ HTTP/HTTPS Server	Enable VQ server selection for VQ RTCP-XR.
Flash mode	Chose Flash mode , normal or SIP info.
Flash Info Content-Type	Set the SIP info content type.
Flash Info Content-Body	Set the SIP info content body.
PickUp Number	Set the scramble number when the Pickup is enabled.
JoinCall Number	Set JoinCall Number.
Intercom Number	Set Intercom Number.
Unregister On Boot	Whether to enable logout function.
Enable MAC Header	Whether to open the registration of SIP package with user agent with MAC or not.
Enable Register MAC Header	Whether to open the registration is user agent with MAC or not.
BLF Dialog Strict Match	Whether to enable accurate matching of BLF sessions.
PTime(ms)	Set whether to bring ptime field, default no.
SIP Global Settings	
Strict Branch	Set up to strictly match the Branch field.
Enable Group	Set open group.
Enable RFC4475	Set to enable RFC4475.
Enable Strict UA Match	Enable strict UA matching.
Registration Failure Retry Time	Set the registration failure retry time.
Local SIP Port	Modify the device SIP port.
Enable uaCSTA	Set to enable the uaCSTA function.

7.15 Line >> Dial Plan

Basic Settings

- Press # to invoke dialing
- Dial Fixed Length to Send
- Send after second(s)(3~30)
- Enable E.164

Figure 7-15-1 Dial Plan Settings Page Screenshot

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
Enable E.164	Please refer to E.164 standard specification

Add dialing rules:

Dial Plan Add

Digit Map: ?

Apply to Call: Outgoing Call ?

Line: SIP DIALPEER ?

Alias(Optional): No Alias ?

Suffix: ?

Match to Send: No ?

Destination: ?

Phone Number: ?

Media: Default ?

Port: ?

Length: ?

Dial Plan Option ?

▼

User-defined Dial Plan Table ?

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

Figure 7-15-2 Dial Up Rules Settings Page Screenshot

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.
<p>Note: Two different special characters are used.</p> <ul style="list-style-type: none"> ■ x -- Matches any single digit that is dialed. ■ [] -- Specifies a range of numbers to be matched. It may be a range, a list of ranges separated by commas, or a list of digits. 	
Destination	Set Destination address. This is for IP direct.
Port	Set the Signal port, and the default is 5060 for SIP.
Alias	Set the Alias. This is the text to be added, replaced or deleted. It is an optional item.
<p>Note: There are four types of aliases.</p> <ul style="list-style-type: none"> ■ all: xxx – xxx will replace the phone number. ■ add: xxx – xxx will be dialed before any phone number. ■ del –The characters will be deleted from the phone number. ■ rep: xxx – xxx will be substituted for the specified characters. 	
Suffix	Characters to be added at the end of the phone number. It is an optional item.
Length	Set the number of characters to be deleted. For example, if this is set to 3, the device 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.

User-defined Dial Plan Table 

Index	Digit Map	Call	Match to Send	Line	Alias Type: Number(length)	Suffix	Media
1	"123"	Out	No	SIP DIALPEER(172.16.1.15:5560)			Default

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

User-defined Dial Plan Table ?

Index	Digit Map	Call	Match to Send	Line	Alias Type: Number(length)	Suffix	Media
1	"1"	Out	No	SIP1	rep:010(1)		Default

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.

7.16 Line >> Action Plan

Action Plan application: a technical implementation defined for remote control and behavior linkage between terminal equipment and other equipment. That is, when an event occurs on the terminal, the terminal can perform an action, and this action is completed according to a Plan Rule.

Parameter	Description
Action	Default: when the rule is triggered, the device displays video or converts multicast according to the RTSP URL or multicast address port set by the website. Video: when the rule is triggered, the device accesses the RTSP URL configured by the URL to display the video. MCAST-XFER: when the rule is triggered, the device converts the incoming call or multicast into multicast and sends it to the set multicast address port. Record: the device automatically turns on the recording function when the rule is triggered. Mute: the device will mute automatically when the rule is triggered. Answer: when the rule is triggered, the device automatically answers the incoming call.
Number	Auxiliary device number (support video)
Type	Early: trigger execution before call establishment. Connected: trigger execution after call establishment
Direction	For call mode, incoming/outgoing call
Line	Set up outgoing lines.
Username	Bind the user name of the IP camera.
Password	Bind IP camera password.
URL	Video streaming information or MCAST IP address.
User Agent	Set user agent information
MCAST Codec	The multicast code that is sent when the multicast conversion rule is triggered

7.17 Line >> Basic Settings

Set up the register global configuration.

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 Answering	Enable auto-answering, the incoming calls will be answered automatically after the delay time
Auto Answering Delay	Set the delay for incoming call before the system automatically answered it
DTMF Type	Set the DTMF type to be used for the line
DTMF SIP INFO Mode	Set the SIP INFO mode to send '*' and '#' or '10' and '11'
Enable Preview	After enabling it, preview will be turned on during IP calls.
Preview Mode	Set the preview mode to 18x or 2xx.
Call-ID Format	Default format is \$id@\$ip
Display name	The name that is displayed when the calling request is sent.
User name	Set the User name

7.18 Lines >> RTCP-XR

Log in to the device webpage and visit the Line >> RTCP-XR >> VQ RTCP-XR Settings page.

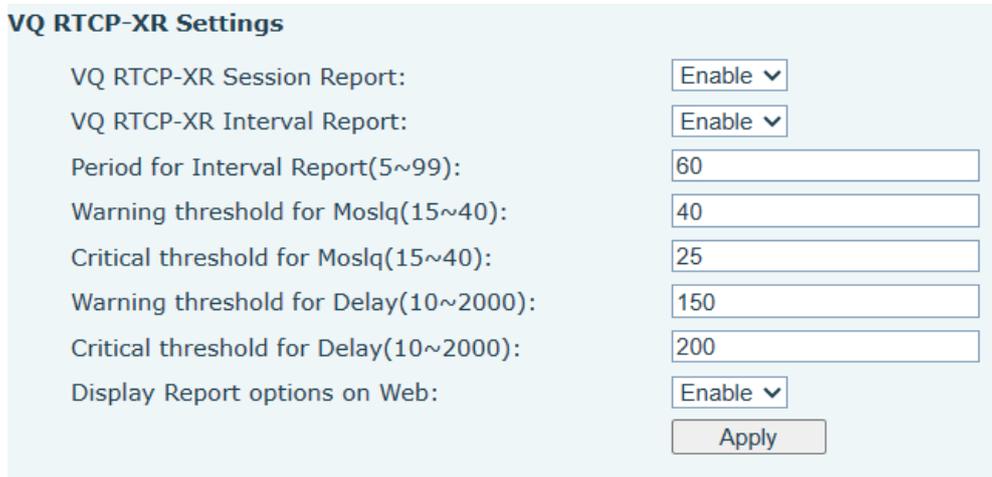


Figure 7-18-1 VQ RTCP-XR Settings Page Screenshot

Parameters	Description
VQ RTCP-XR Settings	
VQ RTCP-XR Session Report	Whether to enable VQ report sending in Session mode
VQ RTCP-XR Interval Report	Whether to enable VQ report sending in Interval mode
Period for Interval Report	The interval at which VQ reports are sent periodically
Warning threshold for Moslq	When the device calculates that the Moslq value x10 is below the set threshold, it issues a warning report
Critical threshold for Moslq	When the device calculates that the Moslq value x10 falls below the set threshold, a critical report is issued
Warning threshold for delay	When the device calculates that the Moslq value x10 is higher the set threshold, it issues a warning report
Critical threshold for delay	When the device calculates that the one-way delay is greater than the set threshold, a critical report is issued
Display report options on Web	Whether to display the VQ report data of the last call through the web

7.19 Hotspot Managed Extension

Log in to the device webpage and visit the **Line >> Hotspot Managed Extension** page.

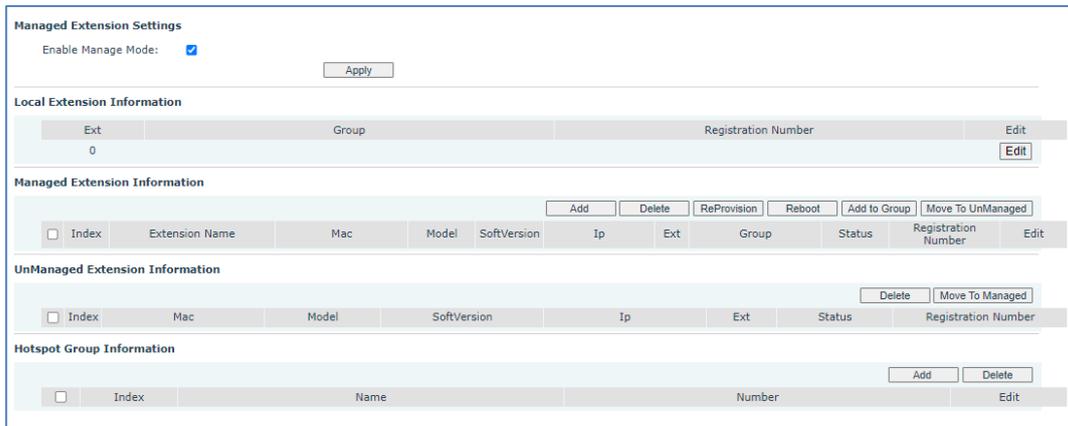


Figure 7-19-1 Hotspot Managed Extension Settings Page Screenshot

Parameter	Description
Hotspot managed extension settings	
Enable Manage Mode	Enable the extension manage mode, and only devices added to the managed extension information can be used as extensions
Local Extension Information	
Ext	The extension number of the device
Group	The group to which the device belongs
Edit	Edit the device so that it belongs or does not belong to any group
Managed Extension Information	
Index	Displays the sequence number of the extension
Extension Name	Displays the name of the extension
Ext	The extension number of the extension
Status	Displays the current status of the extension
Registration Number	Displays the registration number of the extension
Edit	Click to edit the extension, group, line custom number, and other information of the extension
Add	Click Add to manually add extension information
ReProvision	You can upgrade the version to the selected extension
Add to Group	You can add selected extensions to selected groupings
Move To UnManaged	You can move selected extensions to the Unmanaged Extensions list
UnManaged Extension Information	
Move To Managed	You can move selected extensions to the Managed Extensions list
Hotspot Group Information	
Index	Displays the ordinal number of the group
Name	Displays the name of the group
Number	Displays the number of the group
Add	Click to add new group information

7.20 Device Settings >> Features

Configuration device features.

Parameters	Description
Basic Settings	
Enable Auto Onhook	The device will hang up and return to the idle automatically in hands-free mode
Auto Onhook Time	The device will hang up and return to idle automatically after Auto Hand down time in hands-free mode, and play dial tone Auto Onhook time in handset mode
Enable Silent Mode	When enabled, the device is muted, there is no ringing when called, you can use the volume keys and mute key to unmute.
Disable Mute for Ring	When it is enabled, you can't mute the device.
Enable Default Line	If enabled, user can assign default SIP line for dialing out rather than SIP1.
Enable Auto Switch Line	Enable device to select an available SIP line as default automatically
Default Ext Line	Select the default line to use for outgoing calls
Ban Outgoing	If you enable Ban Outgoing, you cannot dial out any number.
Hide DTMF	Configure the hide DTMF mode.
Enable CallLog	Select whether to save the call log.
Enable Restricted Incoming List	Whether to enable restricted call list.
Enable Allowed Incoming List	Whether to enable the allowed call list.
Enable Restricted Outgoing List	Whether to enable the restricted allocation list.
Enable Country Code	Whether the country code is enabled.
Country Code	Fill in the country code.
Area Code	Fill in the area code.
Enable Number Privacy	Whether to enable number privacy.
Match Direction	Matching direction, there are two kinds of rules from right to left and from left to right.
Start Position	Open number privacy after the start of the hidden location.
Hide Digits	Turn on number privacy to hide the number of digits.
Allow IP Call	If enabled, user can dial out with IP address

P2P IP Prefix	Prefix a point-to-point IP call.
Caller Name Priority	Change caller ID display priority.
Search path	Select the search path.
LDAP Search	Select from with one LDAP for search
Emergency Call Number	Despite the locked keyboard, you can dial the emergency call number.
Restrict Active URI Source IP	Set the device to accept Active URI command from specific IP address.
Push XML Server	Configure the Push XML Server, when device receives request, it will determine whether to display corresponding content on the device which sent by the specified server or not.
Enable Pre-Dial	Deactivate this feature; entering a number by the user will not automatically open the audio channel. Activate the feature; users can enter a number without automatically opening the audio channel.
Enable Multi Line	If enabled, up to 10 simultaneous calls can exist on the device, and if disabled, up to 2 simultaneous calls can exist on the device.
Line Display Format	Custom line format: SIPn/SIPn: xxx/xxx@SIPn
Contact As White List Type	NONE/BOTH/DND White List/FWD White List
Block XML When Call	Disable XML push on call.
SIP notify	When enabled, the device displays the information when it receives the relevant notify content.
Call Number Filter	Set up a configuration to filter out the special character ampersand (&) when calling a caller whose number is 78&9.
Auto Resume Current	If the current path changes, the HOLD is lifted automatically.
Call Timeout	Specify the duration after which the call will automatically hang up.
Ring Timeout	Ring duration of an incoming call
Enable Push XML Auth	After this function is enabled, push xml requires user name and password authentication.
Description	Description displayed on the IP scan tool
Tone Settings	
Enable Holding Tone	When turned on, a tone plays when the call is held.
Enable Call Waiting Tone	When turned on, a tone plays when call waiting.

Play Dialing DTMF Tone	Enable the default setting to play DTMF tones on the device when users press phone digits during dialing.
Play Talking DTMF Tone	Enable the default setting to play DTMF tones on the device when users press phone digits during a call.
Auto Answer Tone	After this function is enabled, the automatic answer will hear a beep sound.
Ring Back Tone	Customize the outgoing call tone
Busy Tone	Customize the hang-up tone
DND Settings	
DND Option	Select to take effect on the line or on the device or close.
Enable DND Timer	If enabled, the DND is automatically turned on from the start time to the off time.
DND Start Time	Set DND Start Time
DND End Time	Set DND End Time
Intercom Settings	
Enable Intercom	When intercom is enabled, the device will accept the incoming call request with a SIP header of Alert-Info instruction to automatically answer the call after specific delay.
Enable Intercom Mute	Enable mute mode during the intercom call
Enable Intercom Tone	If the incoming call is intercom call, the device will play the intercom tone.
Enable Intercom Barge	The device auto answers the intercom call during a call. If the current call is intercom call, the device will reject the second intercom call.
Response Code Settings	
DND Response Code	Set the SIP response code on call rejection on DND
Busy Response Code	Set the SIP response code on line busy
Reject Response Code	Set the SIP response code on call rejection
Password Dial Settings	
Enable Password Dial	When number entered begins with the password prefix, the following N numbers after the password prefix will be hidden as *, N stands for the value which you enter in the Password Length field. For example, you set the password prefix is 3, enter the Password Length is 2, and then you enter the number 34567. It will display 3**67 on the device.
Encryption Number Length	Configure the Encryption Number length

Password Dial Prefix	Configure the prefix of the password call number
Notification Popups	
Display Missed Call Popup	No incoming call popup prompt after opening, no popup prompt when closing, open by default.
Display MWI Popup	Voice message popup prompt is not answered after opening, and it is opened by default if there is no popup prompt when closing.
Display SMS Popup	There is popup prompt for unread messages after opening, and there is no popup prompt when closing. It is opened by default.
Display Other Popup	When the handle is not hung back after opening, registration fails, IP acquisition fails, Tr069 connection fails and other abnormalities, there will be popup prompt when it is opened; otherwise, there will be no prompt when it is closed, and it will be opened by default.

7.21 Device Settings >> Media Settings

Change audio and video-related settings.

Parameter	Description
Codecs Settings	Select enable or disable voice encoding: G.711A/U, G.722, G.723.1, G.726-16/24/32/40, G.729AB, ILBC, opus, MPA
Video codec	
Video codec	Select to enable video encoding:H264
Media Setting	
Default Ring Type	If no special ringtone is set for the phone number, the default ringtone will be used.
Speakerphone Volume	Set the hands-free volume to 1-9
Speakerphone Ring Volume	Set the volume of hands-free ringtone to 0~9
Speakerphone Signal Tone Volume	Set the volume of hands-free tone to 1~9
G.723.1 Bit Rate	5.3kb/s or 6.3kb/s is available
AMR Payload Type	Enter the AMR payload type, the value must be 96~127
DTMF Payload Type	Enter the DTMF payload type, the value must be 96~127.
Headset Mic Gain	Set the earphone's radio volume gain to fit different models of earphones.
Opus Payload type	Set Opus load type, range 96~127.
OPUS Sample Rate	Set Opus sampling rate, including opus-nb (8KHz) and opus-wb (16KHz).
ILBC Payload Type	Set the ILBC Payload Type, the value must be 96~127.
ILBC Payload Length	Set the ILBC Payload Length
Enable VAD	Whether voice activity detection is enabled.
Enable Voice Mail Tone	When there is a new voice message, the phone will start a special dial tone
RTP Detection Timeout	If no RTP is received at the specified time, the call will end automatically
Enable the patting spring to generate Flash	Whether to turn on the plug spring to generate Flash
Video bit rate	Set the bit rate of video: 64kbps, 192kbps, 256kbps, 384kbps, 512kbps, 768kbps, 1Mbps, 1.6Mbps, 2Mbps, 3Mbps and 4Mbps

Video frame rate	Set the video frame rate: 5fps, 10fps, 15fps, 20fps, 25fps and 30fps
Video resolution	Set Video resolution: CIF,VGA,4CIF,720P,1080P
H.264 Payload Type	Set the H264 Payload Type; the value must be 96~127.
Video Direction	Send only: To set up a video call, the SDP package in the invite package is sendonly. Send recv: Set up a call. The SDP package in the invite package is send recv
RTP Control Protocol(RTCP) Settings	
CNAME user	Set CNAME user
CNAME host	Set CNAME host
RTP Settings	
RTP keep alive	Hold the call and send the packet after 30s
Alert Info Ring Settings	
Value	Set the value to specify the ring type.
Line	Select the line to use for incoming calls
Ring Type	1.wav-7.wav, Default, None

7.22 Device Settings >> MCAST

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

Parameters	Description
Enable Prio Chan	Define the priority of the active call, 1 is the highest priority, 10 is the lowest.
Enable Emer Chan	When enabled, channel 11 has the highest priority
Multicast Tone	Set the tone that plays when multicast is received

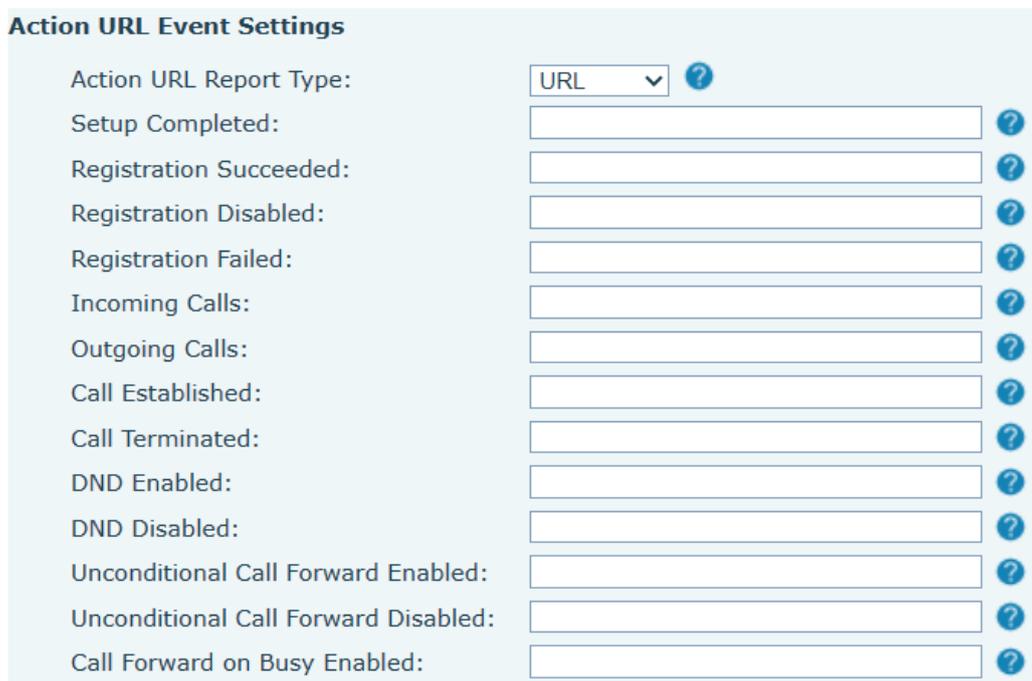
7.23 Device Settings >> Action

Action URL

Action urls are used for IPPBX systems to submit device events.

Action URL setting: Configure the URL to report the action to the server, for example, fill in the URL:

http://InternalServer/FileName.xml? (Internal Server is the IP address of the server, File Name is the xml file name of the action reported on the storage device).



Action URL Event Settings		
Action URL Report Type:	URL	?
Setup Completed:	<input type="text"/>	?
Registration Succeeded:	<input type="text"/>	?
Registration Disabled:	<input type="text"/>	?
Registration Failed:	<input type="text"/>	?
Incoming Calls:	<input type="text"/>	?
Outgoing Calls:	<input type="text"/>	?
Call Established:	<input type="text"/>	?
Call Terminated:	<input type="text"/>	?
DND Enabled:	<input type="text"/>	?
DND Disabled:	<input type="text"/>	?
Unconditional Call Forward Enabled:	<input type="text"/>	?
Unconditional Call Forward Disabled:	<input type="text"/>	?
Call Forward on Busy Enabled:	<input type="text"/>	?

Figure 7-23-1 Action URL Settings Page Screenshot

7.24 Device Settings >> Time/Date

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

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

7.25 Device Settings >> Time plan

Users can configure the time plan to restart and upgrade device.

parameter	description
Type	Timed restart, timed upgrade, timed forward
Repetition period	Do not repeat: execute once within the set time range Daily: Perform this operation at the same time every day Weekly: Perform this operation at the same time of the week Monthly: Perform this operation at the same time of the Month
Effective time	Set the operation time
Forward Number	Set the SIP number for forwarding in the time range
Line	Set the line for forwarding in the time range

Time Plan List: [?](#)

<input type="checkbox"/>	Index	Name	Type	Special configure	Repetition period	Effective time
<input type="checkbox"/>	1	Test	Timed upgrade		Weekly(SUN;)	20:00-23:00

Figure 7-25-1 Time Plan Settings Page Screenshot

By setting a time pause list, users can set a date when time plan is temporarily unavailable.

Time Plan Pause:

Name:

Start time:

Stop time:

Time Plan Pause List:

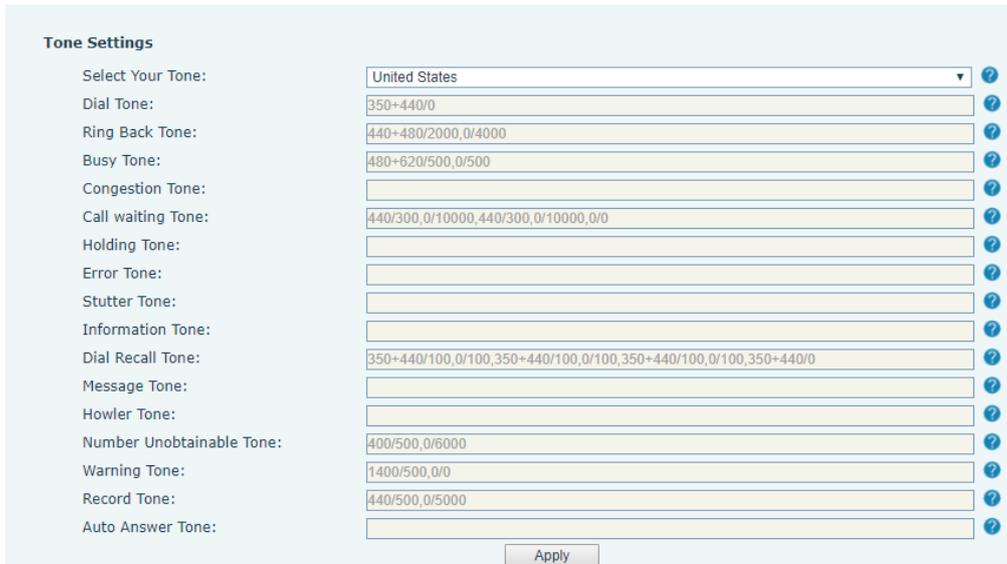
<input type="checkbox"/>	Index	Name	Start time	Stop time
<input type="checkbox"/>	1	Pause	2023/08/01	2023/08/15

Figure 7-25-2 Time Plan Pause Settings Page Screenshot

7.26 Device Settings >> Tone

This page allows users to configure a device prompt.

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



Tone Settings

Select Your Tone:	United States	?
Dial Tone:	350+440/0	?
Ring Back Tone:	440+480/2000,0/4000	?
Busy Tone:	480+620/500,0/500	?
Congestion Tone:		?
Call waiting Tone:	440/300,0/10000,440/300,0/10000,0/0	?
Holding Tone:		?
Error Tone:		?
Stutter Tone:		?
Information Tone:		?
Dial Recall Tone:	350+440/100,0/100,350+440/100,0/100,350+440/100,0/100,350+440/0	?
Message Tone:		?
Howler Tone:		?
Number Unobtainable Tone:	400/500,0/6000	?
Warning Tone:	1400/500,0/0	?
Record Tone:	440/500,0/5000	?
Auto Answer Tone:		?

Figure 7-26-1 Tone Settings Page Screenshot

7.27 Device Settings >> Advanced

User can configure the advanced configuration settings in this page.

- Screen Configuration.
 - Enable Energy Savings
 - Backlight Time
 - Screen Saver
- LCD Menu Password Settings.
- Configure Greeting Words

The greeting message will display on the top left corner of the LCD when the device is idle, which is limited to 16 characters.

7.28 Call List >> Contact

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

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

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

To delete one or multiple contacts, check the checkbox in front of the contacts you wish to delete. Afterward, click the "Delete" button. Alternatively, to clear the entire phonebook, click the "Clear" button without selecting any contacts.

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

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

7.29 Call List >> Cloud phonebook

Cloud Phonebook

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

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

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

LDAP Settings

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

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

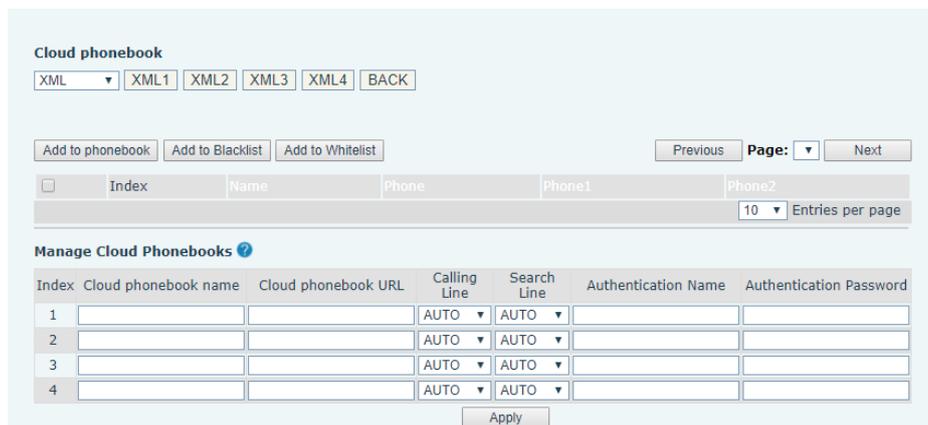
To configure a LDAP phonebook, the following information should be entered,

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

Web page preview

Phone page supports preview of Internet phone directory and contacts

- After setting up the XML VoIP directory or LDAP,
- Select [Call List] >> [Cloud phonebook] >> [Cloud phonebook] to select the type.
- Click the set XML/LDAP to download the contact for browsing.



Index	Cloud phonebook name	Cloud phonebook URL	Calling Line	Search Line	Authentication Name	Authentication Password
1	<input type="text"/>	<input type="text"/>	AUTO	AUTO	<input type="text"/>	<input type="text"/>
2	<input type="text"/>	<input type="text"/>	AUTO	AUTO	<input type="text"/>	<input type="text"/>
3	<input type="text"/>	<input type="text"/>	AUTO	AUTO	<input type="text"/>	<input type="text"/>
4	<input type="text"/>	<input type="text"/>	AUTO	AUTO	<input type="text"/>	<input type="text"/>

Figure 7-29-1 Cloud Phonebook Settings Page Screenshot

7.30 Call List >> Call List

■ Restricted Incoming Calls :

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

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

■ Allowed Incoming Calls:

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

■ Restricted Outgoing Calls :

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

7.31 Call List >> Web Dial

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

7.32 Call List >> Advanced

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

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

 Note	If the user imports the same phonebook repeatedly, the same contact will be ignored. If the name is the same but the number is different, the contact is created again.
---	---

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

7.33 Call Logs

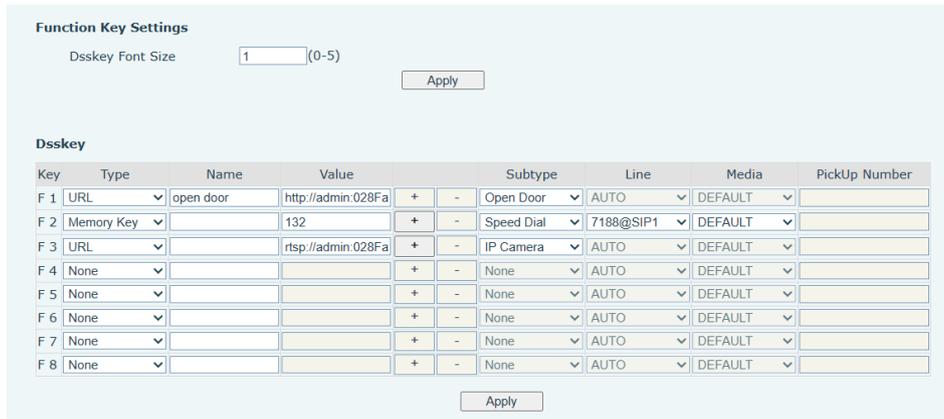
The user can browse the complete call record in this page. The call record can be sorted by time, call number, contact name or line, and the call record can be screened by call record type (incoming call, outgoing call, missed call, forward call).

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

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

7.34 Function Key >> Side Key

The function key font size can be adjusted, and the side keys' font size displayed on the screen will take effect immediately after submission.



Function Key Settings

Dsskey Font Size: (0-5)

Dsskey

Key	Type	Name	Value			Subtype	Line	Media	PickUp Number
F 1	URL	open door	http://admin:028Fa	+	-	Open Door	AUTO	DEFAULT	
F 2	Memory Key		132	+	-	Speed Dial	7188@SIP1	DEFAULT	
F 3	URL		rtsp://admin:028Fa	+	-	IP Camera	AUTO	DEFAULT	
F 4	None			+	-	None	AUTO	DEFAULT	
F 5	None			+	-	None	AUTO	DEFAULT	
F 6	None			+	-	None	AUTO	DEFAULT	
F 7	None			+	-	None	AUTO	DEFAULT	
F 8	None			+	-	None	AUTO	DEFAULT	

Figure 7-34-1 Function Key Settings Page Screenshot

The device has 8 side keys, and the user can configure each side key on the web page.

Parameters	Description
Function Key Settings	
Dsskey Font Size	0-5, the default is 1
Dsskey	
Memory Key	<p>Speed Dial: You can call the number directly which you set. This feature is convenient for you to dial the number which you frequently dialed.</p> <p>Intercom: This feature allows the operator or the secretary to connect the phone quickly; it is widely used in office environments.</p>
Line	It can be configured as a Line Key. User is able to make a call by pressing Line Key.
Key Event	User can select a key event as a shortcut to trigger. For example, MWI / DND / Release / Headset / Hold / etc.
DTMF	It allows user to dial or edit dial number easily.
URL	Open the specific URL directly.
BLF List	Displays the BLF list number for the subscription.
MCAST Paging	Configure the multicast address and voice encoding that the user can press to initiate multicast.
Action URL	The user can use a specific URL to make basic calls to the device.
Mcast Listening	When there is RTP, press the button to listen to the multicast.

7.35 Function Key >> Advanced

■ IP Camera List

Support to discover the IP Camera in local area network. After scanning, you can bind the camera to the function key and press it to view video.

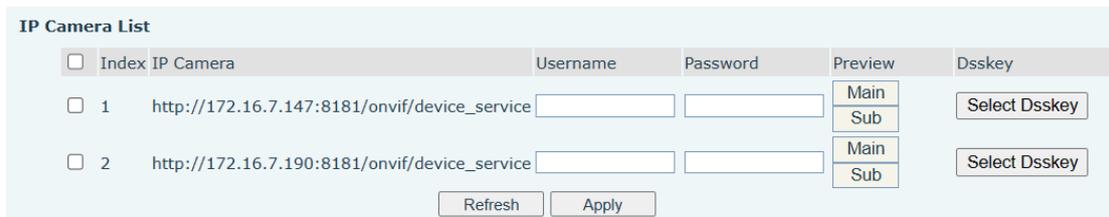


Figure 7-35-1 IP Camera List Settings Page Screenshot

■ Advanced Settings

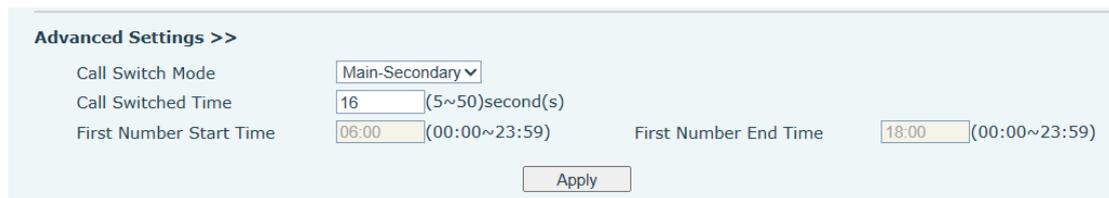
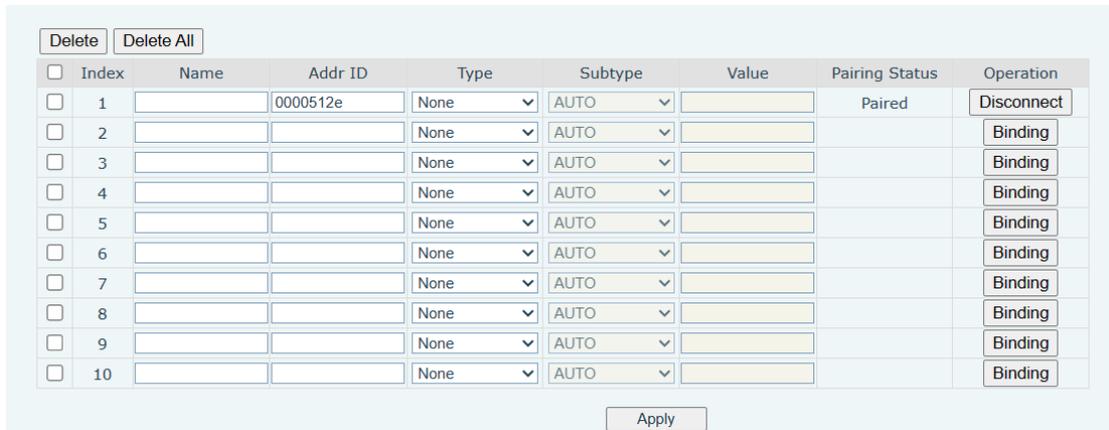


Figure 7-35-2 Advanced Settings Page Screenshot

Parameters	Description
Advanced Settings	
Call Switch Mode	Number 1 to call number 2 mode selection. <Main/Secondary >: If the first number is not answered within the set time, it will automatically switch to call the second number <Time Period>: The system time is automatically detected during the call, and the first number is called if it is within the time period of number 1, otherwise the second number is called
Call Switched Time	Set the time for number 1 to call number 2, which is 16 seconds by default
First Number Start Time	The start time of number 1 when defining the time period pattern. Default "06:00"
First Number End Time	The end time of number 1 when defining the time period pattern. The default is "18:00"

7.36 Function Key >> Wireless Key



<input type="checkbox"/>	Index	Name	Addr ID	Type	Subtype	Value	Pairing Status	Operation
<input type="checkbox"/>	1		0000512e	None	AUTO		Paired	Disconnect
<input type="checkbox"/>	2			None	AUTO			Binding
<input type="checkbox"/>	3			None	AUTO			Binding
<input type="checkbox"/>	4			None	AUTO			Binding
<input type="checkbox"/>	5			None	AUTO			Binding
<input type="checkbox"/>	6			None	AUTO			Binding
<input type="checkbox"/>	7			None	AUTO			Binding
<input type="checkbox"/>	8			None	AUTO			Binding
<input type="checkbox"/>	9			None	AUTO			Binding
<input type="checkbox"/>	10			None	AUTO			Binding

Figure 7-36-1 Wireless Key Settings Page Screenshot

Parameter	Description
Name	Set the wireless key name
Addr id	The unique identification ID of the wireless button, the addrids of each wireless button are unique (ID is displayed in hexadecimal, only numbers and letters are supported, special characters are not supported)
Type	Select the function type of wireless button, including Ring, Dial number
Subtype	When Type is Ring, the subtype displays the ringtone selection. When Type is Dial number, the subtype displays Line selection.
Value	When Type is Dial number, the value can be edited to speed dial number;
Pairing Status	Displays pairing status, including pairing, paired, disconnected
Operation	Bind or disconnect the button

Pairing methods:

- Enter the addr ID manually

Log in to the IP address of the device, enter the **[Function Key] >> [Wireless Key]** to add a key information. When adding a key, the user needs to fill in the name, addr id (unique identification of different keys), type, subtype, and value (optional) of the new key. After filling in, click Bind or Submit, and the device will be paired with the Addr ID device. If the status shows Paired, the new key is successfully added.

- Automatically scan addr IDs

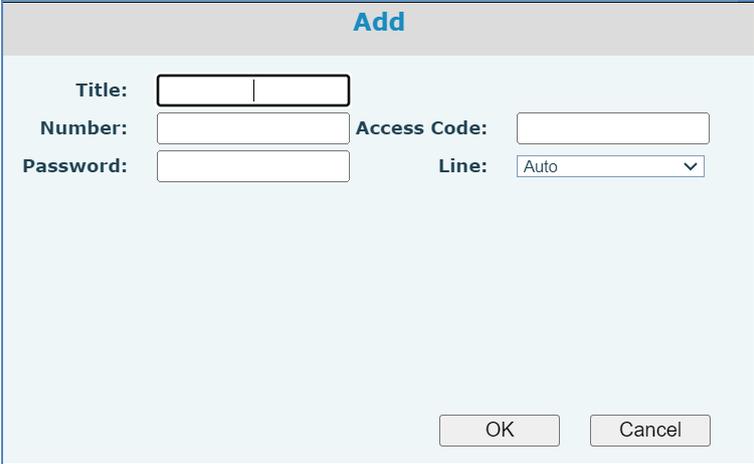
Log in to the IP address of the device and go to **[Function Key] >> [Wireless Key]**. Add a new button: Click Binding in the list, the device will enter the pairing state. Open the wireless key and press it shortly, the pairing status of the device web page changes to Paired and displays the addr ID of the key, indicating that the pairing was successful.

If the pairing is not successful after pressing the key once, you can try to press the wireless key several times to avoid pairing failure due to information loss.

After successful pairing, users can fill in the name, type, subtype, and value (optional) of the new button, and click Apply to save them.

7.37 Application >> Doorphone Settings

Log in to the device webpage, enter [Application] >> [Doorphone Settings], and add, delete, or modify the password of the doorphone.



The screenshot shows a web form titled "Add" for configuring a doorphone. The form contains the following fields:

- Title:** A text input field.
- Number:** A text input field.
- Access Code:** A text input field.
- Password:** A text input field.
- Line:** A dropdown menu currently set to "Auto".

At the bottom right of the form are two buttons: "OK" and "Cancel".

Figure 7-37-1 Doorphone Settings Page Screenshot

7.38 Security >> Web Filter

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

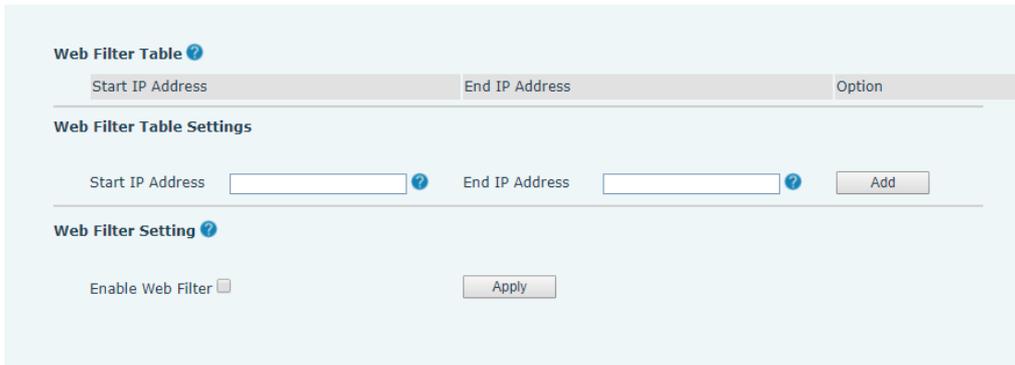


Figure 7-38-1 Web Filter Settings Page Screenshot



Start IP Address	End IP Address	Option
172.16.12.14	172.16.12.24	Modify Delete

Figure 7-38-2 Web Filter Table Page Screenshot

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

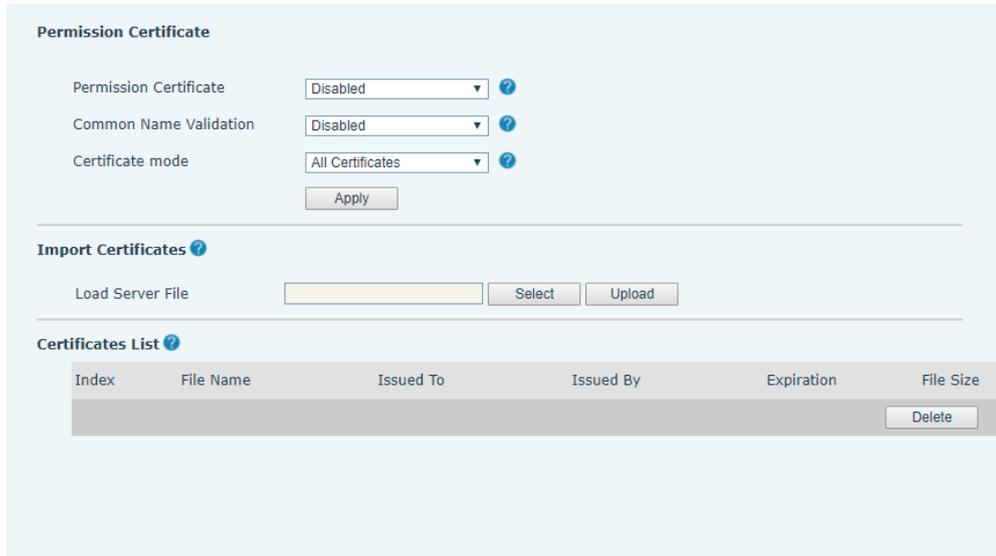
Enable web page filtering: configure enable/disable web page access filtering; click the "apply" button to take effect.



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

7.39 Security >> Trust Certificates

Set whether to open license certificate and general name validation, select certificate module. You can upload and delete uploaded certificates.



Permission Certificate

Permission Certificate: Disabled

Common Name Validation: Disabled

Certificate mode: All Certificates

Apply

Import Certificates

Load Server File: Select Upload

Certificates List

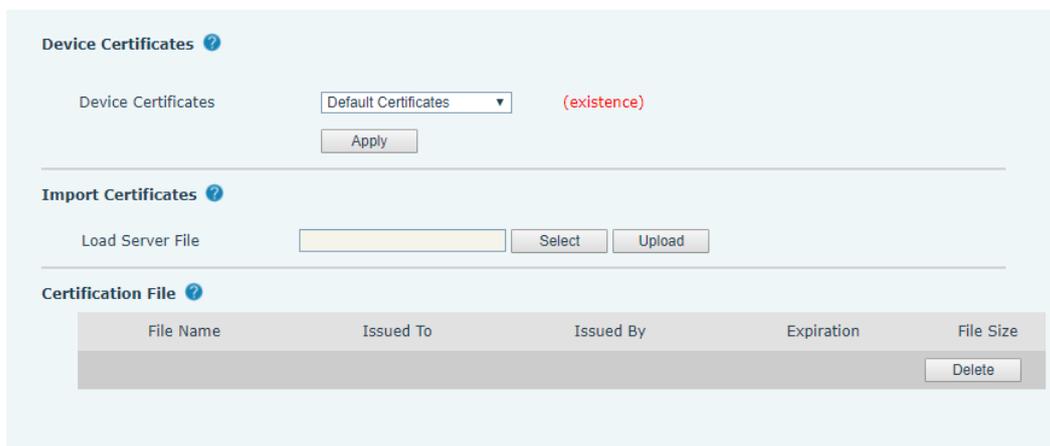
Index	File Name	Issued To	Issued By	Expiration	File Size
					Delete

Figure 7-39-1 Certificate Settings Page Screenshot

7.40 Security >> Device Certificates

Select the device certificate as the default and custom certificate.

You can upload and delete uploaded certificates.



Device Certificates

Device Certificates: Default Certificates (existence)

Apply

Import Certificates

Load Server File: Select Upload

Certification File

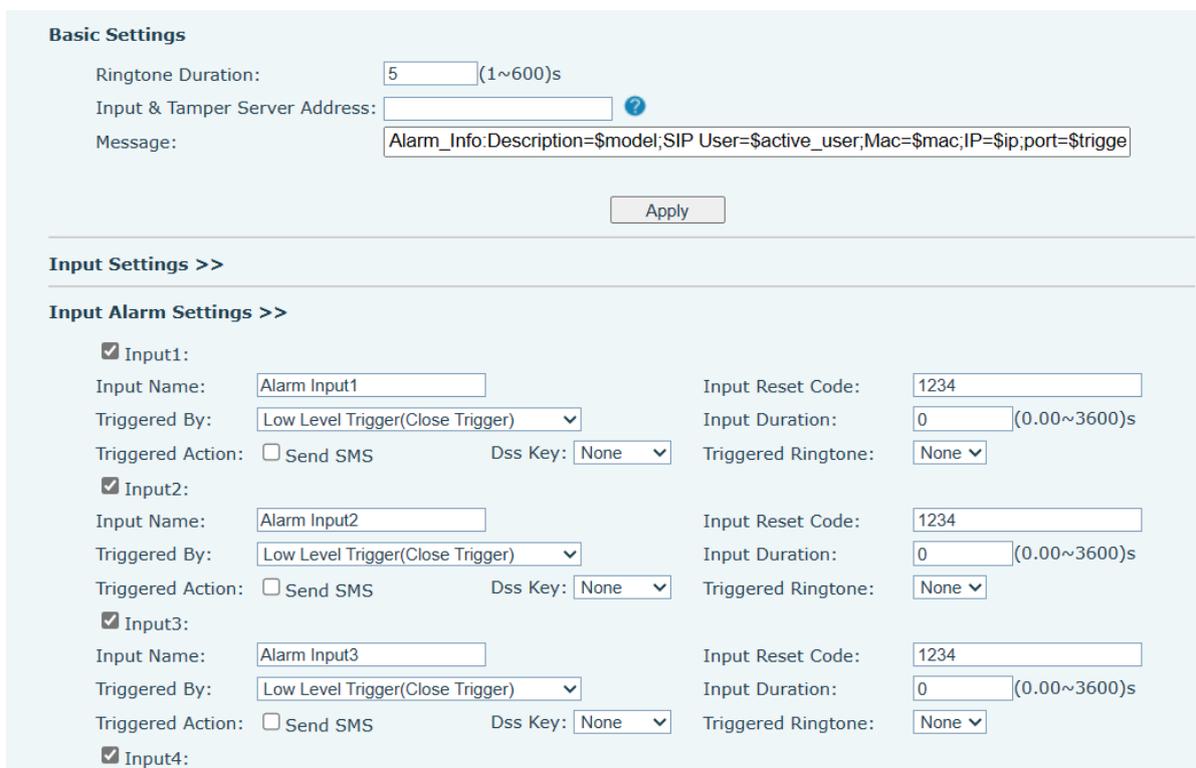
File Name	Issued To	Issued By	Expiration	File Size
				Delete

Figure 7-40-1 Device Certificates Settings Page Screenshot

7.41 Device Log >> Device Log

You can grab the device log, and when you encounter an abnormal problem, you can send the log to the technician to locate the problem. See [12.6 Get log information](#).

7.42 Security Settings



Basic Settings

Ringtone Duration: (1~600)s

Input & Tamper Server Address: ⓘ

Message:

Input Settings >>

Input Alarm Settings >>

Input1:

Input Name: Input Reset Code:

Triggered By: Input Duration: (0.00~3600)s

Triggered Action: Send SMS Dss Key: Triggered Ringtone:

Input2:

Input Name: Input Reset Code:

Triggered By: Input Duration: (0.00~3600)s

Triggered Action: Send SMS Dss Key: Triggered Ringtone:

Input3:

Input Name: Input Reset Code:

Triggered By: Input Duration: (0.00~3600)s

Triggered Action: Send SMS Dss Key: Triggered Ringtone:

Input4:

Figure 7-40-1 Input / Output Settings Page Screenshot

Parameter	Description
Basic Settings	
Ringtone Duration	The duration of the alarm bell
Input & Tamper Server Address	Configure the remote response server address (including the remote response server address and the alarm trigger server address). When the input port is triggered, a short message will be sent to the server, the message format is as follows for example: Alarm_Info: Description=VTS-700WP;SIP User=xx; Mac= 00:30:4f:a0:00:44; IP=172.16.7.189; port=Input

Input Settings	
Input	Enable or disable the input port
Triggered By	When low level trigger (closed trigger) is selected, the detection input port (low level) closes trigger.
	When the high level trigger (disconnect trigger) is selected, the detection input port (high level) disconnect trigger.
Input Name	Set the name and type of the sensor connected to the input port
Input Reset Code	After the alarm is triggered, enter the reset code to stop the alarm.
Input Duration	If it is triggered for a specified period of time, perform actions such as sending short messages.
Send SMS	Enable or disable the input port to send messages to the server
Dss Key	When settingh to dsskey1 or dsskey2, trigger dsskey to make a call; the default is none
Triggered Ringtone	Supports ringtone selection
Output Settings	
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	Enable or disable Output
Standard Status	When choosing the low level trigger (NO: normally open), and meeting the trigger condition, trigger the NO port will be disconnected.
Output Duration	Set the output change duration time; the default is 5 seconds.
Trigger by input	When the input port meets the trigger condition, the output port will trigger (the port level time changes, controlled by <output duration>).
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.
Trigger by SMS	Enable or disable 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.
Trigger by Input	Select the input port. When the input port meets the trigger condition, the output port will be triggered (The Port level time change, By < Output Duration > control)
Trigger by Call State	Select call state to trigger the output port; options are: Talking: When the device's talking status changes, trigger the output port. Ringing: When the device's ringing status changes, trigger the output port. Calling: When the device's calling status changes, trigger the output port.
Trigger by DssKey	Enable or disable trigger by dsskey. If any of the dsskey is selected and 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

Chapter 8. Troubleshooting

When the device is not in normal use, the user can try the following methods to restore normal operation of the device or collect relevant information and send a problem report to Planet technical support mailbox.

8.1 Get Device System Information

Users can get information by pressing the **[Menu]** >> **[Status]** option in the device.

The following information will be provided:

The network information

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

8.2 Reboot Device

Users can reboot the device from menu -- **[Menu]** >> **[Basic]** >> **[Reboot System]**, and press **[Reboot]**, or simply remove the power supply and restore it again.

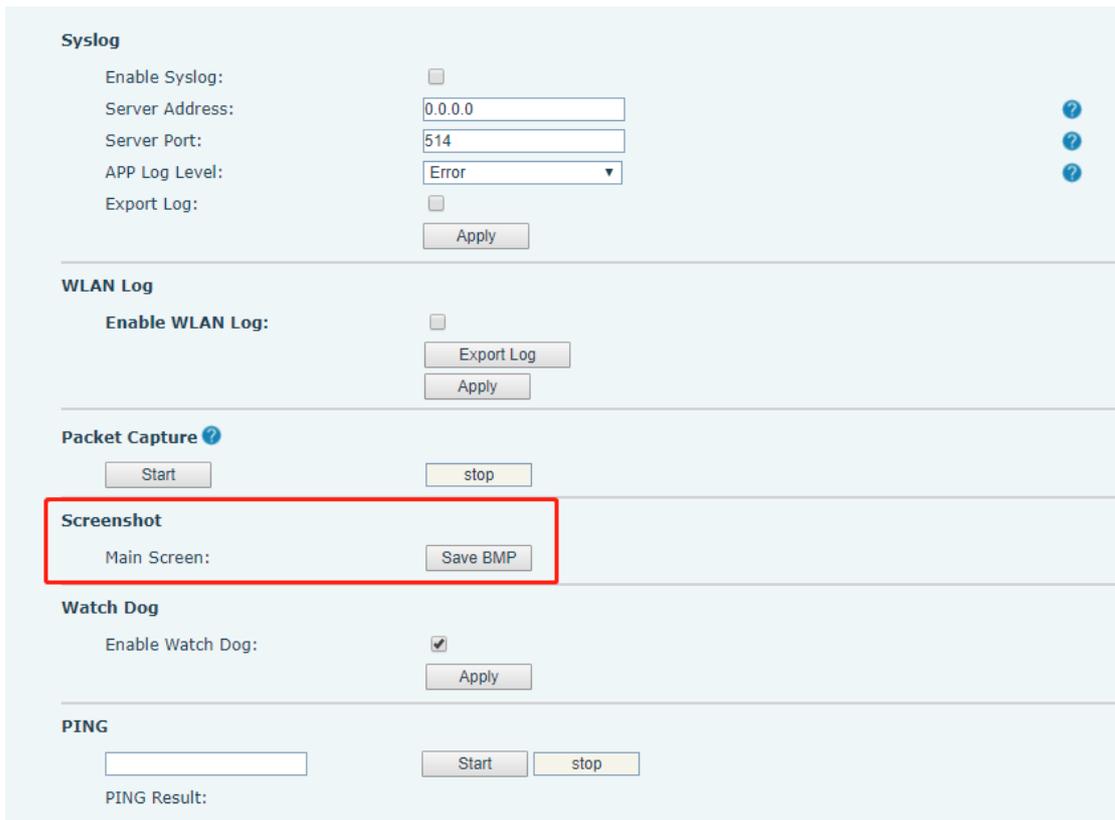
8.3 Reset Device to Factory Default

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

To perform a factory default reset, user should press **[Menu]** >> **[Advanced]**>> **[Maintenance]**. Then choose **[Factory Reset]** and choose the information you want to clear. The device will be rebooted into a clean factory default state.

8.4 Screenshot

If there is a problem with the device, the screenshot can help the technician locate the function and identify the problem. In order to obtain screen shots, log in the device webpage [**System**] >> [**Tools**], and you can capture the pictures of the main screen (you can capture them in the interface with problems).



Syslog

Enable Syslog:

Server Address: ?

Server Port: ?

APP Log Level: ?

Export Log:

WLAN Log

Enable WLAN Log:

Packet Capture ?

Screenshot

Main Screen:

Watch Dog

Enable Watch Dog:

PING

PING Result:

Figure 8-4-1 Screenshot Settings Page Screenshot

8.5 Network Packets Capture

Sometimes it is helpful to dump the network packets of the device for issue identification. To get the packets dump of the device, user needs to log in the device web portal, open page **[System]** >> **[Tools]** and click **[Start]** in “LAN Packets Capture” section. A pop-up message will be prompt to ask user to save the capture file. User then should perform relevant operations such as activating/deactivating line or making device calls and clicking the **[Stop]** button in the web page when operation is finished. The network packets of the device during the period have been dumped to the saved file.

Syslog

Enable Syslog:

Server Address:

Server Port:

APP Log Level: ▼

Export Log:

WLAN Log

Enable WLAN Log:

WLAN Packet Capture

LAN Packet Capture ?

Screenshot

Main Screen:

Figure 8-5-1 Packet Capture Settings Page Screenshot

8.6 Get Log Information

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

8.7 Common Trouble Cases

Trouble Case	Solution
Device could not boot up	<ol style="list-style-type: none"> 1. The device is powered by external power supply via power adapter or PoE switch. Please use PoE switch met with the specification requirements and check if device is well connected to power source. 2. If you see "POST MODE" on the device screen, the device system image has been damaged. Please contact location technical support to help you restore the device system.
Device could not register to a service provider	<ol style="list-style-type: none"> 1. Please check if device is well connected to the network. The network Ethernet cable should be connected to the  [Network] port. 2. Please check if the device has an IP address. Check the system information; if the IP displays "Negotiating...", the device does not have an IP address. Please check if the network configurations is correct. 3. If network connection is fine, please check again your line configurations. If all configurations are correct, please kindly contact your service provider to get support, or follow the instructions in "8.5 Network Packet Capture" to get the network packet capture of registration process and send it to Planet support to analyze the issue.