



User's Manual

7" Smart Media Android SIP
Conference Phone with Full
HD Camera and Touch Screen

► ICF-2000





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CE Mark Warning

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

Energy Saving Note of the Device

This power required device does not support Standby mode operation. For energy saving, please remove the DC-plug or push the hardware Power Switch to OFF position to disconnect the device from the power circuit.



Without removing the DC-plug or switching off the device, the device will still consume power from the power circuit. In view of Saving the Energy and reducing the unnecessary power consumption, it is strongly suggested to switch off or remove the DC-plug from the device if this device is not intended to be active.

WEEE Warning



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

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Revision

User's Manual of PLANET High Definition Color Touch Screen Smart Media Android SIP Conference Phone

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Safety Instructions

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

- Please use the external power supply that is included in the package. Other power supply may cause damage to the phone and affect the behavior or induce noise.
- Before using the external power supply in the package, please check the home power voltage.
 Inaccurate power voltage may cause fire and damage.
- Please do not damage the power cord. If power cord or plug is impaired, do not use it because it
 may cause fire or electric shock.
- Do not drop, knock or shake the phone. Rough handling can break internal circuit boards.
- This phone is designed for indoor environment. Do not install the device in places where there is direct sunlight. Also do not put the device on carpets or cushions. It may cause fire or breakdown.
- Avoid exposure the phone to high temperature or below 0°C or high humidity.
- Avoid wetting the unit with any liquid.
- Do not attempt to open it. Non-expert handling of the device could damage it. Consult your authorized dealer for help, or else it may cause fire, electric shock and breakdown.
- Do not use harsh chemicals, cleaning solvents, or strong detergents to clean it. Wipe it with a soft cloth that has been slightly dampened in a mild soap and water solution.
- When lightning, do not touch power plug, it may cause an electric shock.
- Do not install this phone in an ill-ventilated place. You are in a situation that could cause bodily
 injury. Before you work on any equipment, be aware of the hazards involved with electrical circuitry
 and be familiar with standard practices for preventing accidents.

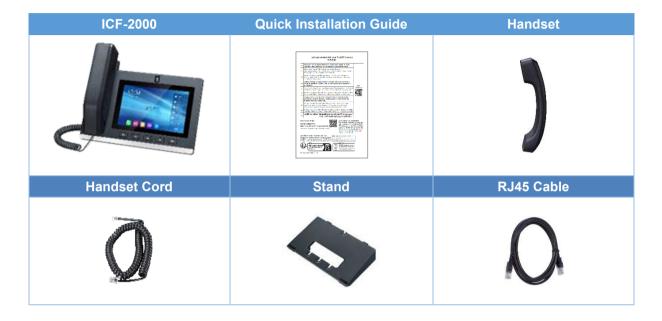


1. Overview

1.1 Packing Contents

VERIFY THE CONTENTS INSIDE THE PACKAGE BOX

The package should contain the following items plus ICF-2000.



If any item is missing or damaged, please contact the seller immediately.

1.2 Product Description

Video Conference Phone with 7-inch Touch Screen

As a high-end enterprise SIP conference phone with Android OS, PLANET ICF-2000 provides a more intelligent and smoother touch operation experience for the users.

The ICF-2000 is a 7-inch high definition color touch screen SIP conference phone with a built-in 5MP camera. This latest innovative advanced color IP multimedia phone creates an immersive, face-to-face experience over the network. Through the powerful combination of Android OS technologies and design, it supports a greater compatibility and more powerful functions. Its large display and movable icons on interface provide the direct access to frequently-used functions and intelligent touch full keypad with ease of use. Its high resolution makes video conferencing very practical, comfortable and high-quality.





Up to 20 SIP lines with 112 one-touch DSS keys on the 7-inch color touch screen, along with built-in 2.4GHz/5GHz wireless, the ICF-2000 simplifies daily communication. Furthermore, the ICF-2000 features a rotating knob that allows the camera angle to be adjusted up or down, accommodating different installation heights. It also comes with a camera privacy cover to protect user privacy. Equipped with a built-in 5MP camera, it supports 3-party video/audio mixed conferencing and 10-party audio conferencing, delivering an exceptional audio and video experience for group meetings.

New Level of Customization by Touch Screen with Multiple Function Keys

The Customizable DSS Keys feature allows users to assign commonly-used functions to designated keys, providing an easy way to streamline daily tasks. Whether it's accessing important settings, dialing frequent contacts, or activating specific phone features, users can create personalized shortcuts that cater to their unique workflow. With a **Touch Screen and Multiple Function Keys**, productivity is significantly enhanced. This customizable interface is ideal for executives or busy professionals, making communication smoother and more efficient, allowing them to focus on what matters most. This level of customization empowers users to optimize their communication processes and improve daily operational efficiency in business environments.





Bundled with audio and video applications, the ICF-2000 is an easy-to-use business video phone. It allows intuitive navigation like Android 9.0 OS smart phone to operate every function correctly. With its brilliant user experience and rich business features, it can help you make decisions faster, improve customer intimacy, scale scarce resources, and speed products to market. SOHOs, enterprises, organizations, etc. are already using it to control costs, and reinventing the SIP conference phone by merging voice, video and collaboration into one device. This highly-scalable solution is suitable for enterprise mass deployment, and in no time, everyone in the organization will immediately see the benefits of increased productivity and convenient collaboration.

HD Touch Screen Android IP Phone



High-quality G.722 HD and Opus Audio Codes

The ICF-2000 delivers high-quality audio with Harman Kardon speaker, wideband G.722 HD and opus audio codec. Both the hardware and software HD functions (HD speaker and G.722 audio codec) are the next generation of voice quality for telephony audio, making the quality of voice better than that (toll quality) of the standard digital telephony and come close to that of a room conversation. HD voice is transmitted in the audio frequency range of 50Hz to 7kHz or higher over telephone lines, resulting in higher quality voice and clearer communication. The ICF-2000 keeps bringing the most premium sound for the users.





Secure, High-quality VoIP Communication

The ICF-2000 can effortlessly deliver secure toll voice quality by utilizing cutting-edge QoS (Quality of Service) and 802.1p VLAN tagging. Using voice and data, VLAN can easily separate the data and voice, thus maintaining the best quality.



Installation Options and Applications

The ICF-2000 offers two installation options: desktop and wall mounting. Equipped with an adjustable camera, it can conduct video calls with the access control system. Users can view the access point's video feed on their phone screens, enabling remote door unlocking and other applications.

Standard Compliance and Enhanced Voice Security

The ICF-2000 supports IETE Session Initiation Protocol 2.0 (RFC 3261) with Transport Layer Security for easy integration with general voice over IP system. Meanwhile, it provides OpenVPN to enhance voice security. A VPN is created by establishing a virtual point-to-point connection. The SIP conference phone is able to broadly interoperate with equipment provided by VoIP infrastructure providers, thus enabling them to provide their customers with better multimedia exchange services.





1.3 Product Features

> Highlights

- 7-inch color touch screen with Android OS
- 5MP camera with 1080p@30fps H.264 video call
- IETE SIP compliant with Transport Layer Security
- Up to 20 SIP lines with 112 one-touch DSS keys
- Dual Gigabit and IEEE 802.3at PoE+ compliant
- Built-in 2.4G/5GHz Dual-Band Wi-Fi
- Wideband G.722 HD and Opus audio codec with handset and hands-free function
- Supports bracket installation for desktop or wall mounting.

Audio and Video Features

- 1080p@30fps HD H.264 video call
- Audio codec: Opus, G.722, G.711a/u, G.729, G.729A, G.729B, G.729AB, iLBC
- DTMF: In-band, Out-of-band (RFC 2833) and SIP info
- Full-duplex hands-free speakerphone with AEC
- Noise reduction (NR) and packet loss concealment (PLC)

Phone and Call Control Features

- Up to 3-party video/audio mixed conferencing and 10-party audio conferencing
- Direct IP call without SIP proxy or IP PBX
- Caller ID display, speed dial, do not disturb (DND)
- One-touch speed dial, hotline, black/white list call filter
- Local phonebook (2000 entries), remote phonebook (XML/LDAP, 2000 entries)
- Call logs (In/out/missed, 1000 entries)

> Network and Management

- Integrated web server provides web-based administration and configuration
- Telephone keypad configuration via display menu/navigation
- OpenVPN, VLAN and QoS support
- Auto-provisioning via FTP, TFTP, HTTP/HTTPS, DHCP OPT66, SIP PNP, TR-069



1.4 Product Specifications

Product	ICF-2000			
Interface				
Lines (Direct Numbers)	20 SIP lines			
Display and Indicators	112 one-touch DSS keys on 7-inch (1024 x 600) color touch screen 4-point multi-touch surface Screensaver and wallpaper LED indicators for call status and message waiting notifications Intuitive user interface with icons and soft keys Multilingual user interface Caller ID with name, number and photo			
Feature Keys	5 keys, including 1 x Home key 1 x Return key 2 x Volume Control keys – Up and Down 1 x Hands-free key			
Network Interfaces	Dual-port Gigabit Ethernet: Network x 1 (802.3at PoE enabled) PC x 1 (Bridged Network) Built-in Wi-Fi (2.4GHz/5Gz)			
Camera	Pixels: 5 megapixels Video Codec: H.264 Video Call Resolution: 1080p@30fps			
Connectors	RJ9 Port x 2: Handset x 1, Headset x 1 Safety keyhole x 1			
Android Bundled Applic	ations			
Operating System	Android 9.0 OS with higher security and better compatibility Files, Calendar, Gallery, Browser, Email, Calculator, Notepad, Sound Recorder, Clock, Video, Music Third-party Android application support			
Network and Provisioning	ng			
Network	IP Mode:IPv4 IP Configuration: Static / DHCP Network Access Control: 802.1x VPN: OpenVPN (Requires third-party app support) VLAN, LLDP, CDP, QoS			
Protocols	SIP2.0 over UDP/TCP/TLS, DNS A/SRV/NAPTR, RTP/RTCP/SRTP, STUN, DHCP, CDP, LLDP, 802.1x, OpenVPN (Requires third-party app			



	support), SNTP, FTP/TFTP, HTTP/HTTPS, TR-069		
Deployment & Maintenance	Auto-provisioning via FTP, TFTP, HTTP/HTTPS, DHCP OPT66, SIP PNP, TR-069 Web management portal, Telnet Encrypted configuration files download with AES Web upgrade, factory reset data The third-party communication app		
Features			
Audio Features	HD voice microphone/speaker (handset/hands-free, 0 ~ 7KHz frequency response) Wideband ADC/DAC 16KHz sampling Narrowband codec: G.711a/u, G.729, G.729A, G.729B, G.729AB, iLBC Wideband codec: G.722, Opus Full-duplex acoustic echo canceller (AEC) Noise reduction (NR) Packet loss concealment (PLC) Dynamic adaptive jitter buffer DTMF: In-band, out-of-band, DTMF-relay (RFC2833), SIP Info		
Video Features	Video decoding: H.264 Video call resolution: QVGA/CIF/VGA/4CIF/720P/1080P Image format: JPEG/PNG/BMP Video format: MP4 Bandwidth selection: 64kbps~4Mbps Frame rate selection: 5~30fps Video from remote site can be displayed in full screen 3-way video conferencing Self-view (local video preview) Built-in camera: 5 megapixels, adjustable video angle.		
Phone Features	Local Phonebook (2000 entries) Remote Phonebook (XML/LDAP, 2000 entries) Intelligent Search for Contacts and Call Log Call logs (In/out/missed, 1000 entries) Black/White List Call Filter Screen saver Message Waiting Indication (MWI) Programmable DSS/Soft keys Network Time Synchronization Built-in 2.4GHz/5GHz dual-band Wi-Fi Support Recording Action URL / Active URI UaCSTA		



	A 11 A 11 D 11		
	Audio/Video Recording		
	SIP Hotspot		
	Group Broadcasting		
	Action Plan		
	Group listening and Group Broadcasting		
	Action Plan		
	Group listening		
	Call out / Answer / Reject		
	Mute / Unmute (Microphone)		
	Call Hold / Resume		
	Call Waiting		
	Intercom		
	Caller ID Display		
	Speed Dial		
	Anonymous Call (Hide Caller ID)		
	Call Forwarding (Always/Busy/No Answer)		
0.11 5 (Call Transfer (Attended/Unattended)		
Call Features	Call Parking/Pick-up (Depending on server)		
	Redial		
	Do-Not-Disturb		
	Auto-Answering		
	Voice Message (On IP PBX or SIP server)		
	3-party video/audio mixed conferencing		
	10-party audio conferencing		
	Hot Line		
	Hot desking		
	BLF (busy lamp field)		
Environment			
	IEEE 802.3af/at PoE, 48~54V DC (Network port)		
Power Requirements	12V DC (optional external power supply)		
	PoE: 3.52~10.76W		
Power Consumption	Adapter: 2.38~8.6W		
Operating Temperature	0 ~ 45 degrees C		
Operating Humidity	10 ~ 95% (non-condensing)		
Weight	760 g		
	Desktop Stand (Angle 1): 265 x 172.1 x 145.2 mm		
	Desktop Stand (Angle 2): 265 x 161.7 x 154.5 mm		
Dimensions (W x D x H)	Wall Mount: 265 x 78.6 x 184 mm		
	Without Stand: 264.97 x 70.58 x 216.71 mm		
Emission	CE, FCC, RoHS		

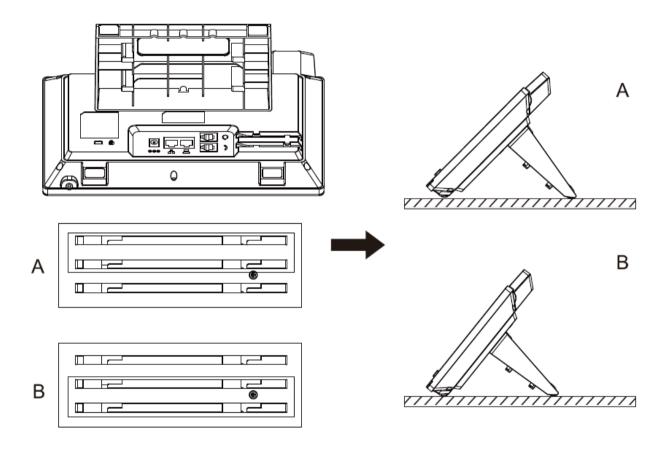


2. Install Guide

2.1 Installing the phone

2.1.1 Desktop

Attach the stand to the holes on the back of the phone to prop it up on the desk.

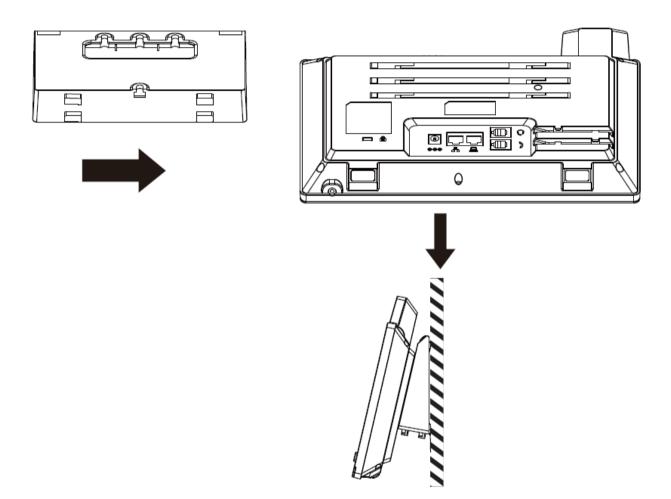


Picture: Desktop phone installation



2.1.2 Wall mounting

Attach the stand to the holes on the back of the phone as if it were secured to the back of the device. Get a couple of hooks and hammer them into a wall. Then hang the phone on the wall with the help of the hooks.



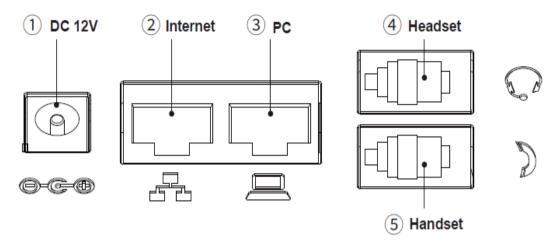
Picture: Wall-mount installation

Please connect power adapter, network, PC, handset, and headphone to the corresponding ports as described in the diagram below.



2.2 Connecting to the phone

Step 1. Connect to the corresponding ports as described in the diagram below.



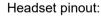
Picture: Connecting to the device

Table - Hardware Interface Description

Index	Description		
1	Power port: Connected with a 12V DC, 1A adapter.		
	Internet port: Connect to the Internet.		
2	(The Internet port supports PoE, allowing it to connect to an IEEE802.3at PSE device,		
	such as 802.3at injector, hub or 802.3at PoE switch.)		
3	PC port: Connect to the computer.		
4	Headset port: Connected with an RJ9 cable for headset use.		
5	Handset port: Connected with an RJ9 cable for IP phone handset use.		



- 1. Please ensure that you connect the headset and microphone to the corresponding ports to avoid causing it not to work.
- 2. When using RJ9 headsets, please pay attention to the following pinout to ensure functionality and stable audio quality and signal.

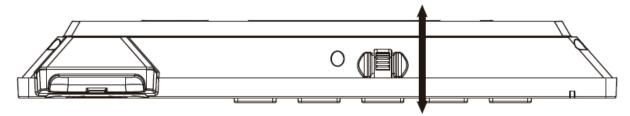


- 1. MIC-
- 2. SPK+
- 3. SPK-
- 4. MIC+



Step 2. Camera information

Turn the knob to adjust the camera angle. The knob can rotate 15 degrees.



Step 3. Computer Network Setup

Set your computer's IP address to 192.168.0.x, where x is a number between 2 and 254 (except 1 where is being used for the phone by default). If you don't know how to do this, please ask your network administrator.

Step 4. Login Prompt

Use Web browser (Internet Explorer 8.0 or above) to connect to 192.168.0.1 (Type this address in the address bar of Web browser.)

You'll be prompted to input user name and password: admin and 123



Step 5. Change of Password

After logging in, you will be prompted to change the initial password to a permanent one.

The length of the password should not be less than 8 digits and should include numerals, uppercase and letters, and special characters.

Change Web Authentication Password



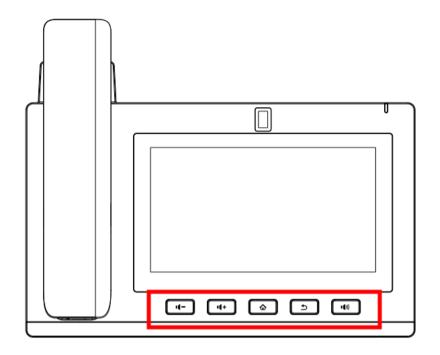




3. Introduction to the User

3.1 Instructions of Keypads

3.1.1 Instructions of the ICF-2000 Keypads



Picture - Instructions of keypad

The above diagram shows the keypad layout of the device. Each key provides its own specific function. User should refer to the illustration in this section about the usage of each key and the description in this document about each function.

Key features

Features	Description
	Message waiting indicator
•	Home key: Return to standby home page
5	Return key: Return to the previous menu or page
14-	The ringer volume can be increased or decreased according to your acceptable volume when using an earpiece, headset or hands-free phone.
••))	Hands-free key is to activate or deactivate hands-free mode



3.2 Icon Introduction

Table -- Status Prompt and Notification Icons

Icons	Description	Icons	Description
(II)	Call Hold		The Voice encryption of
lacksquare			calling
"	Network Disconnected	∻	Connecting WIFI
	SMS	(₁)	SIP Hotspot
(-	Call forward activated	Θ	DND
A	Auto-answering activated	₹	Miss Call log
4]0)	Hands-free (HF) Mode	9	Unread voice message
6	Headphone (HP) Mode	口	WAN VLAN
69	Handset (HS) Mode		Enable Restricted Incoming
<u>.</u>		4	List
.	Mute Microphone	•	Enable Allowed Incoming
~			List
HD	HD Audio	t ©	Enable Restricted Outgoing
עוח			List

Table- DSS Key Icons

***	Line	ば	Intercom
***	BLF	8	MWI
1	Speed Dial	***	Key Event/Power Light
***	Call Park	₩	Key Event/Prefix
(-	Call Forward	*	Key Event/Hot Desking
DND , DND	Key Event/DND	0	Key Event/Agent
- 11	Key Event/Call Hold	•	Key Event/End
ري	Key Event/Call Transfer	o <u>ş</u>	Key Event/Disposition



1	Key Event/Phonebook	<u>₽</u>	Key Event/Escalate
S	Key Event/Redial	₩.	Key Event/Trace
<u>Q</u>	Key Event/Pickup		Key Event/Handsfree
20	Key Event/Join	C.	Key Event/Answer Key
€N.	Key Event/Auto Redial On		Key Event/Private Hold
VN S	Key Event/Auto Redial Off	W.A.	Local Contact & LDAP Contact & XML Contact & Broadsoft Contact
(-	Key Event/Call Forward	÷	Record
Œ	Key Event/Call Logs	C	Auto Headset
#	Key Event/Flash	æ	URL & Action URL
******	Key Event/		DTMF
	Key Event/Headset		BLF List
Ç	Key Event/Release	7	Multicast
<u> </u>	Key Event/Lock Phone	•••	Unfold
	Key Event/SMS	ж	Collapse
C	Key Event/Call Back		
₩	Key Event/Hide DTMF		



3.3 LED Definition

Table - DSS Key LED State

Туре	LED Light	LED State
Line Key	Grey	Line inactive
	Green On	Line ready (Registered)
	Green Blinking	Ringing
	Red Blinking	Line is trying to register
	Red Blinking	Line error (Registration failure)
	Red On	Dialing/Line in use (Talking)
	Yellow Blinking	Call holding
BLF	Green On	Subscription number is idle.
	Red On	Subscription number is busy.
	Red On	Subscription number is dialing.
	Grey	Subscription number is unavailable.
Presence	Green On	Subscription number is idle.
	Red On	Subscription number is busy.
	Red On	Subscription number is dialing.
	Grey	Subscription number is unavailable.
DND	Red On	Enable DND
	White	Disable DND
MWI	Red corner with numbers	New voice message waiting
	Grey	No new voice message

3.4 Using Handset, Hands-free Speaker and Headphone

Using Handset

To talk over handset, user should lift the handset off the device and dial the number, or dial the number first, then lift the handset and the number will be dialed. User can switch audio channel to handset by lifting the handset when audio channel is opened in speaker or headphone.

■ Using Hands-free Speaker

To talk over hands-free speaker, user should press the hands-free button then dial the number, or dial the number first and then press the hands-free button. User can switch audio channel to the speaker from handset by pressing the hands-free button when audio channel is opened in handset.

Using Headphone

To use the headphone, by default, user should press the headset button which is defined by DSS key to turn on the headphone. Similar to handset and hands-free speaker, user can dial the number before or after the headphone is turned on.

■ Using Line Keys (Defined by DSS Key)

User can use the line key to make or answer a call on specific line. If the handset is lifted, the audio channel will be routed to the handset. Otherwise, the audio channel will be routed to the hands-free speaker or headphone.



3.5 Touch Screen Instructions

The device can be configured and operated by touching the screen.

■ Click

The device can enter the setting and operation interface by clicking on any interface.

The device supports multi-touch.

■ Long Press

Long-press the app icon on the standby home page, you can adjust the app location or choose to delete.

Long-press the application icon in the menu interface to drag it to the main page.

■ Slide

The device supports sliding up and down.

Slide down the standby home page to view the network connection information, date time and other information of the device; slide up to exit the above information interface.

Right slide can expand DSSkey, full screen display custom shortcut key information; slide left to exit the above interface.

■ Drag

Long-press the application icon in any interface, and you can drag it to any place.



3.6 Idle Screen



Picture - default home screen

The image above shows the default standby screen, which is the user interface in the most of the time.

- ① The status bar displays the equipment status, information and notification of dynamic messages (such as voice message, missed call, automatic response, do not disturb, locking status, network connection status, etc.).
- ② Displays the time and date, which can be changed by setting the time zone, etc.
- ③ Programmable function keys that allows users to customize DSS keys such BLF, headset, line keys, etc.
- ④ Application keys allow users to operate the phone through the application.

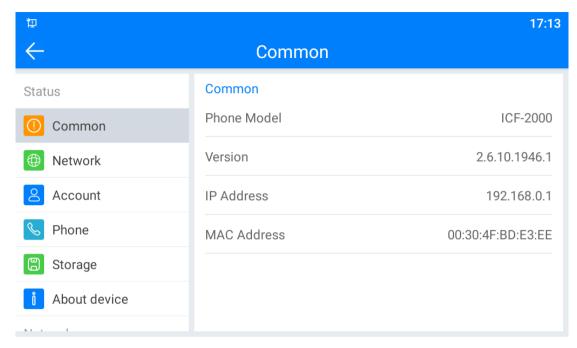


3.7 Phone Status

The phone status includes the following information about the phone:

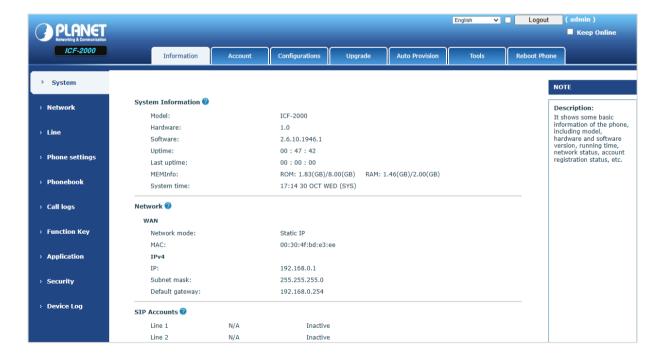
	Phone model	
	Software version	
Common:	IP address	
	MAC address	
	Wi-Fi MAC address	
	VLAN ID	
Network Status :	IPv4 or IPv6 status	
Network Status .	IP Address	
	Network Mode	
	Mac Address	
	Phone Mode	
The Phone Device	Hardware Version number	
Information:	Software Version number	
	Phone Storage (RAM and ROM)	
	System Running Time	
SIP Account	SIP Account	
Information:	SIP Account Status (registered / uncommitted / trying / time	
information .	out)	
TR069 Connection	(Displays only in the phone interface state)	
Status	The user can view the phone status through the phone	
Status	interface and the web interface.	
	When the phone is in the standby mode, press [Phone	
Phone interface:	Settings] >>[Common] and select the option to view the	
	corresponding information, as shown in the figure:	





Picture - Phone status

Web interface: Refer to 4. Web management to log in to the phone page, enter the [System] >>
[Information] page, and check the phone status, as shown in the figure:



Picture - Web phone status



3.8 Application Instruction

Table - Application instructions

Dialer	Click this icon to enter the pre-dial number interface, and then dial the corresponding operation through the screen or keyboard.
Email	It has the function of sending and receiving email. After configuring the account, it can send and receive directly on the phone. Contacts for this account are automatically synchronized to the mailbox account.
SMS	Supports SMS writing, reading and sending functions
Phone Settings	It contains system information, network setting, account setting, call setting, etc. You can make corresponding settings under the corresponding menu.
+- ×= Calculator	Scientific calculator that allows users to quickly process data.
Notepad	Notes and records Allows users to easily note events, wirth electronic post-it notes that can be viewed at any time.
Contacts	Supports search, add, delete, edit contacts and other functions.
Browser	Supports access to various websites.
Sound Recorder	Supports both call and non-call recording, with export functionality.
周三 10 Calendar	Display and view dates, create activity reminders, etc.
Settings	There are four big options, including basic settings, call settings, advanced settings and about the phone. You can make the corresponding adjustments under each menu, which follow the default settings of the Android system.
Clock	Can configure alarm clock, time, stopwatch, countdown Time - supports global time zone selection.



Video	Only supports MP4 format video playback.
Call Log	Access to call records to view all call records. You can also view all incoming calls, outgoing calls and missed calls by using the option key.
Gallery	Supports Bmp, Jpeg, Png image preview and save.
Files	Save all downloaded files.
Music	Music player that can import recording and music play.
Explorer	View system related files.
DND DND	Enable or disable and the Do Not Disturb configuration.
MWI	When the answering machine is activated, the call will be automatically forwarded to the voicemail.
Application	Click this icon to enter the application list screen



4. Web Management

The phone can be configured and managed through its web interface. To access it, the user needs to enter the phone's IP address into a web browser. The IP address can be found by navigating to [Phone Settings] > [Status] > [Common] on the phone.

4.1 Web Login

4.1.1 Login Prompt

Use Web browser (Google Chrome or Microsoft Edge) to connect to 192.168.0.1 (Type this address in the address bar of the Web browser.)

You'll be prompted to input user name and password: admin and 123



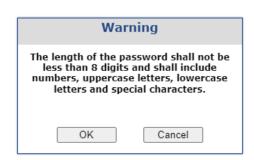
Picture - Landing page

4.1.2 Change of Password

After logging in, you will be prompted to change the initial password to a permanent one.

The length of the password should not be less than 8 digits and should include numerals, uppercase and letters, and special characters.







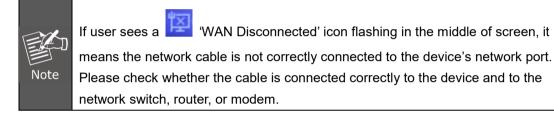
4.2 Network Configurations

The device supports two kinds of network connection modes: wired and wireless. This section covers the wired network connection. For the wireless network connection.

The device relies on an IP network connection to provide services. Unlike the traditional phone system based on the circuit switched wire technology, IP devices are connected to each other over the network and exchange data in packets, based on their respective IP addresses.

To enable this phone, you must first correctly configure the network configuration. To configure the network, users need to find the phone function menu button [**Phone Settings**] >> [**Network**] >> [**Ethernet**].

The default password for advanced settings is "123".



The device supports three types of networks, IPv4, IPv6, and IPv4 and IPv6 There are two common IP configuration modes about IPv4

- Dynamic Host Configuration Protocol (DHCP) This is the automatic configuration mode by getting network configurations from a DHCP server. Users need not to configure any parameters manually.
 All configuration parameters will be getting from DHCP server and applied to the device. This is recommended for most users.
- Static IP Configuration This option allows user to configure each IP parameter manually, including IP Address, Subnet Mask, Default Gateway, and DNS servers. This is usually used in an office environment or by power users.

The device is in default mode if configured in DHCP mode.

There are three common IP configuration modes about IPv6:

- DHCP This is the automatic configuration mode by getting network configurations from a DHCP server. Users need not to configure any parameters manually. All configuration parameters will be getting from DHCP server and applied to the device. This is recommended 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 domains. This usually applies to some professional network user environments.



4.3 SIP Configurations

A line must be configured properly to be able 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.

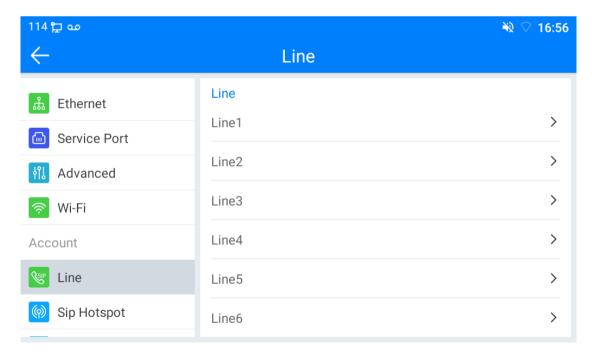
The user can conduct line configuration on the interface of the phone or the webpage, and input the corresponding information at the registered address, registered user name, registered password and SIP user, display name and registered port respectively, which are provided by the SIP server administrator

Phone interface: To manually configure a line, the user can press the line key for a long time, or press the button in the function menu [**Phone Settings**] >> [**Account**] >> [**Line**] configuration; click "OK" to save the configuration.



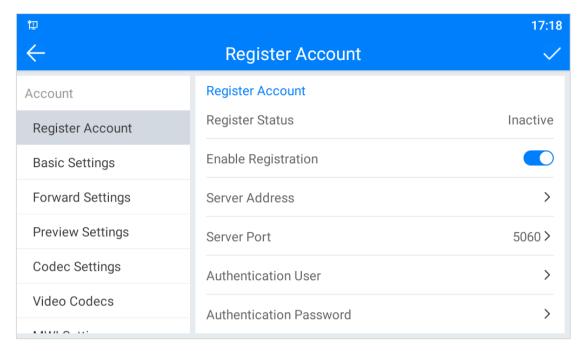
User must enter the correct PIN code to be able to go to advanced settings to edit line configuration. (The default PIN is 123.)

The parameters and screens are listed in the pictures below.



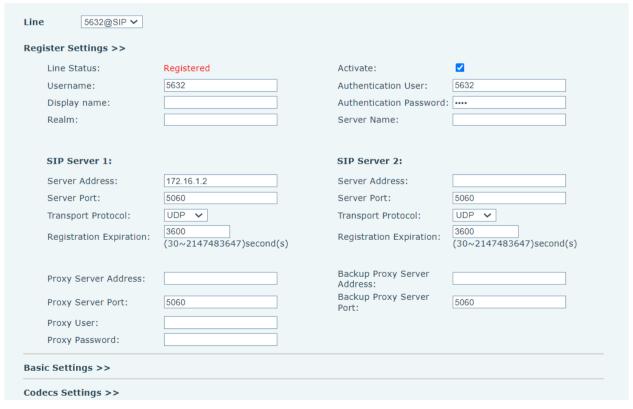
Picture - Phone line SIP address and account information





Picture - Phone display name and port

 Web interface: After logging in to the phone page, enter [Line] >> [SIP] and select SIP Line for configuration, and click apply to complete registration after configuration, as shown below:



Picture - Web SIP registration



5. Basic Function

5.1 Making Phone Calls

■ Default Line

The device provides twenty line services. If both lines are configured, user can make or receive phone calls on either line. If default line is configured by user, there will be a default line to be used for making outgoing call which is indicated on the top left corner. To change the default line, user can press left/right navigator buttons to switch between two lines.

To enable or disable default line, user can press [Menu] >> [Features] >> [Basic] >> [General] >> [Default Line] or configure from Web Interface (Web / Phone/ Features / Basic Settings).



Picture - Default line

■ Dialing Methods

User can dial a number by,

- Entering the number directly
- Selecting a phone number from phonebook contacts
- Selecting a phone number from cloud phonebook contacts
- Selecting a phone number from call logs
- Redialing the last dialed number



■ Dial Number, then Open Audio

To make a phone call, user can firstly dial a number by one of the above methods. When the dialed number is completed, user can press [**Dial**] button on the soft-menu, or press hand-free button to turn on the speaker or headphone, or lift the handset to call out with the current line, or user can press line key (Configured by DSS Keys) to call out with specified line.

Open Audio, then Dial the Number

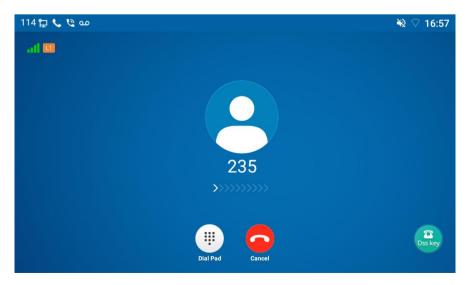
Another alternative is the traditional way to firstly open the audio channel by lifting the handset, turning on the hands-free speaker or headphone by pressing hands-free button, or line key, and then dial the number with one of the above methods. When dialing the number, user can press the [**Dial**] button orther [**OK**] button to call out, or the number will be dialed out automatically after timeout.



Picture - Open the voice channel and dial the number

■ Cancel Call

While calling the number, user can press to end the audio channel by putting back the handset or pressing the hands-free button to drop the call.



Picture - Call number



5.2 Answering Calls

When the phone is idle and there is a call, the user will see the call reminder screen as shown below.



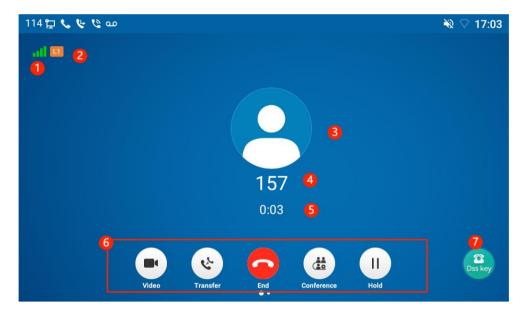
Picture - Answering calls

User can answer the call by lifting the handset, open headphone or speaker phone by pressing the hands-free button, or the [Answer] button. To divert the incoming call, user should press [**Divert**] button. To reject the incoming call, user should press the [**Reject**] button.



5.2.1 Talking

When the call is connected, user will see a talking mode screen as shown in the following figure.



Picture - Talking interface

Table - Talking mode

Number	Name	Description
1	Voice Quality	The voice quality of the current call is related to the network and other factors.
2	HD voice	Call using HD audio codec.
3	User avatar	User can customize the selection of Avatar pictures.
4	Calls to end	The name or number of the person on the other end of the call.
(5)	Call duration	The duration of a call after it has been established.
6	Softkey Page	Swipe to the right to view the softkey key on the second page.
7	DSSKEY	Click to expand the dsskey list.



5.2.2 Making/Receiving the Second Call

The device can support up to two concurrent calls. When there is already a call established, user can still answer another incoming call on either lines or make a second call on either lines.

■ The Second Incoming Call

When there is another incoming call during talking a phone call, this call will be waiting for user to answer it. User will see the call message in the middle of current screen. The device will not be ringing but playing call waiting tone in the audio channel of the current call and the LED will be flashing in green. User can accept or reject the call as the same as normal incoming call. When the waiting call is answered, the first call will be put on hold automatically.



Picture - The second call interface

■ Second Outgoing Call

To make a second call, user may press [Xfer] / [Conf] button to make a new call on the default line or press the line key to make new call on specific line. Then dial the number the same way as making a phone call. Another alternative for making a second call is to press DSS Keys to dial out from the configured Keys (BLF/Speed Dial). When the user is making a second call with the above methods, the first call could be placed on hold manually first or will be put on hold automatically at second dial.



Switching between Two Calls

When there are two calls established, user will see a dual calls screen as shown in the following picture.



Picture - Two-way calling

Users can switch cards by touching them with their fingers; Switch calls by clicking on the avatar Hold image or pressing the 'Resume' button below.

■ Ending One Call

User may hang up the current talking call by closing the audio channel or press the **[End]** button. The device will return to single call mode in holding state.

5.3 End of the Call

After the user finishes the call, the user can put the handle back on the phone, press the hands-free button or Softkey [**End**] key to close the voice channel and end the call.



When the call is on hold, the user must press the [resume] resume key to return to the call state and end the call.

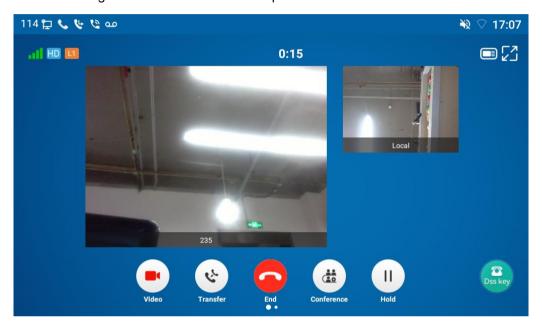


5.4 Video Call

The ICF-2000 supports a variety of video formats -- CIF, VGA, 4CIF and 1080p.

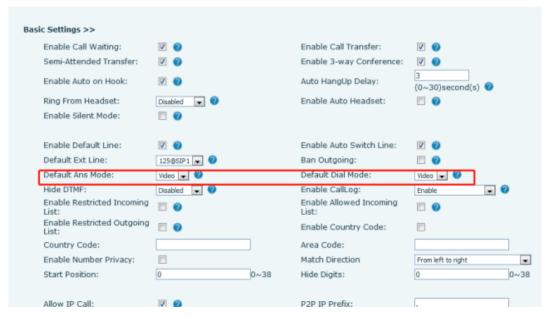
The device only supports video decoding, but users can initiate video calls.

- The default dialing mode is video. When the device dials, it uses video mode to call out by default. If the end device supports sending video, both sides establish video call.
- The default dialing mode is voice. The above operation establishes voice call.



Picture - Video interface

Web interface: Enter [Phone Settings] >> [Features] >> [Basic Settings], and choose to configure the "Default Dial Mode" and "Default Ans Mode".



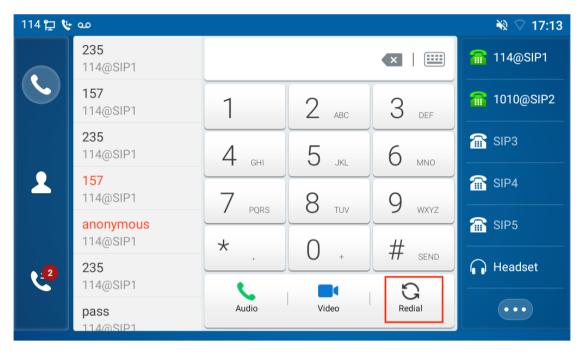
Picture - Video Settings



5.5 Redial

Redial the last outgoing number:

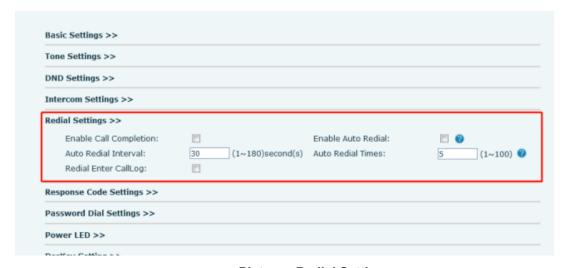
Before entering the number, press the redial key, and the phone will call out the number on the dial.



Picture - Video Settings

Press the redial key to enter the call record:

Log in to the phone page, enter [**Phone Settings**] >> [**Features**] >> [**Redial Settings**], check redial to enter the call record. Press the redial button when in standby to enter the call record page, and press again to call out the currently located number.



Picture - Redial Setting



5.6 Dial-up Query

The phone is set by default to enable the dial-up query function. When dialing, if two or more numbers are entered, the interface will automatically match the dialed numbers with call records and contacts in the number list. Use the navigation up/down keys to select a number, then press the call key to dial, or wait for a timeout to proceed.

5.7 Auto-Answering

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

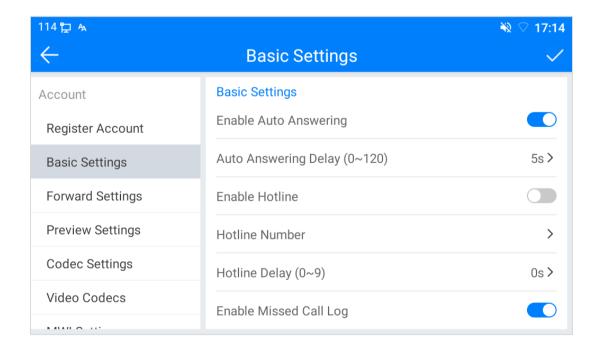
The user can start the automatic answer function in the telephone interface or the webpage interface.

Phone interface :

Press the [Phone Settings] >> [Account] >> [Line] button;

Press the button to select the line and enter the [**Basic Settings**]. Click on/off the auto answering option and set the auto answering time. The default is 5 seconds.

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

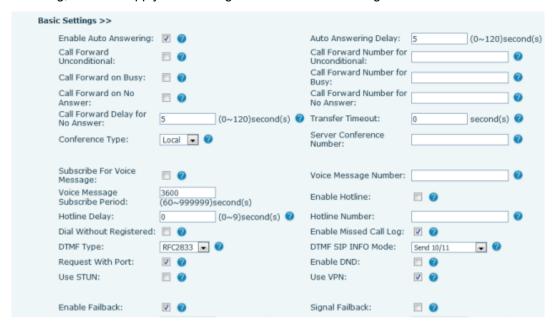


Picture - Line 1 enables auto-answering



Web interface :

Log in to the phone page to enter [Line] >> [SIP], select [SIP] >> [Basic settings], and start auto-answering, and click apply after setting the automatic answering time.



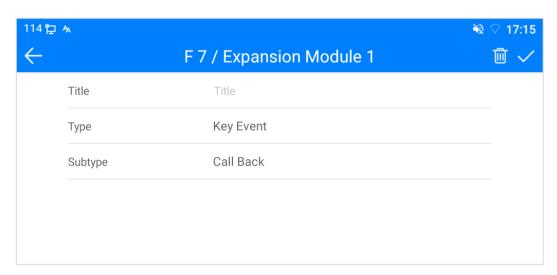
Picture - Web page to start auto-answering



5.8 Call Back

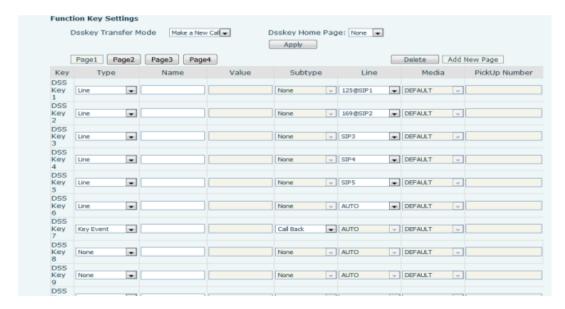
The user can dial back the last call. If there is no call history, press the [Callback] button and the phone will say "can't process".

Set the callback key through the phone interface: In standby mode, click the unfold button and long-press the function key to be set. It will automatically enter the configuration interface. Select "key event" under Type and select "callback" under Subtype to set the callback key name in the title input box. Press the [√] button to save.



Picture - Set the callback key on the phone

Set the callback key through the web interface:
 Log in to the phone page to enter the [Function Key] >> [Function Key] page to select the function key, set the type as the function Key, and set the subtype as the callback, as shown in the figure below:



Picture - Set the callback key on the web page



5.9 Mute

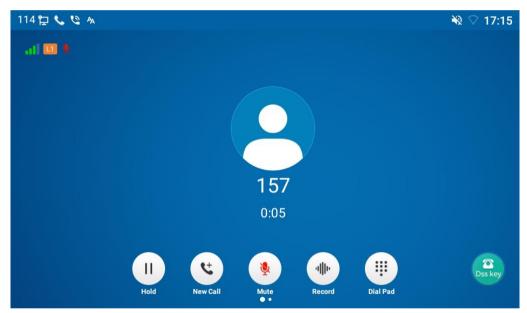
You can turn on mute mode during a call and turn off the microphone so that the local voice is not heard. Normally, mute mode will be automatically turned off at the end of a call. You can also turn on mute on any screen (such as the free screen) and mute the ringtone automatically when there is an incoming call.

Mute mode can be turned on in all call modes (handset, headphones or hands-free).

5.9.1 Mute the Call

• During a call, press the mute button below to mute the sound and the mute icon will turn red

The mute icon is displayed in the upper left corner of the call interface, as shown in the figure:



Picture - Mute the call

• Cancel mute: Press to cancel mute on the phone again. The mute icon is no longer displayed in the call screen. The red light is off by the mute button.

5.9.2 Ringing Mute

Turn on ringing mute: When the phone is in standby, press "Volume -" to reduce the volume to 0

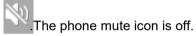
The ringtone mute icon is displayed in the upper right corner of the phone. When there is an incoming call, the phone displays the incoming call interface but will not ring.





Picture - Ringing mute

Cancel ring tone mute: On the standby or incoming call screen, press the volume up** botton to cancel ring tone mute. It will no longer show mute icon in the upper right corner after canceling



5.10 Call Hold/Resume

The user can press the **[Hold]** button to maintain the current call, and this button will become the **[Resume]** button. The user can press the "resume" button to restore the call.



Picture - Call hold interface



5.11 DND

User may enable Do-Not-Disturb (DND) feature on the device to reject incoming calls (including call waiting). The DND can be enabled on a per-line basis.

Enable/Disable DND for all lines. Methods are as follows:

- Phone interface (Default standby mode):
 - 1) Press the [**DND**] button to enter the DND setting interface. Select the line or phone to enable DND. The icon will become red DND. The phone status prompt bar will display the DND icon.
 - 2) Press the [DND] button to enter the DND setting interface and disable DND. The icon will be become blue and the DND icon will disappear from the phone status prompt bar.

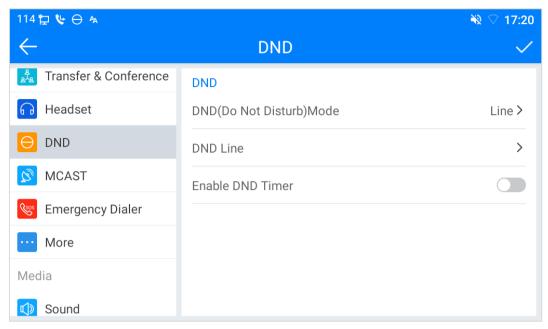


Picture - Enable DND

To enable and disable the uninterrupted function on a specific line,

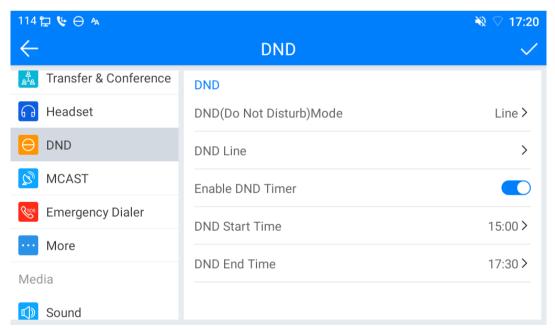
- 1) Press [Phone Settings] >> [Call] >> [DND] button to enter the [DND] editing interface.
- 2) Use the left/right navigation button to select the line to be adjusted. Choose the desired DND mode and state, and then press the [**OK**] button to save.
- 3) The DND icon will turn red, indicating that the selected SIP line has successfully enabled the "Do Not Disturb" mode.





Picture - DND setting interface

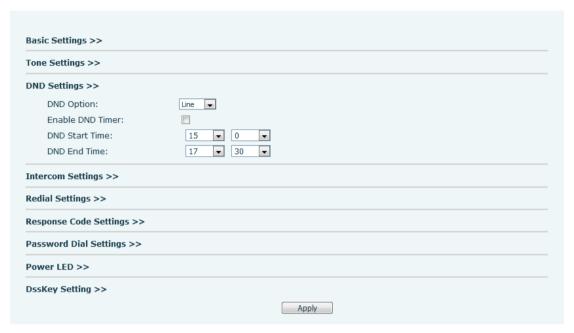
The user can also use the DND timer. Once set, the DND function will automatically activate within the specified time range, and the DND icon will turn red during that period.



Picture - DND timer

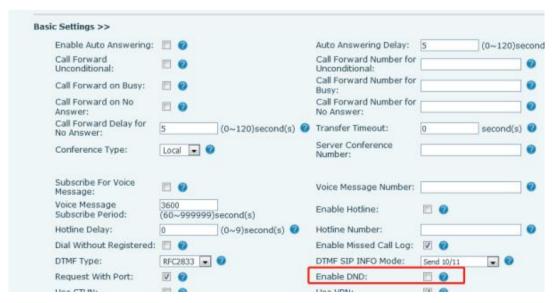


Web interface : Enter [Phone setting] >> [Features] >> [DND settings]. Set the DND type (off, phone, line), and the DND timing function.



Picture - DND settings

The user turns on the DND for a specific route on the web page: Enter [Line] >> [SIP], select a [Line] >> [Basic settings], and enable DND.



Picture - Line DND

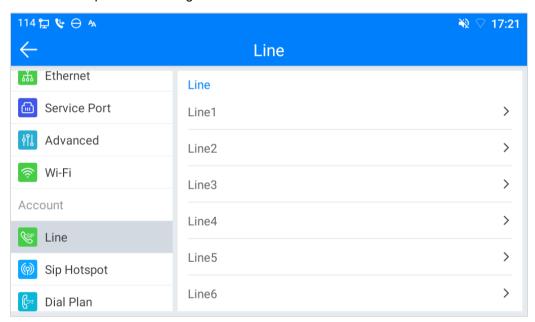


5.12 Call Forward

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 three types:

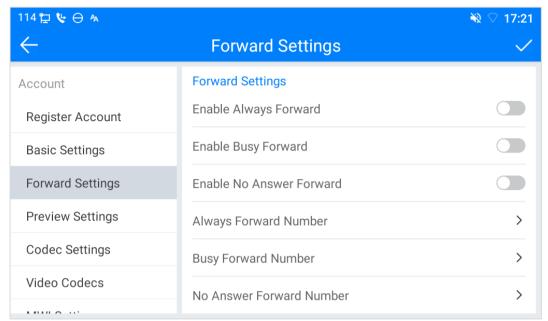
- Unconditional Call Forward Forward any incoming call to the configured number.
- **Call Forward on Busy** When user is busy, the incoming call will be forwarded to the configured number.
- Call Forward on No Answer When user does not answer the incoming call after the configured delay time, the incoming call will be forwarded to the configured number.
- Phone interface: Default standby mode
 - 1) Press the [Application] >> [Phone Settings] >> [Account] >> [Line] button, and click any line to set up forward settings.



Picture - Select the line to set up call forwarding

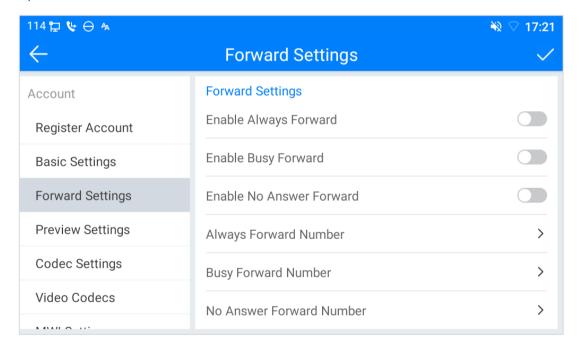


2) Select the line to be set and enter the call forward settings interface



Picture - Select call forward type

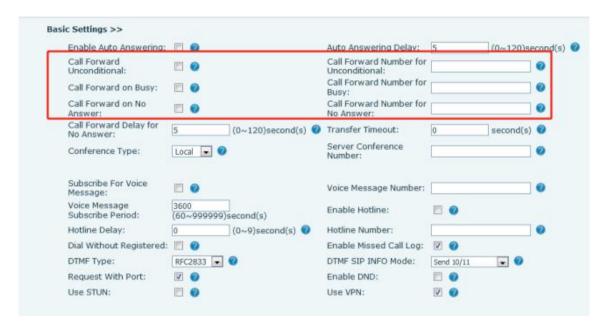
3) Click the slide button to select on/off.



Picture - Enable the call forwarding and configure the call forwarding number



- Configure parameters by clicking Settings and enter the required information. When finished, press the $\lceil \sqrt{\rceil}$ button to save the changes.
- Web interface: Enter [Line] >> [SIP], Select a [Line] >> [Basic settings], and set the type, number and time of forwarding.



Picture - Set call forward



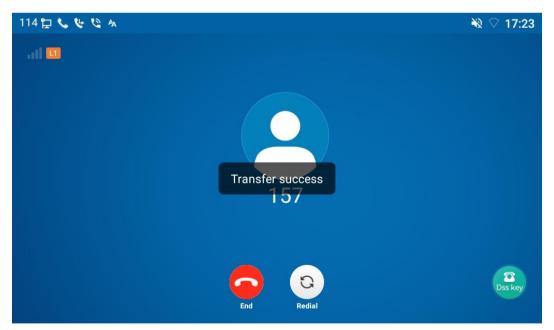
5.13 Call Transfer

When the user is talking with a remote party and wish to transfer the call to another remote party, there are three ways to transfer the call, blind transfer, attended transfer and semi-attended transfer.

- Blind transfer: Do not need to negotiate with the other side; directly transfer the call to the other side.
- Semi-attended transfer: When you hear the ring back, transfer the call to the other party.
- Attended transfer: When the caller answers the call, transfer the call to the caller.

5.13.1 Blind Transfer

During the call, the user presses the function menu button [**Transfer**]. Enter the number to transfer or press the contact button or the history button to select the number. Press the transfer key again to complete the transfer to the third party. Once the third party's phone rings, the transfer will be confirmed, and the call will automatically end.

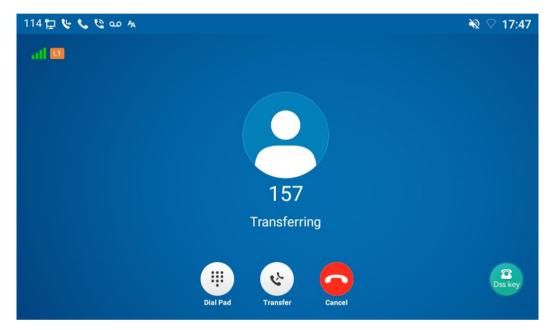


Picture - Transfer interface



5.13.2 Semi-Attended Transfer

During the call, the user presses the function menu button [transfer] on the phone to input the number to be transferred or press the contact button or the historical record button to select the number, and then press the call button. If the third party does not answer, press the transfer on the call interface to complete the semi-attended transfer or press the end button to cancel the transfer.

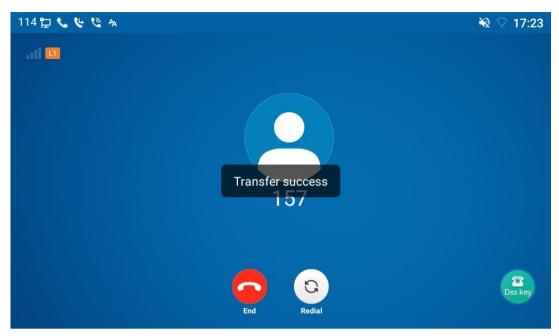


Picture - Semi-Attended transfer

5.13.3 Attended Transfer

Attended transfer is also known as "courtesy mode", which is to transfer the call by calling the other party and waiting for the other party to answer the call. Calling is the same procedure. In the dual call mode, press the "transfer" button to transfer the first call to the second call.





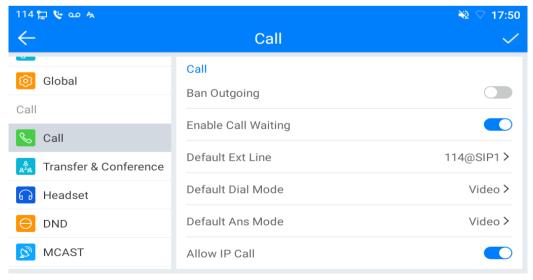
Picture - Attended transfer

5.14 Call Waiting

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

The user can enable/disable the call waiting function in the phone interface and the web interface.

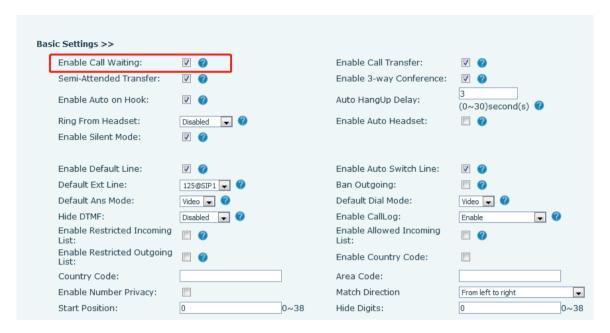
Phone interface: Press [Phone Settings] >> [Call] >> [Call], enable/disable call waiting and call waiting tone.



Picture - Call waiting setting



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



Picture - Web call waiting setting



Picture - Web call waiting tone setting



5.15 Conference

5.15.1 Local Conference

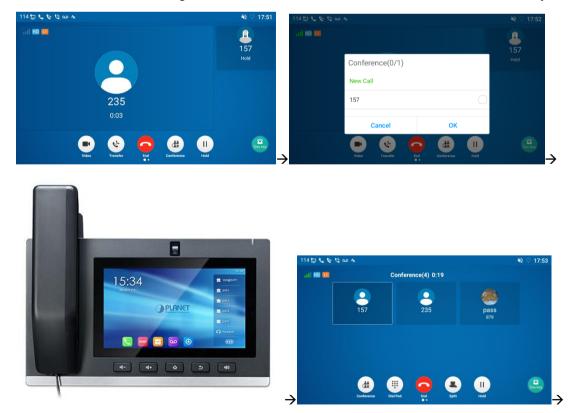
To conduct local conference, the user needs to log in to the webpage and enter [Line] >> [SIP] >> [Basic settings]. The meeting mode is set as local (the default is local mode), as shown in the figure:



Picture - Local conference setting

Two ways to create a local conference:

1) The device has two channels of communication. Press the conference button on the call interface. When selecting the conference number, select the other number that already exists.







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 \rightarrow



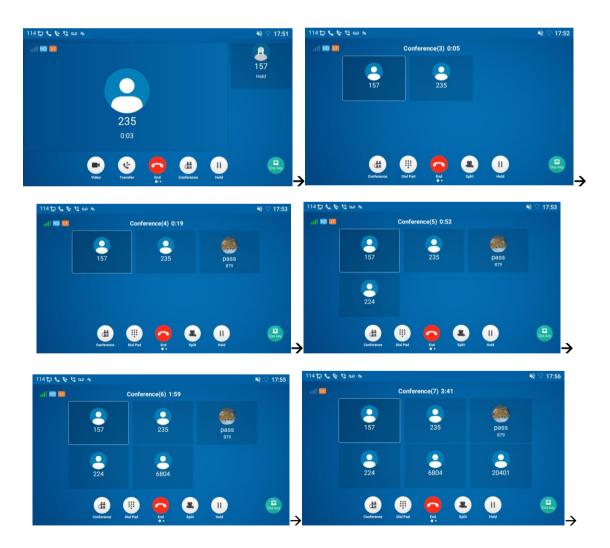






Picture 1 - Local conference (1)

3) If the device has a call all the way, press the conference key in the call interface, enter the number to join the meeting and press the call. After the third party answers the call, press the conference button again to initiate the local tripartite conference.







Picture - Local conference (2)

Note: During the conference, press the split button to split the conference and press the end button to end the call.



5.15.2 Video Conference

The method of creating a local third-party video conference is similar to that of a third-party voice conference:

1) The device already has two video calls. Press the conference button on the call interface, and when selecting a conference number, select another existing number. Press the confirm button to initiate a tripartite video conference.

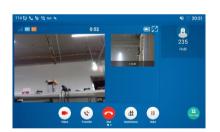


Picture - Video conference (2)

2) The device already has a video call. Press the conference button on the call interface, enter the number you want to join the conference, and then press the video call button. After receiving the call from the peer, press the meeting button again to establish a local tripartite meeting







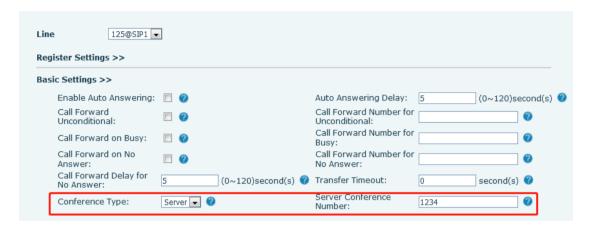
Picture - Video conference (2)



5.15.3 Network Conference

Users need server support for network conference.

Log in to the web page to enter [Line] >> [SIP] >> [Basic settings]. Set the conference mode as server mode (default is local mode), and set the server conference room number (please consult your system administrator), as shown in the figure :



Picture - Network conference

Methods to join a network conference:

- Call the numbers of network conference and when they enter the password, it will enter the conference room.
- The two phones have established common calls. Press the conference button to invite new members to the conference. Follow the voice prompt to operate.

Note: The upper limit of the number of participants in the network conference varies according to the server.



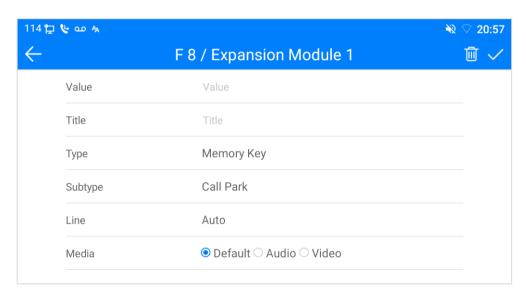
5.16 Call Park

Note: Call Park requires server support. Consult your system administrator for support.

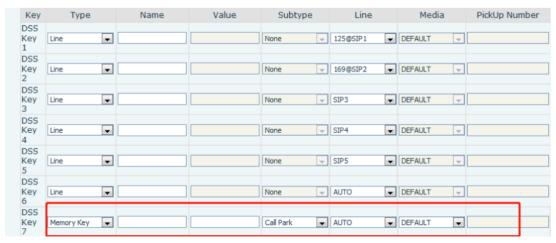
When you are on the call and need to temporarily park it, you can press the configured park button to hold the call. Once the call is parked successfully, you can resume the call by pressing the park button on another device.

Set up the call park button:

- Phone interface: In the standby mode, click the unfold button and long-press an editable key to
 enter the function key settings. Set key type to memory key, and select the subtype as call park.
 Enter the server's Call Park number in the value field, then assign the corresponding SIP line.
- Web interface: Log in to the phone page to enter the [Function Key] >> [Function Key]. Select a
 DSS key and set the key type to memory key and choose the subtype as call park. Enter the
 server's Call Park number and assign the corresponding SIP line.



Picture - Phone set Call Park



Picture - Web set Call Park



5.17 Pick Up

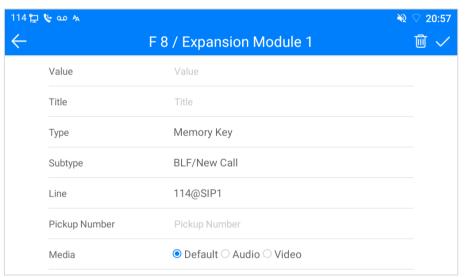
Note: Pick-up requires server support. Consult your system administrator for support.

You can use the Pick Up function to answer incoming calls from other users. The phone can pick up incoming calls by configuring DSS key for BLF and setting the Pick Up code.

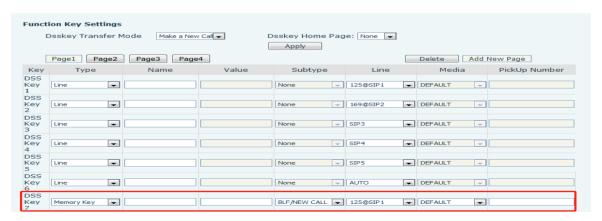
In standby mode, click the "unfold" button and long-press an editable key to enter the interface of the function key setting. Set the function key type to memory key and the subtype to BLF/NEW CALL. Set the corresponding SIP line and fill in the grab number.

- Configure the line and set the function key type as memory key and subtype as BLF/NEW CALL, and input the subscription number and pick up code
 - When another phone calls the subscription number, the opposite will start ringing.
 - Press the DSS key to pick up the call.
- Once the call is picked up, the caller can speak to the recipient.

Web interface: Log in to the phone webpage to enter the [Function Key] >> [Function Key]. Select a DSS key and set the memory key type as memory key, the subtype as BLF/NEW CALL, and set the corresponding SIP line and pick up codes.



Picture - Phone pick up setting



Picture - Web pick up setting

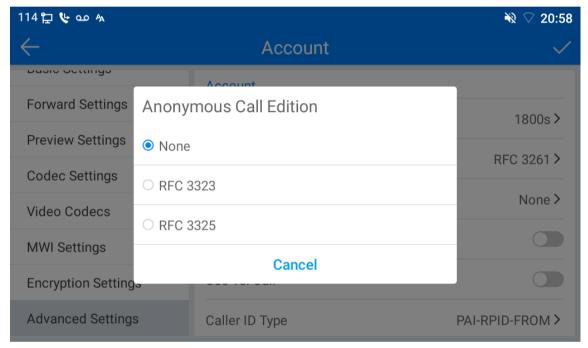


5.18 Anonymous Call

5.18.1 Anonymous Call

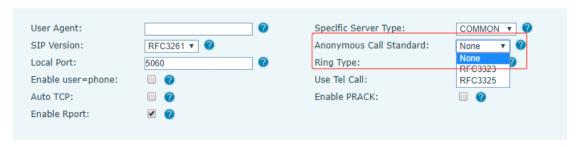
The phone can set up anonymous calls to hide the calling number and the calling name.

- You can see anonymity in the context of [Phone Settings] >> [Account] >> [Line] >> [Advanced Settings] >> [Anonymous call edition].
- By default, the anonymous call option is set to off.
- RFC3323 or RFC3325 can be chosen to enable anonymous calling.



Picture - Enable anonymous call

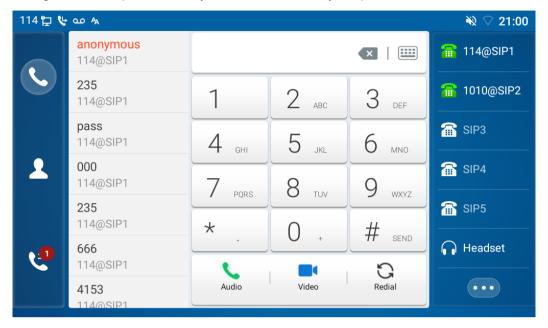
- Navigate to [Line] >> [SIP] >> [Advanced Settings] to open anonymous calls via Internet interface.
- The anonymous call setting is specific to the SIP line. For example, changes made on the SIP1
 page will only apply to the SIP1 line.



Picture - Enable Anonymous web page call



The following is a transcript of an anonymous call received by the phone.

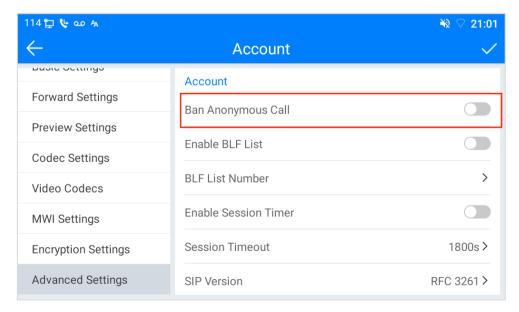


Picture - Anonymous call log

5.18.2 Ban Anonymous Call

The device can be set to prohibit anonymous calls, that is, anonymous calls to the number will be directly rejected.

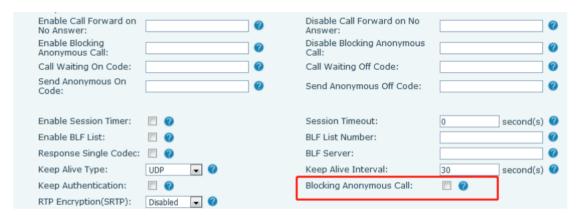
Navigate to [Phone Settings] >> [Account] >> [Line] >> [Advanced Settings] >> [Ban anonymous call], which can be enabled and disabled.



Picture - Anonymous calls are not allowed on the phone



- On the web page, enter [Line] >> [SIP] >> [Advanced Settings] to disable anonymous calls.
- The setting to disable anonymous calls is specific to each **SIP line**. For example, changes made on the **SIP1** page will only affect the **SIP1** line.

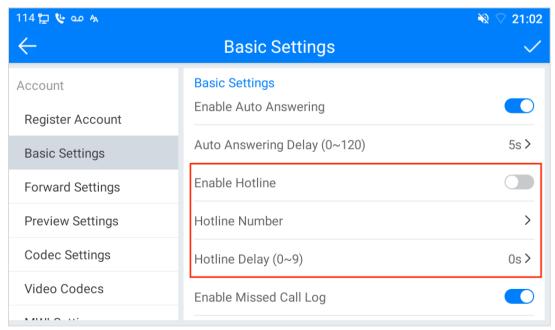


Picture - Page Settings blocking anonymous call

5.19 Hotline

The device supports hotline dialing. After setting up the hotline dialing, directly pick up the handset, hands-free, headset, etc., and the phone will automatically call according to the hotline delay time.

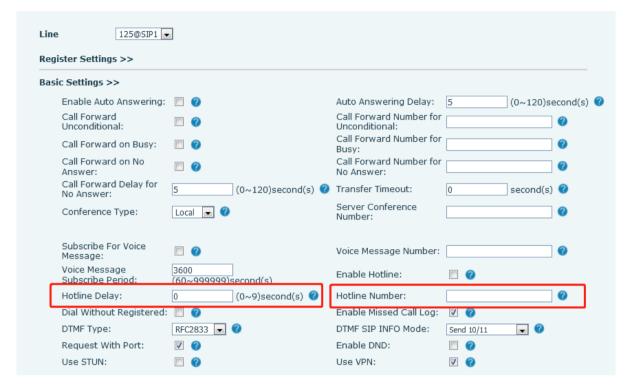
- Enter [Phone Settings] >> [Account] >> [Line] >> [Basic Settings].
- Then set the hotline for each SIP line, which is off by default.
- Open the hotline, set the hotline number and set the delay time of the hotline.



Picture - Phone hotline setting interface



- On the website, enter [Line] >> [SIP] >> [Basic Settings], to set up a hotline.
- The setup hotline also corresponds to the SIP line, that is, the hotline set in the SIP1 webpage can only be activated in the SIP1 line.



Picture - Hotline set up on webpage



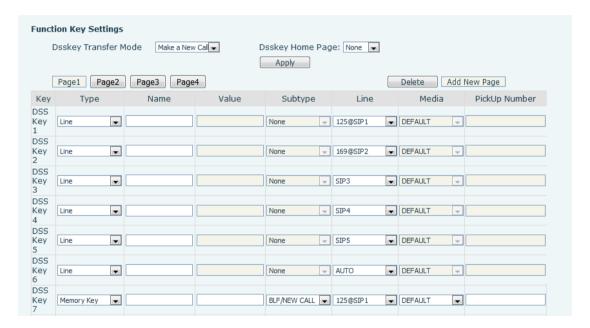
6. Advanced Function

6.1 BLF (Busy Lamp Field)

6.1.1 Configure the BLF Functionality

Page interface: log in to the phone page, enter [Function key] >> [Function key] and select a
DSS key to set the function key type as memory key, choose the subtype among BLF/NEW CALL,
BLF/BXFER, BLF/AXFER and BLF/CONF, set BLF/DTMF value as the number which is subscribed,
and set the corresponding SIP line.

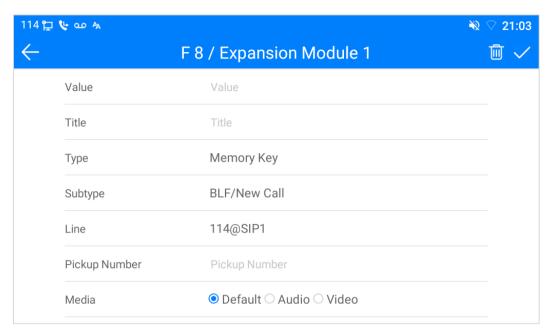
The Pickup Number (for call pickup) is provided by the server. For further details on using the Pickup feature.



Picture - Web page configuration BLF function key

 Phone interface: Click unfold and long-press a function key to enter the function key settings interface, set the key type to memory, and choose the subtype from BLF/NEW CALL, BLF/BXFER, BLF/AXFER, BLF/CONF, and BLF/DTMF. Set the Value to the Subscription Number (provided by the server) and assign the corresponding SIP line.





Picture - Phone configuration BLF function key

Table - BLF Function key subtype parameter list

Subtype	Standby is described	Calling is described
		When you press this BLF key while
BLF/NEW	Pressing the BLF key while standby	talking to another user, you create a
CALL	to dial the subscriber number.	new call along with the subscribed
		number.
		When you press this BLF key while
BLF/BXFER	Pressing the BLF key while standby	talking to another user, you blind
	to dial the subscriber number.	transfer the call to the subscribed
		number.
		When you press this BLF key while
BLF/AXFER	Pressing the BLF key while standby	talking to another user, you attended-
BLF/AXFER	to dial the subscriber number.	transfer the call to the subscribed
		number.
BLF/	Pressing the BLF key while standby	When you press this BLF key while
Conference	to dial the subscriber number	talking to another user, you invite the
Contended	to dial the subscriber number.	subscriber number to join the meeting.
		When the BLF key is pressed while
BLF/DTMF	Pressing the BLF key while standby	talking to another user, the phone
	to dial the subscriber number.	automatically sends the DTMF
		corresponding to the BLF key number.



6.1.2 Use the BLF Function

The BLF, also known as a "busy light field," notifies the user of the status of the subscribed object and is used by the server to pick up the call. BLF helps you monitor the other person's status (idle, ringing, talking, off).

BLF function:

- Monitor the status of subscribed phones.
- Call the subscribed number.
- Transfer calls to the subscribed number.
- Pick up incoming calls from subscribed number.
- 1) Monitoring the status of subscribed phones.

When the subscription of the number of the state (idle, ringing, talking) is changed, the function key state of LED lights will have corresponding change.

2) Calling the subscribed number.

When the phone is in the standby mode, press the configured BLF key to call out the subscribed number.

3) Transferring calls to the subscribed number.

The BLF key can be used for blind rotation, attention-rotation and semi-attention-rotation of the current call, and also can invite the subscribed number to join the call and send DTMF, etc.

4) Picking up incoming calls from subscribed phones.

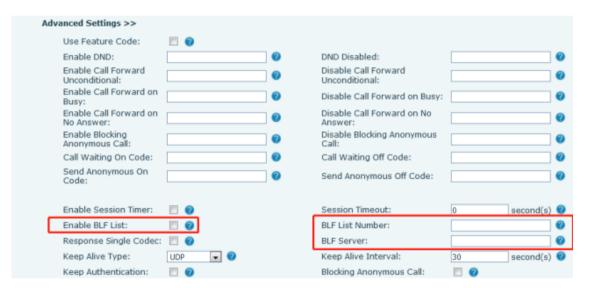
When configuring BLF function key, configure the pickup number. When the subscribed number's telephone rings, the BLF LED will flash red. At this point, press the BLF button to answer the incoming call from the subscribed number.



6.2 BLF List

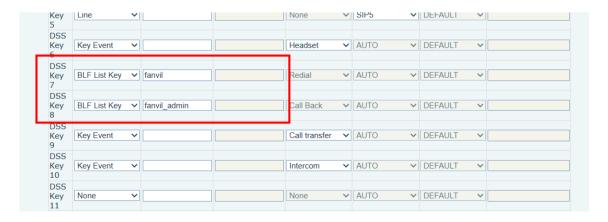
BLF List Key is to put the number to be subscribed into a group on the server side, and the phone uses the URL of this group to make unified subscription. The specific information, number, name and status of each number can be resolved based on notification sent from the server. The unoccupied Memory Key is then set to the BLF List Key. If the state of the subscription object changes later, the corresponding LED light state will be changed.

Configure BLF List function: Log in to the phone page to enter the [Line] >> [SIP] >> [Advanced settings] and open the BLF List, and configure the BLF List number.



Picture - Configure the BLF List functionality

Use the BLF List function: When the configuration is completed, the phone will automatically subscribe to the contents of the BLF List group. Users can monitor, call and transfer the corresponding number by pressing the BLF List key.



Picture - BLF List number display



6.3 Record

The device supports recording during a call.

6.3.1 Local Record

When using local recording, it is necessary to start recording on the phone page [Application] >> [Manage recording], select the local type and set the voice coding. The webpage is as follows:



Picture - Web local recording

Local recording steps:

- Open the recording on the web page, and set the recording type as local recording.
- Set DSS key type as key event and type as record in the phone/web interface.
- Set up one line call and press the recording key (set DSS key).
- End the recording. End the call.

View local recording:

- Enter [Application] >> [Sound Recorder]
- Enter view the recording file.
- Or enter the webpage [Application] under the [Manage recording] to view the recording file.

Listen to the record:

- Enter [Application] >> [Sound Recorder].
- Enter view the recording file.
- Select the recording file that you want to listen to, and click listen to the recording.



6.3.2 Server Record

When using the network server to record, it is necessary to open the recording in the phone web page [Application] >> [Manage recording]. The type is selected as network, and the address and port of the recording server are filled in and the voice coding is selected. The web is as follows:



Picture - Web server recording



6.3.3 SIP Info Record

The phone is registered with a server that supports SIP INFO recording. After registering the account, check the recording module of [**Application**] >> [**Manage recording**] to open the Record Settings, and the recording type is SIP INFO.

Please refer to the documentation for specific usage: Call Recording Configuration and Use Description



Picture - Web SIP info recording

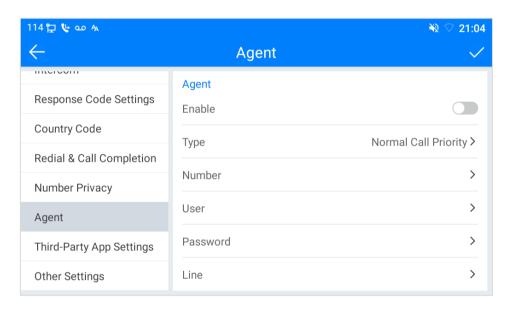


6.4 Agent

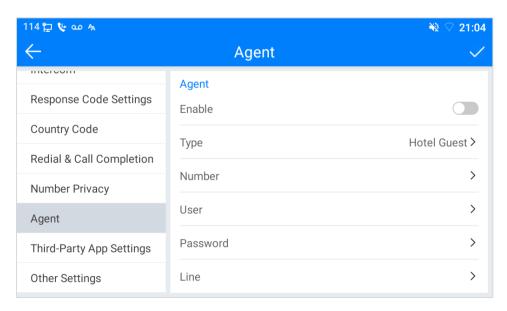
Agent (Agent function) of the phone can be realized: When multiple people use a device for Agent services at different times, he or she can quickly register his or her SIP account on the same server. The Agent functions of the phone can be divided into Normal and Hotel Guest. The Hotel Guest mode requires server support.

Normal Mode:

Configure agent function: Set a DSS key as agent, press the function key or enter the [**Phone Settings**] >> [**Call**] >> [**More**] >> [**Agent**] to enter the agent page. The SIP server needs to be configured before the account can be configured.



Picture - Configure the agent account in normal mode



Picture - Configure the proxy account-hotel Guest mode

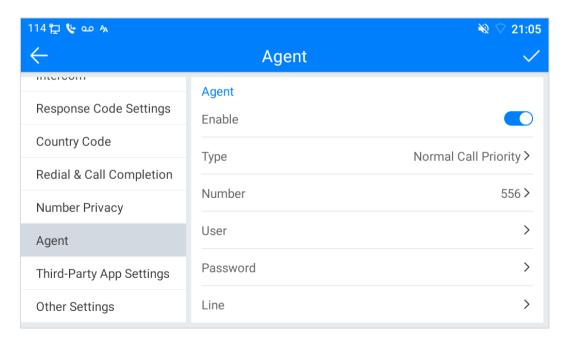


Table - Agency mode

Parameter	Description	
Normal mode		
Number	Set the proxy account number.	
User	Set the proxy account number to verify the user name.	
Password	Set the proxy account number to verify the password.	
Line	Select the SIP line.	
CallLog	Users can choose to save all types, or delete.	
Hotel Guest mode		
Number	Set the proxy account number.	
Password	Set the proxy account number to verify the password.	
Line	Select the SIP line.	
CallLog	Users can choose to save all types, or delete.	
Status	The user can select the status of the number, the optional status is:	
	login, logout, invalid, valid, SMS.	

Using agent functions:

- 1) When the phone has been configured on SIP server, fill in the correct number and user name password, click login and then the phone can be registered to the SIP server;
- 2) After registration, click logout and the phone can delete the user name and password, and log out of the SIP account.
- 3) Click Unregister and the phone retains the user name and password, and logs out of the SIP account.



Picture - Agent logon page



6.5 Intercom

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



Picture - Web Intercom configure

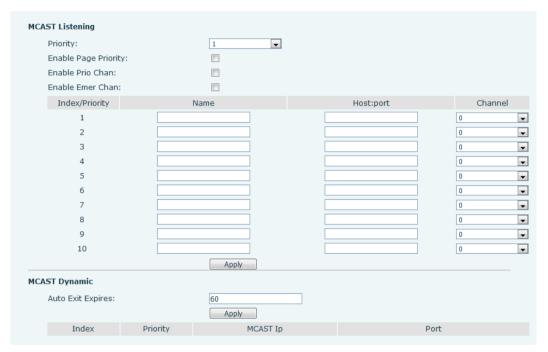
Table - Intercom configure

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



6.6 MCAST

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



Picture - Multicast Settings Page

Table - MCAST Parameters on Web

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

Multicast:

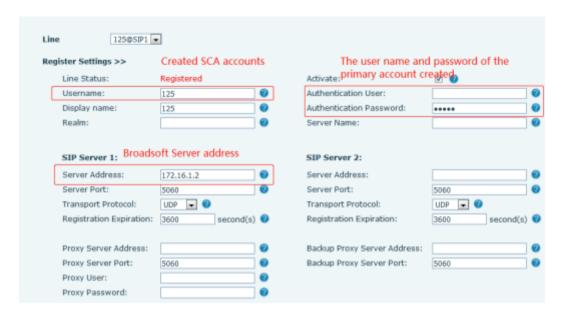
- Go to web page of [Function Key] >> [Function Key], select the type to multicast, set the
 multicast address, and select the codec.
- Click Apply.
- Set up the name, host and port of the receiving multicast on the web page of [Phone Settings] >> [MCAST].
- Press the DSSKEY of Multicast Key which you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



6.7 SCA (Shared Call Appearance)

Users need the support of server end to use SCA function.

- 1) Configure on Phone
- When registering with the BroadSoft server, a PLANET Phone can register the account created previously on multiple terminals.



Picture - Register BroadSoft account

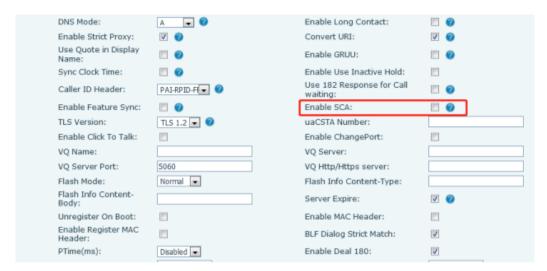
After the phone registers on the BroadSoft server, a server type needs to be set. Specifically, log in to the web page of the phone, choose [Line] >> [SIP] >> [Advanced Settings] and set Specific Server Type to BroadSoft, as shown in the following figure.



Picture - Set BroadSoft server

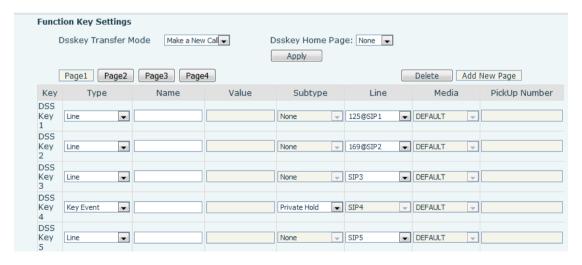


If a PLANET phone needs to use the SCA function, enable it for the phone set. Specifically, log in to the webpage of the phone set, choose [Line] >> [SIP] >> [Advanced Settings], and select Enable SCA. If SCA is not enabled, the registered line is private line.



Picture - Enable SCA

- After an account is configured and successfully registered, you can configure DSS Keys as the lines which can enable Shared Call Appearances on the Function Key page to facilitate viewing the call status of the group. Each line key represents a call appearance.
- To facilitate private hold, configure keys whose DSS Key is Private Hold on the Function Key page.
 Pay attention that the public hold key is the softkey [Hold] key during a call.



Picture - Set Private Hold Function Key

 After each phone registered with the BroadSoft server is configured as above, the SCA function can be used.



2) LED Status

To facilitate viewing the call status of a group, configure lines whose DSS Key is SCA. The following table describes the LEDs of lines in different states

Table - LED Status of SCA

State & Direction	Local Light	Remote Light
Idle	Off	Off
Seized	Steady green	Steady red
Progressing (outgoing call)	Steady green	Steady red
Alerting (incoming call)	Fast blinking green	Fast blinking green
Active	Steady green	Steady red
Public Held (hold)	Slow blinking green	Slow blinking red
Held-private (private hold)	Slow blinking yellow	Steady red
Bridge-active (Barge-in)	Steady green	Steady red
Bridge-held	Steady green	Steady red

3) Shared Call Appearance(SCA)

The following lists a couple of instances to facilitate understanding.

In the following scenarios, the manager and secretary register the same SCA account and the account is configured based on the preceding steps.

Scenario 1: When this account receives an incoming call, the phone sets of both the manager and the secretary will receive the call and ring. If the manager is busy, the manager can reject the call and the manager's phone set stops ringing but the secretary's phone set keeps ringing until the secretary rejects/answers the call or the call times out.

Scenario 2: When this account receives an incoming call, if the secretary answers the call first and the manager is required to answer the call, the secretary can press the Public Hold key to hold this call and notify the manager. The manager can press the line key corresponding to the SCA to answer the call.

Scenario 3: The manager is in an important call with a customer and needs to leave for a while. If the manager does not want others to retrieve this call, the manager can press the Private Hold key.

Scenario 4: The manager is in a call with a customer and requires the secretary to join the call to make records. The secretary can press the corresponding SCA line key to barge in this call.





6.8 Message

6.8.1 SMS

If the service of the line supports the function of the short message, 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.



Picture - SMS icon

Send messages:

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

View SMS:

- Use the navigation keys to select the standby icon [message]
- After selecting, press the navigation key [OK] to enter the SMS inbox interface.
- Select the unread message and press [OK] to read the unread message.

Reply to SMS:

- Use the navigation keys to select the standby icon [Message].
- After selecting, press the navigation key [OK] to enter the SMS inbox interface.

Select the message you want to reply to, select Softkey [Reply], edit it, and click Send..



6.8.2 MWI (Message Waiting Indicator)

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

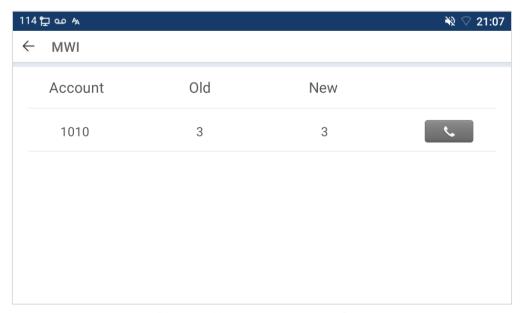


Picture - New Voice Message Notification

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

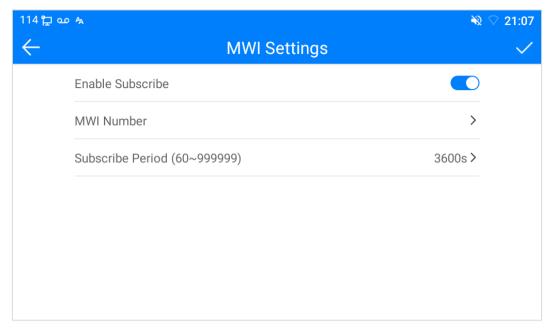
When the phone is in the default standby state,

- The voicemail icon displays the number of unread voicemail messages.
- Click the icon to view the total number of voicemail messages, or listen to the messages directly in the voicemail interface



Picture - Voice message interface





Picture - Configure voicemail number

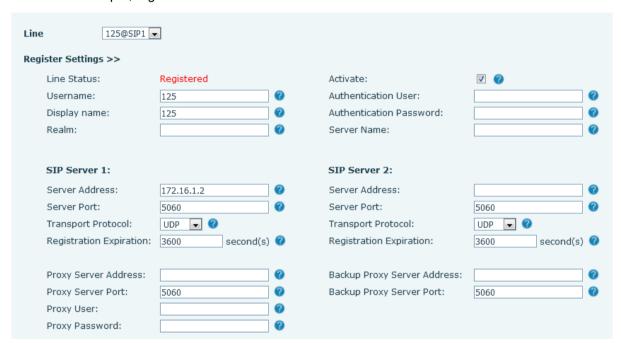


6.9 SIP Hotspot

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

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

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



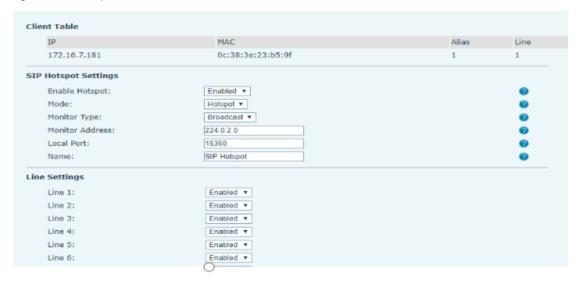
Picture - Register SIP account

Table - SIP hotspot Parameters

Parameters	Description
Device Table	If your phone is set to "SIP hotspot server", Device Table will display as Client
	Device Table which is connected to your phone.
	If your phone is set to "SIP hotspot client", Device Table will display as Server
	Device Table which you can connect to.
SIP hotspot	
Enable hotspot	Set it to be Enable to enable the feature.
Mode	Choose hotspot, phone will be a "SIP hotspot server"; Choose Client, phone will
	be 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 choose broadcast, the SIP hotspot
	phone must be broadcast.
Monitor Address	The address of broadcast, hotspot server and hotspot client must be the same.
Remote Port	Type the Remote port number.



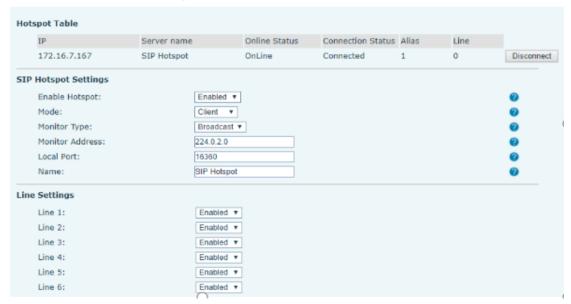
Configure SIP hotspot server:



Picture - SIP hotspot server configuration

Configure SIP hotspot client:

As a SIP hotspot client, no SIP account needs to be set. The Phone 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.



Picture - SIP hotspot client configuration

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

Call extension number:

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



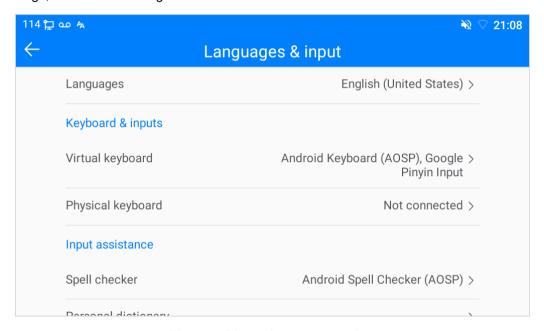
7. Phone Settings

7.1 Basic Settings

7.1.1 Language

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

Phone interface: After resetting the factory settings, the user needs to set the language; when setting the language during standby, go to [Phone Settings] >> [System] >> [Language&input]
 Settings, as shown in the figure.



Picture - Phone language setting

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



Picture - Language setting on Web page

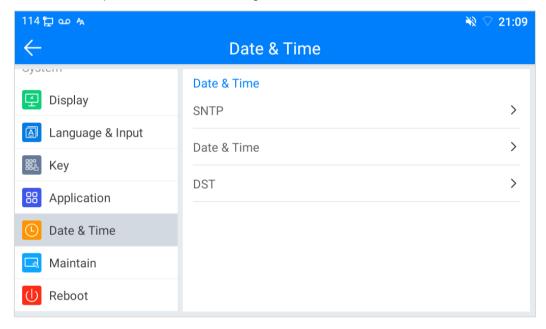
• The function box on the right side of the web interface language setting box is "Synchronize language to phone"; if selected, the phone language will be synchronized with the webpage language. If it is not selected, it will not be synchronized.



7.1.2 Time & Date

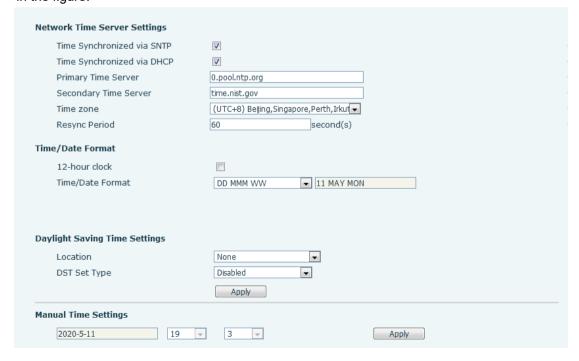
Users can set the phone time through the phone interface and web interface.

Phone end: When the phone is in the default standby state, press the [Phone Settings] >> [System] >> [Time & Date], use the up/down navigation button to edit parameters, press the [OK] to save after completion, as shown in the figure:



Picture - Set time & date on phone

Web end: Log in to the phone webpage and enter [Phone Settings] >> [Time/Date], as shown in the figure:



Picture - Set time & date on webpage



Table - Time Settings Parameters

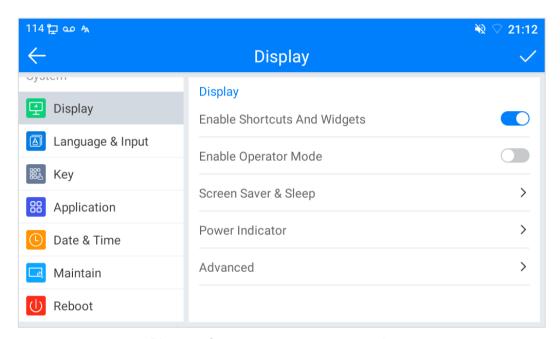
Parameters	Description	
Mode	Auto/Manual	
	Auto: Enable network time synchronization via SNTP protocol, default	
	enabled.	
	Manual: User can modify data manually.	
SNTP Server	SNTP server address	
Time zone	Select the time zone	
	Select time format from one of the following dates:	
	■ 1 JAN, MON	
	■ 1 January, Monday	
	■ JAN 1, MON	
	■ January 1, Monday	
	■ MON, 1 JAN	
	■ Monday, 1 January	
Time format	■ 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 Savings Time	Enable or Disable the Daylight Savings Time	



7.1.3 Screen

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

- Slide down the outgoing status bar page in standby mode. Slide down again to adjust phone brightness conveniently.
- Enter the [Settings] >> [System]>> [Display], and then adjust the brightness.



Picture - Set screen parameters on phone

7.1.3.1 Brightness and backlight

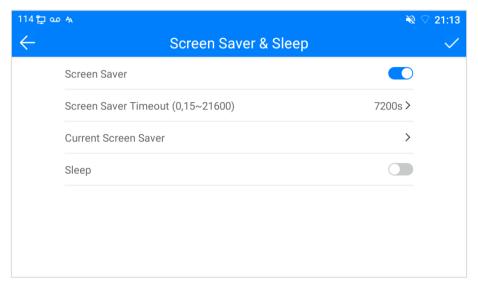
Phone interface:

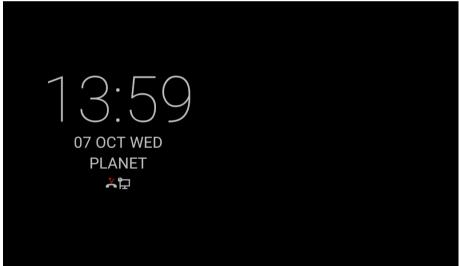
- 1) in standby mode, slide from the top edge of the screen to enter the status bar; Sliding down again makes it easy to set the brightness of the device.
- 2) the phone enters >> [setting] >> [display], which can adjust the brightness and change the wallpaper.



7.1.3.2 Screen Saver

When the phone is in default standby state, press the function menu [Phone settings]>> [System]
 >> [Display] >> [Screen Security] to enable the screen protection, as shown in the figure below:





Picture - Phone screen saver



7.1.4 Ring

When the device is in the default standby mode,

- Enter [Phone Settings] >> [Media] >> [Sound] item till you find [Tone] item.
- Enter [Sound] >> [Tone] set promote tone
- The prompt tone contains Settings such as caller ring, notification ring, touch prompt tone, etc.

7.1.5 Voice Volume

When the device is in the default standby mode,

- Enter [Phone Settings] >> [Media] >> [Sound] item till you find [Volume] item.
- Enter [Sound] >> [Volume] set promote tone.
- The prompt tone contains Settings such as caller ring, notification ring, touch prompt tone, etc.

7.1.6 Reboot

When the device is in the default standby mode,

- Enter [Phone Settings] >> [System] >> [Reboot] item.
- Click [Reboot] to indicate whether to restart the phone.
- Press [**OK**] to restart the phone or press [**Cancel**] to exit the prompt box to return to the configuration interface.



7.2 Phone book

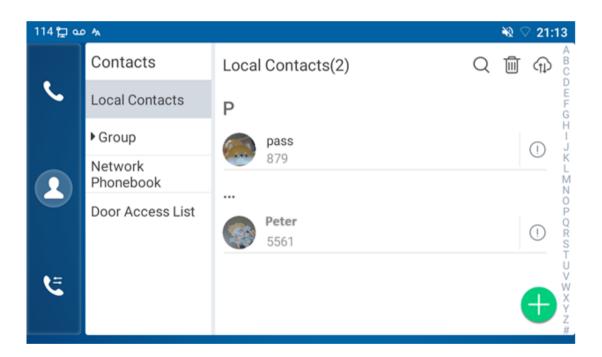
7.2.1 Local contact

Users can save contact information in their phone book and directly dial the contact's phone number in the phone book. Users can open their phone book by pressing the function menu button 'Contact' on the default main interface.

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



The device can save up to total 2000 contact records.



Picture - Local Phone book

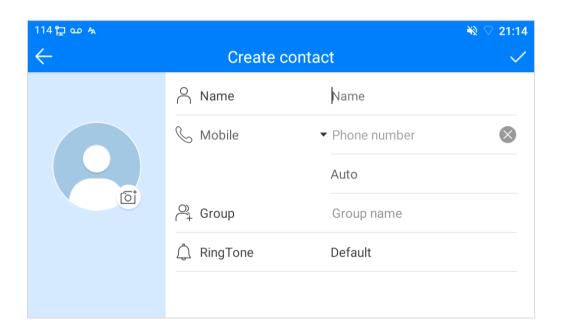
The existing records of the contact person will be sorted alphabetically. Users can browse by sliding up and down. The current record indicator tells the user the specific location of the currently located contact. Users can click on the details icon on the right side of the corresponding contact to view their information.



7.2.1.1 Add / Edit / Delete Contact

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

- Contact Name
- Tel. Number
- Mobile Number
- Other Number
- Line
- Ring Tone
- Contact Group
- Photo



Picture - Add New Contact

User can edit a contact by pressing [**Option**] >> [**Edit**] button.

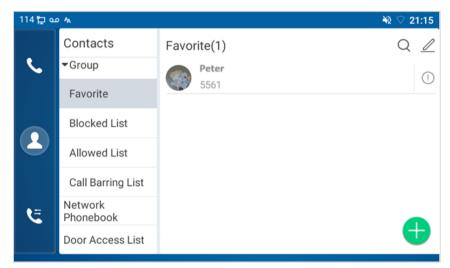
To delete a contact, user should move the record indicator to the position of the contact to be deleted, press [**Option**] >> [**Delete**] button and confirm with [**OK**].



7.2.1.2 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. In the contact list interface, press the "group" icon to switch to the group list. Click add button again to enter the page of creating groups.
- Delete groups, under groups list.
- To edit the group, press edit.



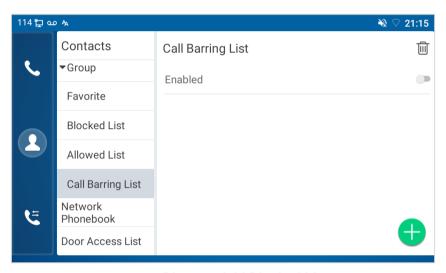
Picture - Group List



7.2.2 Blocked list

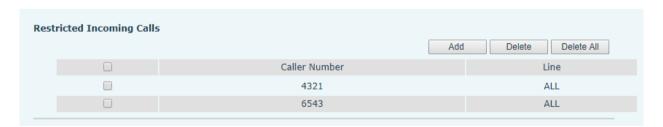
The device supports Blocked List, such as the number added to the Blocked List, the number of calls directly refused to the end, the end of the phone shows no incoming calls. (Blocked List Numbers can be called out normally)

- There are multiple ways to add a number to Blacklist on the device. It can be added directly on [Contacts] icon >> [Group] icon>> [Blacklist].
- Select any number in the phone book (both local and network) for configuration addition.
- Select any number in the call log for configuration addition.



Picture - Add Blocked List

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



Picture - Web Blacklist



7.2.3 Cloud Phone Book

7.2.3.1 Configure Cloud Phone book

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 PLANET Cloud Phonebook Service and App which is to be provided publicly soon.

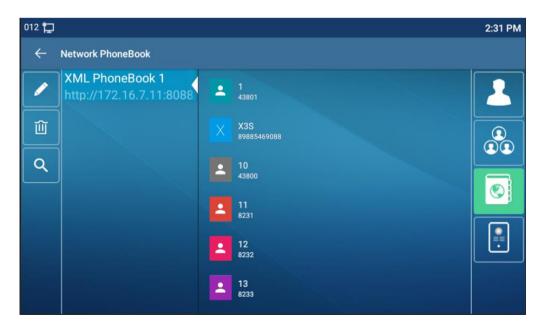


The cloud phonebook is ONLY temporarily downloaded to the device each time when it is opened on the device to ensure the user get the latest phonebook. However, the downloading may take a couple seconds depending on the network condition. Therefore, it is highly recommended for the users to save important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

Open cloud phonebook list, press [Application] >> [Contacts] icon>> [Network PhoneBook] in phonebook screen.



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.



Picture - Cloud phone book list



7.2.3.2 Downloading Cloud Phone book

In cloud phone book screen, user can open a cloud phone book 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 phone book is downloaded completely, the user can browse the contact list and dial the contact number same as in local phonebook.



Picture - Browsing Contacts in Cloud Phone book



7.3 Call Log

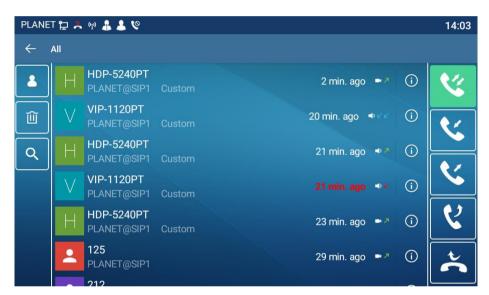
The phone can store up to 1000 call records. Users can press' Call Records' to open the call records and query the records of all incoming, outgoing, and missed calls.

In the call record screen interface, users can swipe up and down to browse call records.

Each call record will display 'Call Type', 'Caller Number/Name', and 'Call Time'. Users can further check the details of the call record by pressing the details icon on the right side of the call record and clicking on the corresponding call record to dial, or add the number from the call record to the phone book by

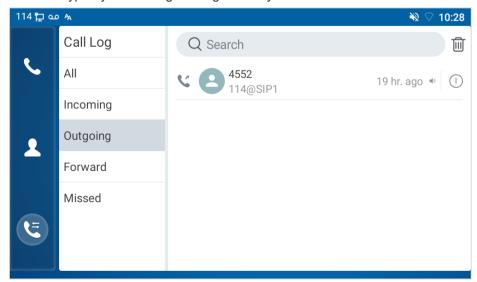
pressing [Details 1]>[Upper right+icon 1].

Users can select call records to delete by pressing the [Delete] icon (multiple call records can be selected for batch deletion), or select the selection box in the upper left to delete all call records.



Picture - Call Log

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.



Picture - Filter call record types



7.4 Function Key

- Function key Settings:
- It shows 6 DSSKEY keys in standby mode on the Screen, each of which can be customized (expansion keys are not supported). After expansion, there will be 23 Function DSSkey, a total of four pages. Users can customize and configure each DSSKEY key on each page.

Users can add/delete DSSkey pages through the webpage, and can use the page switch key to switch DSSkey pages. In addition, users can also long press each shortcut key, modify the corresponding key settings.



Picture - DSS LCD Screen Configuration

The DSS Key could be configured as followings,

- 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
- Action URL
- BLF List Key
- MCAST Paging
- MCAST Listening
- Action URL
- XML Browser

Moreover, user also can add the user-defined title for the DSS Keys, which is configured as Memory Key / Line / URL / MCAST Paging / Prefix.



User-defined title is up to 10 characters.



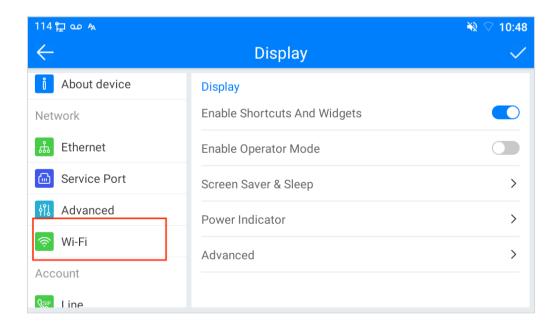
7.5 Wi-Fi

The device supports wireless Internet access and has built-in Wi-Fi without external devices. When the device is in the default standby mode,

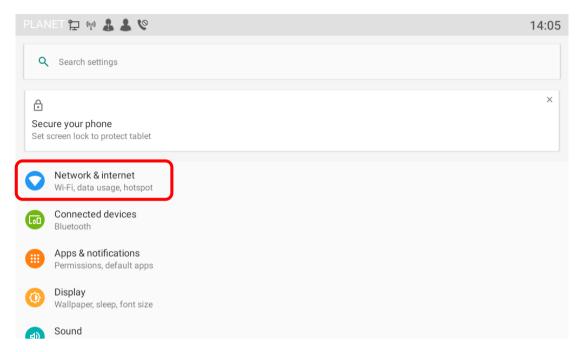
Press [Application] till you find the [Settings]>> [Network &Internet].

- Enter [Wi-Fi] item.
- Enable the Wi-Fi to search the current wireless network automatically.
- Select to the available network, enter the user name and password to connect successfully.



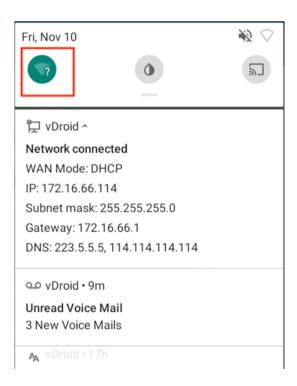






Picture - WIFI settings

You can also directly enter the configuration by dragging down the status bar and long pressing the
 Wi Fi icon above the status bar.





7.6 Headset

7.6.1 Wired Headset

- The device supports wired Headset with RJ9 interface, which can play incoming call sound and talk with Headset.
- After the phone is connected to the headset, the default DSS key of headset will be green light which indicates that the headset can be used normally.
- On the webpage [**Phone settings**] >> [**Features**], you can set the headset answering function, and the ring tone for headset.



Picture - Headset function settings



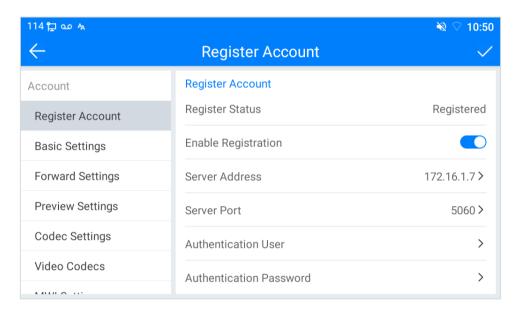
7.7 Advanced

7.7.1 Line Configurations

Phone access [Phone settings] >> [Account] >> [Line], select [Register Account] to configure the SIP line on the phone.

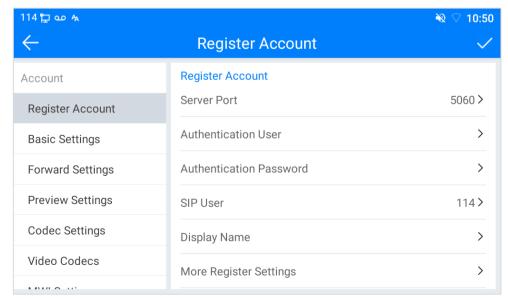


To enter the phone account registration, a password is required, and the default password is "admin"



Picture - SIP address and account information

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.



Picture - Configure Advanced Line Options

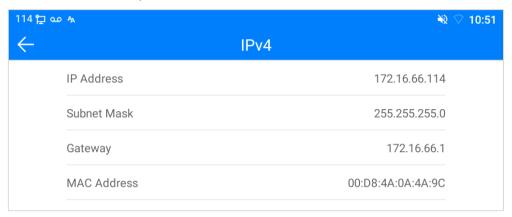


7.7.2 Network Settings

7.7.2.1 Network Settings

Phone access [**Phone Settings**] >> [**Network**] >> [**Ethernet**], you can configure the SIP line on the phone.

There are 2 connection mode options: DHCP and Static IP.



Picture - DHCP network mode

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

 Obtain DNS Server automatically: It is enabled as default. "Enable" means phone will get DNS address from DHCP server and "disable" means not.



Picture - Static IP network mode

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

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



7.7.2.2 QoS & VLAN

Access [Phone Settings]>> [Network]>> [Advance]

■ LLDP

Link Layer Discovery Protocol. LLDP is a vendor independent link layer protocol used by network devices for advertising their identity, capabilities to neighbors on a LAN segment.

Phone could use LLDP to find the VLAN switch or other VLAN devices and use LLDP to learn feature to apply the VLAN ID from VLAN switch to phone its self.

■ CDP

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

Table - QoS & VLAN

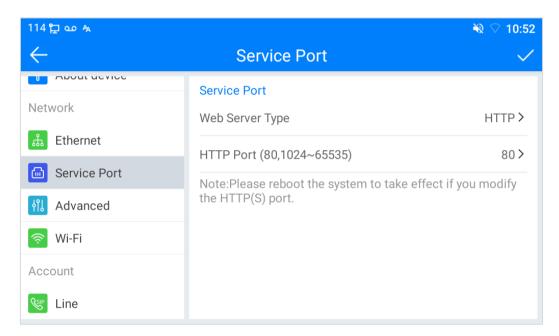
Parameters	Description	
LLDP setting		
Report	Enable LLDP	
Interval	LLDP requests interval time	
Learning	apply the learned VLAN ID to the phone configuration	
QoS		
QoS Mode	configure SIP DSCP and audio DSCP	
WAN VLAN		
WAN VLAN	WAN port VLAN configuration	
LAN VLAN		
LAN VLAN	LAN port VLAN configuration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



7.7.2.3 Web Server Type

Access [Phone Settings]>> [Network]>> [Service Port] to configure the Web Server mode.

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 pone web page.

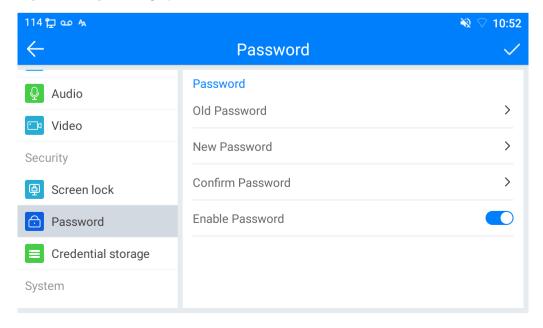


Picture - The phone configures the web server type

7.7.3 Set The Secret Key

When the device is in the default standby mode,

- Select [Phone Settings]>> [System]>> [Password]
- Click [Password] to change password.

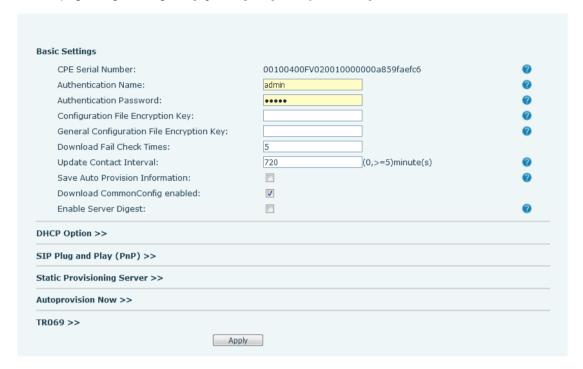


Picture - Menu password and Settings



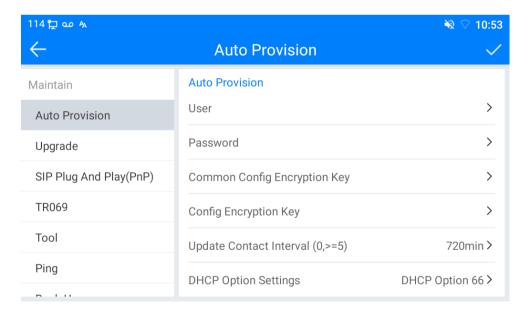
7.7.4 Maintenance

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



Picture - Page auto provision Settings

LCD: Enter [Phone Settings] >> [System] >> [Maintain] >> [Auto Provision].



Picture - Phone auto provision settings

The devices support SIP PnP, DHCP options, Static provision, TR069. If all of the 4 methods are enabled, when the terminal starts, the configuration obtained first will be used for automatic deployment according to the order of obtaining the configuration.

Transferring protocol: FTP 、 TFTP 、 HTTP 、 HTTPS



Table - Auto Provision

Parameters	Description		
Basic settings			
CPE Serial Number	Display the device SN		
Authentication Name	The user name of provision server		
Authentication Password	The password of provision server		
Configuration File	If the device configuration file is encrypted , user should add the		
Encryption Key	encryption key here		
General Configuration File	If the common configuration file is encrypted, user should add		
Encryption Key	the encryption key here		
Download Fail Check	If there download is failed, phone will retry with the configured		
Times	times.		
Update Contact Interval	Phone will update the phonebook with the configured interval		
	time. If it is 0, the feature is disabled.		
Save Auto Provision	Save the HTTP/HTTPS/FTP user name and password. If the		
Information	provision URL is kept, the information will be kept.		
Download Common Config enabled	Whether phone will download the common configuration file.		
- II 0	When the feature is enable, if the configuration of server is		
Enable Server Digest	changed, phone will download and update.		
DHCP Option			
	Configure DHCP option, DHCP option supports DHCP custom		
Option Value	option DHCP option 66 DHCP option 43, 3 methods to get the		
	provision URL. The default is Option 66.		
Custom Ontion Value	Custom Option value is allowed from 128 to 254. The option		
Custom Option Value	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)			
	Whether enable PnP or not. If PnP is enable, phone will send a		
Frakla OID DaD	SIP SUBSCRIBE message with broadcast method. Any server		
Enable SIP PnP	can support the feature will respond and send a Notify with URL		
	to phone. Phone could get the configuration file with the URL.		
Server Address	Broadcast address. As default, it is 224.0.0.0.		
Server Port	PnP port		
Transport Protocol	PnP protocol, TCP or UDP.		
Update Interval	PnP message interval.		
Static Provisioning Server	Static Provisioning Server		
Conver Address	Provisioning server address. Support both IP address and		
Server Address	domain address.		
	The configuration file name. If it is empty, phone will request the		
Configuration File Name	common file and device file which is named as its MAC address.		
	The file name could be a common name, \$mac.cfg, \$input.cfg.		

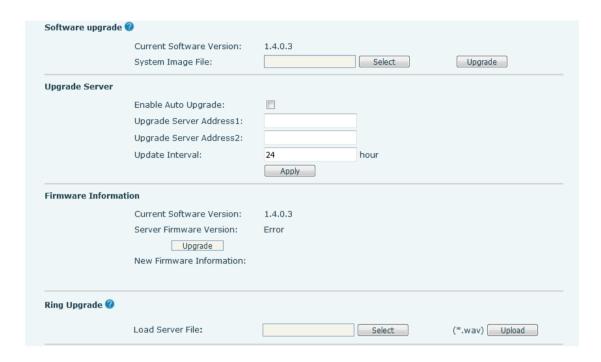


	The file format supports CFG/TXT/XML.	
Protocol Type	Transferring protocol type → supports FTP \ TFTP \ HTTP and	
	HTTPS	
Update Interval	Configuration file update interval time. As default it is 1, means	
	phone will check the update every 1 hour.	
	Provision Mode.	
Undata Mada	1. Disabled.	
Update Mode	2. Update after reboot.	
	3. Update after interval.	
TR069		
Enable TR069	Enable TR069 after selection	
ACS Server Type	There are 2 options Serve type, common and CTC.	
ACS Server URL	ACS server address	
ACS User	ACS server username (up to is 59 character)	
ACS Password	ACS server password (up to is 59 character)	
Enable TR069 Warning	If TR069 is enabled, there will be a prompt tone when	
Tone	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	



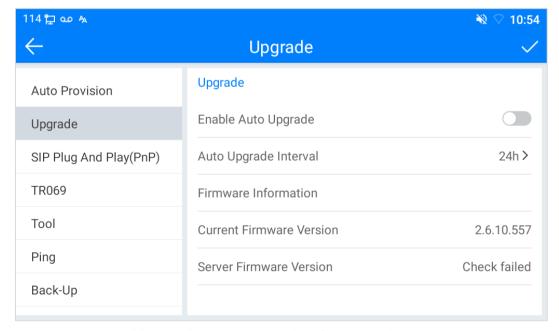
7.7.5 Firmware Upgrade

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



Picture - Web page firmware upgrade

LCD interface: Go to [Menu] >> [Maintain] >> [Upgrade] (Future features)



Picture - Firmware upgrade information display



Table - Firmware upgrade

Parameter	Description	
Upgrade server		
	Enable automatic upgrade, If there is a new version txt and	
Enable Auto Upgrade	new software firmware on the server, phone will show a	
	prompt upgrade message after Update Interval.	
Upgrade Server Address1	Set available upgrade server address.	
Upgrade Server 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.	
	If there is a new version txt and new software firmware on	
	the server, the page will display version information and	
[Upgrade] button	upgrade button will become available; Click [Upgrade]	
	button to upgrade the new firmware.	
New version description information	When there is a corresponding TXT file and version on the	
	server side, the TXT and version information will be	
	displayed under the new version description information.	

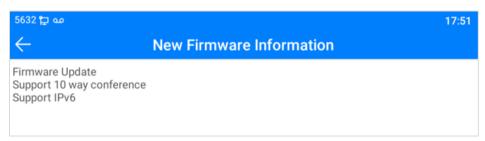
- The file requested from the server is a TXT file called vendor_model_hw1_0.txt.Hw followed by the hardware version number, it will be written as hw1_0 if no difference on hardware. All Spaces in the filename are replaced by underline.
 - For example, the txt file name requested by the phone is voip_ICF-2000_ hw1_ 0.txt
- The URL requested by the phone is HTTP:// server address/vendor_Model_hw10
- .txt : The new version and the requested file should be placed in the download directory of the HTTP server.
- TXT file format must be UTF-8
- vendor_model_hw10.TXT The file format is as follows:



```
Version=1.6.3 #Software version
Firmware=xxx/xxx.z #URL
BuildTime=2018.09.11 20:00
Info=TXT

Xxxxx //Release Note
Xxxxx
```

 After the interval of update cycle arrives, if the server has available files and versions, the phone will prompt as shown below. Click [view] to check the version information and upgrade



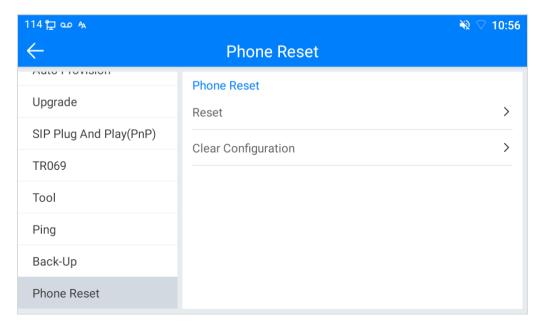
Picture - Firmware upgrade

7.7.6 Factory Reset

The phone is in default standby mode.

- Press [Phone Settings] to find [System]>> [Maintain]>> [Phone Reset].
- Press the [Reset] button to select the file to be cleared.

Press [$\sqrt{}$] to clear after completion. When you select clear configuration file and clear all, the phone will restart automatically after clearing.



Picture - Reset to default



8. Web Configurations

8.1 Web Page Authentication

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

8.2 System >> Information

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

- Model
- Hardware Version
- Software Version
- Uptime

And summarization of network status,

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

Besides, summarization of SIP account status,

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

8.3 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.

8.4 System >> Configurations

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

Clear Configurations

Select the module in the configuration file to clear.

SIP: account configuration.

AUTOPROVISION: automatically upgrades the configuration

TR069:TR069 related configuration

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

DSS Key: DSS Key configuration



■ Clear Tables

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

■ Reset Phone

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

8.5 System >> Upgrade

Upgrade the phone software version, customized ringtone, background, DSS Key icon, etc., can also be upgraded to delete the file. Ring tone support ".wav" format.

8.6 System >> Auto Provision

The Auto Provision settings help IT manager or service provider to easily deploy and manage the devices in mass volume.

8.7 System >> Tools

Tools provided in this page help users to identify issues at trouble shooting.

8.8 System >> Reboot Phone

This page can restart the phone.

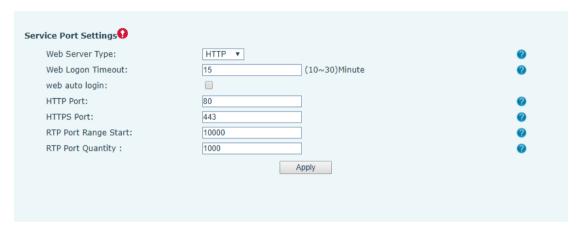


9. Network >> Basic

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

9.1 Network >> Service Port

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



Picture - Service Port Settings

Table - Service port

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

9.2 Network >> Advanced

Advanced network Settings are typically configured by the IT administrator to improve the quality of the phone service.



9.3 Line >> SIP

Configure the Line service configuration on this page.

Table - Line configuration on the web page

Parameters	Description
Register Settings	
Line Ctatus	Display the current line status at page loading. To get the up
Line Status	to date line status, user has to refresh the page manually.
Activate	Whether the service of the line is activated
Username	Enter the username of the service account.
Authentication User	Enter the authentication user of the service account
Display Name	Enter the display name to be sent in a call request.
Authentication Password	Enter the authentication password of the service account
Realm	Enter the SIP domain if requested by the service provider
Server Name	Input server name.
SIP Server 1	
Server Address	Enter the IP or FQDN address of the SIP server
Server Port	Enter the SIP server port, default is 5060
Transport Protocol	Set up the SIP transport line using TCP or UDP or TLS.
Registration Expiration	Set SIP expiration date.
SIP Server 2	
Server Address	Enter the IP or FQDN address of the SIP server
Server Port	Enter the SIP server port, default is 5060
Transport Protocol	Set up the SIP transport line using TCP or UDP or TLS.
Registration Expiration	Set SIP expiration date.
SIP Proxy Server Address	Enter the IP or FQDN address of the SIP proxy server.
Proxy Server Port	Enter the SIP proxy server port, default is 5060.
Proxy User	Enter the SIP proxy user.
Proxy Password	Enter the SIP proxy password.
Backup Proxy Server Address	Enter the IP or FQDN address of the backup proxy server.
Backup Proxy Server Port	Enter the backup proxy server port, default is 5060.
Basic Settings	
Enable Auto Answering	Enable auto-answering, the incoming calls will be answered
Lilable Auto Allswelling	automatically after the delay time
Auto Answering Delay	Set the delay for incoming call before the system
Auto Answering Delay	automatically answered it
Call Forward Unconditional	Enable unconditional call forward, all incoming calls will be
Can I di Ward Choonditional	forwarded to the number specified in the next field
Call Forward Number for	Set the number of unconditional call forward
Unconditional	
Call Forward on Busy	Enable call forward on busy, when the phone is busy, any



	incoming call will be forwarded to the number specified in the next field.
Call Forward Number for Busy	Set the number of call forward on busy .
Call Forward on No Answer	Enable call forward on no answer, when an incoming call is not answered within the configured delay time, the call will be forwarded to the number specified in the next field.
Call Forward Number for No Answer	Set the number of call forward on no answer.
Call Forward Delay for No Answer	Set the delay time of not answered call before being forwarded.
Transfer Timeout	Set the timeout of call transfer process.
Conference Type	Set the type of call conference, Local=set up call conference by the device itself, maximum supports two remote parties, Server=set up call conference by dialing to a conference room on the server
Server Conference Number	Set the conference room number when conference type is set to be Server
Subscribe For Voice Message	Enable the device to subscribe a voice message waiting notification, if enabled, the device will receive notification from the server if there is voice message waiting on the server
Voice Message Number	Set the number for retrieving voice message
Voice Message Subscribe Period	Set the interval of voice message notification subscription
Enable Hotline	Enable hotline configuration, the device will dial to the specific number immediately at audio channel opened by off-hook handset or turn on hands-free speaker or headphone
Hotline Delay	Set the delay for hotline before the system automatically dialed it
Hotline Number	Set the hotline dialing number
Dial Without Registered	Set call out by proxy without registration
Enable Missed Call Log	If enabled, the phone will save missed calls into the call history record.
DTMF Type	Set the DTMF type to be used for the line
DTMF SIP INFO Mode	Set the SIP INFO mode to send '*' and '#' or '10' and '11'
Enable DND	Enable Do-not-disturb, any incoming call to this line will be rejected automatically
Subscribe For Voice Message	Enable the device to subscribe a voice message waiting notification, if enabled, the device will receive notification from the server if there is voice message waiting on the server
Use VPN	Set the line to use VPN restrict route
Use STUN	Set the line to use STUN for NAT traversal
Enable Failback	Whether to switch to the primary server when it is available.
Failback Interval	A Register message is used to periodically detect the time interval for the availability of the main Proxy.
Signal Failback	Multiple proxy cases, whether to allow the invite/register



	request to also execute failback.
Signal Retry Counts	The number of attempts that the SIP Request considers proxy
	unavailable under multiple proxy scenarios.
Cadaaa Cattinaa	Set the priority and availability of the codecs by adding or
Codecs Settings	remove them from the list.
Video Codecs	Select video code to preview video.
Advanced Settings	
	When this setting is enabled, the features in this section will
	not be handled by the device itself but by the server instead.
Use Feature Code	In order to control the enabling of the features, the device will
	send feature code to the server by dialing the number
	specified in each feature code field.
Enable DND	Set the feature code to dial to the server
Disable DND	Set the feature code to dial to the server
Enable Call Forward Unconditional	Set the feature code to dial to the server
Disable Call Forward Unconditional	Set the feature code to dial to the server
Enable Call Forward on Busy	Set the feature code to dial to the server
Disable Call Forward on Busy	Set the feature code to dial to the server
Enable Call Forward on No Answer	Set the feature code to dial to the server
Disable Call Forward on No Answer	Set the feature code to dial to the server
Enable Blocking Anonymous Call	Set the feature code to dial to the server
Disable Blocking Anonymous Call	Set the feature code to dial to the server
Call Waiting On Code	Set the feature code to dial to the server
Call Waiting Off Code	Set the feature code to dial to the server
Send Anonymous On Code	Set the feature code to dial to the server
Send Anonymous Off Code	Set the feature code to dial to the server
	Enable SIP encryption such that SIP transmission will be
SIP Encryption	encrypted
DTD Cooperation	Enable RTP encryption such that RTP transmission will be
RTP Encryption	encrypted
	Set the line to enable call ending by session timer
Enable Session Timer	refreshment. The call session will be ended if there is not new
	session timer event update received after the timeout period
Session Timeout	Set the session timer timeout period
Enable BLF List	Enable/Disable BLF List
DI E Liet Number	BLF List allows one BLF key to monitor the status of a group.
BLF List Number	Multiple BLF lists are supported.
Deepense Single Codes	If setting enabled, the device will use single codec in
Response Single Codec	response to an incoming call request



	T
	The registered server will receive the subscription package from ordinary application of BLF phone.
BLF Server	Please enter the BLF server, if the sever does not support
BLI Gerver	subscription package, the registered server and subscription
	server will be separated.
	Set the line to use dummy UDP or SIP OPTION packet to
Keep Alive Type	keep NAT pinhole opened
Kaan Aliya Intanial	
Keep Alive Interval	Set the keep alive packet transmitting interval
Keep Authentication	Keep the authentication parameters from previous
Disabis a Assaulance Call	authentication
Blocking Anonymous Call	Reject any incoming call without presenting caller ID
User Agent	Set the user agent, the default is Model with Software Version.
Specific Server Type	Set the line to collaborate with specific server type
SIP Version	Set the SIP version
Anonymous Call Standard	Set the standard to be used for anonymous
Local Port	Set the local port
Ring Type	Set the ring tone type for the line
Enable user=phone	Sets user=phone in SIP messages.
Use Tel Call	Set use tel call
A TOD	Using TCP protocol to guarantee usability of transport for SIP
Auto TCP	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
	Enables the use of strict routing. When the phone receives
Enable Strict Proxy	packets from the server, it will use the source IP address, not
	the address in via field.
Convert URI	Convert not digit and alphabet characters to %hh hex code
	Whether to add quote in display name, i.e. "PLANET" vs
Use Quote in Display Name	PLANET
Enable GRUU	Support Globally Routable User-Agent URI (GRUU)
Sync Clock Time	Time Sync with server
Facility in the second second	With the post-call hold capture package enabled, you can see
Enable Inactive Hold	that in the INVITE package, SDP is inactive.
Caller ID Header	Set the Caller ID Header
Use 182 Response for Call waiting	Set the device to use 182 response code at call waiting
	response
Enable Feature Sync	Feature Sync with server
Enable SCA	Enable/Disable SCA (Shared Call Appearance)
CallPark Number	Set the CallPark number.
Server Expire	Set the timeout to use the server.
· · · · · · · · · · · · · · · · · · ·	



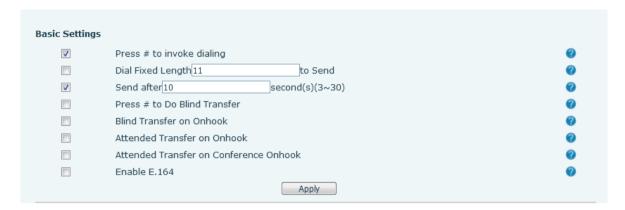
TLS Version	Choose TLS Version.		
uaCSTA Number	Set uaCSTA Number.		
Enable Click To Talk	With the use of special server, click to call out directly after		
	enabling.		
Enable Chgport	Whether port updates are enabled.		
VQ Name	Open the VQ name for VQ RTCP-XR.		
VQ Server	Open VQ server address for 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		
Enable MAC Header	agent with MAC or not.		
Enable Register MAC Header	Whether to open the registration is user agent with MAC or		
Enable Register MAC Header	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	SIP Global Settings		
Strict Branch	Set up to strictly match the Branch field.		
Enable Group	Set open group.		
Enable RFC4475	Set to enable RFC4475.		
Enable Strict UA Match	Enable strict UA matching.		
Registration Failure Retry Time	Set the registration failure retry time.		
Local SIP Port	Modify the phone SIP port.		
Enable uaCSTA	Set to enable the uaCSTA function.		

9.4 Line >> SIP Hotspot

Please refer to 6.9 SIP Hotspot.



9.5 Line >> Dial Plan



Picture - Dial plan settings

Table - Phone 7 dialing methods

Parameters	Description
Dross # to invoke dialing	The user dials the other party's number and then
Press # to invoke dialing	adds the # number to dial out;
Dial Fixed Langth	The number entered by the user is automatically
Dial Fixed Length	dialed out when it reaches a fixed length
Timeout dial	The system dials automatically after timeout
	The user enters the number to be transferred and
Press # to Do Blind Transfer	then presses the "#" key to transfer the current call
	to a third party
	After the user enters the number, hang up the
Blind Transfer on Onhook	handle or turn off the hands-free function to
	transfer the current call to a third party.
	Hang up the handle or press the hands-free button
Attended Transfer on Onhook	to realize the function of attention
Attended Transfer on Officor	-transfer, which can transfer the current call to a
	third party.
Attended Transfer on Conference	During a three-way call, hang up the handle and
Onhook	the remaining two parties remain on the call.
Enable E.164	Please refer to e. 164 standard specification



Add dialing rules:



Picture - Custom setting of dial - up rules

Table - Dial - up rule configuration table

Parameters	Description	
	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	
D'al mala	Peer rules.	
Dial rule	In prefix matching, only part of the number is entered followed by T. The	
	mapping with then take place whenever these digits are dialed. Prefix mode	
	supports a maximum of 30 digits.	
Note: Two differ	ent special characters are used.	
■ x Matche	■ 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	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.	
Set the Alias. This is the text to be added, replaced or deleted. It is an o		
Alias	item.	
Note: There are	four types of aliases.	
■ all: xxx – x	xx will replace the phone number.	
■ add: xxx –	■ 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.	
	Set the number of characters to be deleted. For example, if this is set to 3,	
Length	the phone will delete the first 3 digits of the phone number. It is an optional	
	item.	



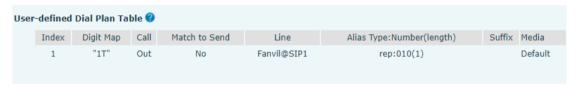
This feature allows the user to create rules to make dialing easier. There are several different options for dialing rules. The examples below will show how this can be used.

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



Picture - Dial rules table (1)

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



Picture - Dial rules table (2)

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

x -- Matches any single digit that is dialed.

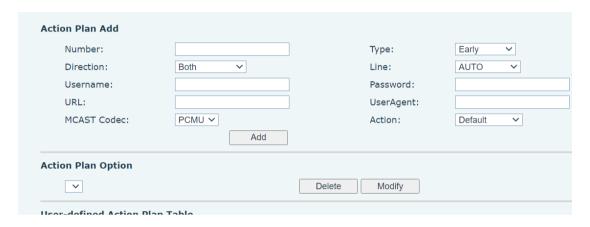
[] -- Specifies a range of numbers to be matched. It may be a range, a list of ranges separated by commas, or a list of digits.



9.6 Line >> Action Plan

Action plan: a technical implementation defined and designed for remote control and behavior linkage between terminal equipment and other equipment. That is, when an event occurs on the terminal, the terminal can execute an action, which is completed according to a plan rule.

Log in to the phone web, visit [Line] >[Action plan], and configure action plan rules.



Picture - Action Plan

Table - IP camera

Parameter	Description	
Action	Default: when the rule is triggered, the phone 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 phone accesses the RTSP URL configured	
	by the URL to display the video.	
	MCAST-XFER: when the rule is triggered, the phone converts the incoming call or	
	multicast into multicast and sends it to the set multicast address port.	
	Record: the phone automatically turns on the recording function when the rule is	
	triggered.	
	Mute: the phone will mute automatically when the rule is triggered.	
	Answer: when the rule is triggered, the phone automatically answers the incoming	
	call.	
Number	Auxiliary phone number	
Туре	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	



9.7 Line >> Basic Settings

Set up the register global configuration.

Table - Set the line global configuration on the web page

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
Certification File	
TLS Certification File	Upload or delete the TLS certification file used for encrypted SIP
	transmission.

9.8 Line>>RTCP-XR

Parameters	Description
VQ RTCP-XR Settings	
VQ RTCP-XR Session Report:	Enable VQ RTCP-XR Session Report.
VQ RTCP-XR Interval Report	Set the Interval of Session Report.
Period for Interval Report	Valid values range from 5 to 99,the defualt value is 60.
Warning threshold for Moslq	Valid values range from 15 to 40,the defualt value is 25.
Critical threshold for Moslq	Valid values range from 15 to 40,the defualt value is 25.
Warning threshold for Delay	Valid values range from 10 to 2000,the defualt value is 150.
Critical threshold for Delay(10~2000)	Valid values range from 10 to 2000,the defualt value is 200.
Display Report options on phone	It is enabled by default.
Display Report options on Web	It is enabled by default.



9.9 Phone settings >> Features

Configuration phone features.

Table - General function Settings

Parameters	Description
Basic Settings	
Final Call Marking	Enable this setting to allow user to take second incoming
Enable Call Waiting	call during an established call. Default enabled.
Enable Call Transfer	Enable Call Transfer.
Semi-Attended Transfer	Enable Semi-Attended Transfer by selecting it
Enable 3-Way Conference	Enable 3-way conference by selecting it
Enable Auto Onhook	The phone will hang up and return to the idle
Enable Auto Officok	automatically at hands-free mode
	Specify Auto Onhook time, the phone will hang up and
Auto Onhook Time	return to the idle automatically after Auto Hand down
Auto Officok Time	time at hands-free mode, and play dial tone Auto Onhook
	time at handset mode
Ring for Headset	Enable Ring for Handset by selecting it, the phone plays
King for Fleadset	ring tone from handset.
	Enable this feature, headset plugged in the phone, user
Auto Headset	press 'answer' key or line key to answer a call with the
	headset automatically.
	When enabled, the phone is muted, there is no ringing
Enable Silent Mode	when calls, you can use the volume keys and mute key
	to unmute.
Disable Mute for Ring	When it is enabled, you can't mute the phone
Enable Default Line	If enabled, user can assign default SIP line for dialing out
Enable Belaut Line	rather than SIP1.
Enable Auto Switch Line	Enable phone to select an available SIP line as default
Enable Auto Gwitch Eine	automatically
Default Ext Line	Select the default line to use for outgoing calls
Ban Outgoing	If you select Ban Outgoing to enable it, and you cannot
Ban Outgoing	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.
Emergency Call Number	
Search path	Select the search path.
LDAP Search	Select from with one LDAP for search
Emergency Call Number	Configure the Emergency Call Number. Despite the keyboard is locked, you can dial the emergency call number
Restrict Active URI Source IP	Set the device to accept Active URI command from specific IP address. More details please refer to this link
Push XML Server	Configure the Push XML Server, when phone receives request, it will determine whether to display corresponding content on the phone which sent by the specified server or not.
Enable Pre-Dial	Disable this feature, user enter number will open audio channel automatically. Enable the feature, user enter the number without opening audio channel.
Enable Multi Line	If enabled, up to 10 simultaneous calls can exist on the phone, and if disabled, up to 2 simultaneous calls can exist on the phone.
Line Display Format	Custom line format : SIPn/SIPn : xxx/xxx@SIPn
Contact As White List Type	NONE/BOTH/DND White List/FWD White List
Block XML When Call	Disable XML push on call.
SIP notify	When enabled, the phone displays the information when it receives the relevant notify content.
Tone Settings	
Enable Holding Tone	When turned on, a tone plays when the call is held
Enable Call Waiting Tone	When turned on, a tone plays when call waiting
Play Dialing DTMF Tone	Play DTMF tone on the device when user pressed a phone digits at dialing, default enabled.
Play Talking DTMF Tone	Play DTMF tone on the device when user pressed a phone digits during taking, default enabled.
DND Settings	
DND Option	Select to take effect on the line or on the phone or close.
Enable DND Timer	Enable DND Timer, If enabled, the DND is automatically turned on from the start time to the off time.



DND Start Time	Set DND Start Time
DND End Time	Set DND End Time
Intercom Settings	
Enable Intercom	When intercom is enabled, the device will accept the incoming call request with a SIP header of Alert-Info instruction to automatically answer the call after specific delay.
Enable Intercom Mute	Enable mute mode during the intercom call
Enable Intercom Tone	If the incoming call is intercom call, the phone plays the intercom tone
Enable Intercom Barge	Enable Intercom Barge by selecting it, the phone auto answers the intercom call during a call. If the current call is intercom call, the phone will reject the second intercom call
Response Code Settings	
DND Response Code	Set the SIP response code on call rejection on DND
Busy Response Code	Set the SIP response code on line busy
Reject Response Code	Set the SIP response code on call rejection
Password Dial Settings	
Enable Password Dial	Enable Password Dial by selecting it, When number entered is beginning with the password prefix, the following N numbers after the password prefix will be hidden as *, N 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, then you enter the number 34567, it will display 3**67 on the phone.
Encryption Number Length	Configure the Encryption Number length
Password Dial Prefix	Configure the prefix of the password call number
Power LED	
Common	Standby power lamp state, off when off, open is always bright red. Off by default.
SMS/MWI	The status of power lamp when there is unread short message/voice message, including off/on/slow flash/quick flash, default slow flash.
Missed	The state of the power lamp when there is a missed call, including off/on/slow flash/quick flash, the default slow flash.
Talk/Dial	In the talk/dial state, the power lamp state, off is off, on is always red bright, the default is off.
	Power lamp status when there is an incoming call,
Ringing	including off/on/slow flash/quick flash, default flash.



	flash/quick flash, off by default.	
Hold/Hold	The power lamp state, including off/on/slow flash/quick	
Hold/Held	flash, is turned off by default when left/retained.	
Notification Popups		
	When the handle is not hung back after opening,	
	registration fails, IP acquisition fails, Tr069 connection	
Display Other Popup	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.	



9.10 Phone settings >> Media Settings

Change voice Settings.

Table - Voice settings

Parameter	Description
	Select enable or disable voice encoding:
Codosa Sattings	G.711A/U,G.722,G.729, G.726-16,G726-24,G726-
Codecs Settings	32,G.726-40,
	ILBC,opus
Video codec	
Video codec	Select to enable video encoding:H264
Media Setting	·
DTME Davids of Time	Enter the DTMF payload type, the value must be
DTMF Payload Type	96~127.
II - I - I Min O di	Set the earphone's radio volume gain to fit different
Headset Mic Gain	models of earphones.
Opus playload type	Set Opus load type, range 96~127.
ODLIC Commits Date	Set Opus sampling rate, including opus-nb (8KHz)
OPUS Sample Rate	and opus-wb (16KHz).
II DO Devide ed Time	Set the ILBC Payload Type, the value must be
ILBC Payload Type	96~127.
ILBC Payload Length	Set the ILBC Payload Length
	Configure a minimum response time, which defaults
Onhook Time	to 200ms
Enable the patting spring to generate Flash	Whether to turn on the plug spring to generate Flash
	Set the bit rate of video:64kbps , 192kbps , 256kbps ,
Video bit rate	384kbps · 512kbps · 768kbps · 1Mbps · 1.6Mbps ·
	2Mbps,3Mbps,4Mbps
\(\(\) \(Set the video frame rate: 5fps, 10fps, 15fps, 20fps,
Video frame rate	25fps,30fps
Video resolution	Set Video resolution: CIF,VGA,4CIF,720P
U 004B and an I Toma	Set the H264 Payload Type , the value must be
H.264Payload Type	96~127.
Display splicing frame	Whether to start displaying splicing frames
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.
Ring Type	Type1-Type9
1	•



9.11 Phone 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 phone, which allows user to send a Real Time Transport Protocol (RTP) stream to the pre-configured multicast address without involving SIP signaling. You can also configure the phone to receive an RTP stream from pre-configured multicast listening address without involving SIP signaling. You can specify up to 10 multicast listening addresses.

Table - Multicast parameters

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

9.12 Phone settings >> Action

Action URL List

Event	Description
Setup Completed	The telephone set is started successfully.
Registration Succeeded	An account is registered successfully.
Registration Disabled	Account registration is canceled.
Registration Failed	Account registration fails.
Phone Off Hooked	The telephone set is hooked off.
Phone On Hooked	The telephone set is hooked on.
Incoming call	A new incoming call is received.
Outgoing call	An outgoing call is made.
Call established	A call is connected.
Call terminated	A call is terminated.
DND Enabled	Do Not Disturb (DND) is enabled.
DND Disabled	DND is disabled.
Unconditional Call Forward Enabled	Unconditional call forwarding is enabled.
Unconditional Call Forward Disabled	Unconditional call forwarding is disabled.
Call Forward on Busy Enabled	Call forwarding on busy is enabled.
Call Forward on Busy Disabled	Call forwarding on busy is disabled.
Call Forward on No Answer Enabled	Call forwarding on no answer is enabled.
Call Forward on No Answer Disabled	Call forwarding on no answer is disabled.
Call transfer	Call transfer.



Unattended Call Transfer	Unattended call transfer.
Attended Call Transfer	Attended cal transfer.
Call hold	Call hold.
Call resume	Call hold is canceled.
Mute	A call is muted.
Unmute	A call is unmuted.
Missed calls	Missed calls are listed.
IP Changed	The IP address of the telephone set is
	changed.
Idle To Busy	The telephone set switches from the standby
	screen to other screens.
Busy To Idle	The telephone set switches from other
	screens to the standby screen.
MWI	Message.
SMS	SMS message.
Start reboot	The telephone set is restarted.

Variable List

Variable	Description
\$mac	Device MAC address.
\$ip	Current available IP address.
\$model	Model of the telephone set.
\$firmware	Software version.
\$active_uri	Session Initiation Protocol (SIP) URI of the current active account,
	which is valid in incoming calls, outgoing calls, and conversations
\$active_user	User account of the SIP URI of the current active account, which is
	valid in incoming calls, outgoing calls, and conversations
\$active_host	Server of the SIP URI of the current active account, which is valid
	in incoming calls, outgoing calls, and conversations
\$local	local SIP URI (valid in incoming calls, outgoing calls, and
	conversations)
\$remote	remote SIP URI (valid in incoming calls, outgoing calls, and
	conversations)
\$display_local	Local display name (phone number displayed if no display name is
	set) (valid in incoming and outgoing calls)
\$display_remote	remote display name (phone number displayed if no display name
	is set) (valid in incoming and outgoing calls)
\$call_id	Call ID (valid in incoming calls, outgoing calls, and conversations)
\$duration	Call duration (valid when a conversation ends)
\$date_time	Acquisition time
\$memory_free	Memory
\$flash_free	Flash memory (not implemented yet)



\$line	Call line (valid in incoming calls, outgoing calls, conversations, and
	registration)
\$local_user	Local users in a conversation (valid in incoming calls, outgoing
	calls, and conversations)
\$local_server	Server used in a SIP call (valid in incoming calls, outgoing calls,
	and conversations)
\$local_domain	Domain of a SIP cal (valid in incoming calls, outgoing calls, and
	conversations)
\$local_number	Local phone number during a call (valid in incoming calls, outgoing
	calls, and conversations)
\$local_displayname	Display name of the local phone number during a call (valid in
	incoming calls, outgoing calls, and conversations)
\$remote_number	Remote phone number during a call (valid in incoming calls,
	outgoing calls, conversations, and unanswered incoming calls)
\$remote_displayname	Display name of the remote phone number during a call (valid in
	incoming calls, outgoing calls, and conversations)



Action urls are used for IPPBX systems to submit phone events. Please refer to PLANET Action URL for details.



9.13 Phone settings >> Time/Date

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

Table - Time & Date settings

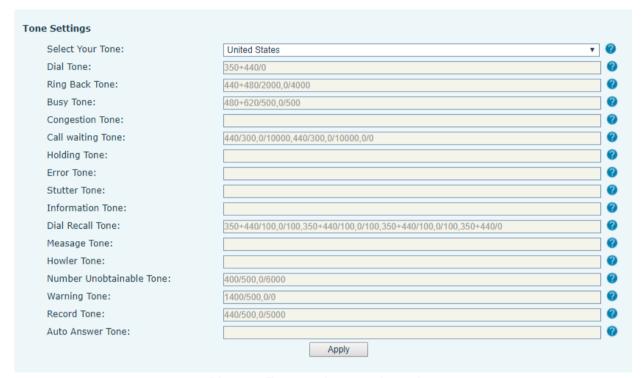
Parameters	Description	
Network Time Server Settings		
Time Synchronized via SNTP	Enable time-sync through SNTP protocol	
Time Synchronized via DHCP	Enable time-sync through DHCP protocol	
Primary Time Server	Set primary time server address	
	Set secondary time server address, when primary server	
Secondary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



9.14 Phone settings >> Tone

This page allows users to configure a phone prompt.

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



Picture - Tone settings on the web

9.15 Phone settings >> Advanced

User can configure the advanced configuration settings in this page.

- Screen Configuration.
 - Enable Screen Saver
- LCD Menu Password Settings.

The password is admin by default.

- Keyboard Lock 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 12 characters. The default chars are 'VOIP PHONE'.



9.16 Phonebook >> Contact

User can add, delete, or edit contacts in the phonebook 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 "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, press "Modify" button after finished editing.

To delete one or multiple contacts, check on the checkbox in front of the contacts wished to be deleted and click the "Delete" button, or click the "Clear" button with selecting any contacts to clear the phonebook.

User can also add multiple contacts into 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 into blacklist by click "Add to Blacklist" button.

9.17 Phonebook >> 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,

	······g···· - ···	
	Phonebook name (must)	
	Phonebook URL (must)	
	Access username (optional)	
	Access password (optional)	
I DAD Sattings		

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)
П	Access password (optional)



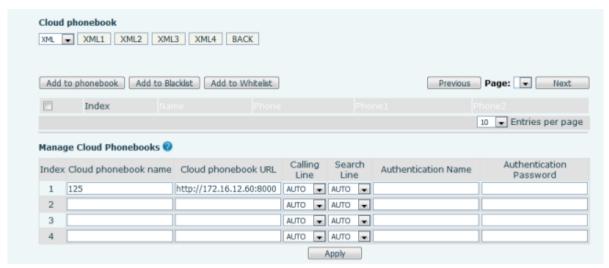
Refer to the LDAP technical documentation before creating the LDAP phonebook and phonebook server.



Web page preview

Phone page supports preview of Internet phone directory and contacts

- After setting up the XML Voip directory or LDAP,
- Select [Phone book] >> [Cloud phone book] >> [Cloud phone book] to select the type.
- Click the set XML/LDAP to download the contact for browsing.



Picture - Web cloud phone book Settings

9.18 Phonebook >> Call List

■ Restricted Incoming Calls :

It is similar like a Blocked List. Add the number to the Blocked List, 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 Blocked List or add specific prefixes to the Blocked List 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.

9.19 Phonebook >> Web Dial

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



9.20 Phonebook >> Advanced

Users can export the local phone book in XML, CSV, and VCF format and save it on the local computer. Users can also import contacts into the phone book in XML, CSV, and VCF formats.



If the user imports the same phone book 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.

9.21 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 phone book or add it to the Blocked List/Allowed List.

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.

9.22 Function Key >> Function Key

Function Key Configuration :

One-key transfer Settings: establish new call, blind transfer, attention-transfer, one-key three-party, Play DTMF.

DSS Key home page: None/Page1/Page2/Page3/Page4

Table - Function Key configuration

Parameters	Description
Memory Key	BLF (NEW CALL/BXFE /AXFER): It is used to prompt user the state of the subscribe
	extension, and it can also pick up the subscribed number, which help user monitor the
	state of subscribe extension (idle, ringing, a call). There are 3 types for one-touch BLF
	transfer method.
	p.s. User should enter the pick-up number for specific BLF key to fulfill the pick-up
	operation.
	Presence: Compared to BLF, the Presence is also able to view whether the user is
	online.



	Note: You cannot subscribe the same number for BLF and Presence at the same time
	Speed Dial: You can call the number directly which you set. This feature is convenient
	for you to dial the number which you frequently dialed.
	Intercom: This feature allows the operator or the secretary to connect the phone quickly;
	it is widely used in office environments.
Line	It can be configured as a Line Key. User is able to make a call by pressing Line Key.
Kan Frank	User can select a key event as a shortcut to trigger.
Key Event	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.
B Acatal and A	Configure the multicast address and audio codec. User presses the key to initiate the
Multicast	multicast.
Action URL	The user can use a specific URL to make basic calls to the phone.
XML browser	Users can set the DSS Key for specific URL download and other operations.

The device provides 112 user-defined shortcuts that users can configure on a web page.

9.23 Function Key >> Softkey

The User Settings mode and display style, display page.

Table - Softkey configuration

Parameter	Description
Softkey Mode	
Softkey mode	Disabled and More , Default is Disabled
Softkey Style	
Softkey display	Softkey Exit on Left or Right
style	
Screen	
	Redial/2aB/Delete/Exit/Call Back/Dial/Join/MWI/Local
Call Dialer	Contacts/Pickup/CallLog/Missed/Clear/In/Dialed/Pause/Next line/Prev
	line/Headset/Audio/Video/Remote XML/DSS Key
Conference	Hold/Split/End/Release/Mute/DSS Key/Headset
	CallLog/Menu/Local Contacts/DND/Prev Account/Next
Desktop	Account/Blacklist/Call Back/CallForward/Locked/Memo/
Безкюр	Missed/MWI/Dialed/Reboot/Redial/Remote XML/SMS/
	Headset/Status/DSS Key/In
	Redial/2aB/Delete/Exit/Forward/Local Contacts/CallLog
Divert Dialed	/Clear/Missed/Dialed/Headset/Video/Audio/Remote XML
	/DSS Key
Ending	Redial/End/Headset/Release/DSS Key
Predictive Dialer	Dial/2aB/Delete/Exit/Call Back/Local Contacts/Redial
	/Pickup/MWI/Join/CallLog/Release/Missed/Pause/Dialed/
	Headset/Video/Audio/Remote XML/DSS Key/In/Next line
	/Prev line



Ringing	Answer/Forward/Reject/Mute/Release/Headset/Video/Audio/DSS key
	Hold/Transfer/Conference/End/Mute/Release/New Call/
Talking	Local Contacts/Listen/CallLog/Next call/Prev call/
	Private/Headset/Video/Audio/DSS Key
Transfer Alerting	End/Transfer/Headset/Release/DSS Key
	Redial/Delete/Exit/2aB/Dial/Local Contacts/Transfer/
Transfer Dialer	CallLog/Clear/Missed/Dialed/Pause/Headset/Video/Audio/Remote
	XML/DSS Key
Trying	End/Release/Headset/DSS Key
	Hold/Transfer/Conference/End/Answer/Forward/Mute/Next call/New
Waiting	call/Prev call/Reject/Release/Headset/Listen/
	Video/Audio/DSS Key

9.24 Function Key >> Advanced

■ Global key Settings

The default configuration is empty, and the global memory key function can be configured.

The configured memory key has a call path. If the global configuration is maintained, pressing the memory key again will maintain the call path. If the same configuration hung up, press the memory key again will hang up this road call.

■ Programmable key Settings

Please refer to the 9.23 Table Softkey configuration.

■ IP Camera List



Picture - IP Camera List

9.25 Application>>Manage Recording

See 6.3.1 Record for details of recording.

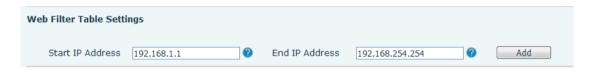


9.26 Security >> Web Filter

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



Picture - Web Filter settings



Picture - Web Filter Table

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

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

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



9.27 Security >> Trust Certificates

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

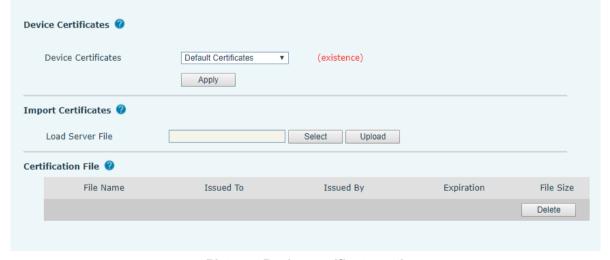


Picture - Certificate of settings

9.28 Security >> Device Certificates

Select the device certificate as the default and custom certificate.

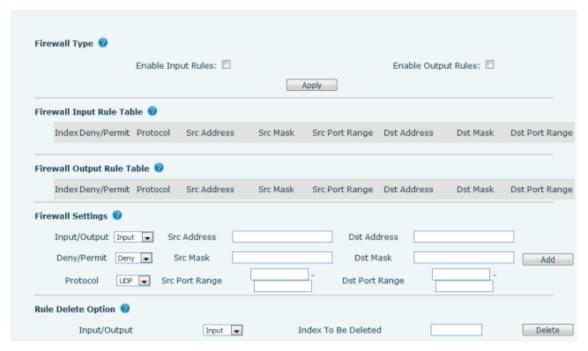
You can upload and delete uploaded certificates.



Picture - Device certificate setting



9.29 Security >> Firewall



Picture - Network firewall Settings

Through this page can set whether to enable the input, output firewall, at the same time can set the firewall input and output rules, using these Settings can prevent some malicious network access, or restrict internal users access to some resources of the external network, improve security. Firewall rule set is a simple firewall module. This feature supports two types of rules: input rules and output rules. Each rule is assigned an ordinal number, allowing up to 10 for each rule. Considering the complexity of firewall Settings, the following is an example to illustrate:

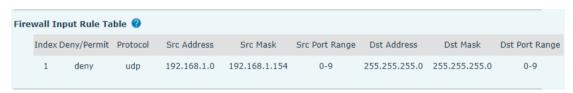
Table - Network Firewall

Parameter	Description
Enable Input Rules	Indicates that the input rule application is enabled.
Enable Output Rules	Indicates that the output rule application is enabled.
Input/Output	To select whether the currently added rule is an input or output rule.
Deny/Permit	To select whether the current rule configuration is disabled or
Deny/Femili	allowed;
Protocol	There are four types of filtering protocols: TCP UDP ICMP IP.
Src Port Range	Filter port range
	Source address can be host address, network address, or all
Src Address	addresses 0.0.0.0; It can also be a network address similar to
	..*.0, such as: 192.168.1.0.
Dst Address	The destination address can be either the specific IP address or the
	full address 0.0.0.0; It can also be a network address similar to
	..*.0, such as: 192.168.1.0.



	Is the source address mask. When configured as 255.255.255,
Src Mask	it means that the host is specific. When set as 255.255.255.0, it
	means that a network segment is filtered.
	Is the destination address mask. When configured as
Dst Mask	255.255.255.255, it means the specific host. When set as
	255.255.255.0, it means that a network segment is filtered.

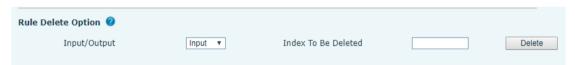
After setting, click [Add] and a new item will be added in the firewall input rule, as shown in the figure below:



Picture - Firewall Input rule table

Then select and click the button [Apply].

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



Picture - Delete firewall rules

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

9.30 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 10.6 Export Debug Data.



10. Trouble Shooting

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

10.1 Get Device System Information

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

The following information will be provided:

The network information

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

10.2 Reboot Device

Users can reboot the device from soft-menu, [Menu] >> [Phone settings] >> [System], and press [Reboot], Or, simply remove the power supply and restore it again.

10.3 Reset Device to Factory Default

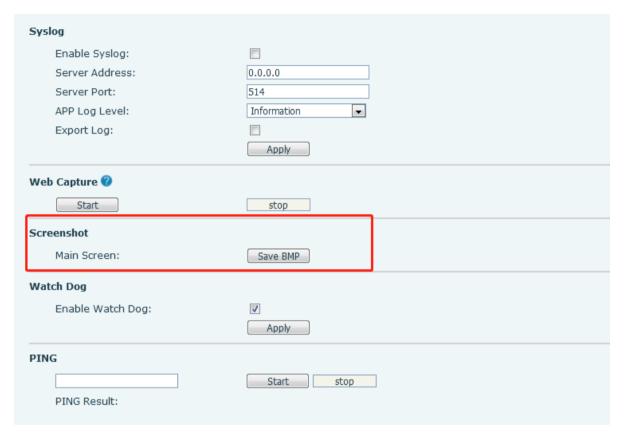
Reset Device to Factory Default will erase all user's configuration, preference, database and profiles on the device and restore the device back to the state as factory default.

To perform a factory default reset, user should press [Menu] >> [phone setting]>> [maintain], and then input the password to enter the interface. Then choose [Phone Reset] and press [Reset]. The device will be rebooted into a clean factory default state.



10.4 Screenshot

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

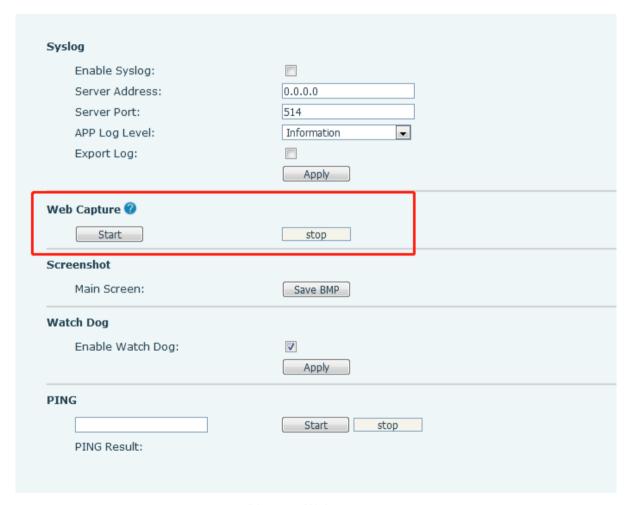


Picture - Screenshot



10.5 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 "Network Packets Capture" section. A pop-up message will be prompt to ask user to save the capture file. User then should perform relevant operations such as activate/deactivate line or making phone calls and click [Stop] button in the web page when operation finished. The network packets of the device during the period have been dumped to the saved file.



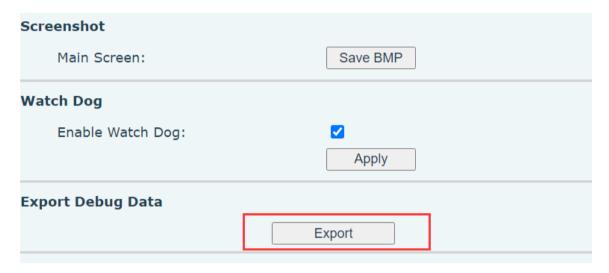
Picture - Web capture

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



10.6 Export Debug Data

When encountering abnormal problems, log information is helpful. Users can export debugging information with one click on the web page. After a while, send the exported compressed package to the technical support mailbox and describe the problem in detail.



Picture - Export Debug Data



10.7 Common Trouble Cases

Table - Trouble Cases

Trouble Case	Solution
Device could not boot up Device could not register to a	 The device is powered by external power supply via power adapter or PoE switch. Please use standard power adapter provided by PLANET or PoE switch met with the specification requirements and check if device is well connected to power source. If you saw "POST MODE" on the device screen, the device system image has been damaged. Please contact location technical support to help you restore the phone system. Please check if device is well connected to the network. The
service provider	network Ethernet cable should be connected to the [Network] port NOT the [PC] port. If the cable is not well connected to
	the network icon [WAN disconnected] will be flashing in the middle of the screen. 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 "10.5 Network Packet Capture" to get the network packet capture of registration process and send it to PLANET support to analyze the issue.
No Audio or Poor Audio in Handset	 Please check if Handset is connected to the correct Handset (port NOT Headphone (port.) port. The network bandwidth and delay may be not suitable for audio call at the moment.
Poor Audio or Low Volume in Headphone	 There are two Headphone wire sequence in the market. Please use the Headphone provided by PLANET, or consult PLANET the wire sequence if you wish to use a third-party headphone. The network bandwidth and delay may be not suitable for audio call at the moment.
Audio is chopping at far-end in Hands-free speaker mode	This is usually due to loud volume feedback from speaker to microphone. Please lower down the speaker volume a little bit, the chopping will be gone.