

User's Manual



**High Definition Touch Color
Screen Smart Media
Android SIP Conference**

▶ ICF-1900



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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 collect such WEEE separately.

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Revision

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

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Directory

Directory		IV
1 Picture		VIII
2 Table.....		XII
3 Safety Instruction.....		1
4 Overview		2
4.1 Product Description		2
4.2 Product Features		3
4.3 Product Specifications		4
4.4 Packing Contents		7
4.4.1 VERIFY THE CONTENTS INSIDE THE PACKAGE BOX		7
5 Install Guide		8
5.1 Desktop Installation		8
5.1.1 ICF-1900 Desktop Installation		8
5.2 Connecting to the Device.....		9
6 Appendix Table		11
6.1 Appendix II -- Keyboard character query table		15
6.2 Appendix III -- LED Definition.....		17
7 Introduction to the User		18
7.1 Instructions of Keypads		18
7.1.1 Instructions of the ICF-1900 Keypads.....		18
7.2 Using Handset / Hands-free Speaker / Headphone.....		20
7.3 Screen Touch Instructions		20
7.4 Idle Screen		21
7.5 Phone Status.....		22
7.6 Application Instruction		24
7.7 Web Management		26
7.8 Network Configurations		27
7.9 SIP Configurations.....		28
8 Basic Function		31
8.1 Making Phone Calls.....		31
8.2 Answering Calls.....		33
8.2.1 Talking		34
8.2.2 Make / Receive the Second Call.....		35
8.3 End of the Call.....		36
8.4 Video Call.....		37

8.5	Redial.....	38
8.6	Dial-up Query.....	39
8.7	Auto-Answering.....	39
8.8	Call Back.....	41
8.9	Mute.....	43
8.9.1	Mute the Call.....	43
8.9.2	Ringing Mute.....	43
8.10	Call Hold/Resume.....	44
8.11	DND.....	45
8.12	Call Forward.....	48
8.13	Call Transfer.....	50
8.13.1	Blind transfer.....	51
8.13.2	Semi-Attended transfer.....	51
8.13.3	Attended transfer.....	52
8.14	Call Waiting.....	53
8.15	Conference.....	55
8.15.1	Local Conference.....	55
8.15.2	Network Conference.....	56
8.16	Call Park.....	57
8.17	Pick Up.....	58
8.18	Anonymous Call.....	60
8.18.1	Anonymous Call.....	60
8.18.2	Ban Anonymous Call.....	62
8.19	Hotline.....	63
9	Advance Function.....	65
9.1	BLF (Busy Lamp Field).....	65
9.1.1	Configure the BLF Functionality.....	65
9.1.2	Use the BLF Function.....	67
9.2	BLF List.....	68
9.3	Record.....	69
9.3.1	Local Record.....	69
9.3.2	Server Record.....	70
9.3.3	SIP Info Record.....	71
9.4	Agent.....	72
9.5	Intercom.....	74
9.6	MCAST.....	75
9.7	SCA (Shared Call Appearance).....	76
9.8	Message.....	81

9.8.1	SMS	81
9.8.2	MWI (Message Waiting Indicator)	82
9.9	SIP Hotspot	83
10	Phone Settings	87
10.1	Basic Settings.....	87
10.1.1	Language	87
10.1.2	Time & Date	88
10.1.3	Screen	90
10.1.4	Ring	91
10.1.5	Voice Volume.....	91
10.1.6	Reboot	91
10.2	Phone book	92
10.2.1	Local contact	92
10.2.2	Black list.....	94
10.2.3	Cloud Phone Book.....	95
10.3	Call Log	97
10.4	Function Key	98
10.5	Wi-Fi.....	99
10.6	Headset	101
10.6.1	Wired Headset	101
10.6.2	Bluetooth Headset	102
10.7	Advanced.....	103
10.7.1	Line Configurations.....	103
10.7.2	Network Settings	104
10.7.3	Set The Secret Key	106
10.7.4	Maintenance	107
10.7.5	Firmware Upgrade.....	110
10.7.6	Factory Reset.....	112
11	Web Configurations.....	113
11.1	Web Page Authentication	113
11.2	System >> Information	113
11.3	System >> Account.....	113
11.4	System >> Configurations	114
11.5	System >> Upgrade	114
11.6	System >> Auto Provision.....	114
11.7	System >> Tools.....	114
11.8	System >> Reboot Phone.....	114

12	Network >> Basic	115
12.1	Network >> Service Port	115
12.2	Network >> Advanced.....	116
12.3	Line >> SIP.....	116
12.4	Line >> SIP Hotspot	122
12.5	Line >> Dial Plan.....	122
12.6	Line >> Action Plan.....	126
12.7	Line >> Basic Settings.....	126
12.8	Phone settings >> Features	127
12.9	Phone settings >> Media Settings.....	131
12.10	Phone settings >> MCAST.....	132
12.11	Phone settings >> Action.....	133
12.12	Phone settings >> Time/Date.....	133
12.13	Phone settings >> Tone	134
12.14	Phone settings >> Advanced.....	134
12.15	Phonebook >> Contact	135
12.16	Phonebook >> Cloud phonebook	135
12.17	Phonebook >> Call List	137
12.18	Phonebook >> Web Dial	137
12.19	Phonebook >> Advanced.....	137
12.20	Call Logs.....	137
12.21	Function Key >> Function Key	138
12.22	Function Key >> Softkey.....	139
12.23	Function Key >> Advanced.....	140
12.24	Application >> Manage Recording.....	141
12.25	Security >> Web Filter	141
12.26	Security >> Trust Certificates.....	142
12.27	Security >> Device Certificates.....	143
12.28	Security >> Firewall	143
12.29	Device Log >> Device Log	145
13	Trouble Shooting.....	146
13.1	Get Device System Information	146
13.2	Reboot Device	146
13.3	Reset Device to Factory Default.....	146
13.4	Screenshot.....	146
13.5	Network Packets Capture.....	147
13.6	Get Log Information	148
13.7	Common Trouble Cases.....	148

1 Picture

Diagram 1: Desktop phone installation	8
Diagram 2: Connecting to the Device	9
Diagram 3 -- Instructions of Keypads	18
Picture 4 - ICF-1900 default home screen.....	21
Picture 5 - The Phone status	22
Diagram 6 - Web phone status.....	23
Diagram 7 - Landing page.....	26
Picture 8 - Phone line SIP address and account information	29
Picture 9 - Phone display name and port	29
Picture 10 - Web SIP registration	30
Picture 11 - Default line	31
Picture 13 - Open the voice channel and dial the number	32
Picture 14 - Call number	33
Picture 15 - Answering calls.....	33
Picture 16 - Talking interface	34
Picture 17 - The second call interface	35
Picture 18 - Two way calling.....	36
Picture 19 - Video interface.....	37
Picture 20 - Video Settings.....	38
Picture 21 - Redial set	39
Picture 22 - Line 1 enables auto-answering	40
Picture 24 - Web page to start auto-answering	41
Picture 25 - Set the callback key on the phone.....	42
Picture 26 - Set the callback key on the web page	42
Picture 27 - Mute the call	43
Picture 28 - Ringing mute	44
Picture 29 - Call hold interface.....	44
Picture 30 - Enable DND.....	45
Picture 31 - DND setting interface	46
Picture 32 - DND timer	46
Picture 33 - DND Settings.....	47
Picture 34 - Line DND	47
Picture 35 - Select the line to set up call forwarding.....	48
Picture 36 - Select call forward type	49
Picture 37 – Enable the call forwarding and configure the call forwarding number	49
Picture 38 - Set call forward.....	50
Picture 39 - Transfer interface	51

Picture 40 - Semi-Attended transfer	52
Picture 41 - Attended transfer.....	52
Picture 42 - Call waiting setting.....	53
Picture 43 - Web call waiting setting.....	54
Picture 44 - Web call waiting tone setting.....	54
Picture 45 - Local conference setting	55
Picture 46 - Local conference (1)	55
Picture 47 - Local conference (2)	56
Picture 48 - Network conference.....	56
Picture 49 - Phone set Call Park.....	57
Picture 50 - Web set Call Park	58
Picture 51 - Phone pick up setting.....	59
Picture 52 - WEB pick up setting	59
Picture 53 - Enable anonymous call.....	60
Picture 54 - Enable Anonymous web page call.....	61
Picture 55 - Anonymous call log	61
Picture 56 - Anonymous calls are not allowed on the phone.....	62
Picture 57 - Page Settings blocking anonymous call.....	63
Picture 58 - Phone hotline setting interface.....	64
Picture 59 - Hotline set up on webpage.....	64
Picture 60 - Web page configuration BLF function key.....	65
Picture 61 - Phone configuration BLF function key.....	66
Picture 62 - Configure the BLF List functionality	68
Picture 63 - BLF List number display	69
Picture 64 - WEB local recording	69
Picture 65 - Web server recording	71
Picture 66 - Web SIP info recording.....	71
Picture 67 - Configure the agent account in normal mode	72
Picture 68 - Configure the proxy account-hotel Guest mode	72
Picture 69 - Agent logon page	73
Picture 70 - Web Intercom configure.....	74
Picture 71 - Multicast Settings Page.....	75
Picture 72 - Register BroadSoft account	76
Picture 73 - Set BroadSoft server	77
Picture 74 - Enable SCA	78
Picture 75 - Set Private Hold Function Key	79
Picture 76 - SMS icon	81
Picture 77 - New Voice Message Notification.....	82

Picture 78 - Voice message interface	83
Picture 79 - Configure voicemail number	83
Picture 80 - Register SIP account	84
Picture 81 - SIP hotspot server configuration.....	85
Picture 82 - SIP hotspot client configuration.....	85
Picture 83 - Phone language setting	87
Picture 84 - Language setting on Web page	87
Picture 85 - Set time & date on phone.....	88
Picture 86 - Set time & date on webpage	88
Picture 87 - Set screen parameters on phone.....	90
Picture 89 - Phone screen saver.....	91
Picture 90 - Local Phone book	92
Picture 91 - Add New Contact.....	93
Picture 92 - Group List.....	94
Picture 93 - Add Blacklist	94
Picture 94 - Web Blacklist.....	95
Picture 95 - Cloud phone book list.....	96
Picture 96 - Browsing Contacts in Cloud Phone book	96
Picture 97 - Call Log	97
Picture 98 - Filter call record types	97
Picture 99 - DSS LCD Screen Configuration.....	98
Picture 100 - WIFI settings.....	101
Picture 101 - Headset function settings	101
Picture 102 - Bluetooth Settings Screen.....	102
Picture 103 - SIP address and account information	103
Picture 104 - Configure Advanced Line Options	103
Picture 105 - DHCP network mode.....	104
Picture 107 - Static IP network mode	104
Picture 108 - The phone configures the web server type.....	106
Picture 109 - Menu password and Settings	106
Picture 110 - Page auto provision Settings	107
Picture 111 - Phone auto provision settings.....	107
Picture 112 - Web page firmware upgrade	110
Picture 113 - Firmware upgrade information display	110
Picture 114 - Firmware upgrade	111
Picture 115 - Reset to default	112
Picture 116 - Service Port Settings	115
Picture 117 - Dial plan settings.....	122

Picture 118 - Custom setting of dial - up rules	123
Picture 119 - Dial rules table (1)	124
Picture 120 - Dial rules table (2)	125
Picture 121 - Tone settings on the web.....	134
Picture 122 - Web cloud phone book Settings.....	136
Picture 123 - IP Camera List	140
Picture 124 - Web Filter settings	141
Picture 125 - Web Filter Table.....	141
Picture 126 - Certificate of settings	142
Picture 127 - Device certificate setting	143
Picture 128 - Network firewall Settings	143
Picture 129 - Firewall Input rule table.....	145
Picture 130 - Delete firewall rules.....	145
Picture 131 - Screenshot.....	147
Picture 132 - Web capture	147

2 Table

Table 1 - Hardware Interface Description	9
Table 2 -- Keypad Icons	11
Table 3 -- Status Prompt and Notification Icons	11
Table 4 -- DSSkey Icons.....	12
Table 5 -- Look-up Table of Characters.....	15
Table 6 -- DSS KEY LED State	17
Table 7- - Instructions of Keypads	19
Table 8 -- Application instruction.....	24
Table 9 - Talking mod.....	34
Table 10 - BLF Function key subtype parameter list	66
Table 11 - Agency mode.....	72
Table 12 - Intercom configure	74
Table 13 - MCAST Parameters on Web	75
Table 14 - LED Status of SCA	79
Table 15 - SIP hotspot Parameters.....	84
Table 16 - Time Settings Parameters	89
Table 17 - QoS & VLAN.....	105
Table 18 - Auto Provision.....	108
Table 19 - Firmware upgrade	111
Table 20 - Service port	115
Table 21 - Line configuration on the web page.....	116
Table 22 - Phone 7 dialing methods	122
Table 23 - Dial - up rule configuration table	123
Table 24 - IP camera.....	126
Table 25 - Set the line global configuration on the web page	126
Table 27 - General function Settings	127
Table 28 - Voice settings.....	131
Table 29 - Multicast parameters	132
Table 30 – Time & Date settings	133
Table 31 - Function Key configuration.....	138
Table 32 - Softkey configuration.....	139
Table 33 - Network Firewall.....	144
Table 34 - Trouble Cases	148

3 Safety Instruction

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

- Please use the external power supply that is included in the package. Other power supply may cause damage to the phone and affect the behavior or induce noise.
- Before using the external power supply in the package, please check the home power voltage. Inaccurate power voltage may cause fire and damage.
- Please do not damage the power cord. If power cord or plug is impaired, do not use it because it may cause fire or electric shock.
- Do not drop, knock or shake the phone. Rough handling can break internal circuit boards.
- This phone is designed for indoor environment. Do not install the device in places where there is direct sunlight. Also do not put the device on carpets or cushions. It may cause fire or breakdown.
- 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.

4 Overview

4.1 Product Description

Video Conference Phone with 7-inch Touch Screen

As a high-end enterprise SIP conference phone with Android 9.0, PLANET ICF-1900 provides a more intelligent and smoother touch operation experience for the users.

The ICF-1900 is a 7-inch high definition touch color screen SIP conference phone perfect to go with PLANET ICF-CAM80 1080p USB camera (optional). This latest innovative advanced color IP multimedia phone creates an immersive, face-to-face experience over the network. Through the powerful combination of Android 9.0 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, built-in Bluetooth 4.2 and 2.4G/5G wireless make daily communication smarter and simpler. Matching the ICF-CAM80 1080p USB camera, the ICF-1900 can deliver a superb audio and video for group conferencing.

Bundled with audio and video applications, the ICF-1900 is an easy-to-use business video phone. It allows intuitive navigation like Android 9.0 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.

High-quality G.722 HD and Opus Audio Codes

The ICF-1900 delivers with Harman Kardon speaker, wideband G.722 HD and opus audio codec whose both 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-1900 keeps bringing the most premium sound for the users.

Secure, High-quality VoIP Communication

The ICF-1900 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.

Standard Compliance and Enhanced Voice Security

The ICF-1900 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.

4.2 Product Features

➤ Highlights

- 7-inch color touch screen with Android 9.0
- Plug and Play optional 1080p USB camera with 720p 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 802.3af/at PoE compliant
- Built-in Bluetooth 4.2 and 2.4G/5G Wi-Fi
- Wideband G.722 HD and Opus audio codec with handset and hands-free function

➤ Audio and Video Features

- 720p@30fps HD H.264 video call
- Audio codec: Opus, G.722, G.722.1, G.722.1C, G.711 (A/μ), 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 conferencing and 5-party video/audio mixed 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

4.3 Product Specifications

Product	ICF-1900
Interface	
Lines (Direct Numbers)	20 SIP lines
Display and Indicator	112 one-touch DSS keys on 7-inch (1024 x 600) color touch screen 5 points multi-touch surface Screensaver and wallpaper LED for call and message waiting indication Intuitive user interface with icons and soft keys Multilingual user interface Caller ID with name, number and photo
Feature Keys	26 keys, including 5 x Function keys (Hold, MWI, Mute, Headset, Redial) 4 x Navigation keys 1 x OK key 1 x Return key 12 x Standard Phone Digits keys 2 x Volume Control keys – Up and Down 1 x Hands-free key
Network Interfaces	Dual-port Gigabit Ethernet: Network x 1 (802.3af/at PoE enabled) PC x 1 (Bridged Network) Built-in Wi-Fi (2.4GHz/5Gz) Built-in Bluetooth 4.2
Connectors	RJ9 Port x 2: Handset x 1, Headset x 1 USB2.0 Port x 1: Standard A, Connect with camera Safety keyhole x 1
Android bundled Applications	
Operating System	Android 9.0 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	
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, RTP/RTCP/SRTP, STUN, DHCP, CDP, LLDP, PPPoE, 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	<p>HD voice microphone/speaker (handset/hands-free, 0 ~ 7KHz frequency response)</p> <p>HAC handset</p> <p>Wideband ADC/DAC 16KHz sampling</p> <p>Narrowband codec: G.711a/u, G.729AB, iLBC</p> <p>Wideband codec: G.722, Opus</p> <p>Full-duplex acoustic echo canceller (AEC)</p> <p>Noise reduction (NR)</p> <p>Packet loss concealment (PLC)</p> <p>Dynamic adaptive jitter buffer</p> <p>DTMF: In-band, out-of-band, DTMF-relay (RFC2833), SIP info</p>
Video Features	<p>Video decoding: H.264</p> <p>Video call resolution: CIF/VGA/4CIF/720P/1080P</p> <p>Image format: JPEG/PNG/BMP</p> <p>Video format: MP4</p> <p>Bandwidth selection: 64kbps~4Mbps</p> <p>Frame rate selection: 5~30fps</p> <p>Video from remote site can be displayed in full screen</p> <p>3-way video conferencing</p> <p>Self-view (local video preview)</p>
Phone Features	<p>Local Phonebook (2000 entries)</p> <p>Remote Phonebook (XML/LDAP, 2000 entries)</p> <p>Intelligent Search for Contacts and Call Log</p> <p>Call logs (In/out/missed, 1000 entries)</p> <p>Black/White List Call Filter</p> <p>Screen saver</p> <p>Voice Message Waiting Indication (VMWI)</p> <p>Programmable DSS/Soft keys</p> <p>Network Time Synchronization</p> <p>Built-in Bluetooth 4.2: Supports Bluetooth headset/ Bluetooth of Mobile Device</p> <p>Built-in Wi-Fi: 2.4GHz, 802.11 b/g/n, 5GHz, 802.11 a/n/ac</p> <p>Supports Recording</p> <p>Action URL / Active URI</p> <p>UaCSTA</p>

	<p>Audio/Video Recording</p> <p>SIP Hotspot</p> <p>Group Broadcasting</p> <p>Action Plan</p> <p>Group listening</p>
Call Features	<p>Call out / Answer / Reject</p> <p>Mute / Unmute (Microphone)</p> <p>Call Hold / Resume</p> <p>Call Waiting</p> <p>Intercom</p> <p>Caller ID Display</p> <p>Speed Dial</p> <p>Anonymous Call (Hide Caller ID)</p> <p>Call Forwarding (Always/Busy/No Answer)</p> <p>Call Transfer (Attended/Unattended)</p> <p>Call Parking/Pick-up (Depending on server)</p> <p>Redial</p> <p>Do-Not-Disturb</p> <p>Auto-Answering</p> <p>Voice Message (On IP PBX or SIP server)</p> <p>5-way Audio Conferencing</p> <p>Hot Line</p> <p>Hot desking</p> <p>BLF (Busy Lamp Field)</p>
Environment	
Power Requirements	<p>IEEE 802.3af/at (Network port)</p> <p>5V DC, 2000mA (optional external power supply)</p>
Power Consumption	<p>PoE: 1.596~11.86W</p> <p>Adapter: 0.907~9.38W</p>
Operating Temperature	0 ~ 45 degrees C
Operating Humidity	10 ~ 95% (non-condensing)
Weight	1230g
Dimensions (W x D x H)	<p>Desktop Stand (Angle 1): 268 x 185 x 189 mm</p> <p>Desktop Stand (Angle 2): 268 x 201 x 168 mm</p>
Emission	CE, FCC, RoHS

4.4 Packing Contents

4.4.1 VERIFY THE CONTENTS INSIDE THE PACKAGE BOX

The package should contain the following items plus ICF-1900. If any item is missing or damaged, please contact the seller immediately.

ICF-1900	Quick Installation Guide	Handset
		
Handset Cord	Stand	RJ45 Cable
		

5 Install Guide

5.1 Desktop Installation

5.1.1 ICF-1900 Desktop Installation

The device supports desktop use. If the phone is placed on the desktop, please follow the instructions in the diagram below to install the phone.

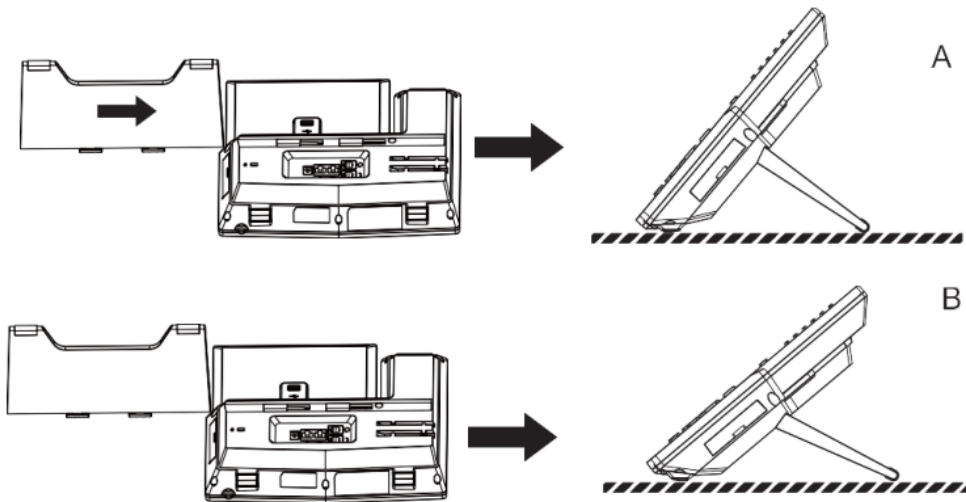


Diagram 1: Desktop phone installation

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

5.2 Connecting to the Device

Step 1. Please connect PoE network, PC and handset to the corresponding ports as described in the diagram below.

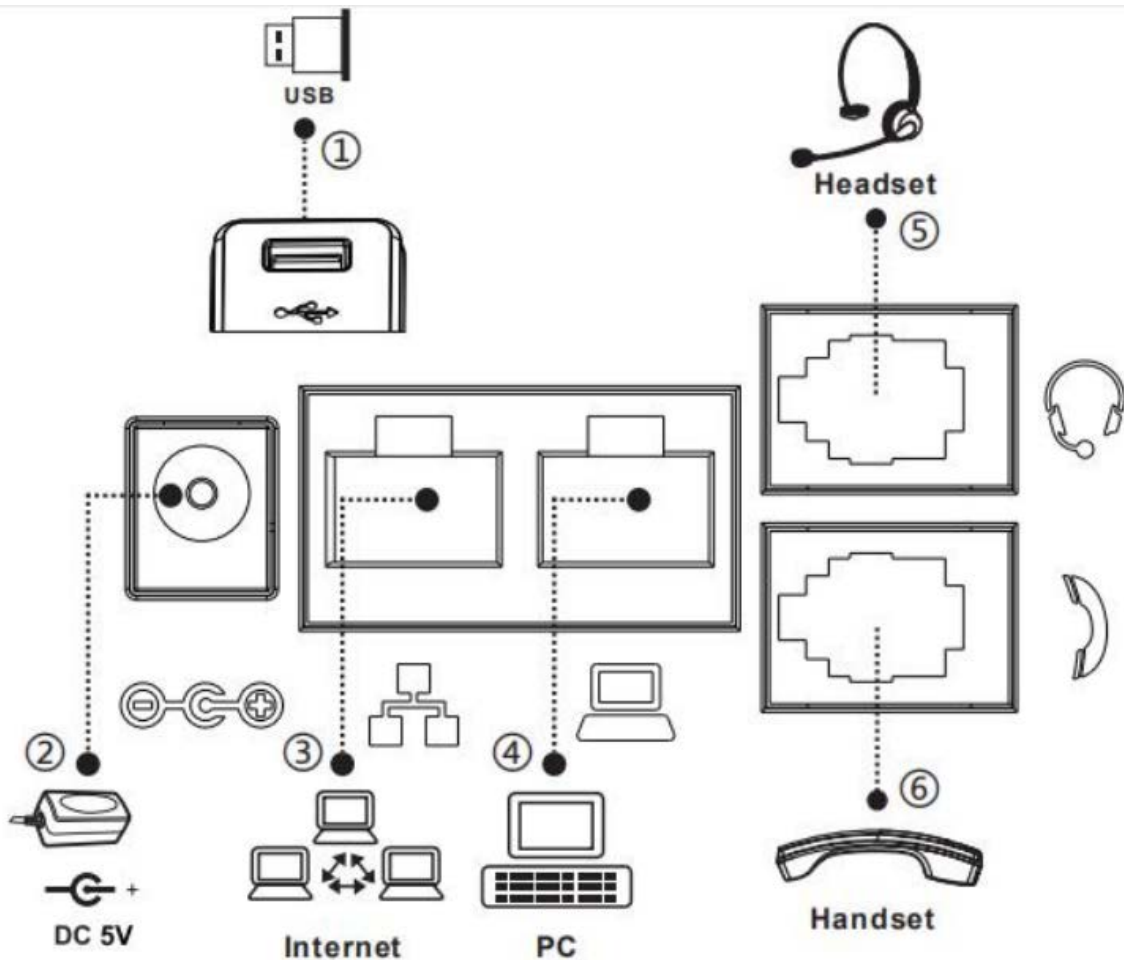
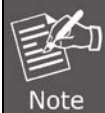


Diagram 2: Connecting to the Device

Table 1 - Hardware Interface Description

Index	Description
1	USB port: For Portable High Definition 1080p USB Camera (ICF-CAM80) or USB device Note: The PLANET USB camera ICF-CAM80 is an optional accessory for the ICF-1900 IP phone.
2	Power port: External standard power supply (5V, 2A, optional)
3	Internet port: Connect to the Internet (Only Internet port supports PoE. Connect to an IEEE802.3af/at PSE device such as 802.3af injector / hub or 802.3af/at PoE switch.)
4	PC port: Connect to the computer
5	Headset port: External RJ9 earphone
6	Handset port: Connect to IP phone handset

Step 2. Assembling the optional camera, as shown below:



The camera can only be connected to the USB port on the rear of the phone. And the IP phone only supports PLANET ICF-CAM80 original USB camera.

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**



6 Appendix Table

Appendix I - Icon

Table 2 -- Keypad Icons




















Icons	Description
	Redial
	Return
	Hands-free (HF) speaker
	Mute microphone (During call)
	Volume down
	Volume up
	Hold
	Handset
	MWI

Table 3 -- Status Prompt and Notification Icons

Icons	Description
	Call out
	Call in
	Call hold
	Network disconnected
	SMS
	DND
	Call forward activated
	Auto-answering activated
	Hands-free (HF) mode
	Headphone (HP) mode































	Handset (HS) mode
	Mute microphone
	HD audio
	The voice encryption of calling
	Open bluetooth
	SIP hotspot
	Connecting Wi-Fi
	Open bluetooth
	Unread voice message
	USB insert tips

Table 4 -- DSSkey Icons



Icons	Description
	MWI
	Speed dial
	Intercom
	Call park
	Call forward
	Key event/DND
	Key event/Call hold

	Key event/Call transfer
	Key event/phonebook
	Key event/redial
	Key event/pickup
	Key event/join
	Key event/auto redial on
	Key event/auto redial off
	Key event/call forward
	Key event/call logs
	Key event/flash
	Key event
	Key event/headset
	Key vent/release
	Key vent/lock phone
	Key event/SMS
	Key event/call back
	Key event/hide DTMF
	Key event/power light

	Key event/prefix
	Key event/hot desking
P _	Key event/agent
	Key event/end
	Key event/disposition
	Key event/escalate
	Key event/trace
	Key event/handsfree
	Key event/answer key
	Key event/private hold
e	URL & Action URL
	BLF list
	Multicast
	Unfold
	Collapse

6.1 Appendix II -- Keyboard character query table

Table 5 -- Look-up Table of Characters

Mode Icon	Text Mode	Key Button	Characters Of Each Press
	Numeric	1	1
		2	2
		3	3
		4	4
		5	5
		6	6
		7	7
		8	8
		9	9
		0	0
		*	*
		#	#
	Lower Case Alphabets	1	@::()<>
		2	a b c
		3	d e f
		4	g h i
		5	j k l
		6	m n o
		7	p q r s
		8	t u v
		9	w x y z
		0	(space)
		*	.,*/+:-_ =
		#	# ^!&\$%

ABC	Upper Case Alphabets	1	@::()<>
		2	A B C
		3	D E F
		4	G H I
		5	J K L
		6	M N O
		7	P Q R S
		8	T U V
		9	W Z Y X
		0	(space)
		*	.,*/+:-._=
		#	# ^!&\$%
		2aB	Mixed type input
2	2 a b c A B C		
3	3 d e f D E F		
4	4 g h I G H I		
5	5 j k I J K L		
6	6 m n o M N O		
7	7 p q r s P Q R S		
8	8 t u v T U V		
9	9 w z y x W Z Y X		
0	0		
*	.,*/+:-._=		
#	# ^!&\$%		

6.2 Appendix III -- LED Definition

Table 6 -- DSS KEY LED State

Type	LED Light	LED State
Line Key	Off	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.
	Off	Subscription number is unavailable.
Presence	Green On	Subscription number is idle.
	Red On	Subscription number is busy.
	Red On	Subscription number is dialing.
	Off	Subscription number is unavailable.
DND	Red On	Enable DND
	Off	Disable DND
MWI	Green Blinking	New voice message waiting
	Off	No new voice message

7 Introduction to the User

7.1 Instructions of Keypads

7.1.1 Instructions of the ICF-1900 Keypads

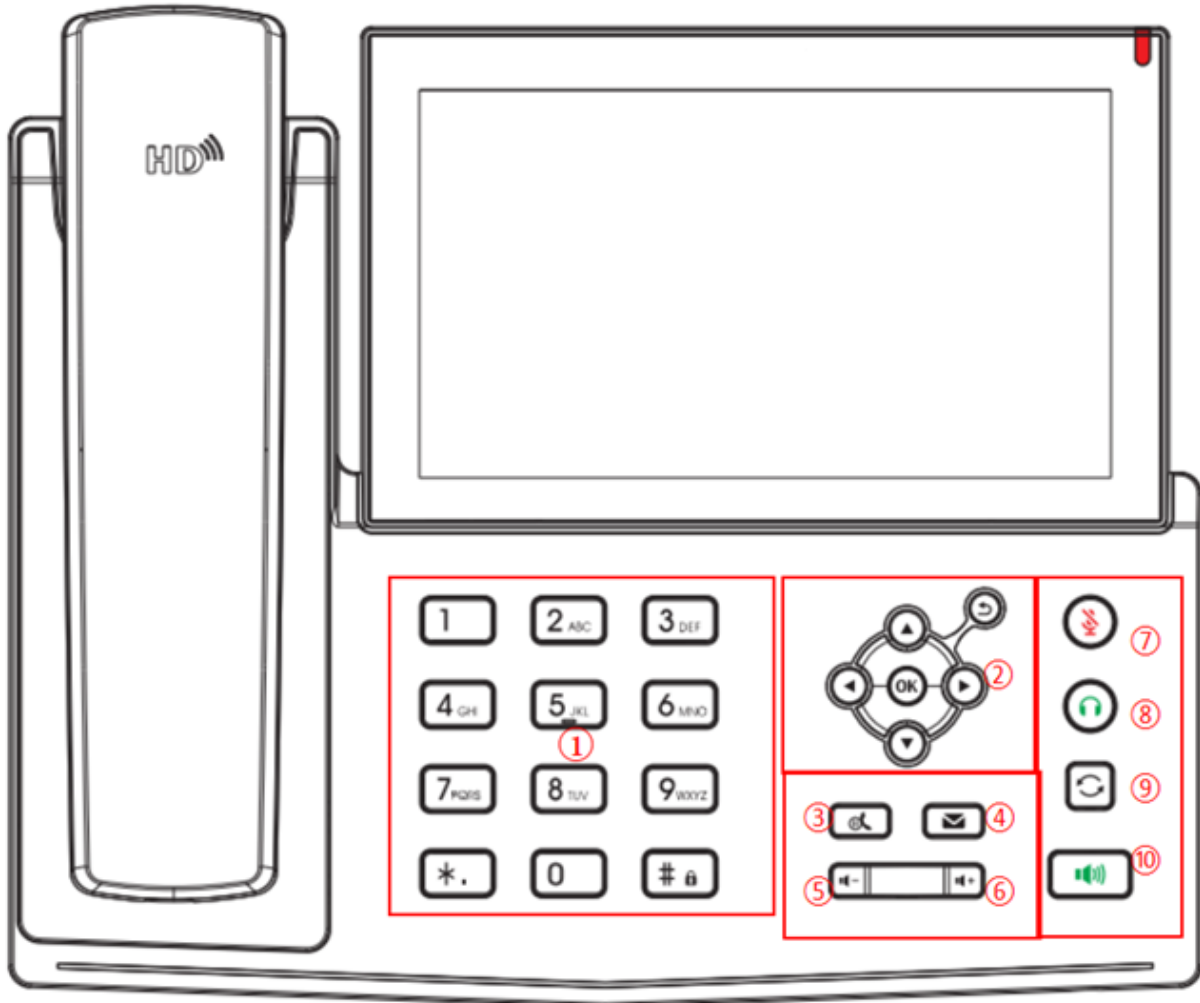


Diagram 3 -- Instructions of Keypads

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.

Table 7- - Instructions of Keypads

Number	The keypad names	Instruction
①	DTMF Key	<p>These 12 standard phone keys provide standard phone button functionality. At the same time, certain long key presses can be triggered to provide special functions.</p> <p>#- Long presses this key to open the keyboard lock configuration.</p>
②	Navigate/OK/ Return Keys	<p>The user can press the up/down navigation key to change the line or move the cursor in the screen list. On some Settings and text editing pages, the user can press the left/right navigation key to change options or move the cursor in the screen list to the left/right.</p> <p>OK key: Default is equivalent to soft button confirmation, user can customize the function.</p> <p>Return key: It will return to the upper menu under any interface, and it can be used to reject or hang up when making a phone call or making a call.</p>
③	Hold Key	<p>Press the "Hold" key during the call. The user can hold the call, and press it again to cancel the hold and restore the normal call state.</p>
④	Voice Mail Key	<p>Press the "voice mail" button, and the user enters the interface of SMS and voice mail list.</p>
⑤	Volume Down Key	<p>In the standby state, ring and ring configuration interface, press this button to reduce the ring volume; press this button to lower the volume on the call or volume adjustment screen.</p>
⑥	Volume Up Key	<p>In the standby state, ring and ring configuration interface, press this button to increase the ring volume; press this button to increase the volume on the call or volume adjustment screen.</p>
⑦	Mute Key	<p>During a call, the user can press this key to mute the microphone.</p>
⑧	Headset Key	<p>Users can press this key to open the headset channel</p>
⑨	Redial Key	<p>Press the Redial key to redial the last number dialed</p>
⑩	Hands-free Key	<p>The user can press this key to open the audio channel of the speakerphone.</p>

7.2 Using Handset / Hands-free Speaker / 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 headphone, by default, user should 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 headphone is turned on.

■ Using Line Keys (Defined by DSS Key)

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

7.3 Screen Touch 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.

7.4 Idle Screen



Picture 4 - ICF-1900 default home screen

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

The upper half of the home screen shows the status of the device, information and data that can be edited (such as voice messages, missed calls, auto answer, do not disturb, lock status, network connection status, etc.).

The lower half of the area is the function menu key, which is also the first layer of function menu keys, through which users can operate the phone.

Users can restore the phone to the default standby screen interface by picking up and dropping the handle.

The left and right part of the area shows default configuration of Side key, which dynamically displays the configuration of SIP information, message, headset, etc., which can be customized by users.

7.5 Phone Status

The phone status includes the following information about the phone:

- Network Status:
 - VLAN ID
 - IP Address
 - Network Mode
- The Phone Device Information:
 - Mac Address
 - Phone Mode
 - Hardware Version number
 - Software Version number
 - Phone Storage (RAM and ROM)
 - System Running Time
- SIP Account Information:
 - SIP Account
 - SIP Account Status (registered / uncommitted / trying / time out)
- TR069 Connection Status (Displays only in the phone interface state)

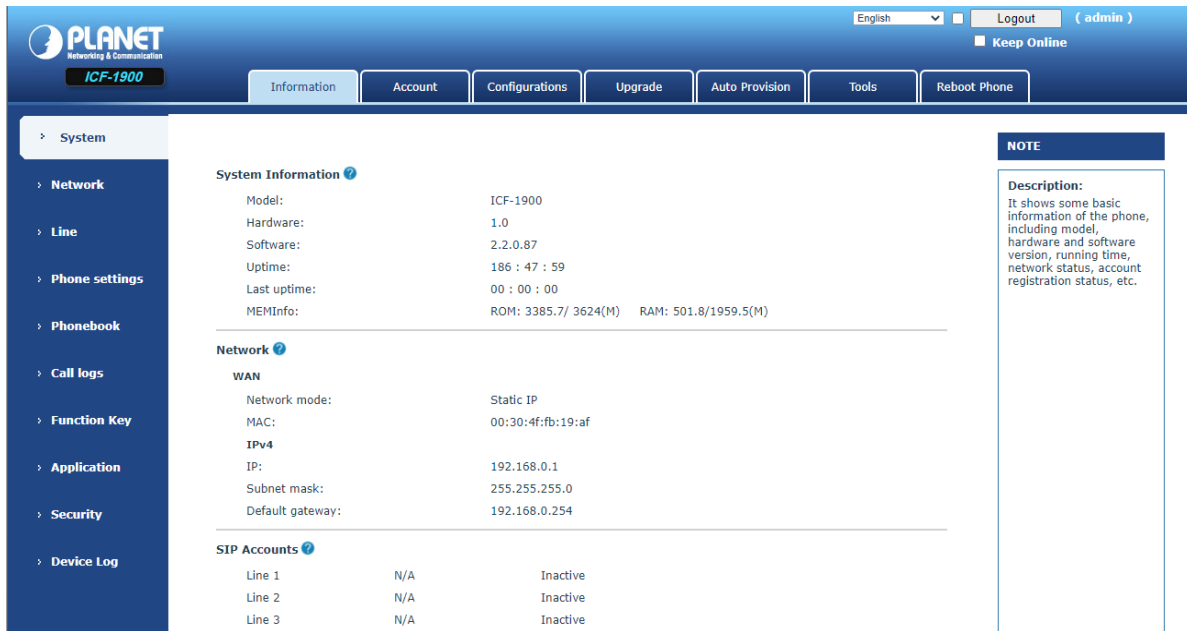
The user can view the phone status through the phone interface and the web interface.

- Phone interface : When the phone is in standby mode, press **[Menu]** >> **[Status]** and select the option to view the corresponding information, as shown in the figure:



Picture 5 - The Phone status

- Web interface: Refer to 7.7 Web management to log in the phone page, enter the **[System]** >> **[Information]** page, and check the phone status, as shown in the figure:



The screenshot displays the PLANET ICF-1900 web management interface. At the top, there is a navigation bar with the PLANET logo, a language dropdown set to 'English', a 'Logout (admin)' button, and a 'Keep Online' checkbox. Below this is a secondary navigation bar with tabs for 'Information', 'Account', 'Configurations', 'Upgrade', 'Auto Provision', 'Tools', and 'Reboot Phone'. A left sidebar contains a tree view with categories: System, Network, Line, Phone settings, Phonebook, Call logs, Function Key, Application, Security, and Device Log. The main content area is divided into three sections: 'System Information', 'Network', and 'SIP Accounts'. A 'NOTE' box on the right provides a description of the system information section.

System Information

Model:	ICF-1900
Hardware:	1.0
Software:	2.2.0.87
Uptime:	186 : 47 : 59
Last uptime:	00 : 00 : 00
MEMInfo:	ROM: 3385.7/ 3624(M) RAM: 501.8/1959.5(M)

Network

WAN

Network mode:	Static IP
MAC:	00:30:4f:fb:19:af

IPv4

IP:	192.168.0.1
Subnet mask:	255.255.255.0
Default gateway:	192.168.0.254

SIP Accounts

Line 1	N/A	Inactive
Line 2	N/A	Inactive
Line 3	N/A	Inactive












NOTE












Description:
It shows some basic information of the phone, including model, hardware and software version, running time, network status, account registration status, etc.

Diagram 6 - Web phone status

7.6 Application Instruction

Table 8 -- Application instruction

 Dialer	<p>Click this icon to enter the pre-dial number interface, and then dial the corresponding operation through the screen or keyboard.</p>
 Email	<p>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.</p>
 SMS	<p>Have SMS writing, reading and sending functions</p>
 Phone Settings	<p>It contains system information, network settings, account settings, call settings, etc. You can make corresponding settings under the corresponding menu.</p>
 Calculator	<p>Scientific calculator allows users to quickly process data.</p>
 Notepad	<p>Notes and records -- convenient for users to note events, and electronic post-it notes can be viewed at any time.</p>
 Contacts	<p>Support search, add, delete, edit contacts and other functions.</p>
 Browser	<p>Support access to various websites.</p>
 Sound Recorder	<p>Support call and non - call recording, and support export.</p>
 Calendar	<p>Display and view dates, create activity reminders, etc.</p>
 Settings	<p>There are four big options, including basic settings, call settings, advanced settings and about the phone. You can make corresponding settings under the corresponding menu (this setting is the default setting of Android system).</p>

 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 options key.
 Gallery	Support BMP, JPEG, PNG image preview and save.
 Downloads	Save all downloaded files.
 Music	Music player - can import recording and music play.
 Explorer	View USB flash drive and system related files.
 Apkinstaller	Application management -- you can install and uninstall Android applications.
 DND	Turn on and off the disturb free 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

7.7 Web Management

Phone can be configured and managed on the web page of the phone. The user needs to enter the IP address of the phone in the browser at first and open the web page of the phone. The user can check the IP address of the phone by pressing **[Menu]** >> **[Status]**.



Diagram 7 - Landing page

Users must correctly enter the user name and password to log in to the web page. The default user name and password are "admin". For the specific details of the operation page, please refer to page [11 Web configurations](#).



7.8 Network Configurations

The device supports two kinds of network connection modes: wired network connection and wireless network connection. This section describes the wired network connection. For wireless network connection, refer to [10.5 wi-fi](#).

The device relies on IP network connection to provide service. Unlike traditional phone system based on a circuit switched wire technology, IP devices are connected to each other over the network and exchange data in packet basis based on the devices' IP address.

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".

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

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.

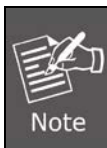
Please see [10.7.2.1 network Settings](#) for detailed configuration and use.

7.9 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.

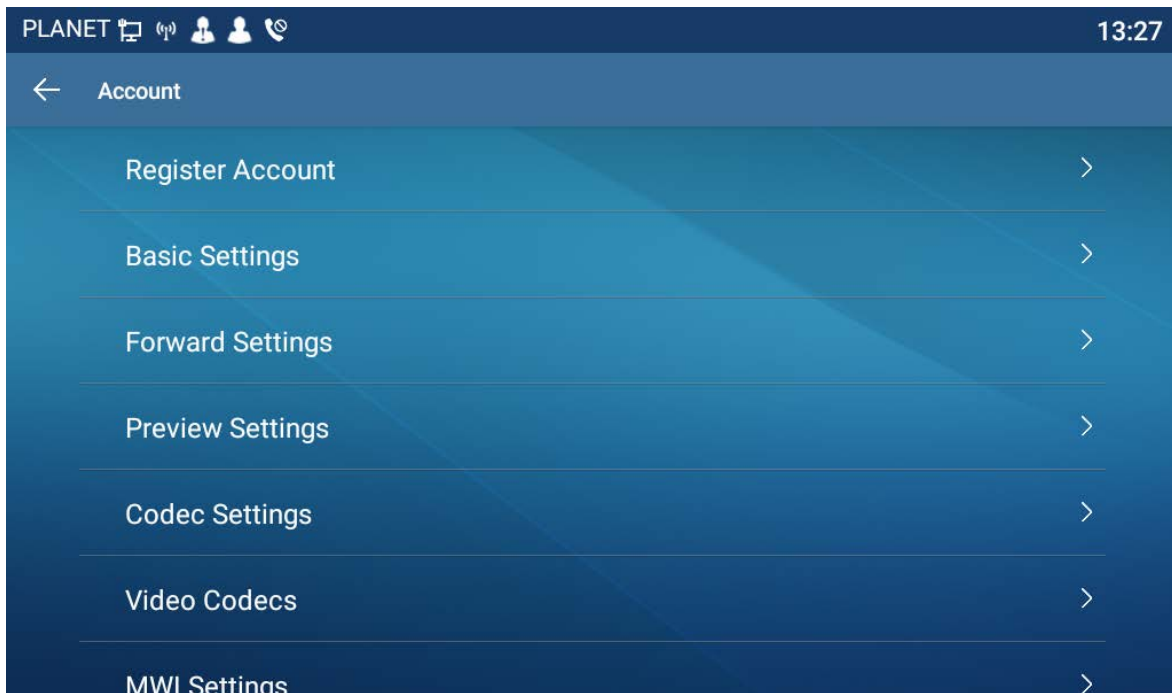
The user can conduct line configuration on the interface of the phone or the webpage, and input the corresponding information at the registered address, registered user name, registered password and SIP user, display name and registered port respectively, which are provided by the SIP server administrator.

- 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 8 - Phone line SIP address and account information



Picture 9 - Phone display name and port

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

PLANET
Networking & Communication
ICF-1900

SIP SIP Hotspot Dial Plan Action Plan Basic Settings

- System
- Network
- Line**
- Phone settings
- Phonebook
- Call logs
- Function Key
- Application
- Security
- Device Log

Line: PLANET@

Register Settings >>

Line Status: **Registered**

Activate: ?

Username: 125 ?

Authentication User: 125 ?

Display name: PLANET ?

Authentication Password: ***** ?

Realm: ?

Server Name: ?

SIP Server 1:

Server Address: 192.168.1.241 ?

Server Port: 5060 ?

Transport Protocol: UDP ?

Registration Expiration: 3600 second(s) ?

Proxy Server Address: ?

Proxy Server Port: 5060 ?

Proxy User: ?

Proxy Password: ?

SIP Server 2:

Server Address: ?

Server Port: 5060 ?

Transport Protocol: UDP ?

Registration Expiration: 3600 second(s) ?

Backup Proxy Server Address: ?

Backup Proxy Server Port: 5060 ?

Picture 10 - Web SIP registration

8 Basic Function

8.1 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 11 - Default line

■ Dialing Methods

User can dial a number by,

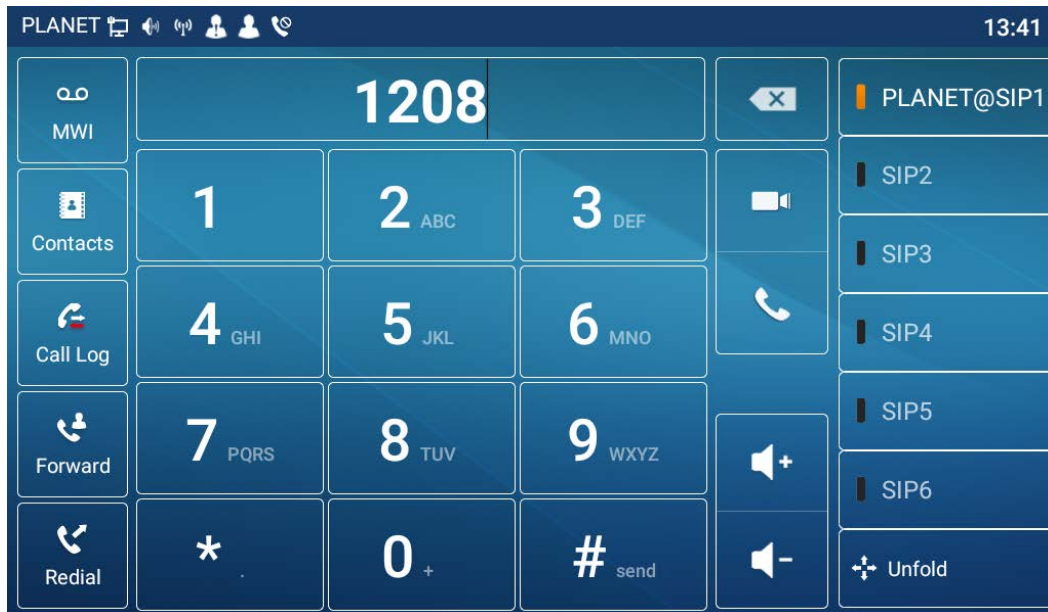
- Entering the number directly
- Selecting a phone number from phonebook contacts (Refer to [10.2.1 Local contacts](#))
- Selecting a phone number from cloud phonebook contacts (Refer to [10.2.3 Cloud Phone Book](#))
- Selecting a phone number from call logs (Refer to [10.3 Call Log](#))
- Redialing 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**

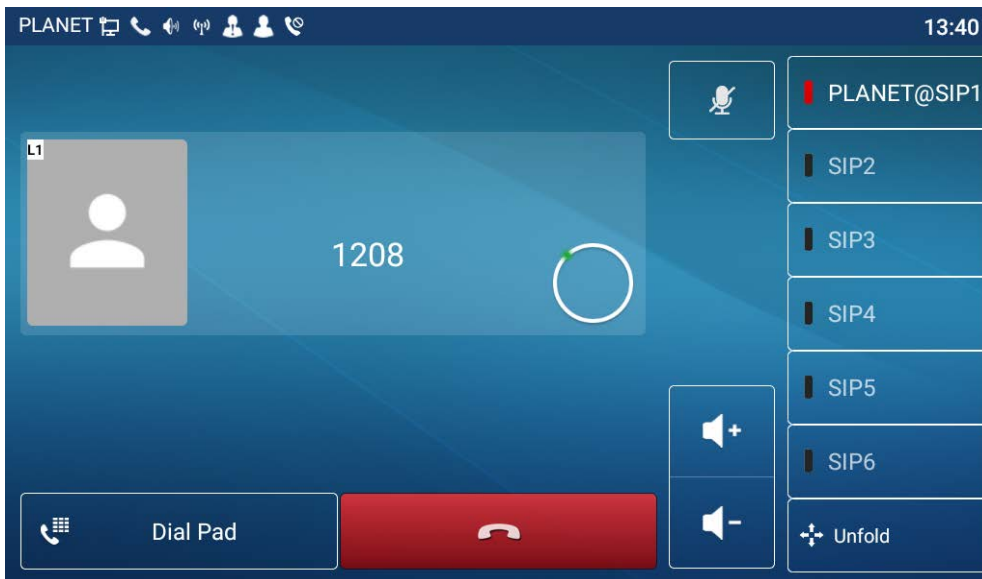
Another alternative is the traditional way to firstly open the audio channel by lifting the handset, turning on the hands-free speaker or headphone by pressing hands-free button, or line key, and then dial the number with one of the above methods. When dialing the number, user can press **[Dial]** button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



Picture 12 - Open the voice channel and dial the number

■ **Cancel Call**

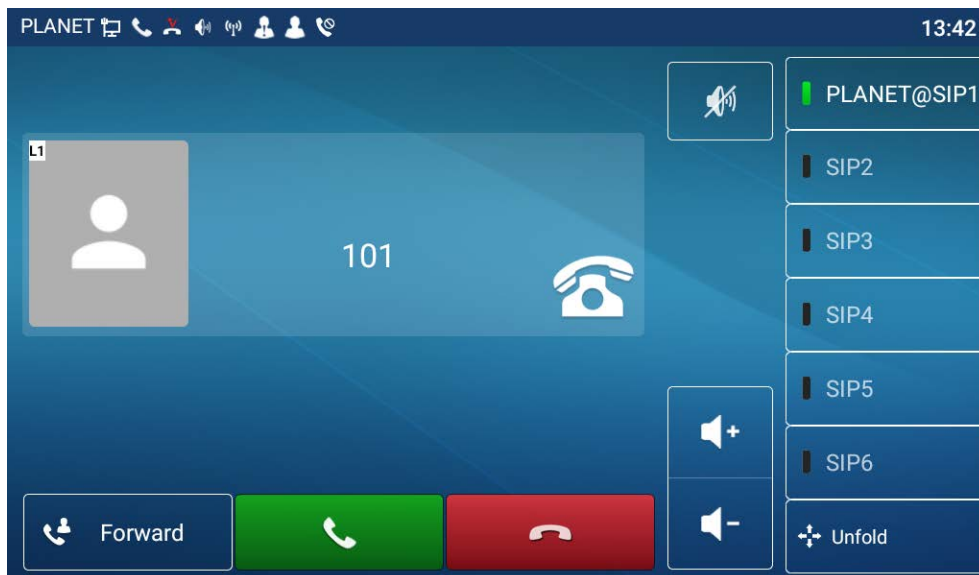
While calling the number, user can press to end the audio channel by putting back the handset or pressing the hands-free button to drop the call.



Picture 13 - Call number

8.2 Answering Calls

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

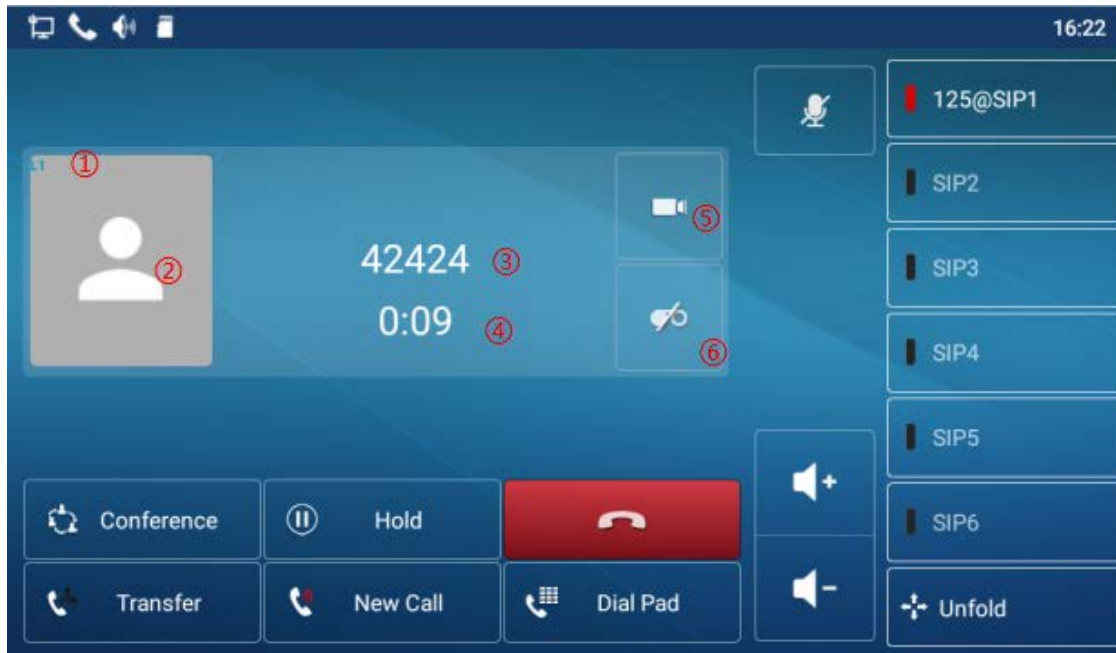


Picture 14 - Answering calls

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 [Reject] button.

8.2.1 Talking

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



Picture 15 - Talking interface

Table 9 - Talking mod

Number	Name	Description
①	The current line	The line currently used by the phone.
②	User avatar	Default display, user can customize the selection of avatar pictures.
③	Calls to end	The name or number of the person on the other end of the call.
④	Call duration	The duration of a call after it has been established.
⑤	Video icon	Click to initiate video call.
⑥	Record icon	Click start recording and click end recording again.

8.2.2 Make / Receive 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 16 - 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 17 - Two way calling


User can press up/down navigator buttons to switch screen page, and switch call focus by pressing [Resume] button.

■ **Ending One Call**

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

8.3 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.

 Note	When the phone is in the reserved state, the user must press the [Resume] key to return to the call state, or put the receiver back and press the hands-free hook to end the call.
---	--

8.4 Video Call

The ICF-1900 supports a variety of video formats -- CIF, VGA, 4CIF and 720p.



PLANET ICF-CAM80 USB camera is an **optional** accessory for the ICF-1900 IP phone.

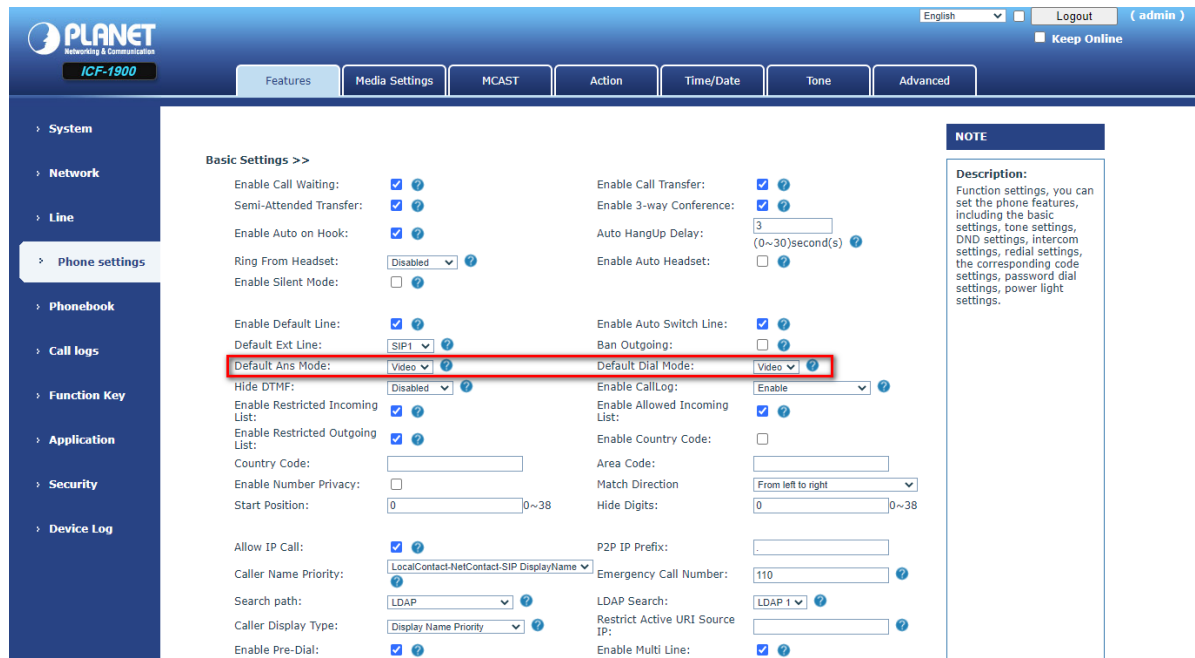
The device only supports video decoding, but users can initiate video calls.

- 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 18 - Video interface

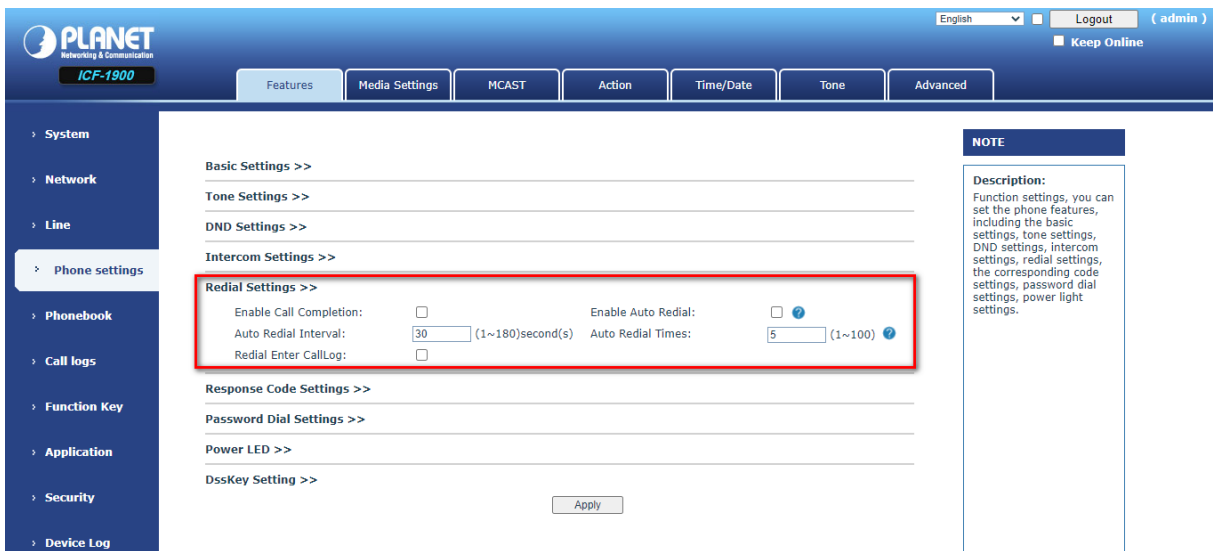
Web interface: Enter [**Phone Settings**] >> [**Features**] >> [**Basic Settings**], and choose to configure the “Default Dial Mode” and “Default Ans Mode”.



Picture 19 - Video Settings

8.5 Redial

- Redial the last outgoing number:
When the phone is in standby mode, press the redial button and the phone will call out the last number dialed.
- Call out any number with the redial key:
Enter the number, press the redial key, and the phone will call out the number on the dial.
- Press the redial key to enter the call record:
Log in 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 20 - Redial set

8.6 Dial-up Query

Phone is defaulted to open the dial-up inquiry function, dial-out, enter two or more Numbers, dial the interface will automatically match call records, contacts in the number list, use the navigation key up and down keys can select the number, press the call out key or time out.

8.7 Auto-Answering

User may enable auto-answering feature on the device and any incoming call will be automatically answered (not including call waiting). The auto-answering can be enabled on line basis.

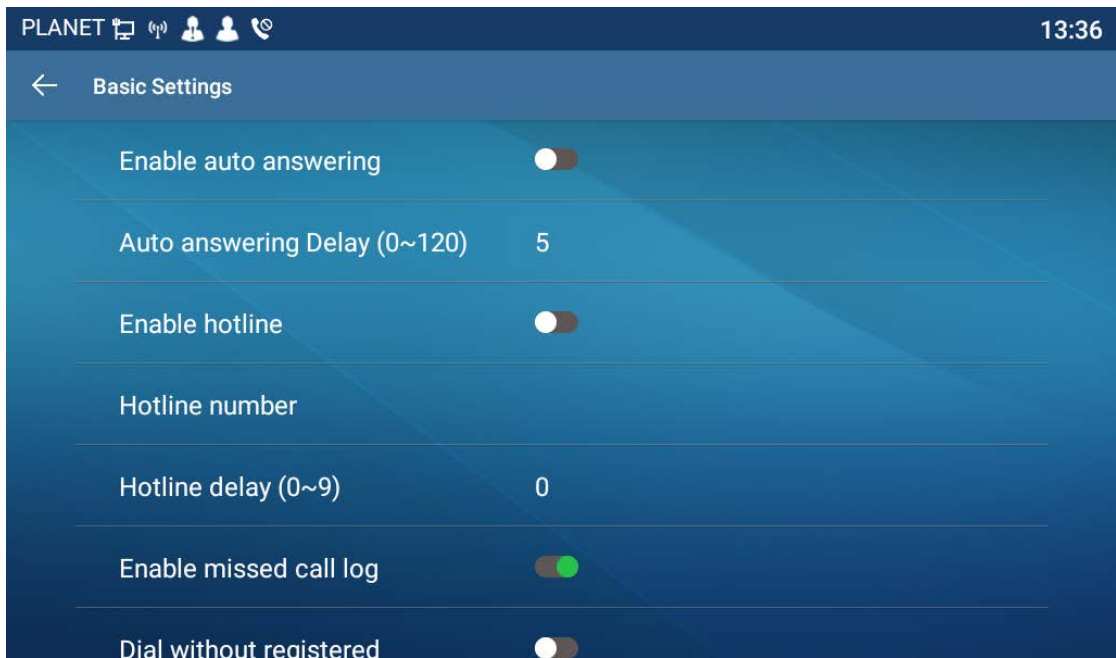
The user can start the automatic answer function in the telephone interface or the webpage interface.

- **Phone interface:**

Press **[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.

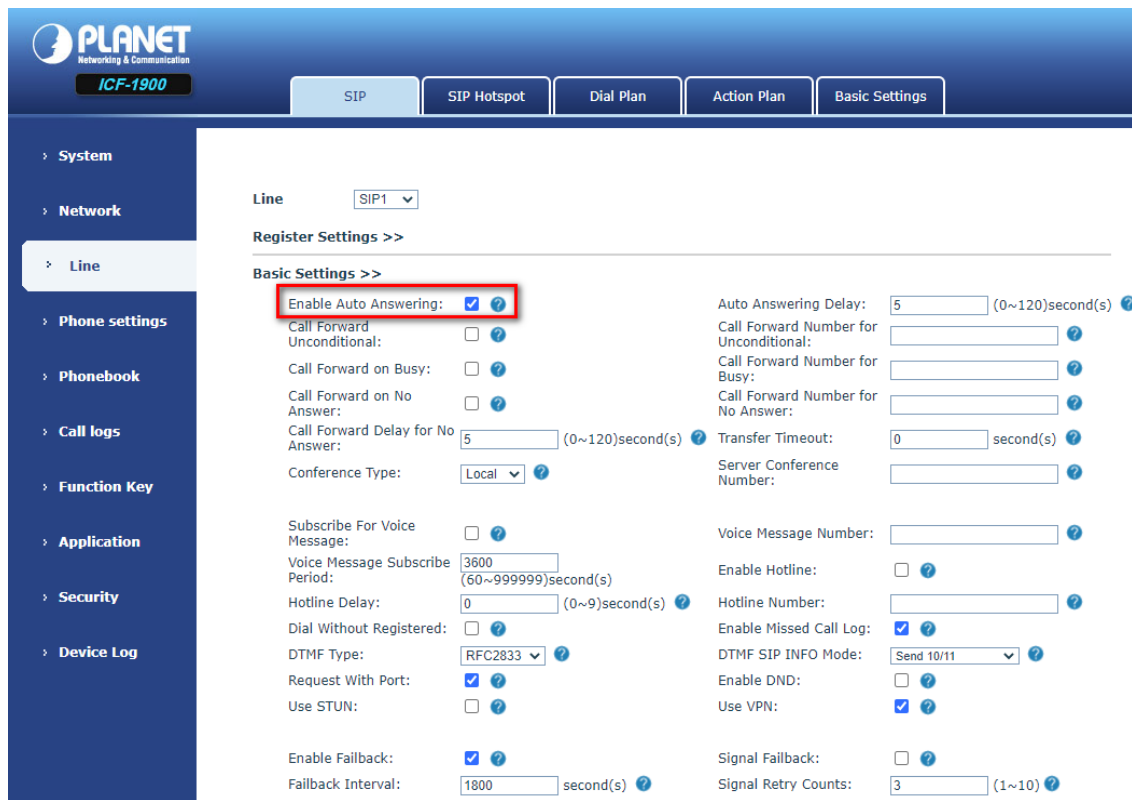


Picture 21 - Line 1 enables auto-answering



● **Web interface:**

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



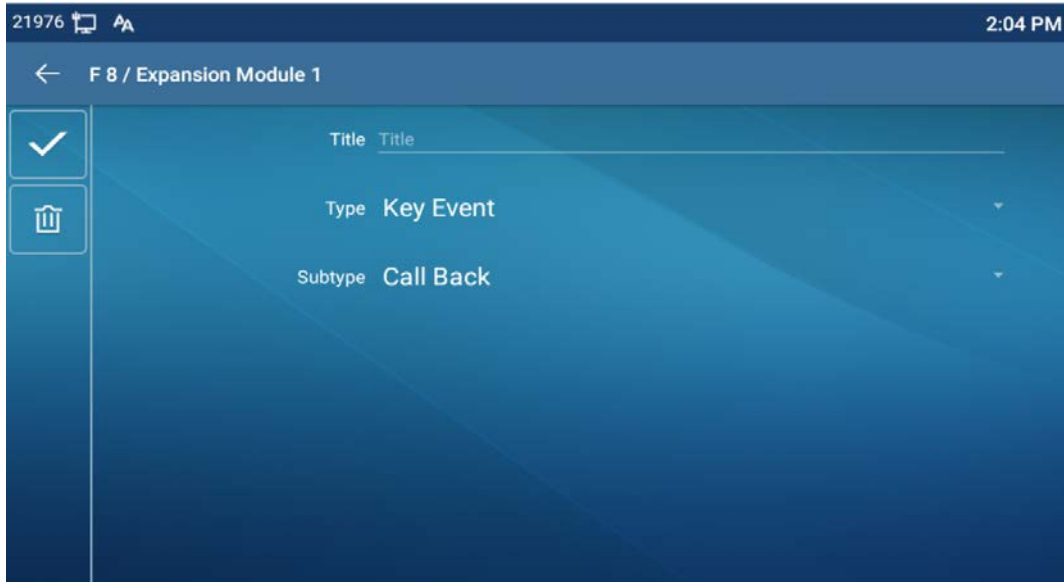
Picture 22 - Web page to start auto-answering

8.8 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".

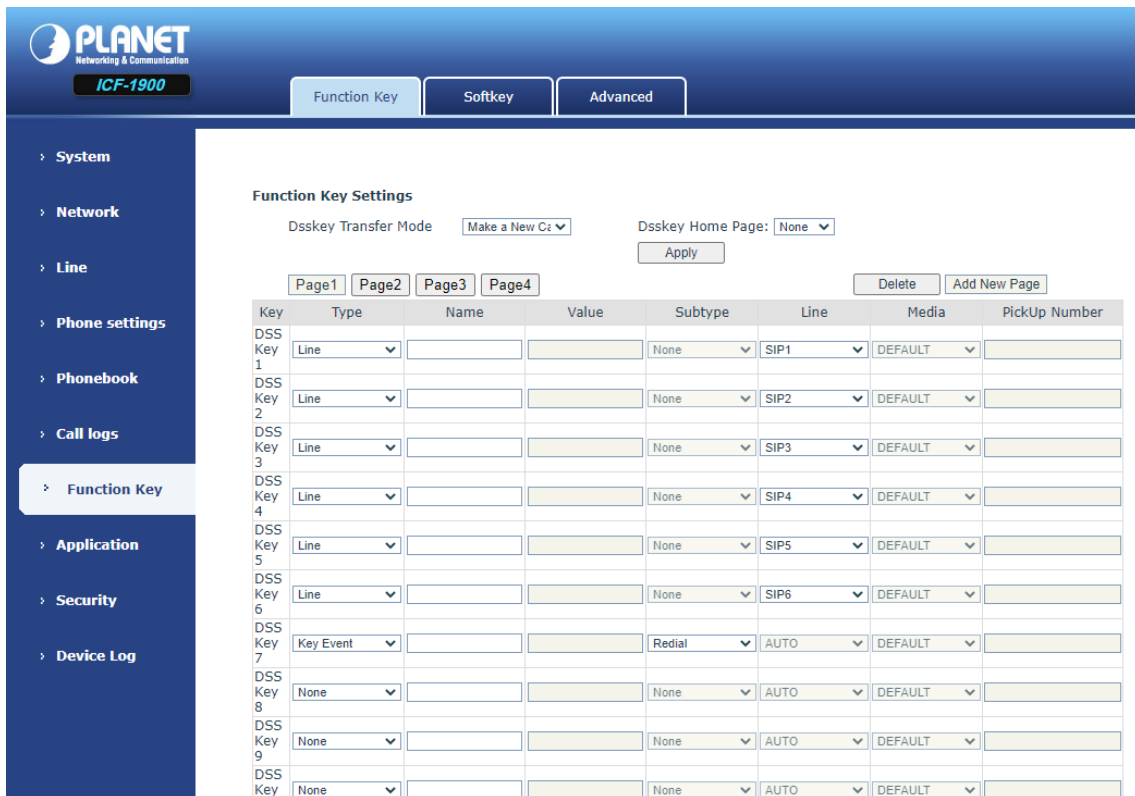
- Set the callback key through the phone interface:

In standby mode, click the unfold button and long press the function key to be set. It will automatically enter the configuration interface. Type select key event type and subtype select call back, and you can set the call back key name in the title input box. Press [✓] button to save.



Picture 23 - Set the callback key on the phone

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




Picture 24 - Set the callback key on the web page

8.9 Mute

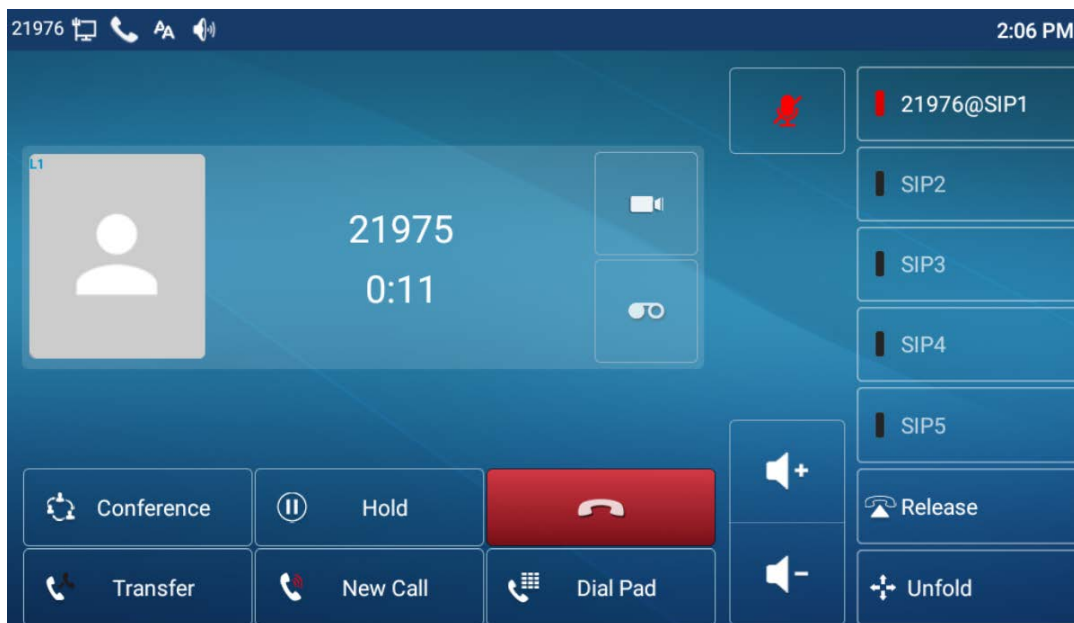
You can turn on mute mode during a call and turn off the microphone so that the local voice is not heard. Normally, mute mode will be automatically turned off at the end of a call. You can also turn on mute on any screen (such as the free screen) and mute the ringtone automatically when there is an incoming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

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


8.9.1 Mute the Call

- During the conversation, press the mute button on the phone:  The red light of the mute button will be turned on.

Red mute icon is displayed in the call interface, as shown in the figure:




Picture 25 - Mute the call

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




8.9.2 Ringing Mute

- Mute: Press the mute button when the phone is in standby mode: 

The top right corner of the phone shows the bell mute icon , Mute button red light is always on, when there is an incoming call; the phone will display the incoming call interface but will not ring.

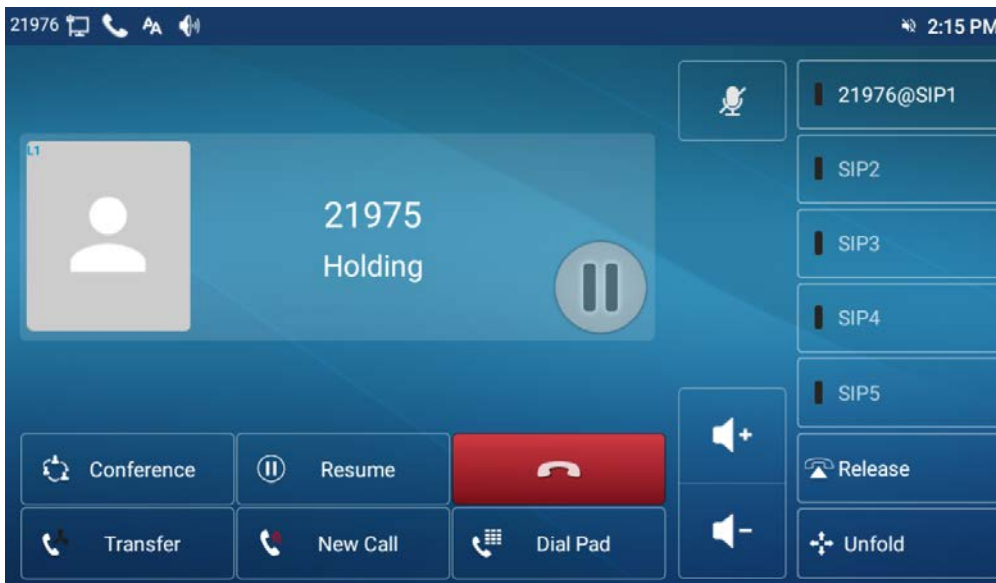


Picture 26 - Ringing mute

- Cancel ring tone mute: On the standby or incoming call screen, press the mute button again  or volume up  button to cancel ring tone mute. It will no longer shows mute icon in upper right corner after cancelling . The phone mute icon is off

8.10 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 27 - Call hold interface

8.11 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 line basis.

Enable/Disable phone all lines DND, Methods the following :

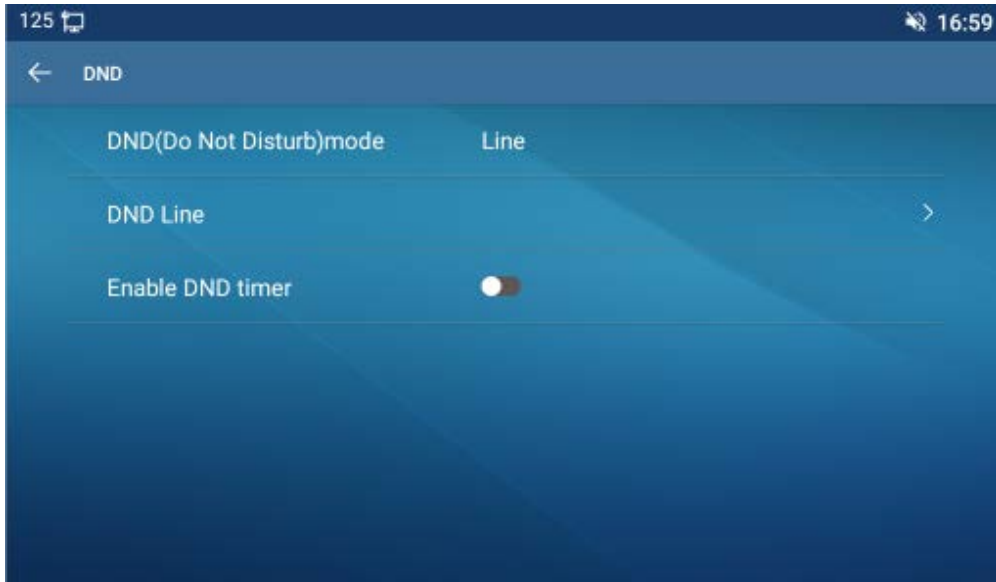
- Phone interface: Default standby mode ›
 - 1) Press [**DND**] button to enter the DND setting interface. Select line or phone to enable DND and the icon will become red . The phone status prompt bar will have a DND icon.
 - 2) Press [**DND**] button to enter the DND setting interface and disable DND.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



Picture 28 - Enable DND

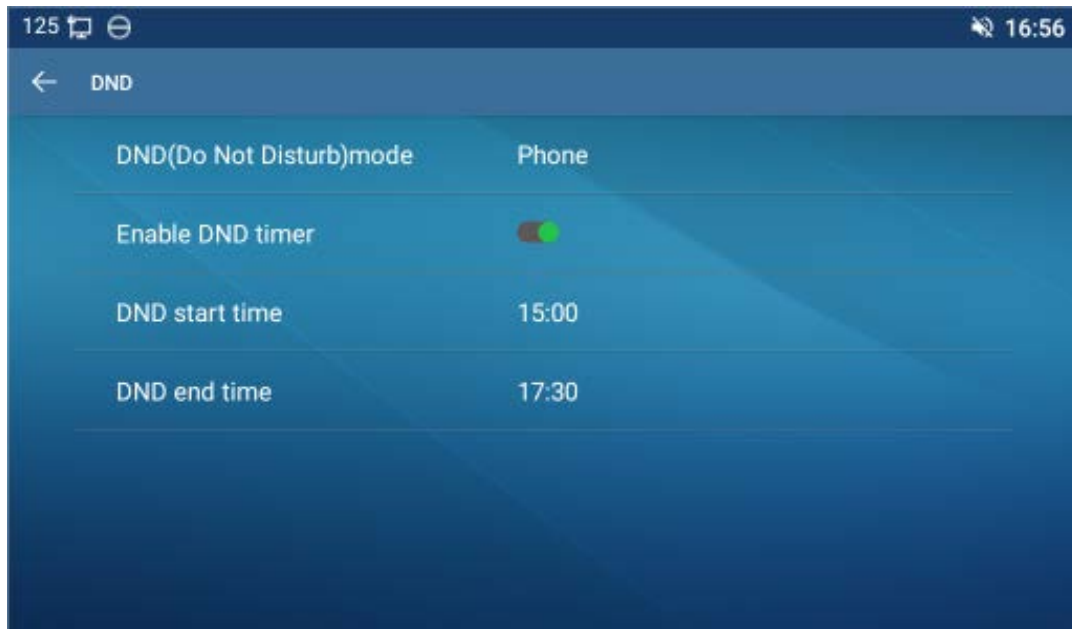
If the user wishes to enable/disable the uninterrupted function on a specific line, the user can set the uninterrupted function on the page of configuring the line.

- 1) Press [**Phone Settings**] >> [**Call**] >> [**DND**] button. Enter the [**DND**] editing interface.
- 2) Click the left/right navigation button to select the line to adjust the mode and state of "do not disturb", and then press the [**OK**] button to save.
- 3) The user will see the DND icon turn red, and the sip-line has enabled the mode of "DND".



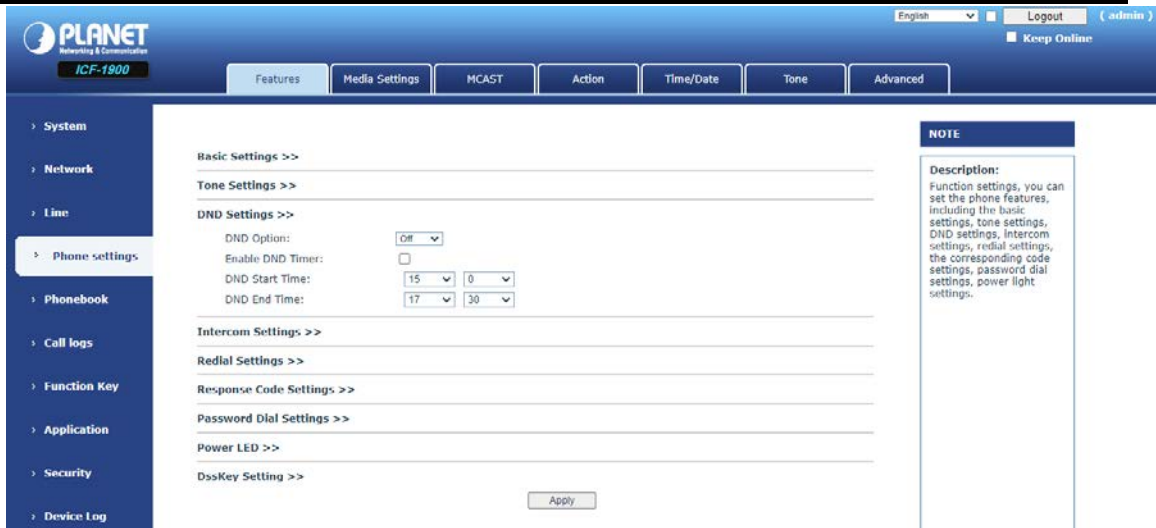
Picture 29 - DND setting interface

The user can also use the DND timer. After the setting, the DND function will be automatically turned on and the DND icon will turn red in the time range.



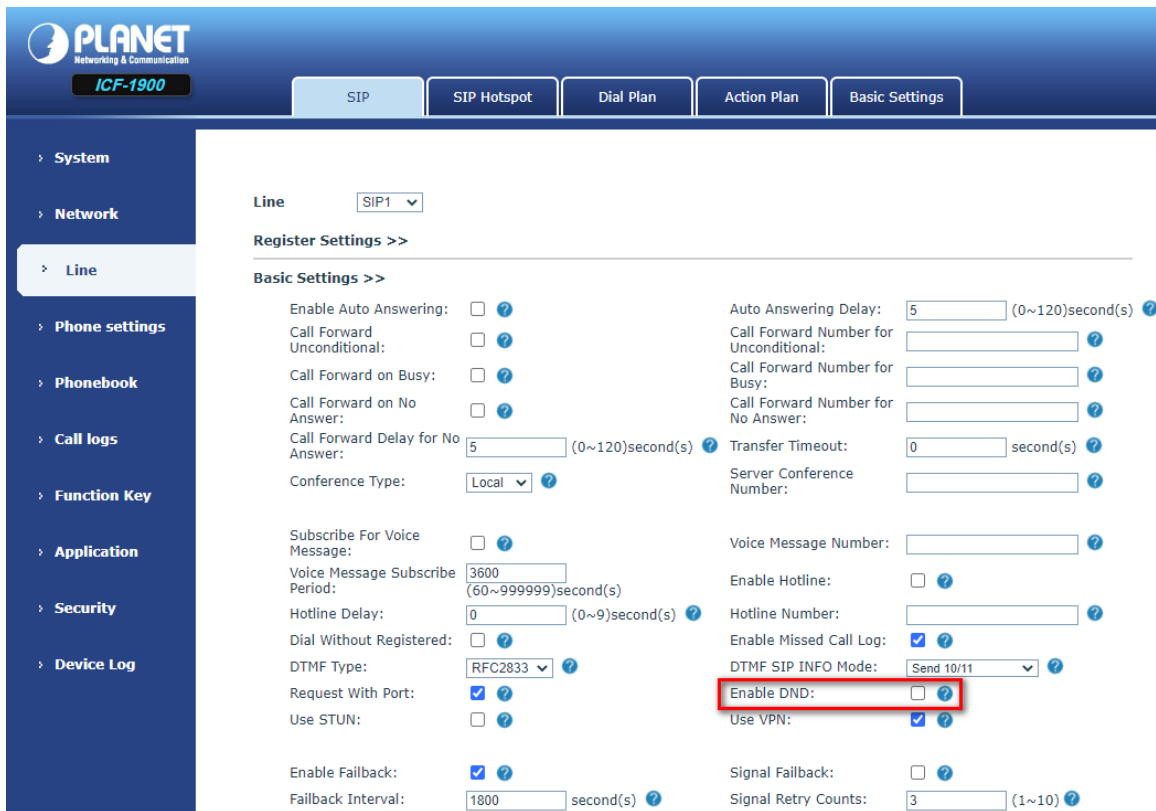
Picture 30 - DND timer

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



Picture 31 - 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 32 - Line DND

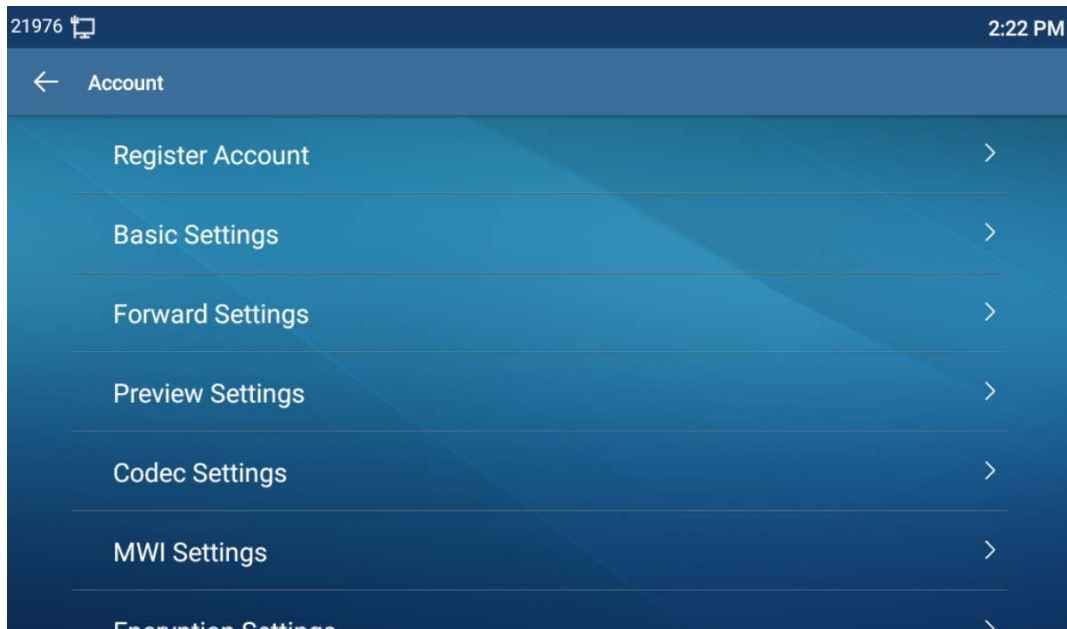
8.12 Call Forward

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,

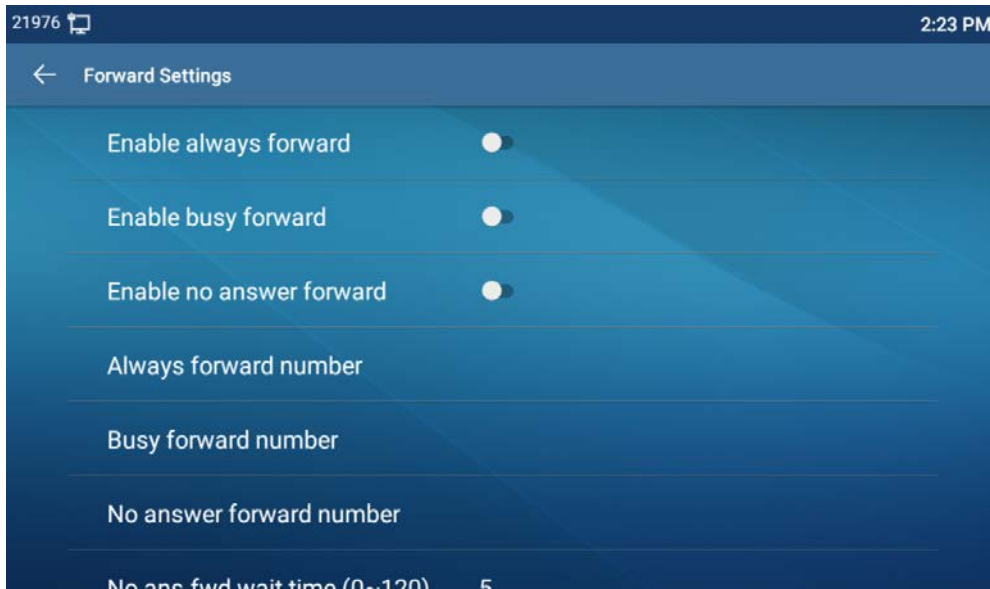
- **Unconditional Call Forward** – Forward any incoming call to the configured number.
- **Call Forward on Busy** – When user is busy, the incoming call will be forwarded to the configured number.
- **Call Forward on No Answer** – When user does not answer the incoming call after the configured delay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

- Phone interface: Default standby mode
 - 1) Press [**Application**] >> [**Phone Settings**] >> [**Account**] >> [**Line**] button, and click any line to set up forward settings.



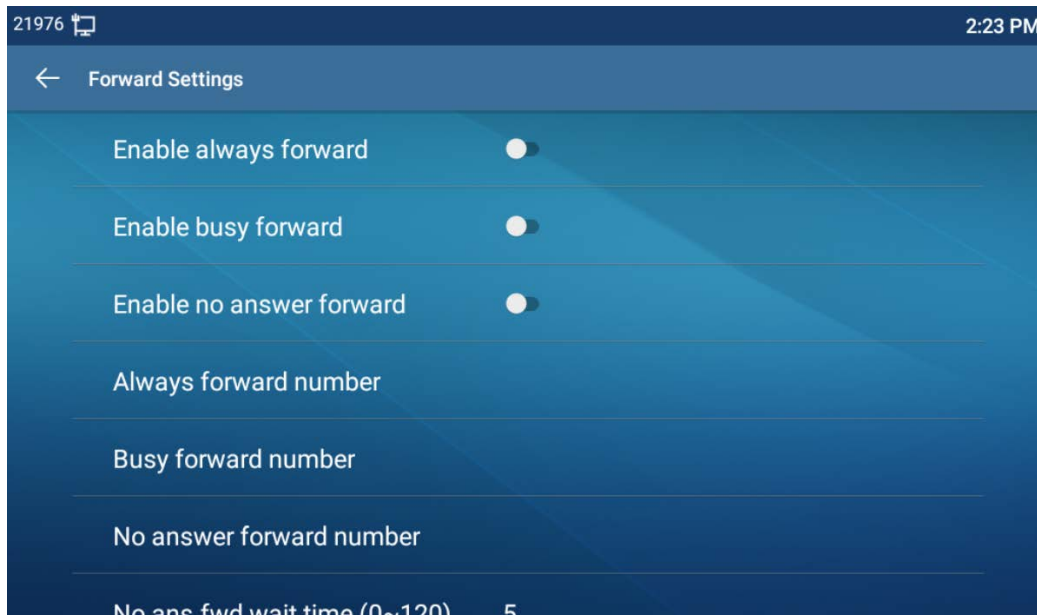
Picture 33 - Select the line to set up call forwarding

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



Picture 34 - Select call forward type

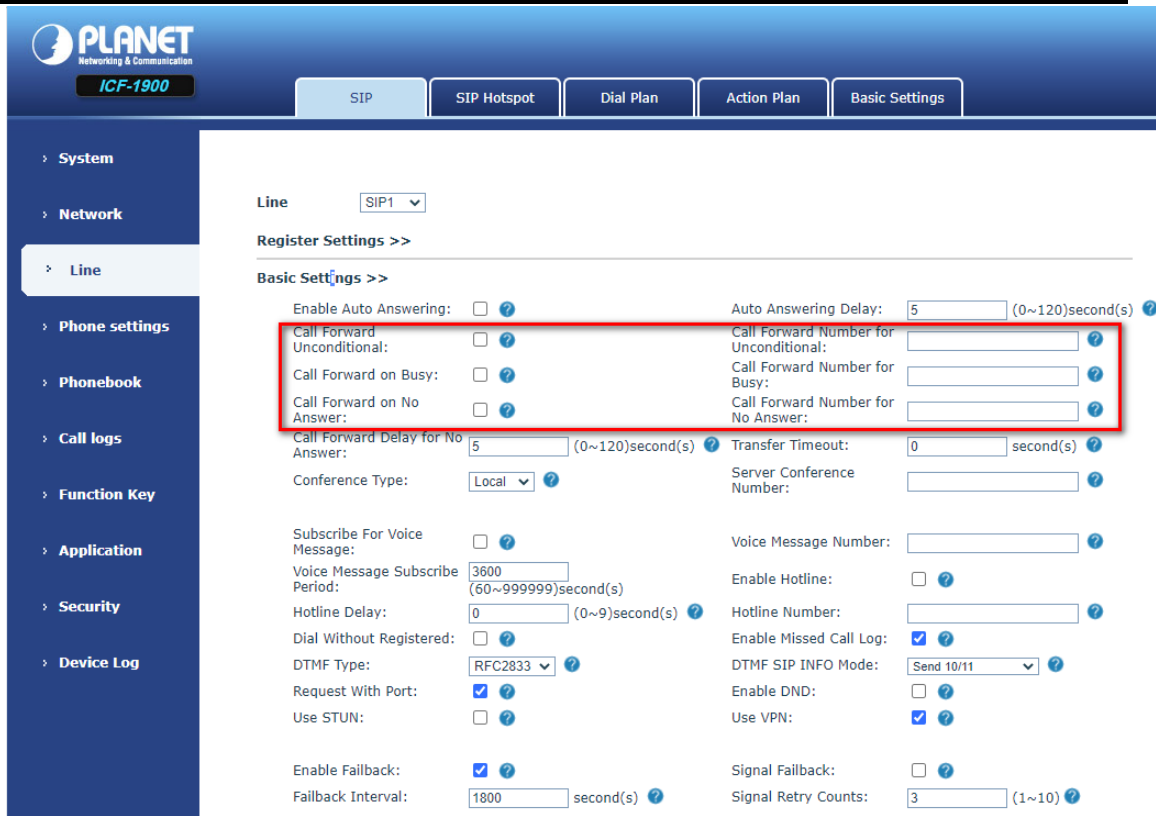
3) Click the slide button to select on/off.



Picture 35 – Enable the call forwarding and configure the call forwarding number

4) Configure parameters by clicking Settings and enter the required information.
When finished, press the [✓] button to save the changes.

- Web interface: Enter [Line] >> [SIP], Select a [Line] >> [Basic settings], and set the type, number and time of forwarding.



The screenshot shows the configuration page for Line SIP1. The 'Basic Settings' section is expanded, and a red box highlights the following settings:


- Call Forward Unconditional: ?
- Call Forward on Busy: ?
- Call Forward on No Answer: ?
- Call Forward Number for Unconditional: [] ?
- Call Forward Number for Busy: [] ?
- Call Forward Number for No Answer: [] ?

Picture 36 - Set call forward

8.13 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.

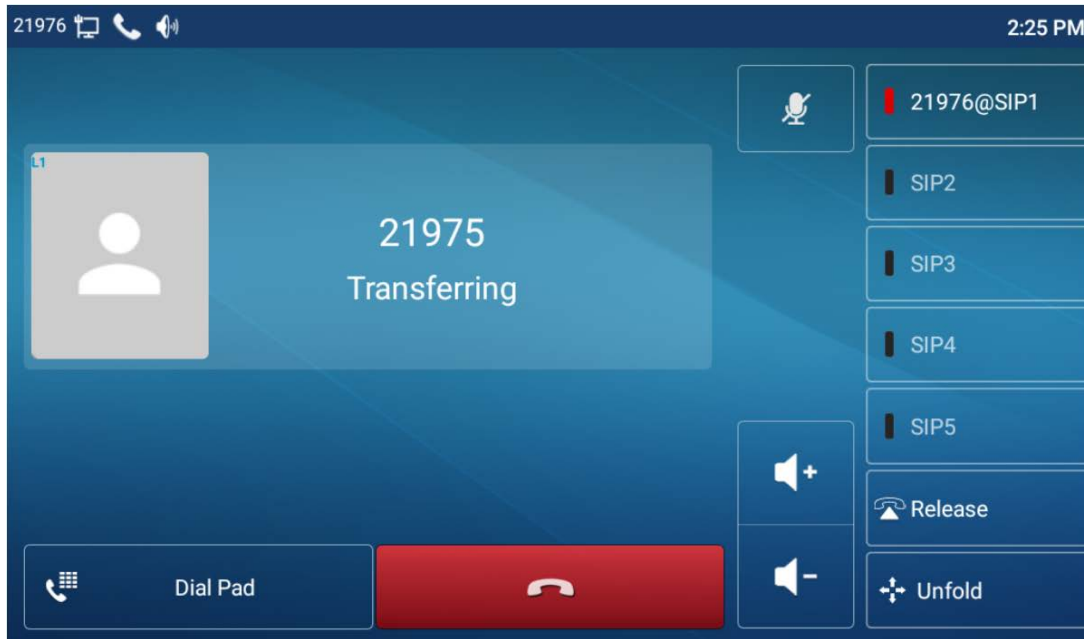
- Blind transfer: Do not need to negotiate with the other side; directly transfer the call to the other side.
- Semi-Attended transfer: When you hear the ring back, transfer the call to the other party.
- Attended transfer: When the caller answers the call, transfer the call to the caller.



For more transfer settings, please refer to [12.5 Line >> Dial Plan](#) .

8.13.1 Blind transfer

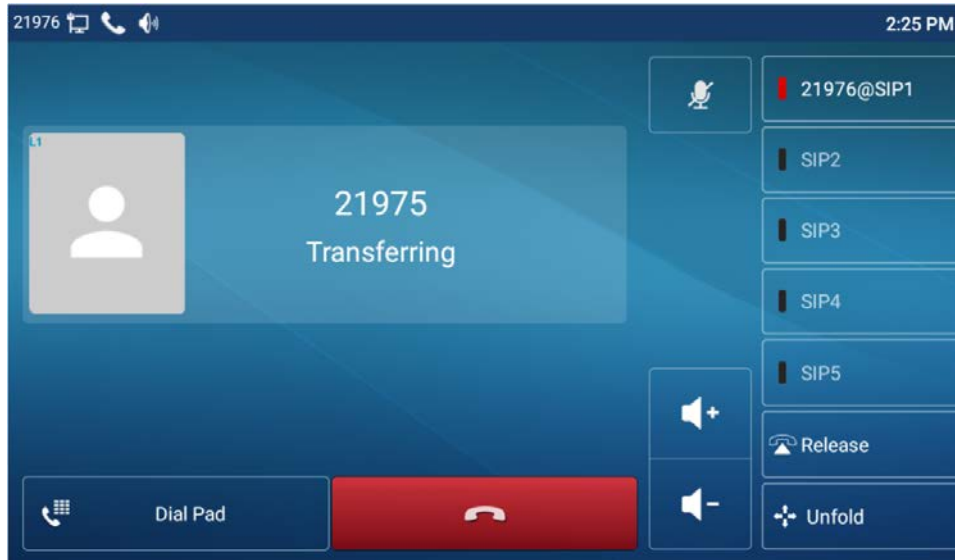
During the call, the user presses the function menu button [**Transfer**] or the transfer button on the phone ☞ , Enter the number to transfer or press the contact button or the history button to select the number, press the transfer key again or blind transfer ☞ to a third party. After the third party rings, the phone will show that the transfer is successful and hang up.



Picture 37 - Transfer interface

8.13.2 Semi-Attended transfer

During the call, the user presses the function menu button [transfer] or the transfer button ☞ 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. When the third party is not answered, press the transfer on the call interface to make the semi-attendance transfer or press the end button to cancel the semi-attendance transfer.

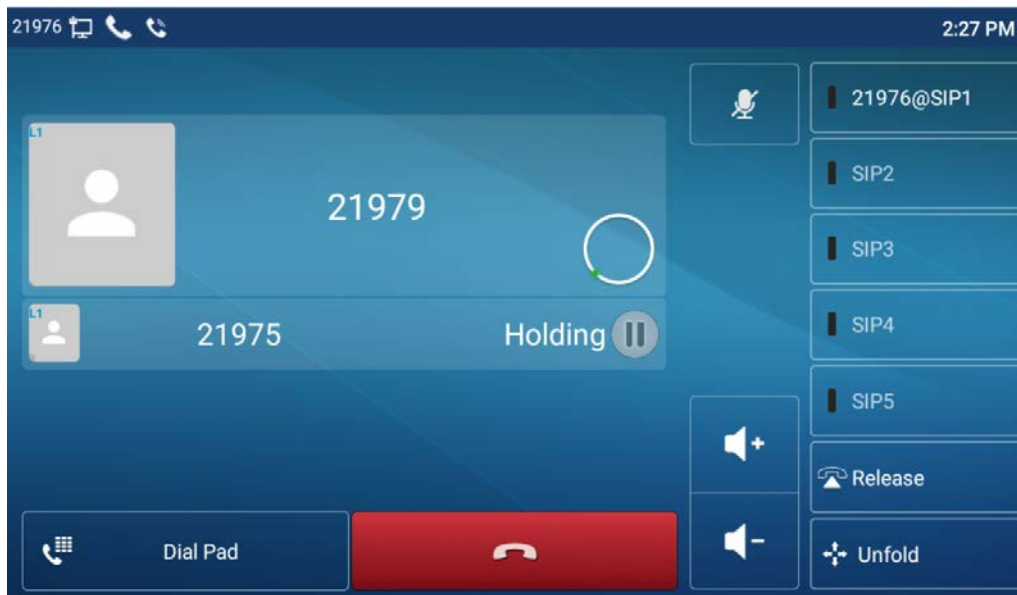


Picture 38 - Semi-Attended transfer

8.13.3 Attended transfer

Attendance 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 dual call mode, press the "transfer" button to transfer the first call to the second call.



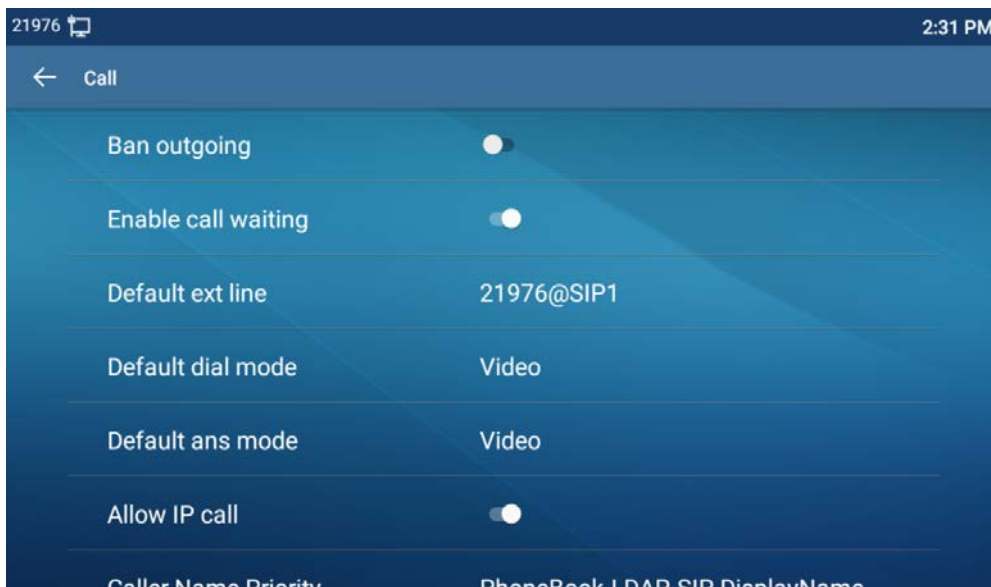
Picture 39 - Attended transfer

8.14 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 40 - Call waiting setting

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

The screenshot shows the 'Basic Settings' page in the PLANET ICF-1900 web interface. The 'Enable Call Waiting' checkbox is checked and highlighted with a red box. Other settings include 'Semi-Attended Transfer', 'Enable Auto on Hook', 'Ring From Headset', 'Enable Silent Mode', 'Enable Default Line', 'Default Ext Line', 'Default Ans Mode', 'Hide DTMF', 'Enable Restricted Incoming List', 'Enable Restricted Outgoing List', 'Country Code', 'Enable Number Privacy', 'Start Position', 'Allow IP Call', 'Caller Name Priority', 'Search path', 'Caller Display Type', 'Enable Pre-Dial', 'Enable Call Transfer', 'Enable 3-way Conference', 'Auto HangUp Delay', 'Enable Auto Headset', 'Enable Auto Switch Line', 'Ban Outgoing', 'Default Dial Mode', 'Enable CallLog', 'Enable Allowed Incoming List', 'Enable Country Code', 'Area Code', 'Match Direction', 'Hide Digits', 'P2P IP Prefix', 'Emergency Call Number', 'LDAP Search', 'Restrict Active URI Source IP', and 'Enable Multi Line'. A 'NOTE' section on the right provides a description of the function settings.

Picture 41 - Web call waiting setting

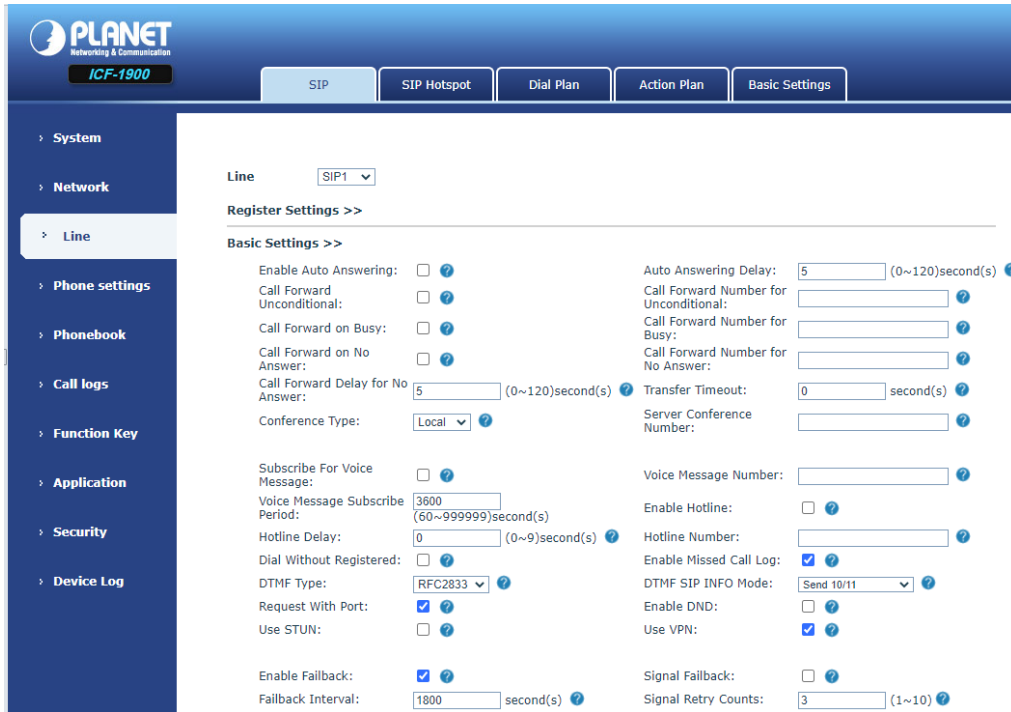
The screenshot shows the 'Tone Settings' page in the PLANET ICF-1900 web interface. The 'Enable Call Waiting Tone' checkbox is checked and highlighted with a red box. Other settings include 'Enable Holding Tone', 'Play Dialing DTMF Tone', and 'Play Talking DTMF Tone'. Below these are sections for 'DND Settings', 'Intercom Settings', 'Redial Settings', 'Response Code Settings', 'Password Dial Settings', 'Power LED', and 'DssKey Setting'. An 'Apply' button is located at the bottom. A 'NOTE' section on the right provides a description of the function settings.

Picture 42 - Web call waiting tone setting

8.15 Conference

8.15.1 Local Conference

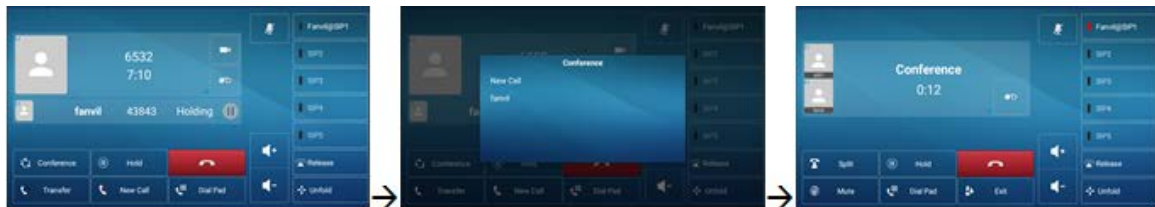
To conduct local conference, the user needs to log in the webpage and enter [Line] >> [SIP] >> [Basic settings]. The meeting mode is set as local (the default is local mode), as shown in the figure:



Picture 43 - 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.
- 2)



Picture 44 - 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 opposite end is answered, press the conference button again to set up the local tripartite conference:



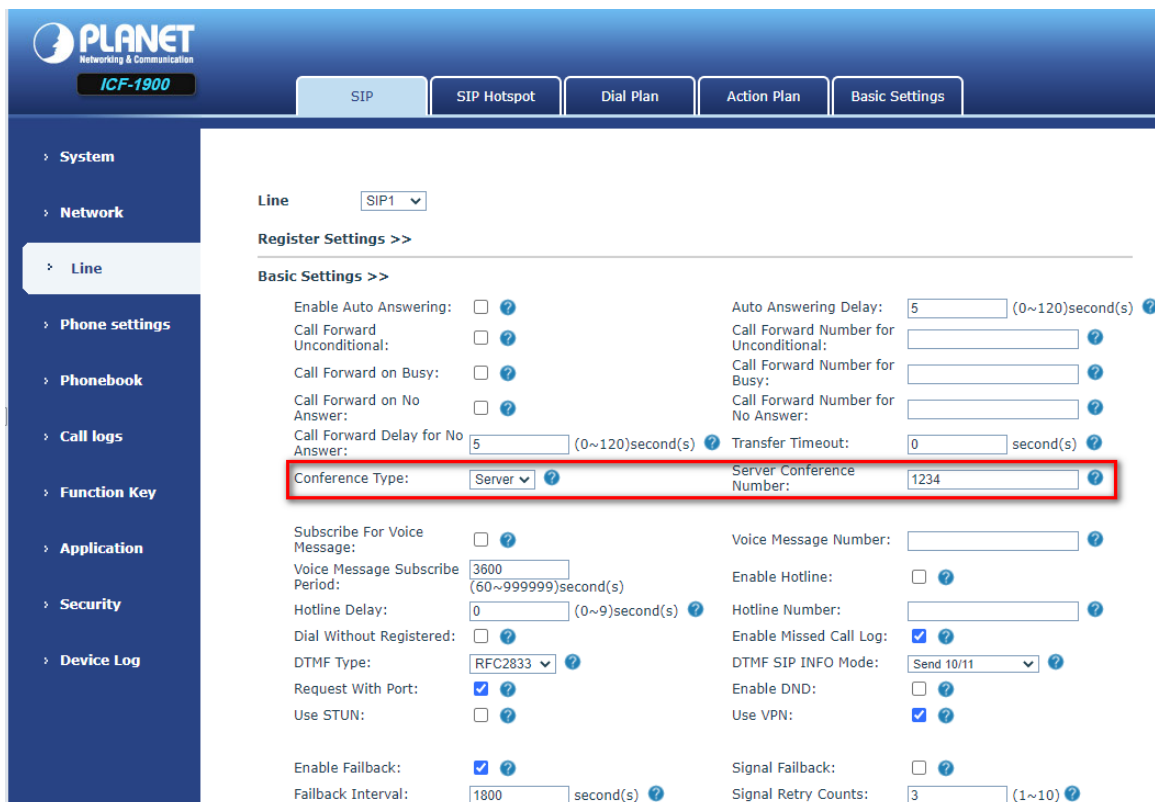
Picture 45 - Local conference (2)

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

8.15.2 Network Conference

Users need server support for network conference.

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



Picture 46 - Network conference

Method 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.

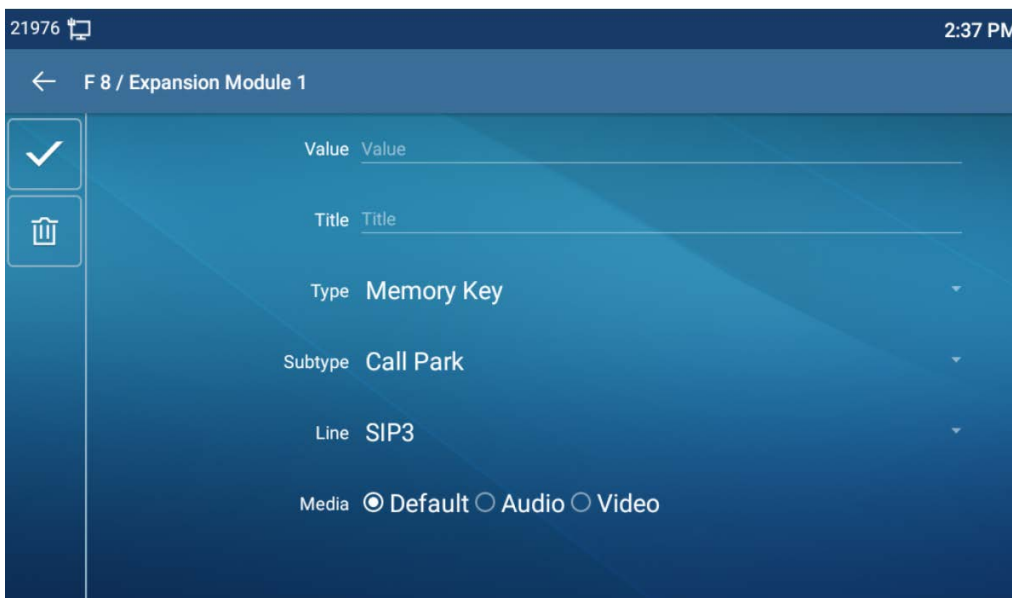
8.16 Call Park

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

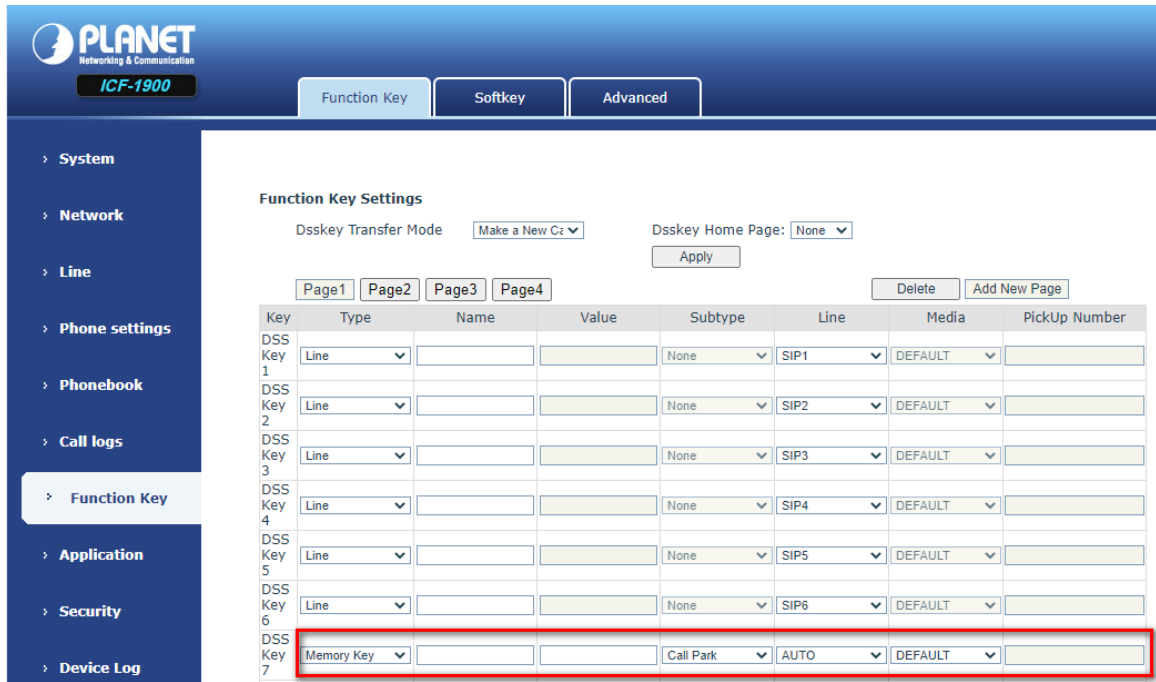
When you are on the call, it is not convenient to answer the phone at this time, you can press the configured park button to hold the call; After the Call Park is successful, you can resume the call by pressing the configured park button on other devices.

Set the call park button:

- Phone interface: In standby mode, click the unfold button and long press an editable key to enter the function key setting interface. Set the function key type as memory and subtype as call park and the value as the call park number of the server, and set up corresponding SIP lines.
- Web interface: Log in the phone page, enter the **[Function Key]** >> **[Function Key]** page, select a DSSkey, set the function key type as memory key, the subtype as call park, and the value as the call park number of the server, and set the corresponding SIP line.



Picture 47 - Phone set Call Park



Picture 48 – Web set Call Park

8.17 Pick Up

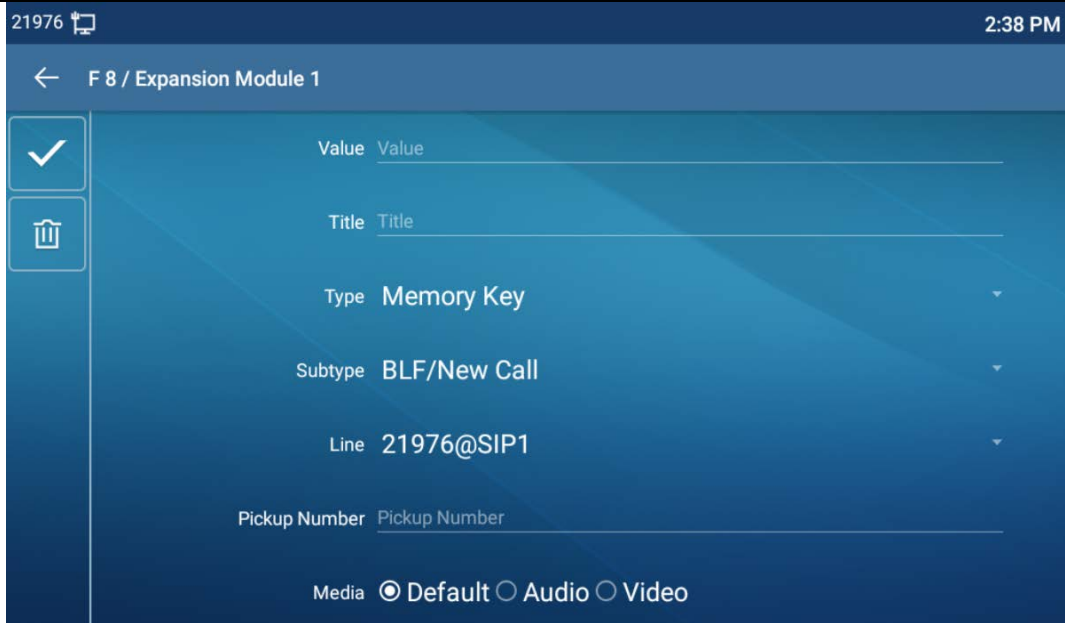
Pick-up requires server support. Consult your system administrator for support.

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

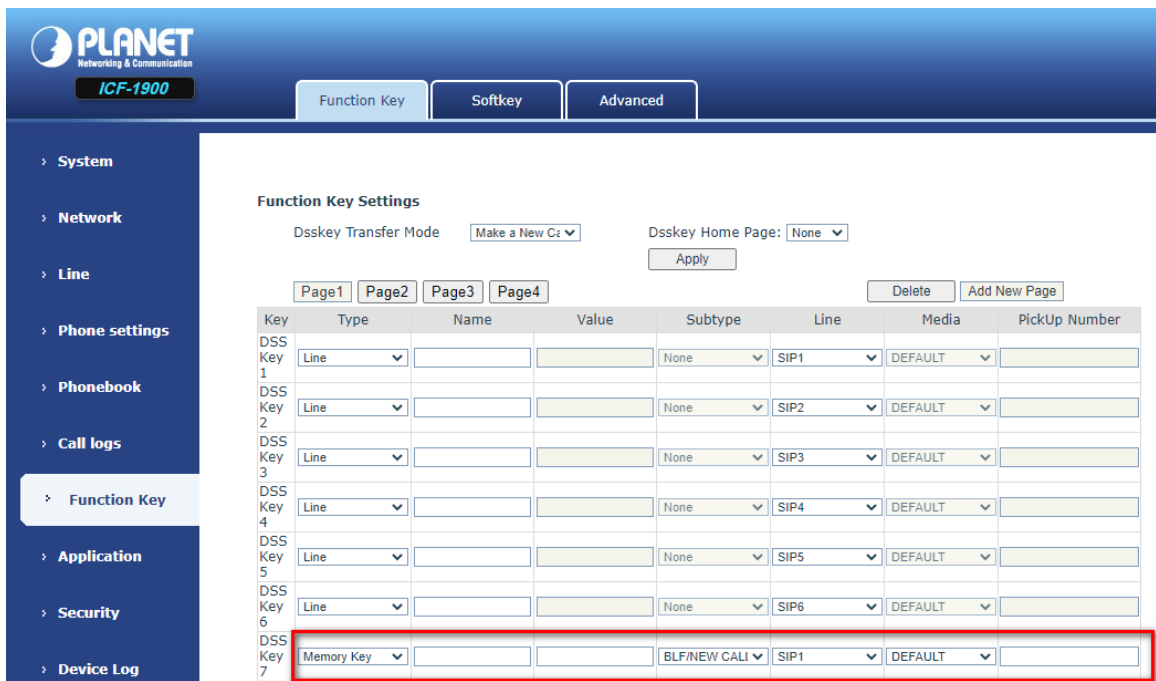
In standby mode, click the "unfold" button and long press an editable key to enter the interface of function key setting. Set the function key type as memory key and the subtype as BLF/NEW CALL, and set the corresponding SIP line. Finally fill in the grab number.

- Set the line, function key type as memory key, subtype as BLF/NEW CALL, set subscription number, and pick up code
 - Other phones call the subscription number, and the opposite end is in the incoming ring.
 - Press the DSS key to pick up the phone.
 - The caller picks up the call and speaks to it.

WEB interface: Log in the phone webpage, enter the **[Function Key]** >> **[Function Key]** page, select a DSSkey, 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 49 - Phone pick up setting



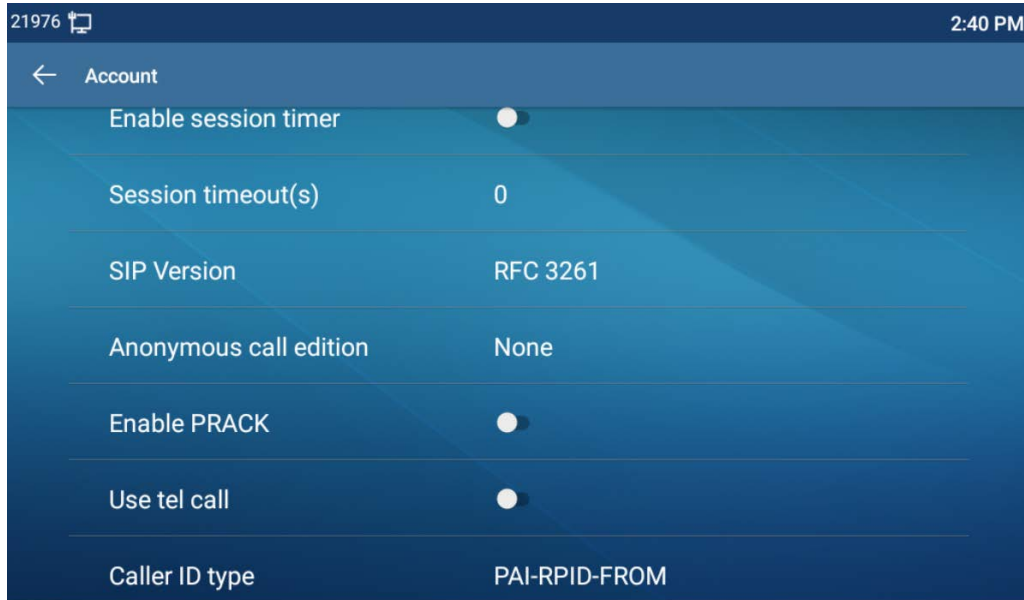
Picture 50 - WEB pick up setting

8.18 Anonymous Call

8.18.1 Anonymous Call

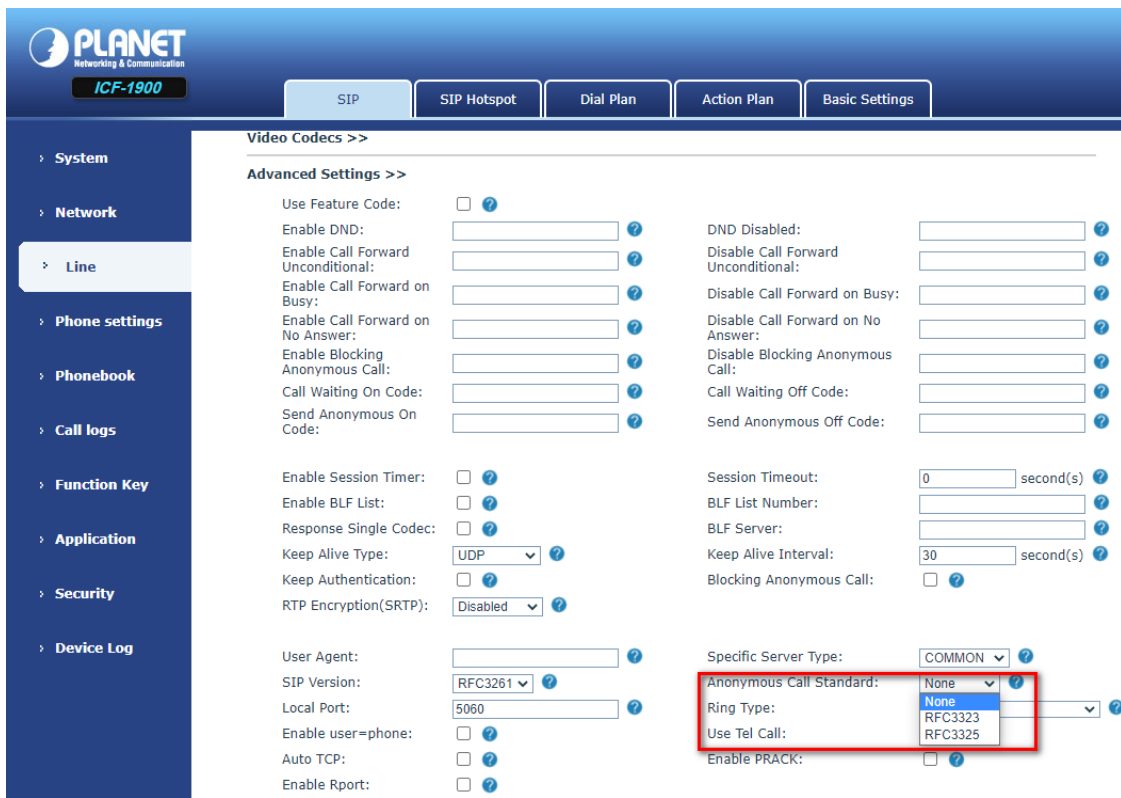
The phone can set up anonymous calls to hide the calling number and the calling name.

- You can see anonymity in the context of [**Phone Settings**] >> [**Account**] >> [**Line**] >> [**Advanced Settings**] >> [**Anonymous call edition**].
- The default is none, which is off, and RFC3323 and RFC3325 are optional.
- Select any one to open the anonymous call.



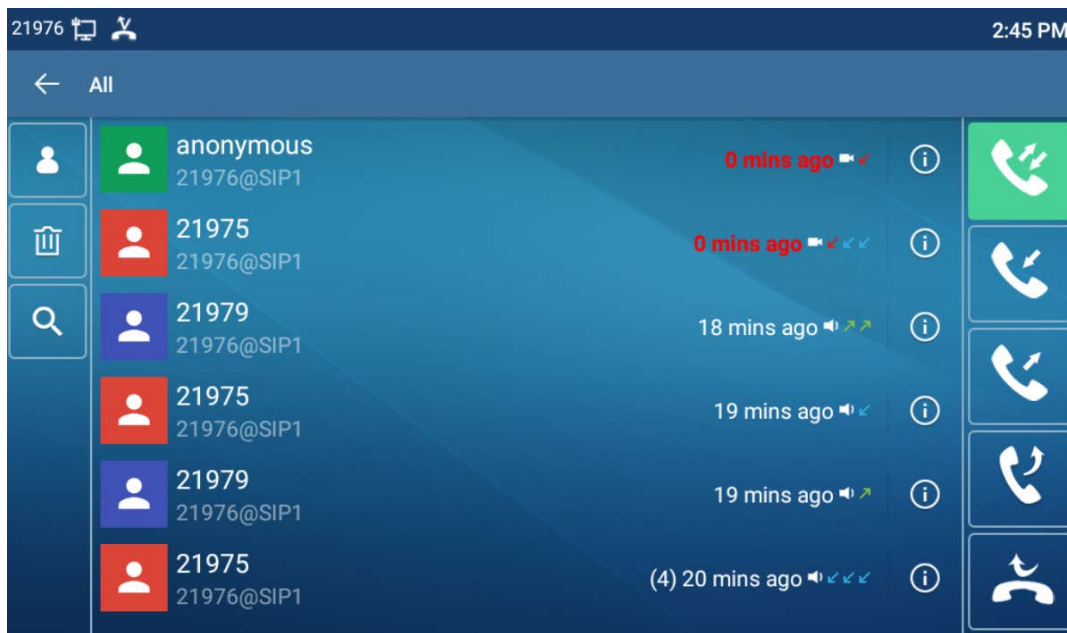
Picture 51 - Enable anonymous call

- On the web page [**Line**] >> [**SIP**] >> [**Advanced Settings**] can also open anonymous calls.
- Setting to enable anonymous calls also corresponds to the SIP line, that is, the setting under the SIP1 page can only take effect on the SIP1 line.



Picture 52 - Enable Anonymous web page call

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

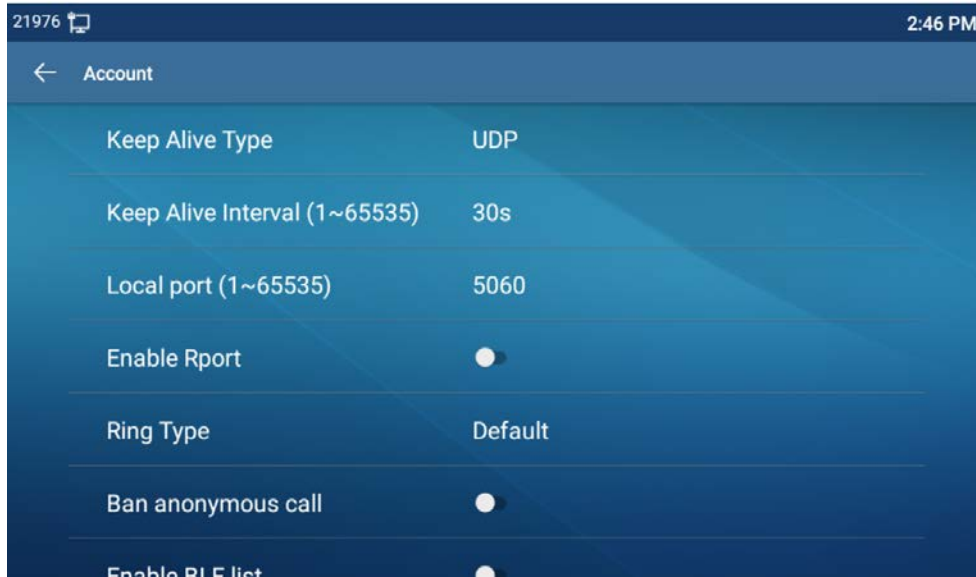


Picture 53 - Anonymous call log

8.18.2 Ban Anonymous Call

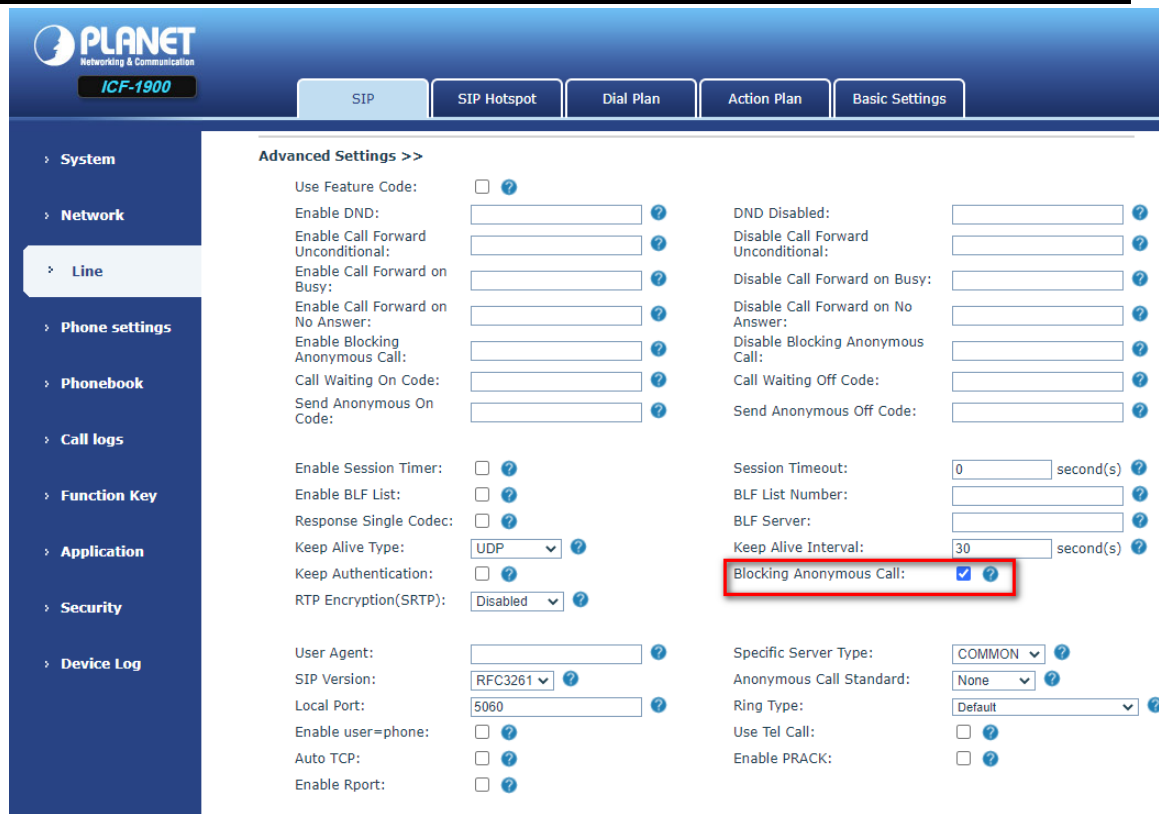
The device can be set to prohibit anonymous calls, that is, anonymous calls to the number will be directly rejected.

- In the phone **[Phone Settings]** >> **[Account]** >> **[Line]** >> **[Advanced Settings]** >> **[Ban anonymous call]**, can be enabled and disabled.



Picture 54 - Anonymous calls are not allowed on the phone

- On the web page **[Line]** >> **[SIP]** >> **[Advanced Settings]**, also can disable anonymous calls.
- The setup to disable anonymous calls also corresponds to the SIP line, that is, the setting under the SIP1 page can only take effect on the SIP1 line.

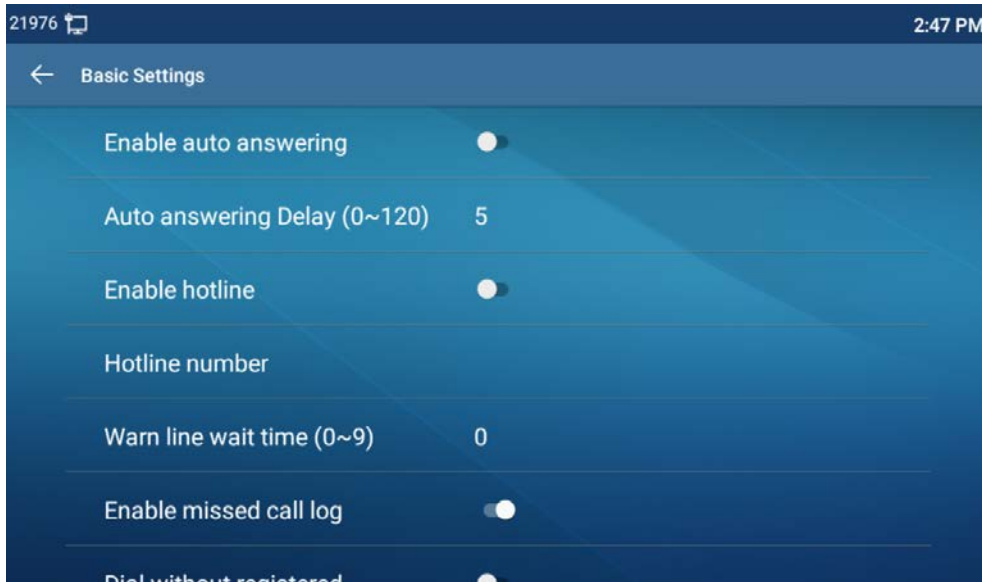


Picture 55 - Page Settings blocking anonymous call

8.19 Hotline

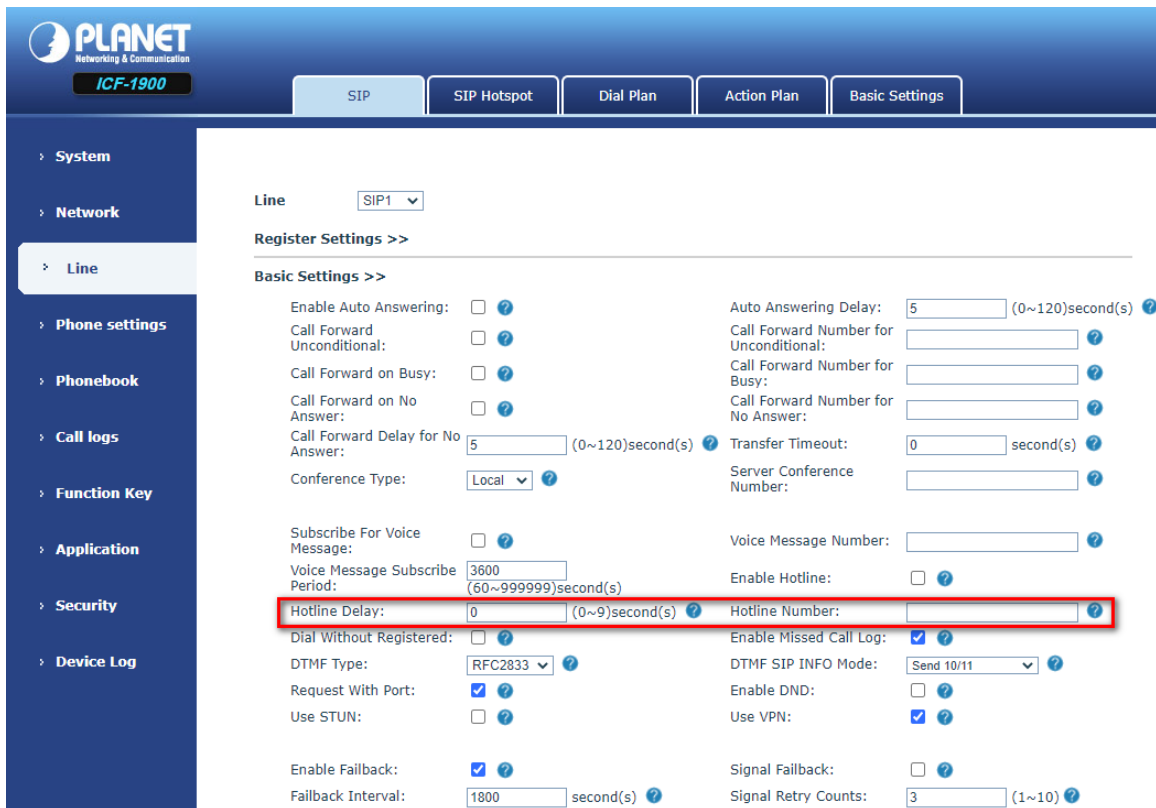
The device supports hotline dialing. After setting up the hotline dialing, directly pick up the handset, hands-free, earphone, etc., and the phone will automatically call according to the hotline delay time.

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



Picture 56 - Phone hotline setting interface

- On the website [Line] >> [SIP] >> [Basic Settings], can also 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 57 - Hotline set up on webpage

9 Advance Function

9.1 BLF (Busy Lamp Field)

9.1.1 Configure the BLF Functionality

- Page interface: Log in the phone page, enter the [Function key] >> [Function key] page, select a DSS key, set the function key type as memory key, choose subtype among BLF/NEW CALL, BLF/BXFER, BLF/AXFER, BLF/CONF, set BLF/DTMF value as the number which is subscribed, and set the corresponding SIP line. The pickup number is provided by the server. The specific use of reference [8.17 Pick up](#).

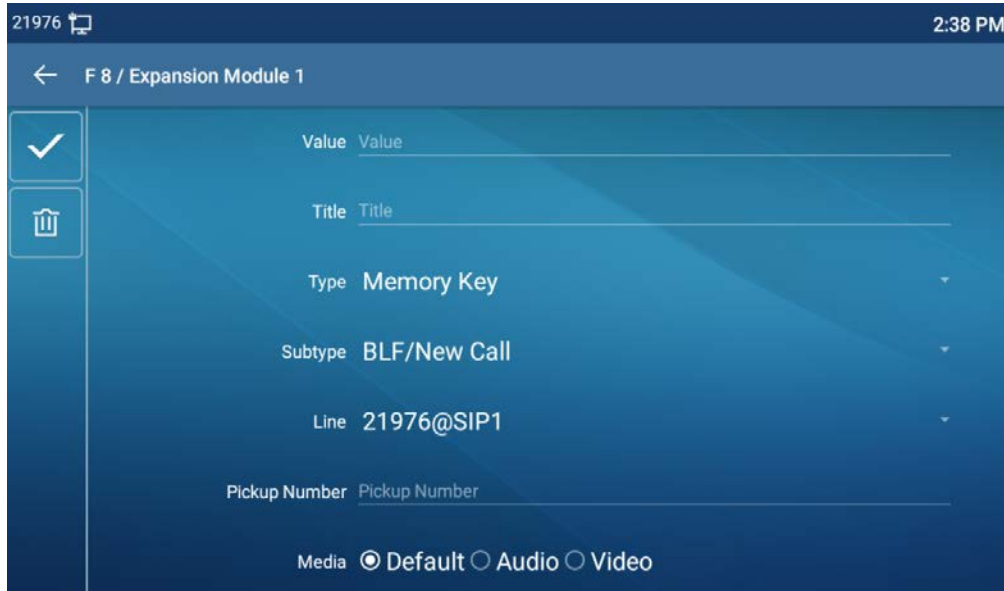
Function Key Settings

Dsskey Transfer Mode: Dsskey Home Page:

Key	Type	Name	Value	Subtype	Line	Media	PickUp Number
DSS Key 1	Line			None	SIP1	DEFAULT	
DSS Key 2	Line			None	SIP2	DEFAULT	
DSS Key 3	Line			None	SIP3	DEFAULT	
DSS Key 4	Line			None	SIP4	DEFAULT	
DSS Key 5	Line			None	SIP5	DEFAULT	
DSS Key 6	Line			None	SIP6	DEFAULT	
DSS Key 7	Memory Key			BLF/NEW CALL	SIP1	DEFAULT	
DSS Key 8	None			None	AUTO	DEFAULT	
DSS Key 9	None			None	AUTO	DEFAULT	

Picture 58 - Web page configuration BLF function key

- Phone interface: Click unfold, long press a function key to enter the function key Settings interface. Set function key type as memory, subtype as BLF/NEW CALL, BLF/BXFER, BLF/AXFER, BLF/CONF, BLF/DTMF and the values as subscription number, and set up corresponding SIP lines.



Picture 59 - Phone configuration BLF function key

Table 10 - BLF Function key subtype parameter list

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

9.1.2 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; see [Appendix III 6.3](#) to get to know each other under different status LEDs.

2) Calling the subscribed number.

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

3) Transferring calls to the subscribed number.

Refer to [Table 9.1.1-blf function key](#) subtype parameter list to know 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.

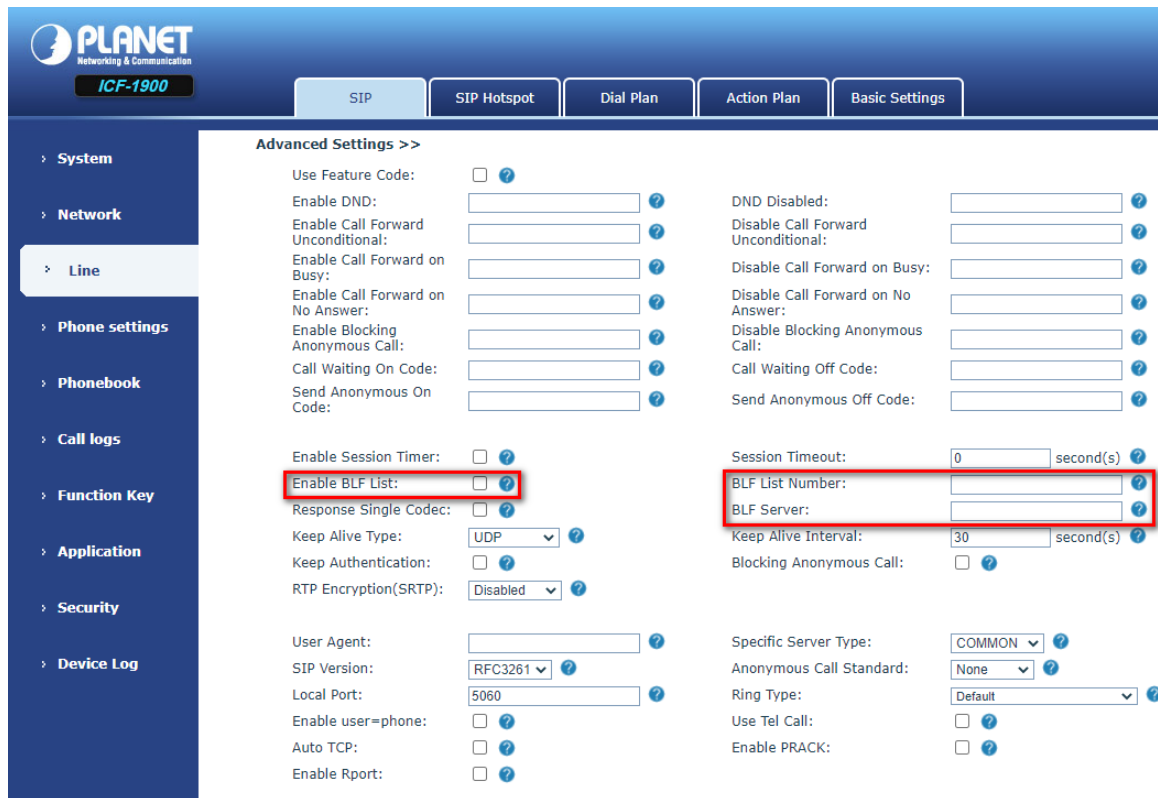
When configuring BLF function key, configure the pickup number.

When the subscription number telephone rings, refer to [Appendix III 6.3 BLF LED](#) for flashing a red light. At this point, press the BLF button to answer the incoming call from the subscribed number.

9.2 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.

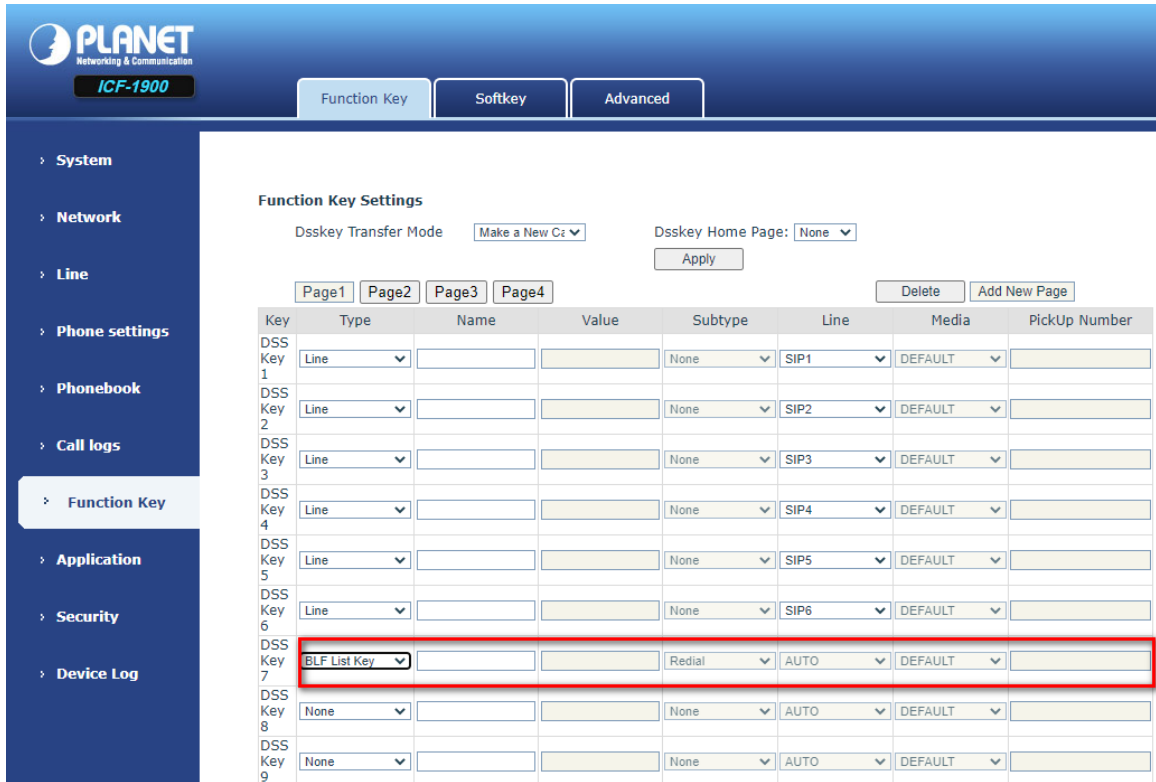
Configure BLF List function: Log in the phone page, enter the [Line] >> [SIP] >> [Advanced settings] page, open the BLF List, and configure the BLF List number.



The screenshot shows the 'Advanced Settings >>' page for the PLANET ICF-1900. The left sidebar has 'Line' selected. The main content area is divided into two columns of settings. In the left column, 'Enable BLF List' is checked and highlighted with a red box. In the right column, 'BLF List Number' and 'BLF Server' are also highlighted with a red box. Other settings include 'Enable DND', 'Enable Call Forward Unconditional', 'Enable Call Forward on Busy', 'Enable Call Forward on No Answer', 'Enable Blocking Anonymous Call', 'Call Waiting On Code', 'Send Anonymous On Code', 'Session Timeout', 'Keep Alive Interval', 'Blocking Anonymous Call', 'User Agent', 'SIP Version', 'Local Port', 'Enable user=phone', 'Auto TCP', 'Enable Rport', 'DND Disabled', 'Disable Call Forward Unconditional', 'Disable Call Forward on Busy', 'Disable Call Forward on No Answer', 'Disable Blocking Anonymous Call', 'Call Waiting Off Code', 'Send Anonymous Off Code', 'Keep Alive Interval', 'Blocking Anonymous Call', 'Specific Server Type', 'Anonymous Call Standard', 'Ring Type', 'Use Tel Call', and 'Enable PRACK'.

Picture 60 - Configure the BLF List functionality

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 61 - BLF List number display

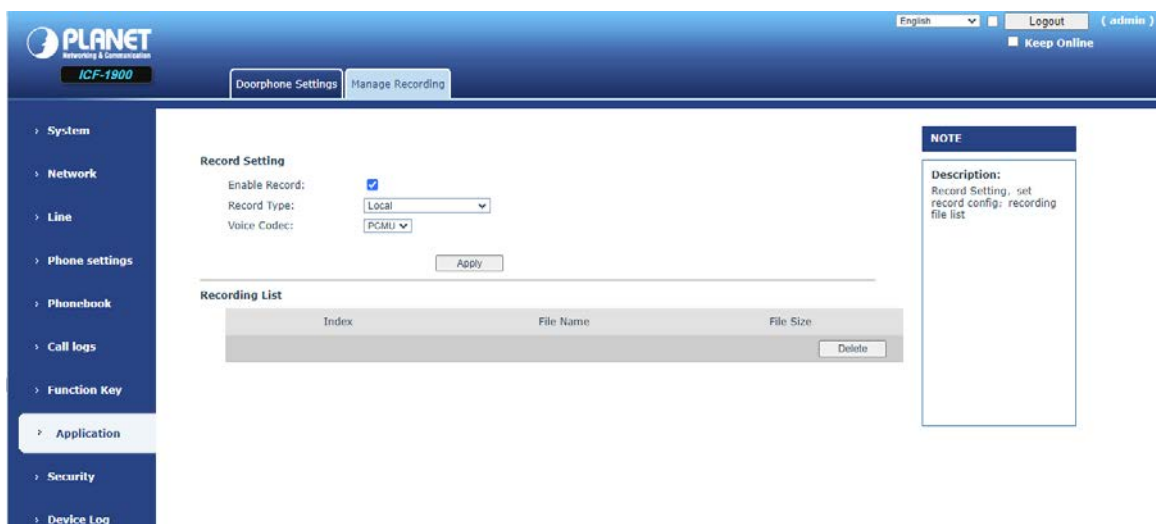
9.3 Record

The device supports recording during a call.

9.3.1 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 62 - WEB local recording

Local recording steps:

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

View local recording:

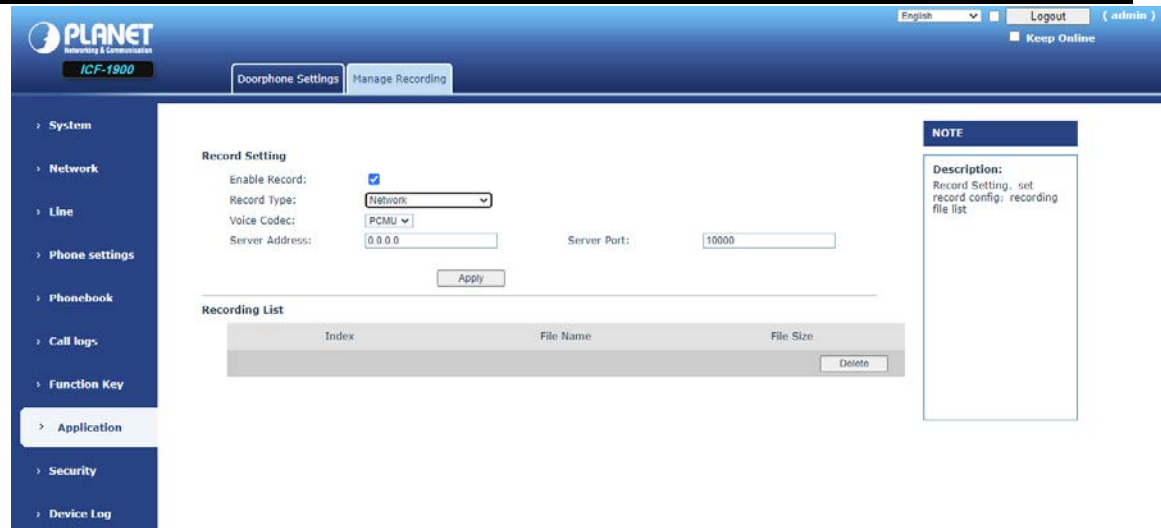
- Enter [**Application**] >> [**Sound Recorder**]
- Enter view the recording file.
- Or enter the webpage [**Application**] under the [**Manage recording**] to view the recording file.

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.

9.3.2 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:



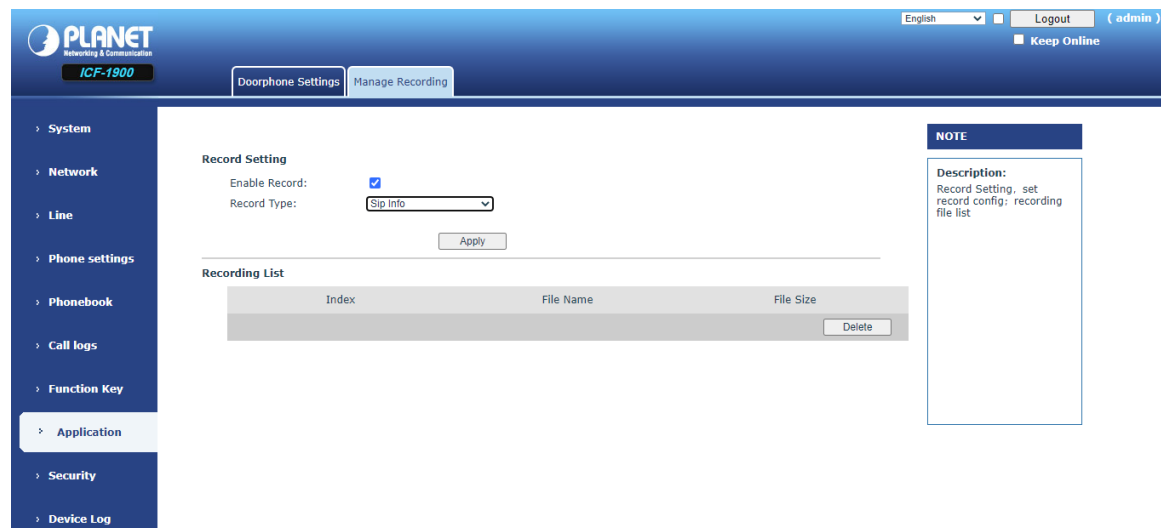
Picture 63 - Web server recording



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

9.3.3 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.



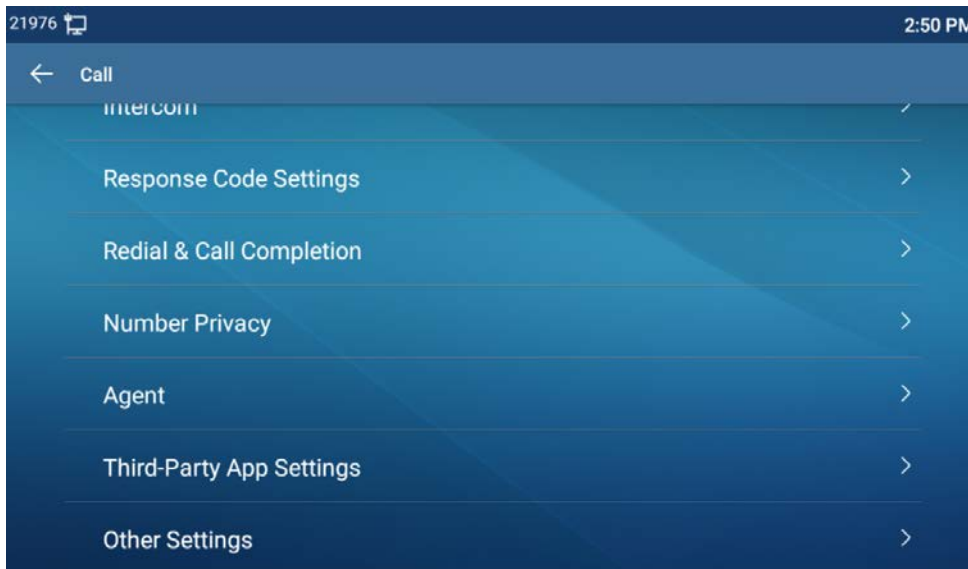
Picture 64 - Web SIP info recording

9.4 Agent

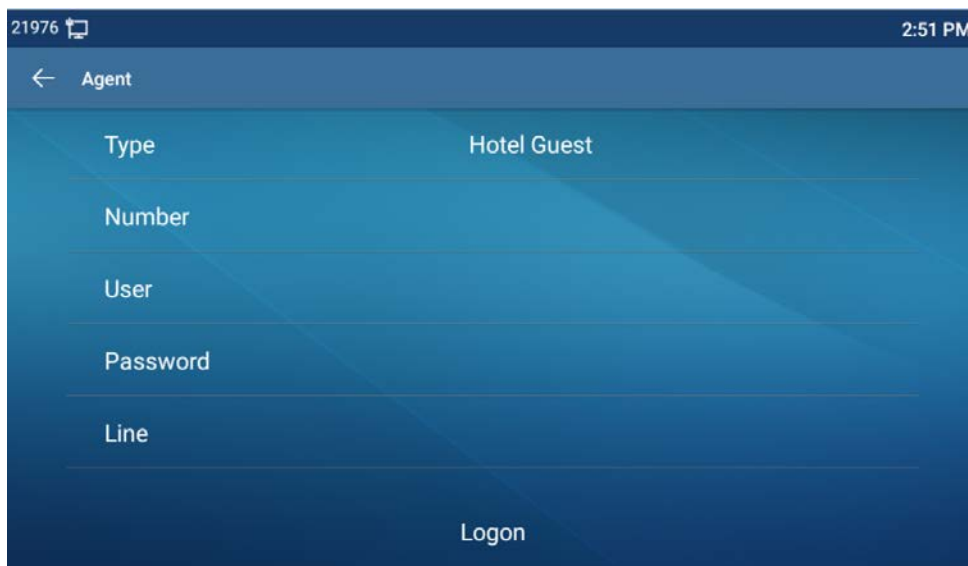
Agent (Agent function) of the phone can be realized: When multiple people use a device for Agent services at different times, he or she can quickly register his or her SIP account on the same server. The Agent functions of the phone can be divided into Normal and Hotel Guest. The Hotel Guest mode requires 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 65 - Configure the agent account in normal mode



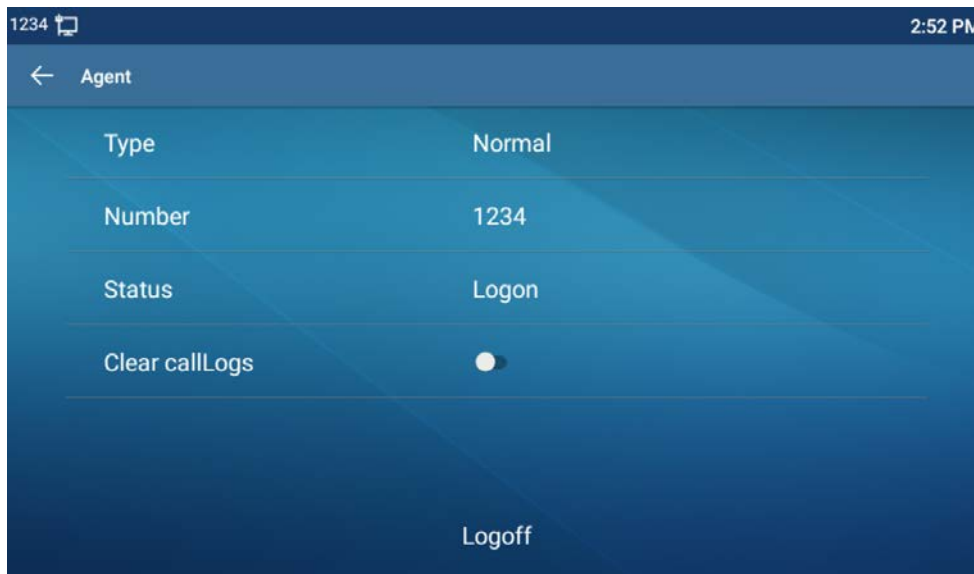
Picture 66 - Configure the proxy account-hotel Guest mode

Table 11 - 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:

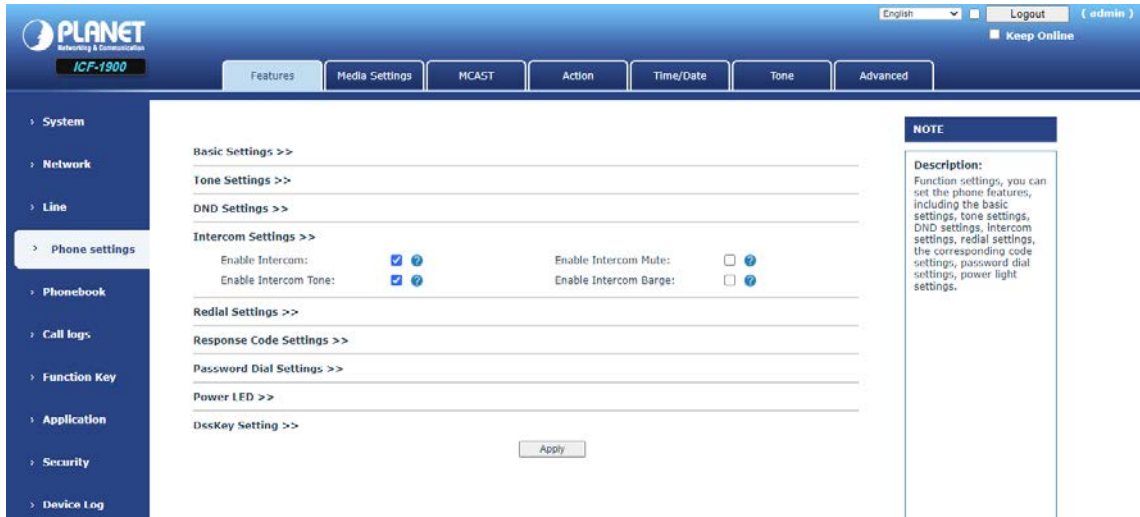
- 1) When the phone has been configured on SIP server, fill in the correct number and user name password, click login and then the phone can be registered to the SIP server;
- 2) After registration, click logout and the phone can delete the user name and password, and log out of the SIP account.
- 3)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



Picture 67 - Agent logon page

9.5 Intercom

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



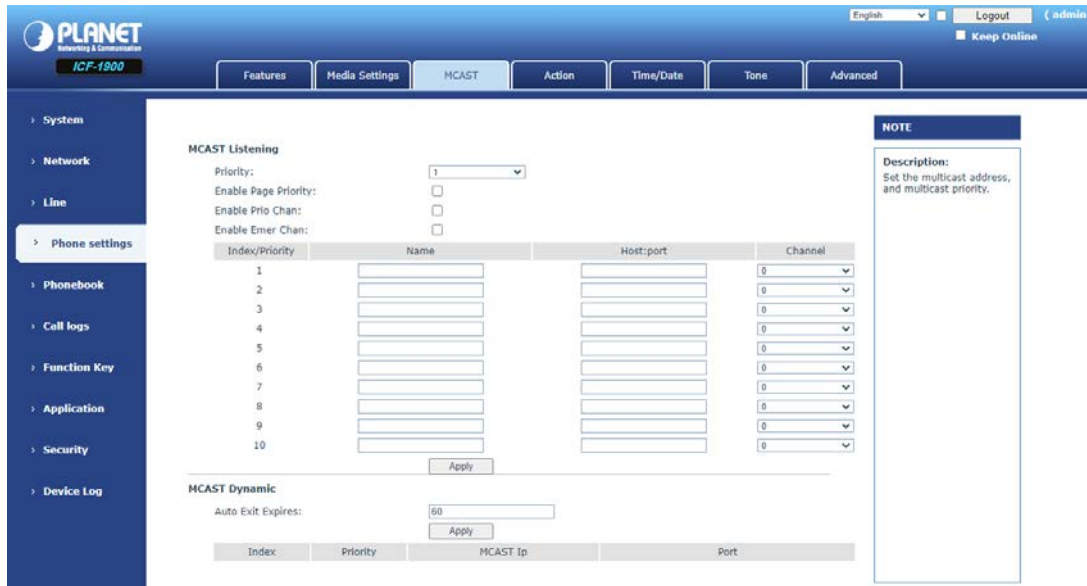
Picture 68 - Web Intercom configure

Table 12 - Intercom configure

Parameter	Description
Enable Intercom	When intercom is enabled, the device will accept the incoming call request with a SIP header of Alert-Info instruction to automatically answer the call after specific delay.
Enable Intercom Mute	Enable mute mode during the intercom call
Enable Intercom Tone	If the incoming call is intercom call, the phone 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

9.6 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 69 - Multicast Settings Page

Table 13 - 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.

9.7 SCA (Shared Call Appearance)



Note

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

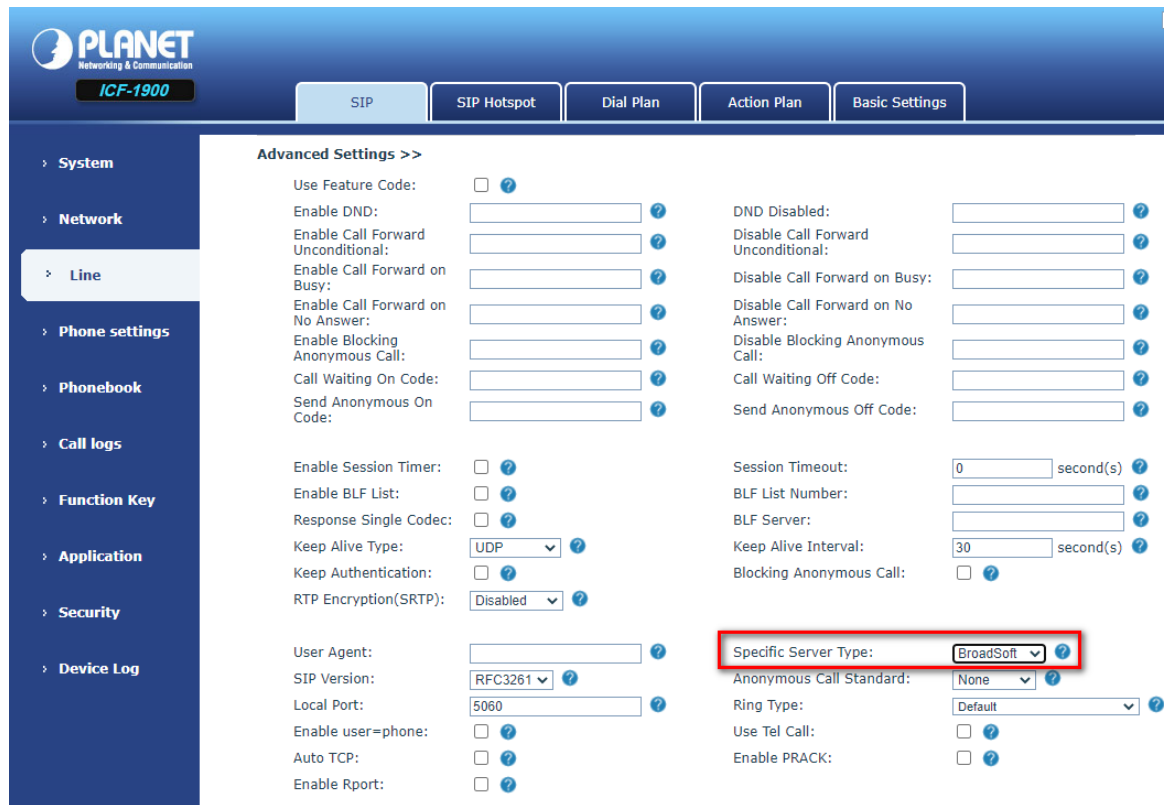
1) Configure on Phone

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

The screenshot shows the PLANET ICF-1900 web interface. The 'SIP' tab is selected. The 'Line' dropdown is set to 'SIP1'. The 'Register Settings' section is expanded, showing 'Line Status: Inactive' and a tooltip 'Created SCA accounts'. The 'SIP Server 1' section is highlighted with a red box, showing 'Server Address' highlighted with a red box. The 'Authentication User' and 'Authentication Password' fields are also highlighted with red boxes. A tooltip indicates that the user name and password of the primary account created should be used.

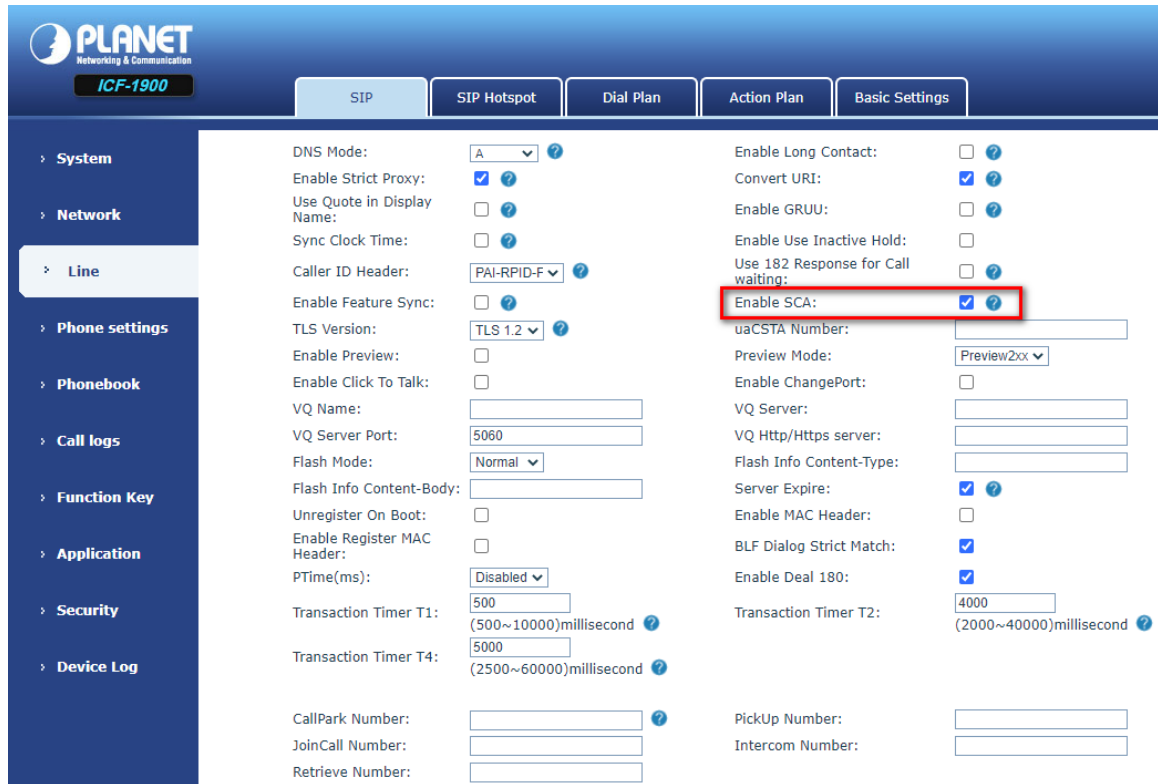
Picture 70 - Register BroadSoft account

- 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.



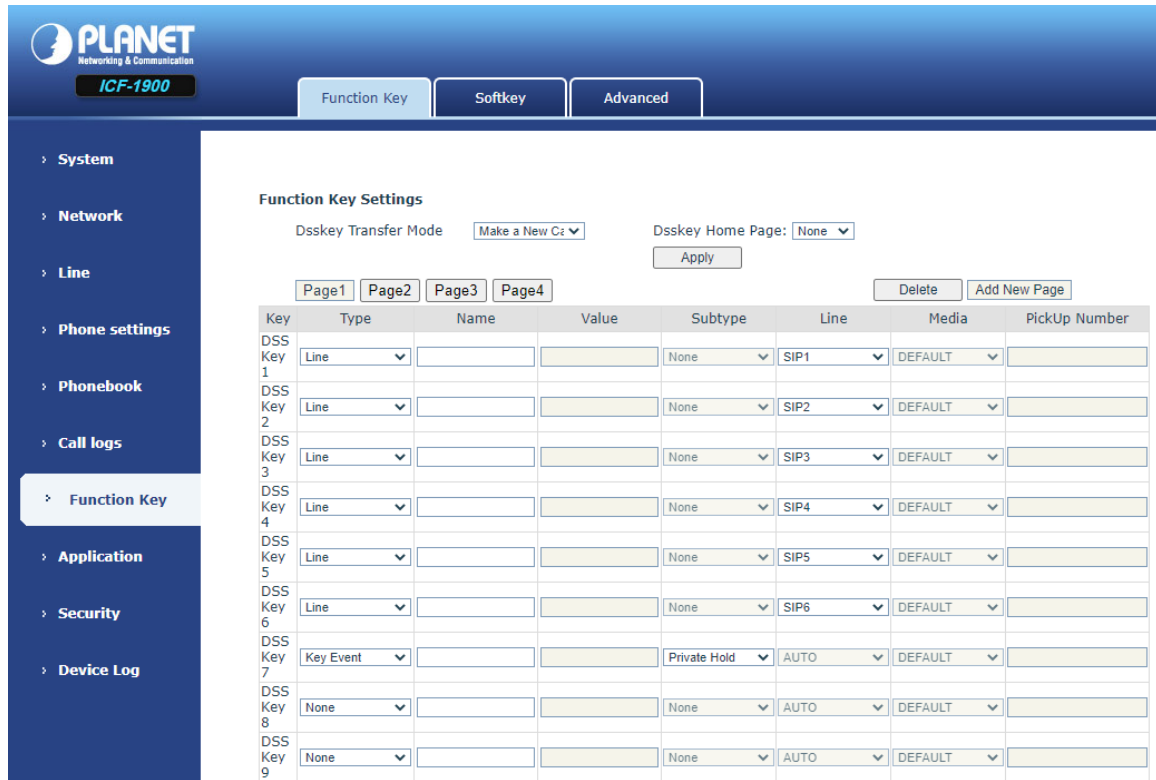
Picture 71 - Set BroadSoft server

- 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 72 - 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. Understand the call status by referring to [6.3 Appendix III –LED](#) . 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 73 - 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 14 - 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.

9.8 Message

9.8.1 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 74 - 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.

9.8.2 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 75 - New Voice Message Notification

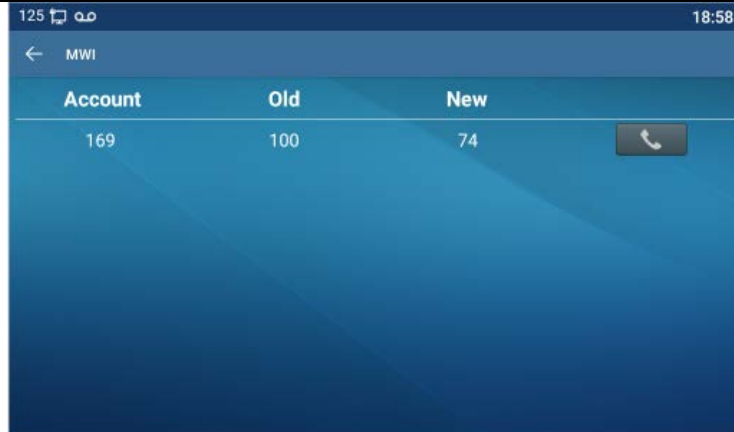


Voice message icon

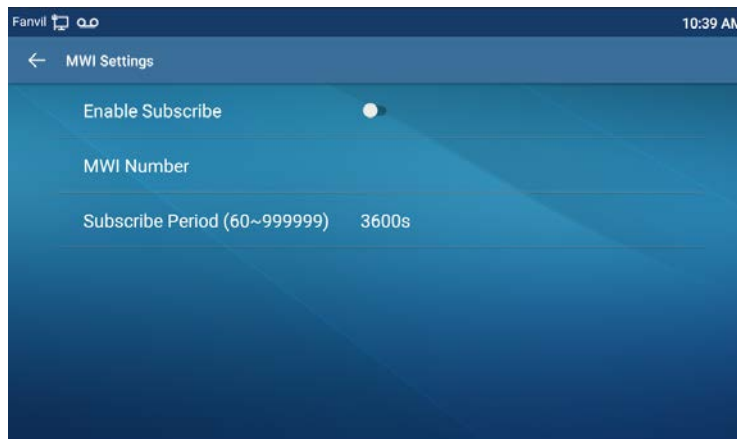
To listen to a voice message, the user must first configure the voicemail number. After the voicemail number is configured, the user can retrieve the voicemail of the default line.

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 76 - Voice message interface



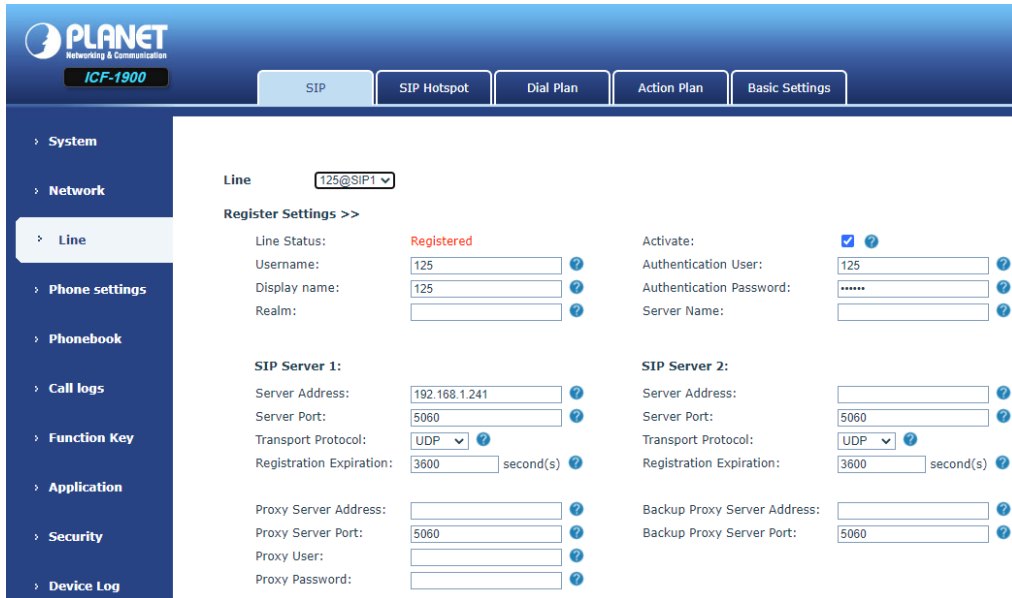
Picture 77 - Configure voicemail number

9.9 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.

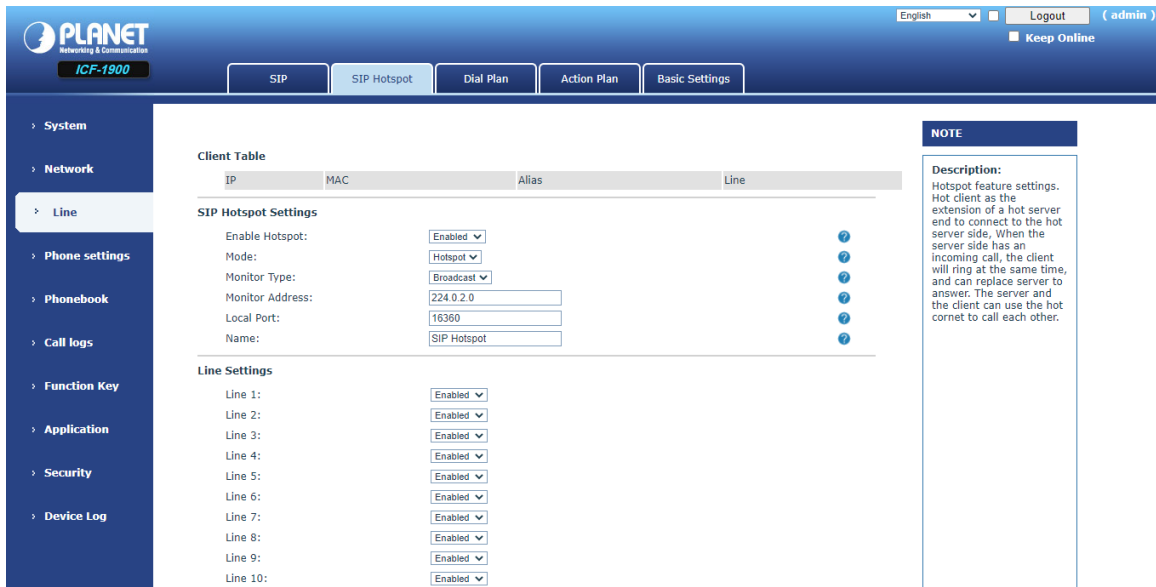


Picture 78 - Register SIP account

Table 15 - 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.

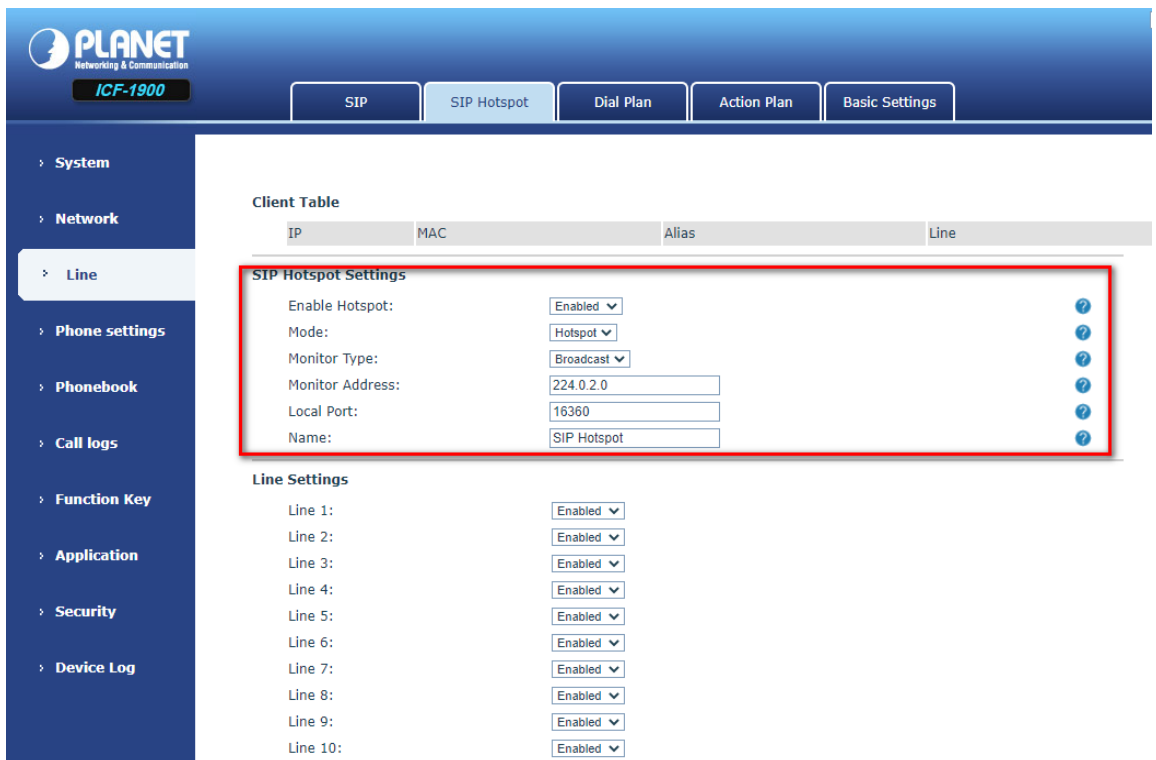
Configure SIP hotspot server:



Picture 79 - 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 80 - 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.

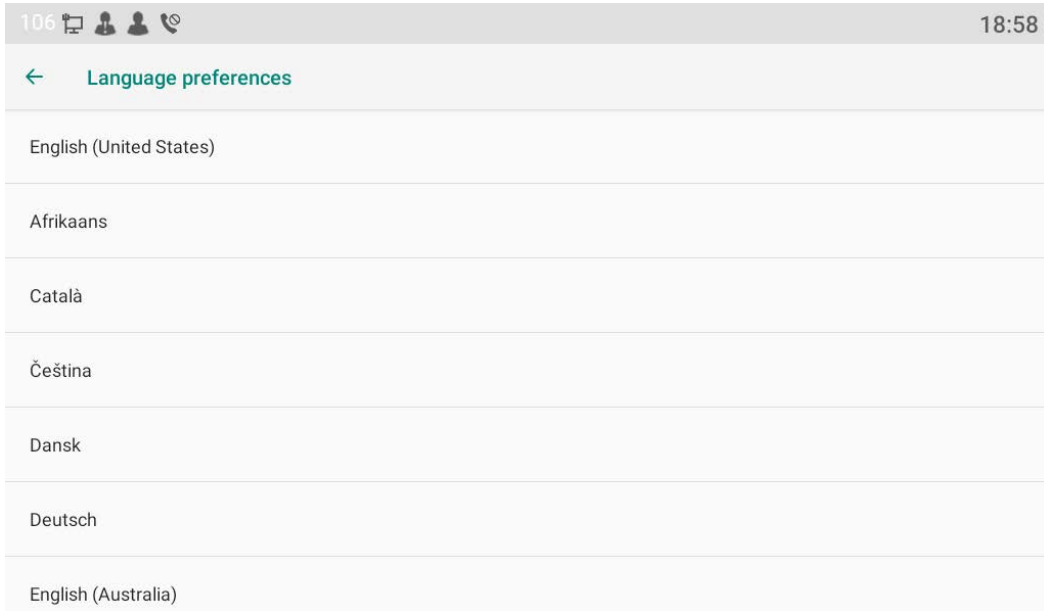
10 Phone Settings

10.1 Basic Settings

10.1.1 Language

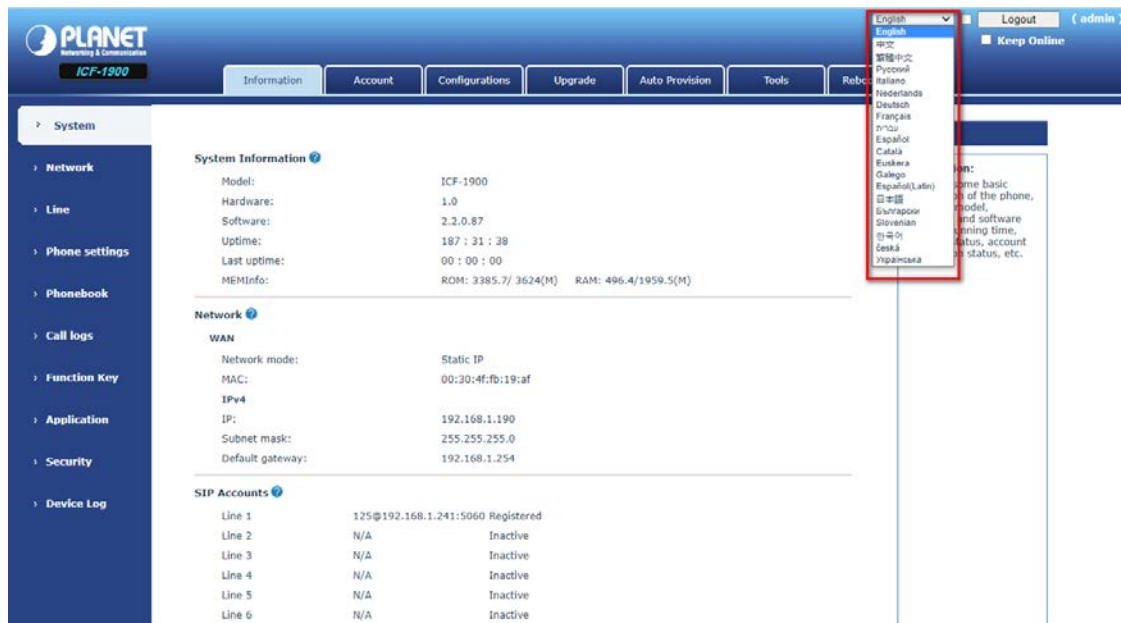
The user can set the phone language through the phone interface and web interface.

- 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 81 - 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:



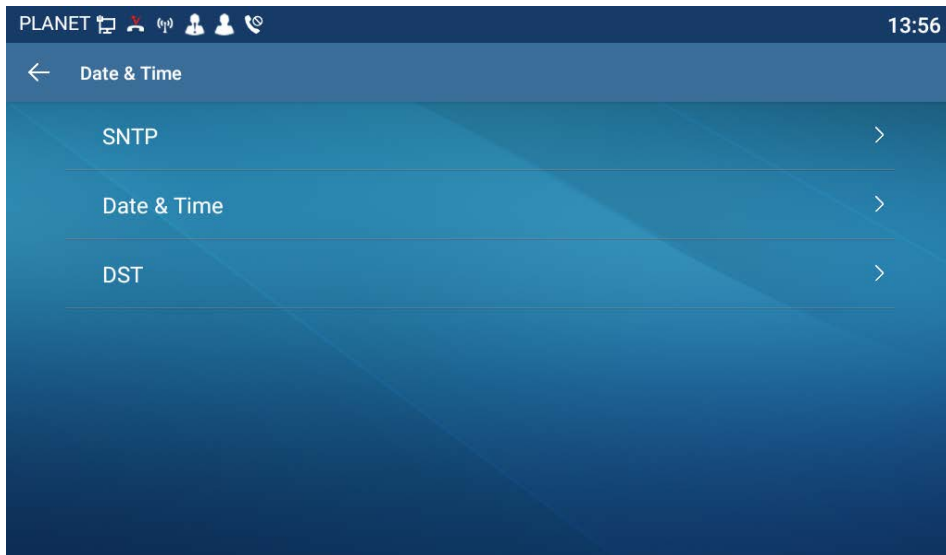
Picture 82 - Language setting on Web page

- 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.

10.1.2 Time & Date

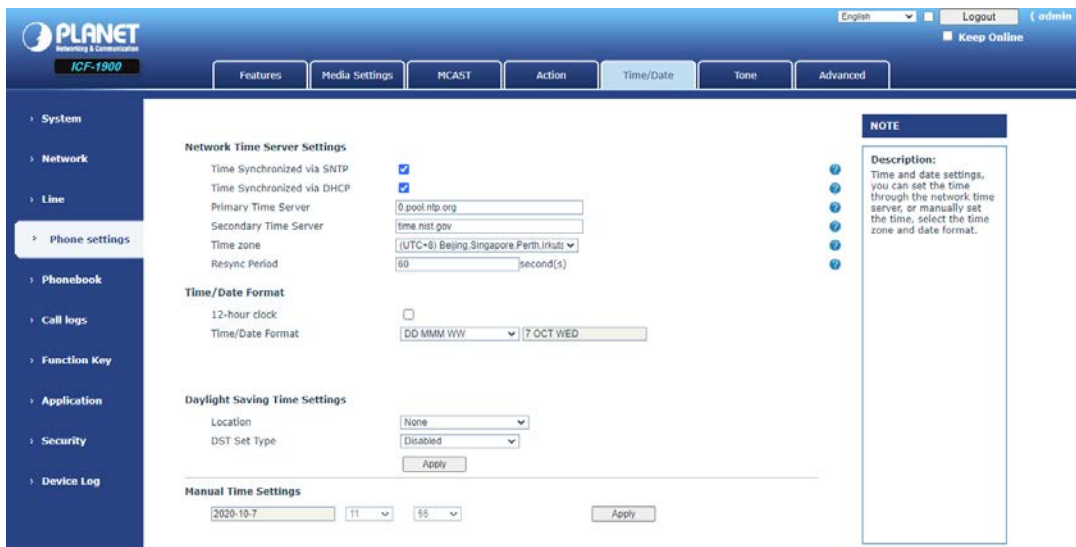
Users can set the phone time through the phone interface and web interface.

- 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 83 - 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 84 - Set time & date on webpage

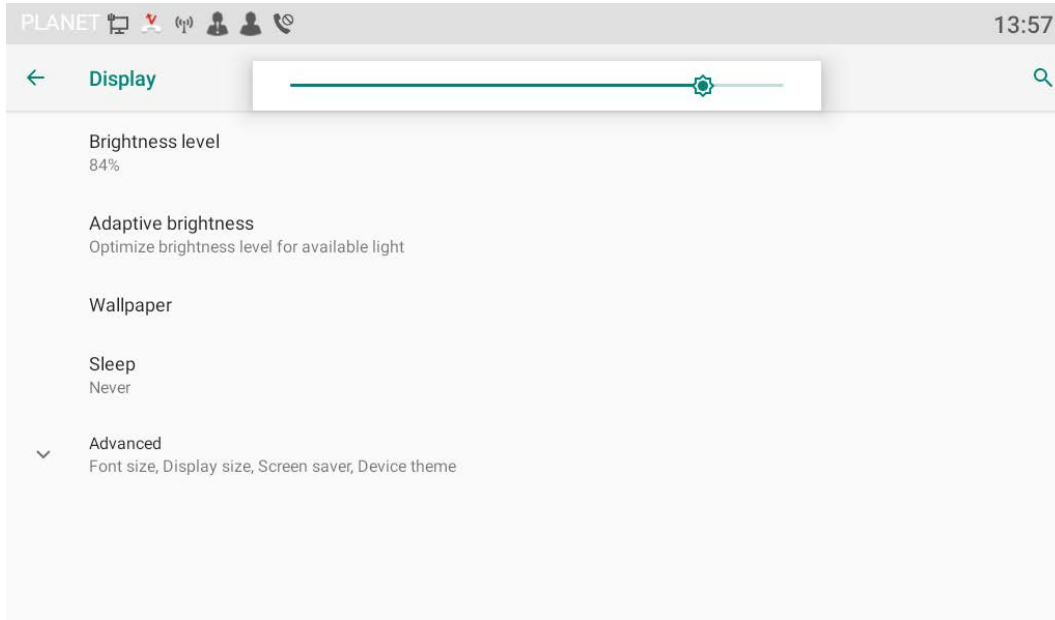
Table 16 - Time Settings Parameters

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
Time format	Select time format from one of the following dates: <ul style="list-style-type: none"> ■ 1 JAN, MON ■ 1 January, Monday ■ JAN 1, MON ■ January 1, Monday ■ MON, 1 JAN ■ Monday, 1 January ■ MON, JAN 1 ■ Monday, January 1 ■ DD-MM-YY ■ DD-MM-YYYY ■ MM-DD-YY ■ MM-DD-YYYY ■ YY-MM-DD ■ YYYY-MM-DD
Separator	Choose the separator between year and month and day
12-Hour Clock	Display the clock in 12-hour format
Daylight Savings Time	Enable or Disable the Daylight Savings Time

10.1.3 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 85 - Set screen parameters on phone

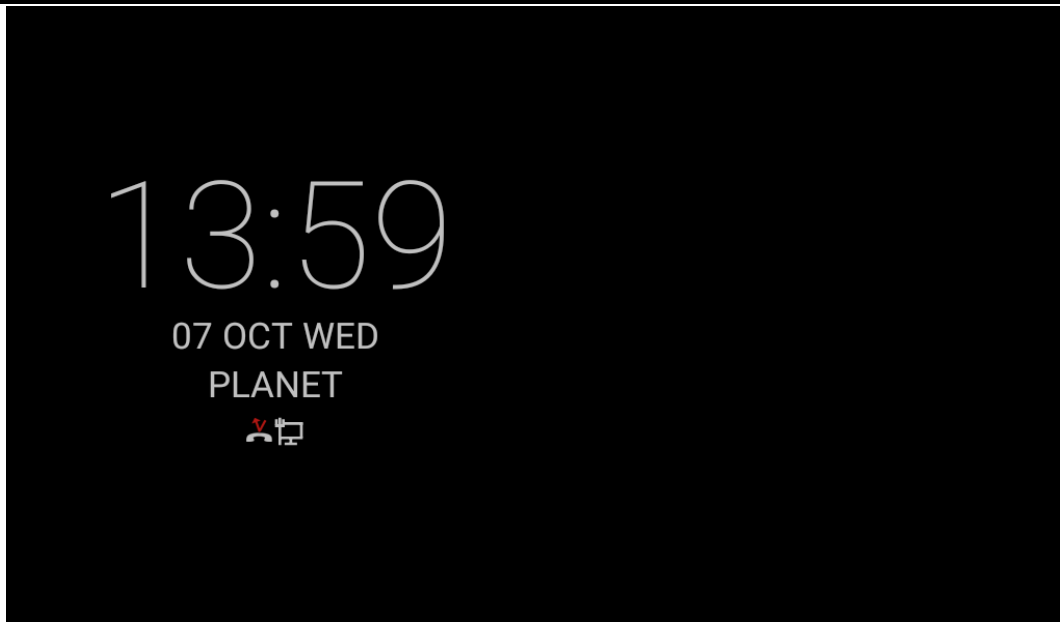
10.1.3.1 Brightness and backlight

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.

10.1.3.2 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 86 - Phone screen saver

10.1.4 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.

10.1.5 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.

10.1.6 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.

10.2 Phone book

10.2.1 Local contact

Users can save contact information in the phone book and dial the contact's phone number directly in the phone book. The user can open the phone book by pressing the function menu button "contact" or the preset button "phone book" on the phone in 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).

NOTICE! The device can save up to total 2000 contact records.



Picture 87 - Local Phone book

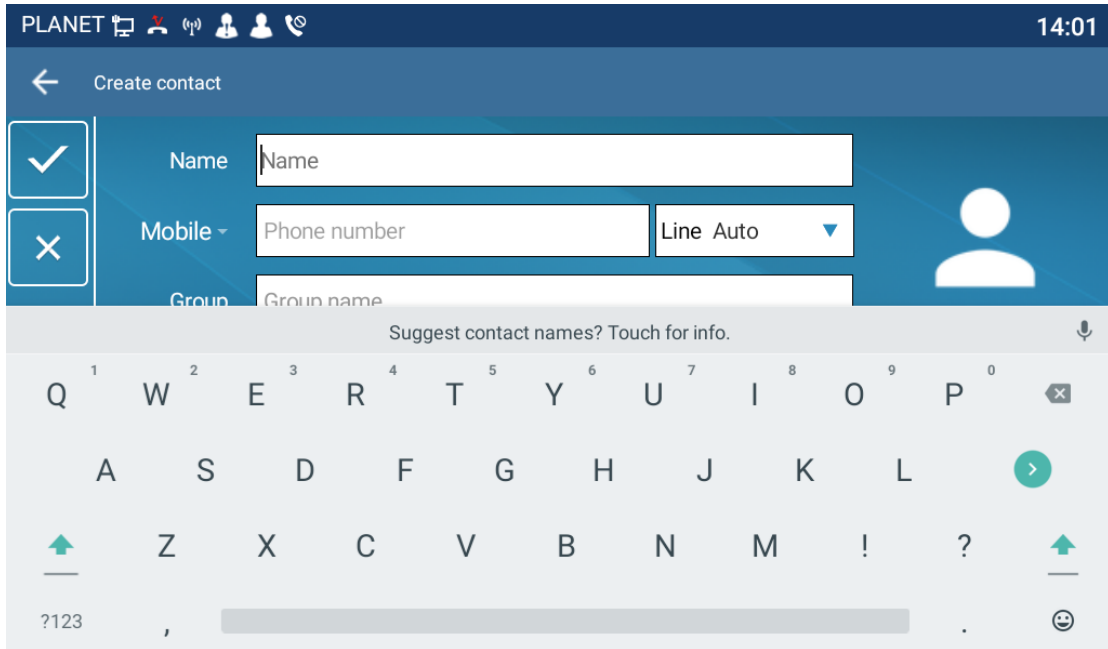
When there are contact records in the phone book, the contact records will be arranged in the alphabet order. User may browse the contacts with up/down navigator keys. The record indicator tells user which contact is currently focused. User may check the contact's information by pressing [OK] button.

10.2.1.1 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 88 - Add New Contact

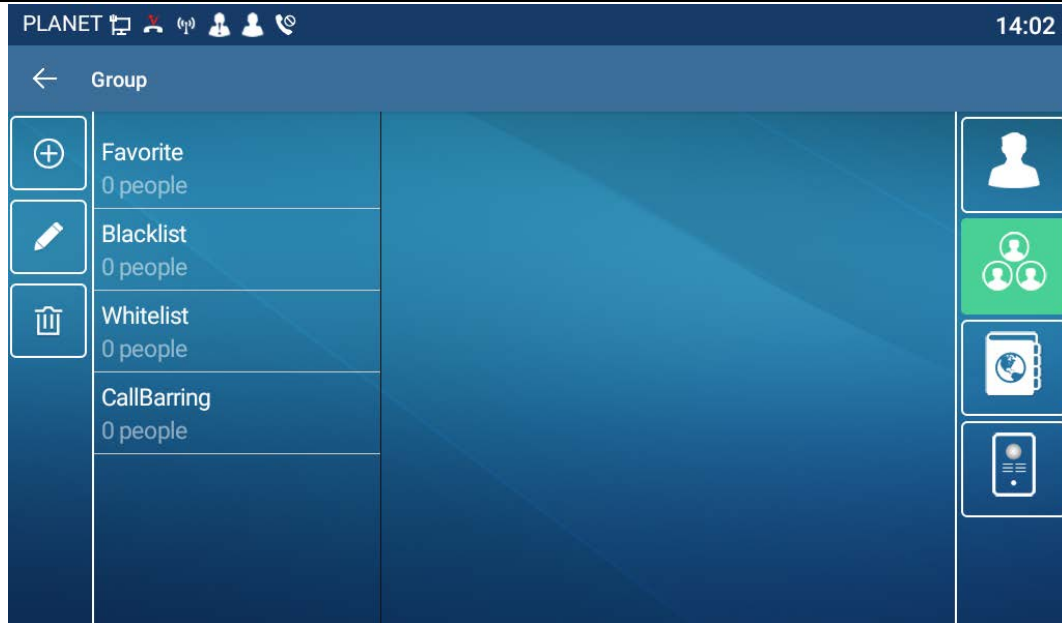
User can edit a contact by pressing [**Option**] >> [**Edit**] button.

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**].

10.2.1.2 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.

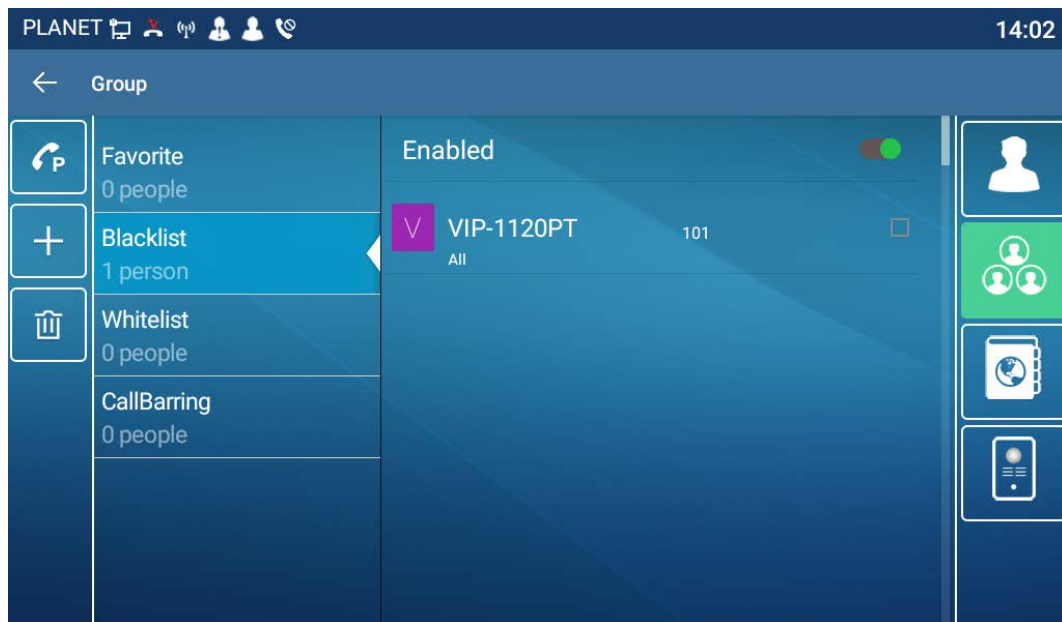


Picture 89 - Group List

10.2.2 Black list

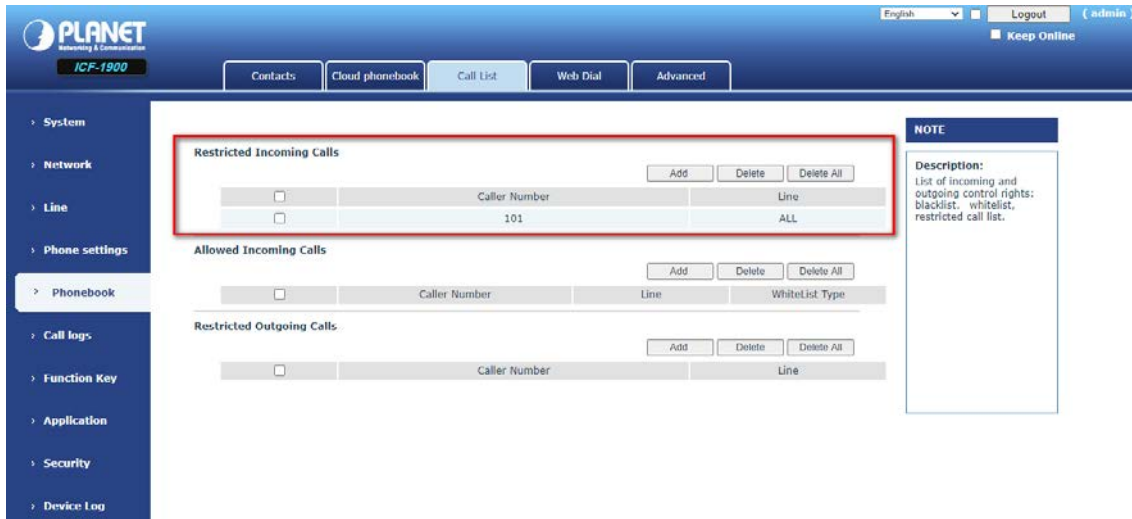
The device supports blacklist, such as the number added to the blacklist, the number of calls directly refused to the end, the end of the phone shows no incoming calls. (Blacklisted Numbers can be called out normally)

- 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 90 - Add Blacklist

- 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 91 - Web Blacklist

10.2.3 Cloud Phone Book


10.2.3.1 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.

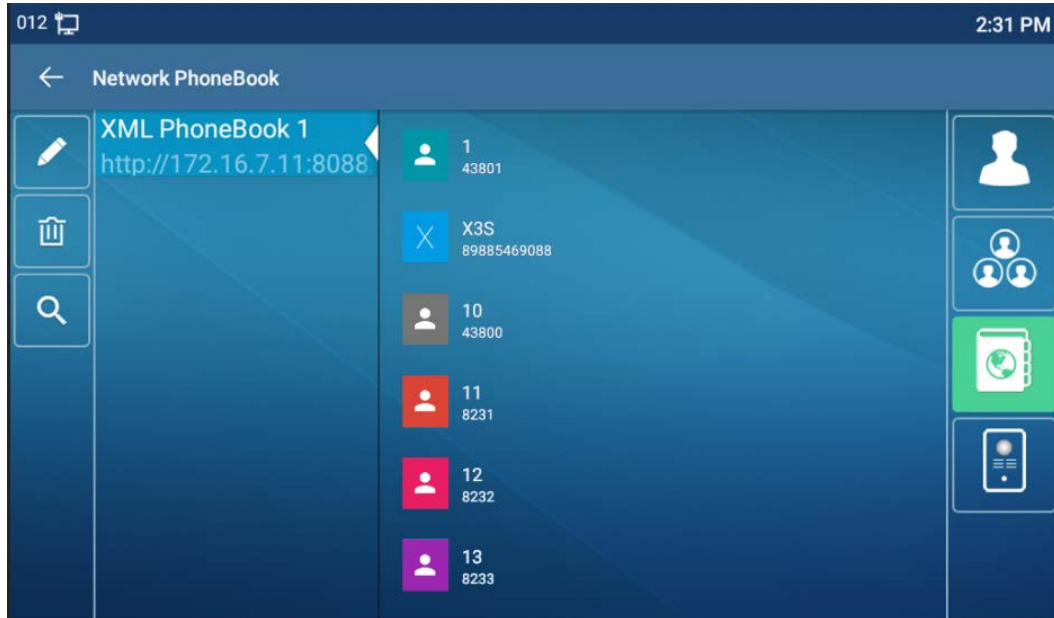


The cloud phonebook is ONLY temporarily downloaded to the device each time when it is opened on the device to ensure the user get the latest phonebook. However, the downloading may take a couple seconds depending on the network condition. Therefore, it is highly recommended for the users to save important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

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



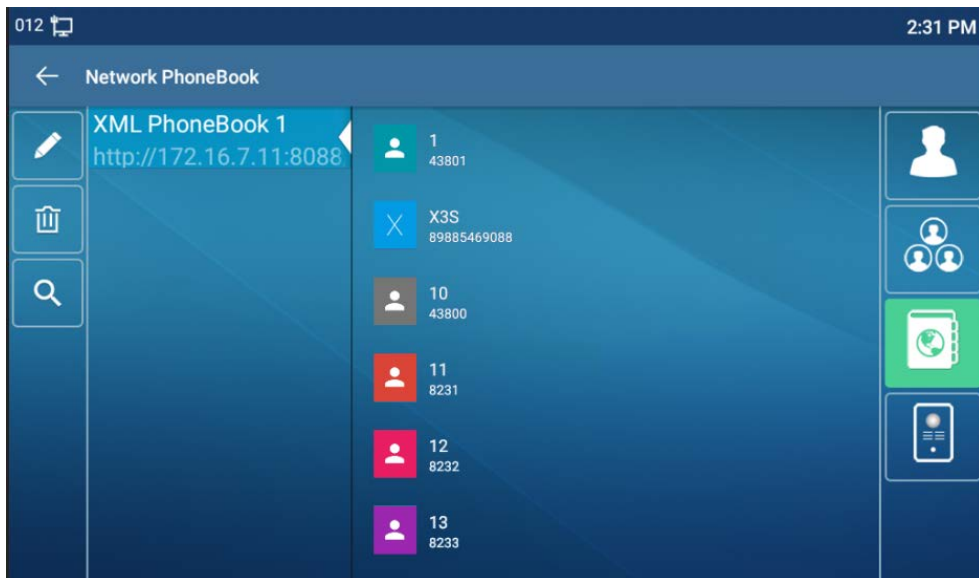
The first configuration on cloud phone should be completed on Web page by selecting [PhoneBook] >> [Cloud Contacts]. The setting of addition/deletion on device could be done after the first setting on Web page.



Picture 92 - Cloud phone book list

10.2.3.2 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 93 - Browsing Contacts in Cloud Phone book

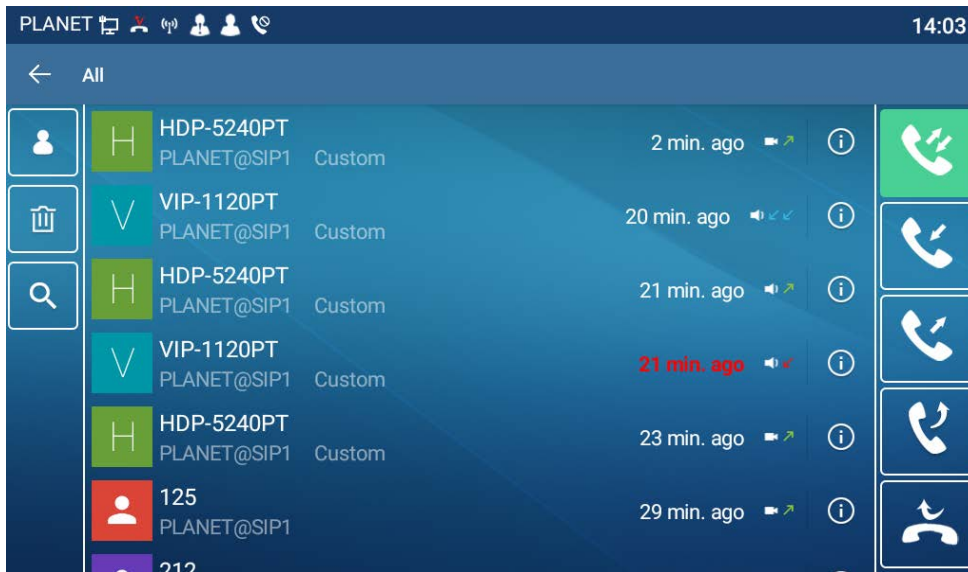
10.3 Call Log

The device can store up to 2000 call log records and user can open the call logs to check all incoming, outgoing, and missed call records by pressing [**CallLog**] icon.

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

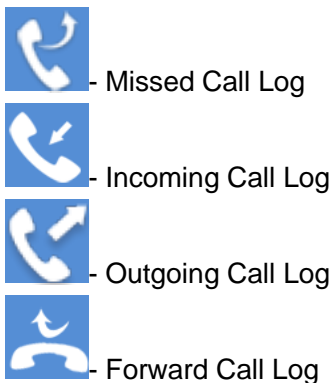
Each call log record is presented with 'call type' and 'call party number / name'. User can check further call log detail by pressing [**Info**] icon and dial the number with pressing the call log, or add the call log number to phonebook with pressing [**Info**] Icon >> [**Add to Contact**].

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



Picture 94 - 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.



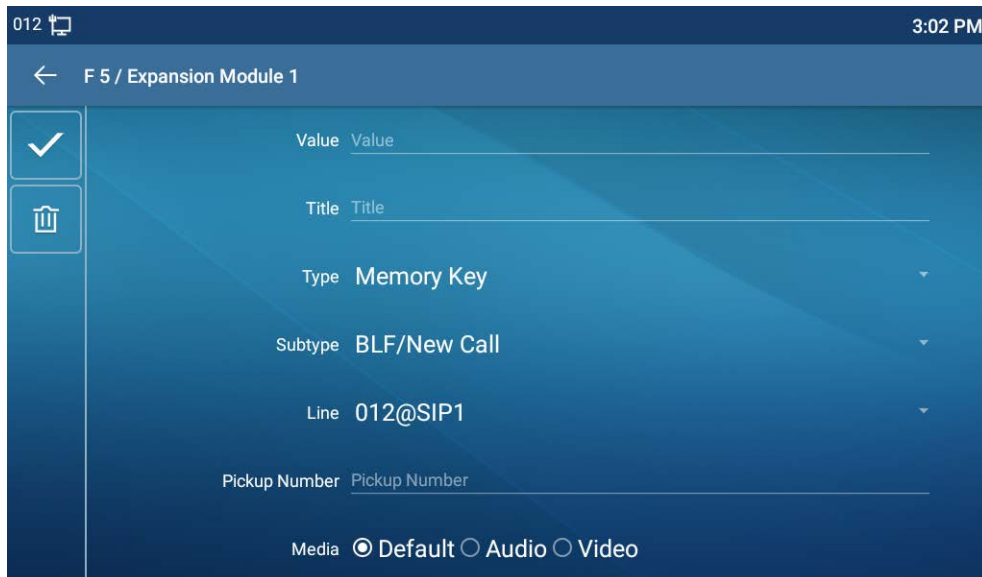
Picture 95 - Filter call record types

10.4 Function Key

- Function key Settings:

It shows 7 DSSKEY keys in standby mode on ICF-1900 Screen, each of which can be customized (expansion keys are not supported). After expansion, there will be 28 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 96 - 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.

 Note	User-defined title is up to 10 characters.
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More detailed information refers to [12.23 Function Key](#) and [6.3 Appendix III - LED Definition](#).

10.5 Wi-Fi

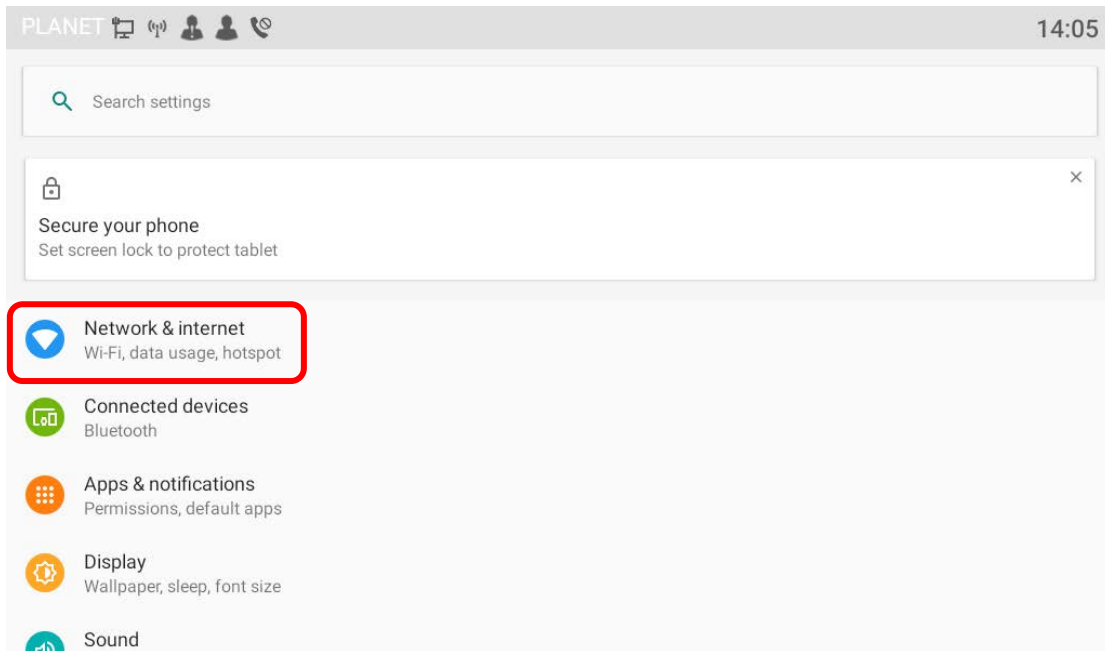
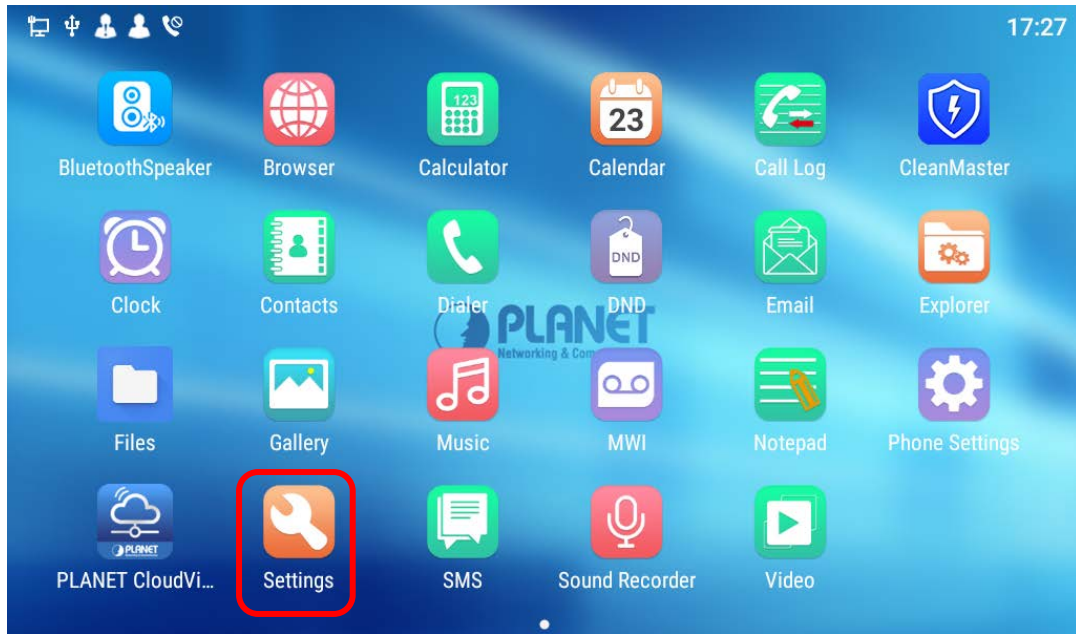
The device supports wireless Internet access and has built-in Wi-Fi without external devices.

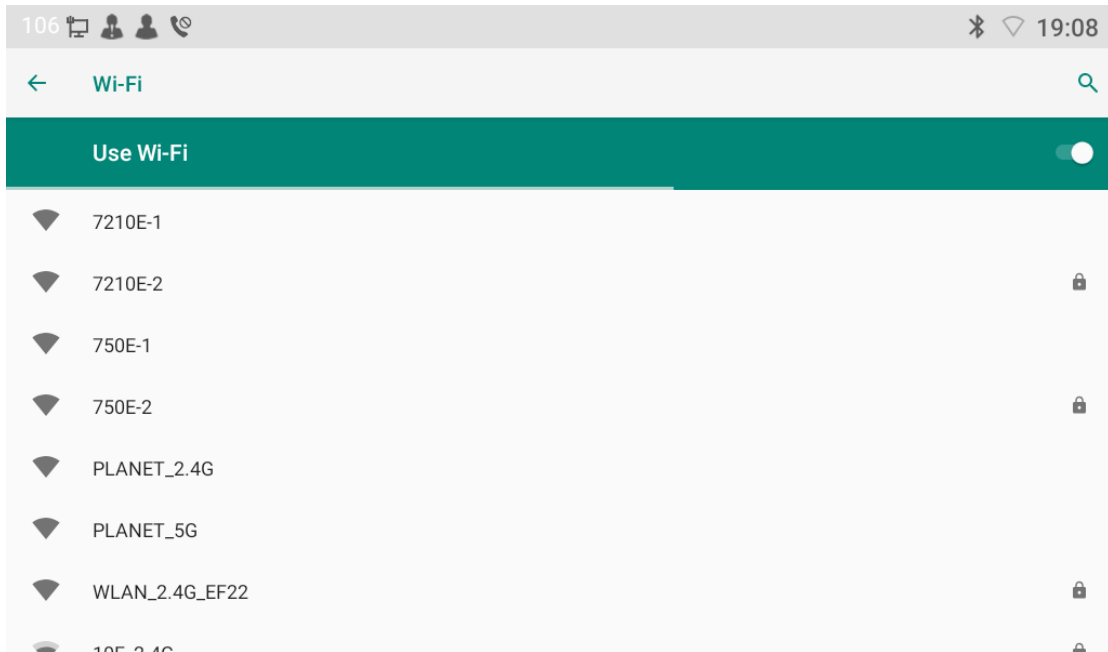
When the device is in the default standby mode,

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.





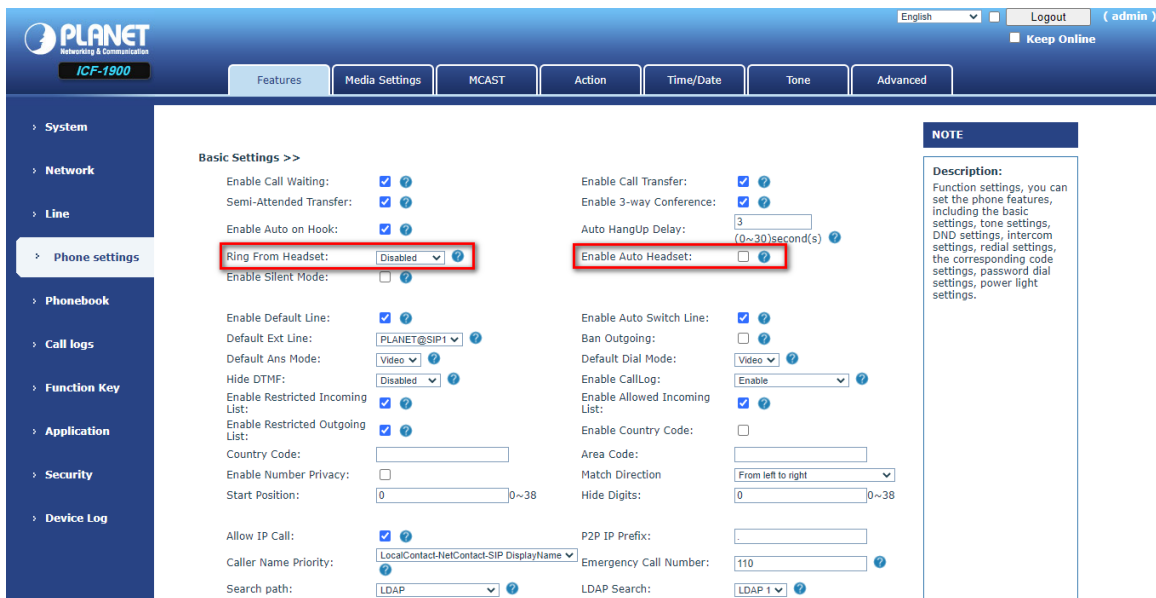


Picture 97 - WIFI settings

10.6 Headset

10.6.1 Wired Headset

- The device supports wired earphone with RJ9 interface, which can play incoming call sound and talk with earphone.
- 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.



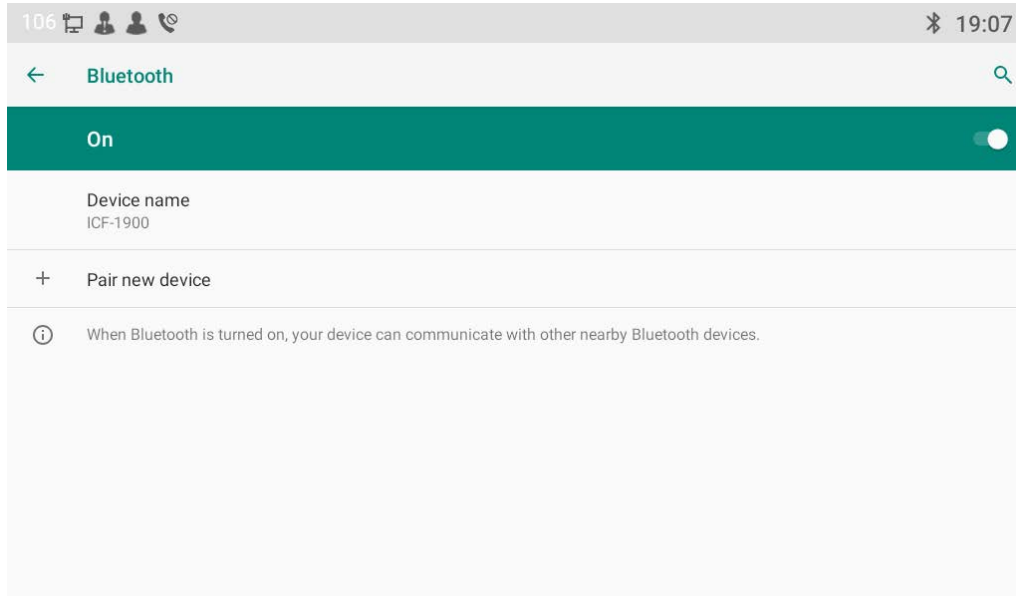
Picture 98 - Headset function settings

10.6.2 Bluetooth Headset

The device supports wireless Internet access, and the built-in Wi-Fi does not require external devices.

When the device is in the default standby mode,

- Press [**Application**] till you find the [**Settings**] item.
- Press [**Bluetooth**] item to enter the setup interface.
- Enable Bluetooth and select Paired Device.



Picture 99 - Bluetooth Settings Screen

The use of Bluetooth headset can be divided into three types: call answering; Hang up; Bluetooth redial.

- call answering

When the Bluetooth headset is connected to the phone, the incoming call can be answered by pressing the Bluetooth answer button.

- Hang up

1) When talking with Bluetooth headset, you can hang up the phone by pressing the button on Bluetooth headset.

2) When there is an incoming call, double-click the answer button to reject the call.

3) When the caller is in the ringing state, press the answer button of the headset to cancel the call.

- Bluetooth redial

When the Bluetooth headset is connected, double-click the answer button to redial the number dialed last time.



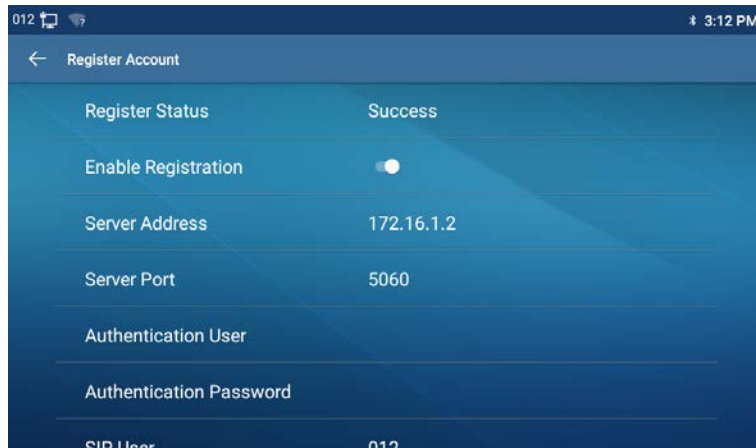
Note

Some models do not support double-click redial function. Whether this function is supported or not, you can check the instruction of the headset, or connect the Bluetooth headset to the phone, and double-click the answer button to see whether it will redial.

10.7 Advanced

10.7.1 Line Configurations

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



Picture 100 - 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.



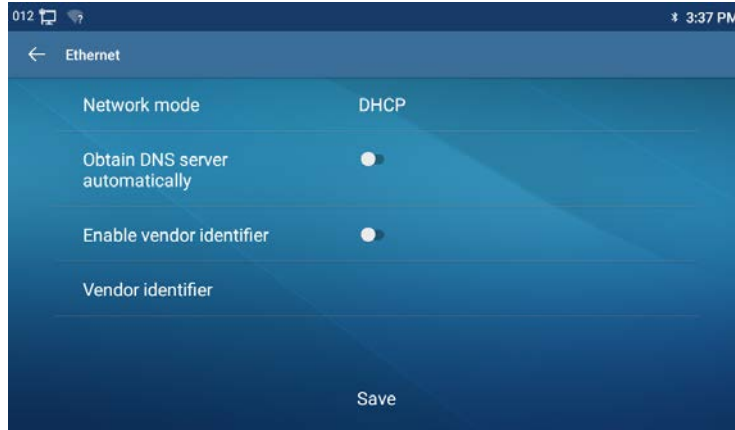
Picture 101 - Configure Advanced Line Options

10.7.2 Network Settings

10.7.2.1 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 102 - 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 103 - 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.

10.7.2.2 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.

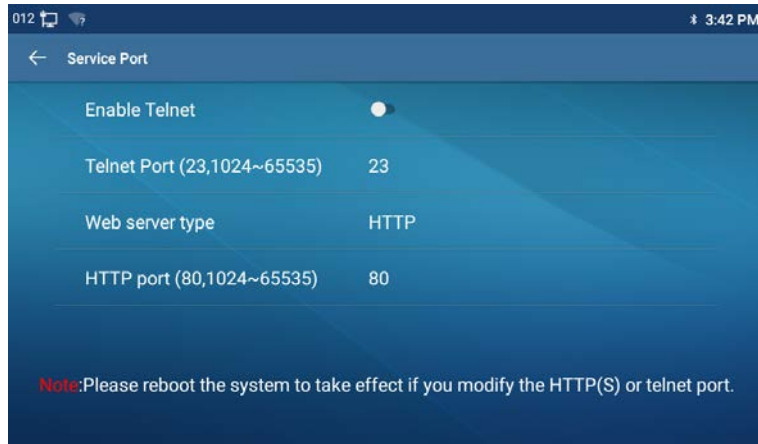
Table 17 - QoS & VLAN

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

10.7.2.3 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.

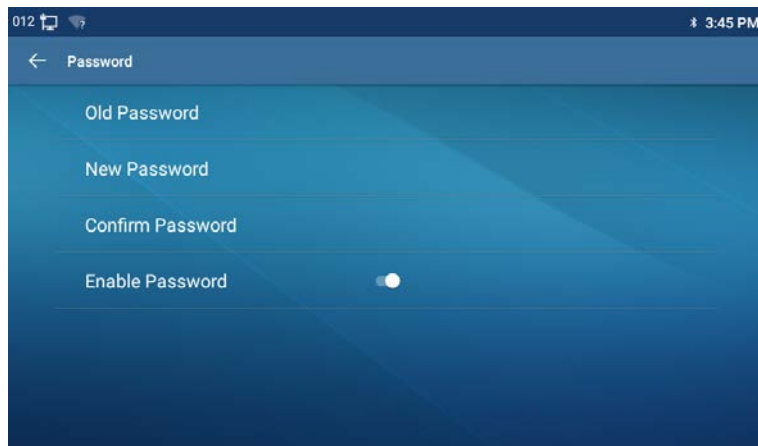


Picture 104 - The phone configures the web server type

10.7.3 Set The Secret Key

When the device is in the default standby mode,

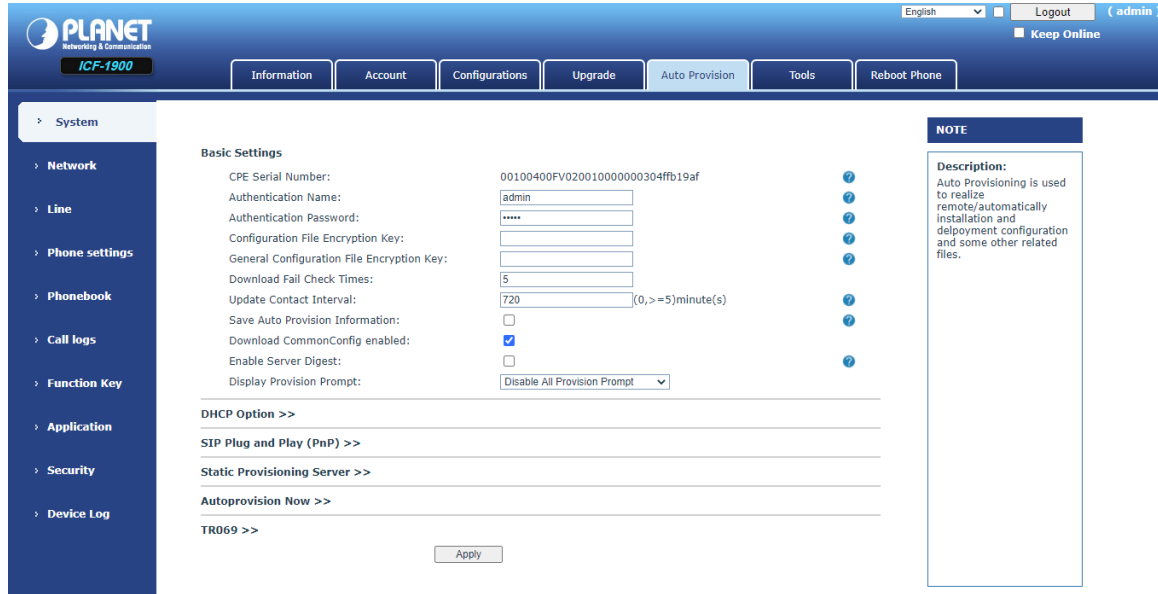
- Select [**Phone Settings**]>> [**System**]>> [**Password**]
- Click [**Password**] to change password.



Picture 105 - Menu password and Settings

10.7.4 Maintenance

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



Picture 106 - Page auto provision Settings

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



Picture 107 - Phone auto provision settings

PLANET devices support SIP PnP, DHCP options, Static provision, TR069. If all of the 4 methods are enabled, the priority from high to low as below:

PNP>DHCP>TR069> Static Provisioning

Transferring protocol: FTP、 TFTP、 HTTP、 HTTPS

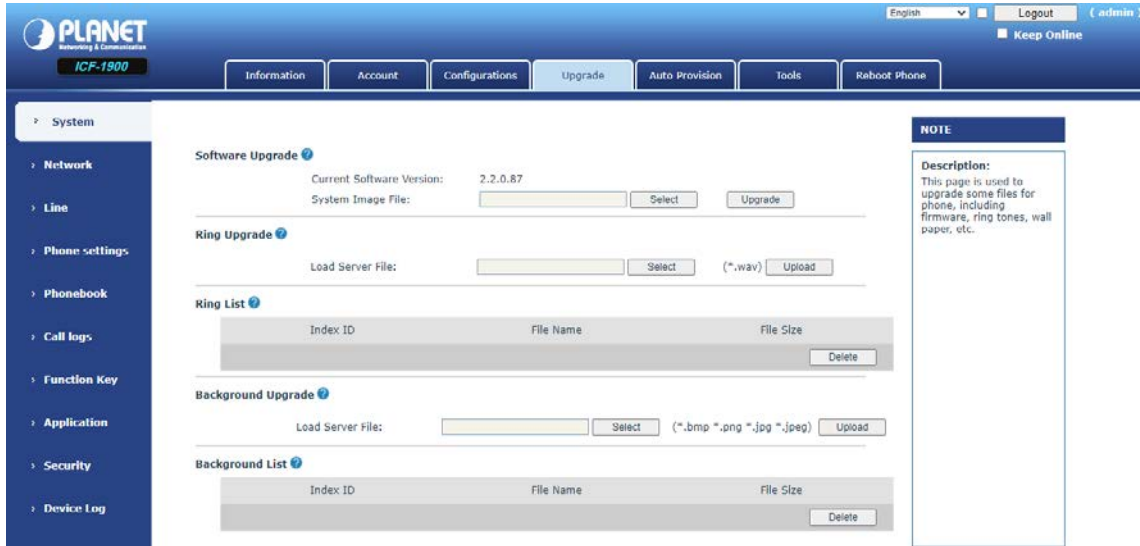
Table 18 - Auto Provision

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 Encryption Key	If the device configuration file is encrypted , user should add the encryption key here
General Configuration File Encryption Key	If the common configuration file is encrypted, user should add the encryption key here
Download Fail Check Times	If there download is failed, phone will retry with the configured 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 Information	Save the HTTP/HTTPS/FTP user name and password. If the provision URL is kept, the information will be kept.
Download Common Config enabled	Whether phone will download the common configuration file.
Enable Server Digest	When the feature is enable, if the configuration of server is changed, phone will download and update.
DHCP Option	
Option Value	Configure DHCP option, DHCP option supports DHCP custom option DHCP option 66 DHCP option 43, 3 methods to get the provision URL. The default is Option 66.
Custom Option Value	Custom Option value is allowed from 128 to 254. The option value must be same as server define.
Enable DHCP Option 120	Use Option120 to get the SIP server address from DHCP server.
SIP Plug and Play (PnP)	
Enable SIP PnP	Whether enable PnP or not. If PnP is enable, phone will send a SIP SUBSCRIBE message with broadcast method. Any server 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	
Server Address	Provisioning server address. Support both IP address and domain address.
Configuration File Name	The configuration file name. If it is empty, phone will request the common file and device file which is named as its MAC address. The file name could be a common name, \$mac.cfg, \$input.cfg. The file format supports CFG/TXT/XML.
Protocol Type	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.
Update Mode	Provision Mode. 1. Disabled. 2. Update after reboot. 3. Update after interval.
TR069	
Enable TR069	Enable TR069 after selection
ACS Server Type	There are 2 options 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 Tone	If TR069 is enabled, there will be a prompt tone when connecting.
TLS Version	TLS version (TLS 1.0, TLS 1.1, TLS 1.2)
INFORM Sending Period	INFORM signal interval time. It ranges from 1s to 999s
STUN Server Address	Configure STUN server address
STUN Enable	To enable STUN server for TR069

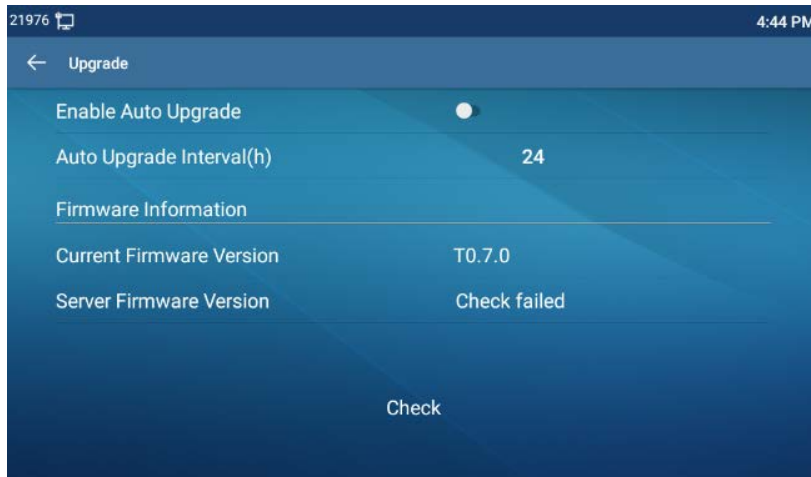
10.7.5 Firmware Upgrade

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



Picture 108 - Web page firmware upgrade

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

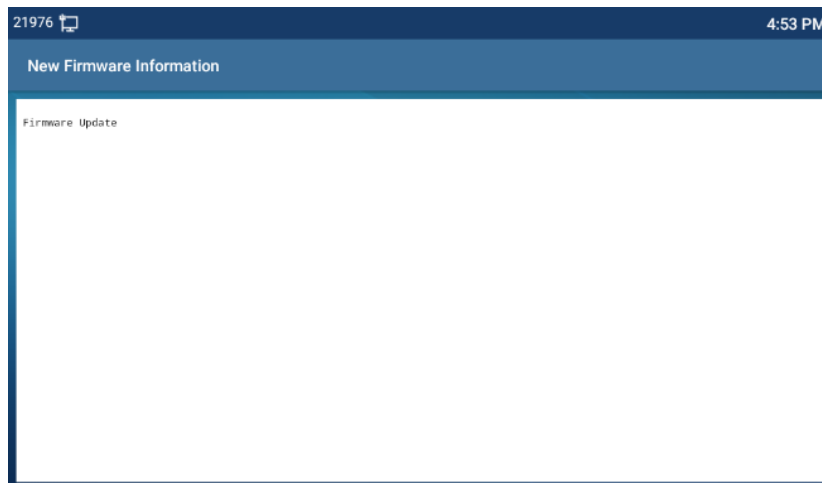


Picture 109 - Firmware upgrade information display

Table 19 - Firmware upgrade

Parameter	Description
Upgrade server	
Enable Auto Upgrade	Enable automatic upgrade, If there is a new version txt and new software firmware on the server, phone will show a prompt upgrade message after Update Interval.
Upgrade Server Address1	Set available upgrade server address.
Upgrade Server Address 2	Set available upgrade server address.
Update Interval	Set Update Interval.
Firmware Information	
Current Software Version	It will show Current Software Version.
Server Firmware Version	It will show Server Firmware Version.
[Upgrade] button	If there is a new version txt and new software firmware on the server, the page will display version information and upgrade button will become available; Click [Upgrade] button to upgrade the new firmware.
New version description information	When there is a corresponding TXT file and version on the server side, the TXT and version information will be displayed under the new version description information.

- 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.



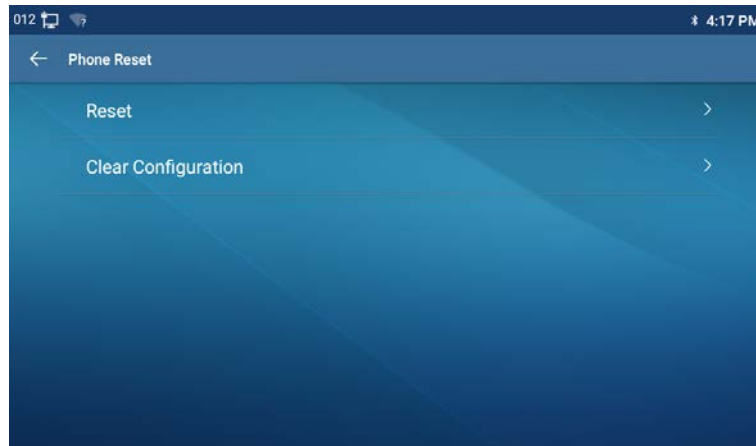
Picture 110 - Firmware upgrade

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



Picture 111 - Reset to default

11 Web Configurations

11.1 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.

11.2 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)

11.3 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.

11.4 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.

11.5 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.

11.6 System >> Auto Provision

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

11.7 System >> Tools

Tools provided in this page help users to identify issues at trouble shooting. Please refer to [13 Trouble Shooting](#) for more detail.

11.8 System >> Reboot Phone

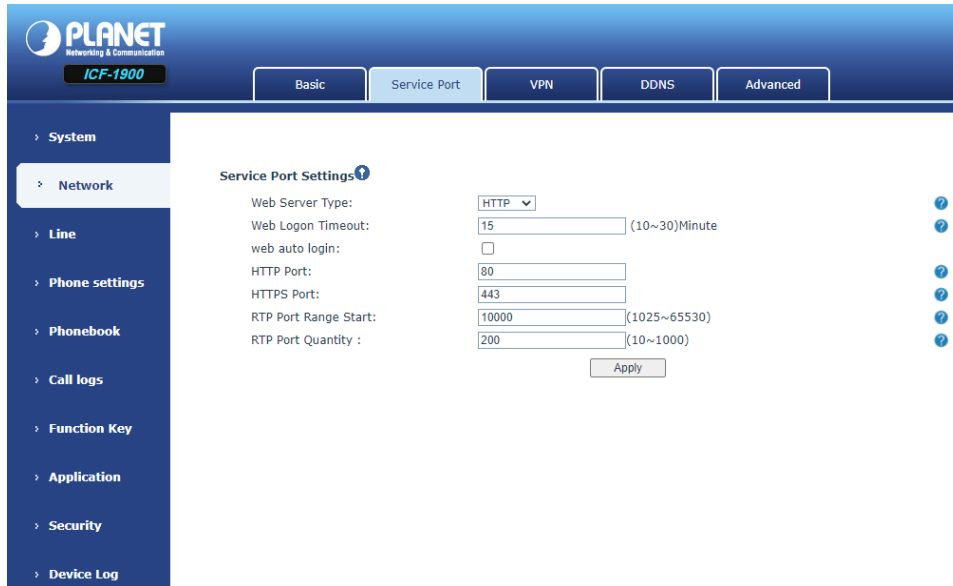
This page can restart the phone.

12 Network >> Basic

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

12.1 Network >> Service Port

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



The screenshot shows the 'Service Port Settings' page. On the left is a navigation menu with categories: System, Network, Line, Phone settings, Phonebook, Call logs, Function Key, Application, Security, and Device Log. The 'Network' category is selected. The main content area is titled 'Service Port Settings' and contains the following fields:

- Web Server Type: HTTP (dropdown menu)
- Web Logon Timeout: 15 (input field) (10~30)Minute
- web auto login:
- HTTP Port: 80 (input field)
- HTTPS Port: 443 (input field)
- RTP Port Range Start: 10000 (input field) (1025~65530)
- RTP Port Quantity: 200 (input field) (10~1000)

An 'Apply' button is located at the bottom right of the settings area.

Picture 112 - Service Port Settings

Table 20 - Service port

Parameter	Description
Web Server Type	Reboot to take effect after settings. Optionally, the web page login is HTTP/HTTPS.
Web Logon Timeout	Default as 15 minutes, the timeout will automatically exit the login page, 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.

12.2 Network >> Advanced

Advanced network Settings are typically configured by the IT administrator to improve the quality of the phone service. For configuration, query the [10.7 advanced](#) Settings.

12.3 Line >> SIP

Configure the Line service configuration on this page.

Table 21 - Line configuration on the web page

Parameters	Description
Register Settings	
Line Status	Display the current line status at page loading. To get the up to date line status, user has to refresh the page manually.
Activate	Whether the service of the line 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 automatically after the delay time
Auto Answering Delay	Set the delay for incoming call before the system automatically answered it
Call Forward Unconditional	Enable unconditional call forward, all incoming calls will be forwarded to the number specified in the next field
Call Forward Number for Unconditional	Set the number of unconditional call forward
Call Forward on Busy	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.
Codecs Settings	Set the priority and availability of the codecs by adding or remove them from the list.
Video Codecs	Select video code to preview video.

Advanced Settings	
Use Feature Code	When this setting is enabled, the features in this section will not be handled by the device itself but by the server instead. In order to control the enabling of the features, the device will send feature code to the server by dialing the number specified in each feature code field.
Enable DND	Set the feature code to dial to the server
Disable DND	Set the feature code to dial to the server
Enable Call Forward Unconditional	Set the feature code to dial to the server
Disable Call Forward Unconditional	Set the feature code to dial to the server
Enable Call Forward on Busy	Set the feature code to dial to the server
Disable Call Forward on Busy	Set the feature code to dial to the server
Enable Call Forward on No Answer	Set the feature code to dial to the server
Disable Call Forward on No Answer	Set the feature code to dial to the server
Enable Blocking Anonymous Call	Set the feature code to dial to the server
Disable Blocking Anonymous Call	Set the feature code to dial to the server
Call Waiting On Code	Set the feature code to dial to the server
Call Waiting Off Code	Set the feature code to dial to the server
Send Anonymous On Code	Set the feature code to dial to the server
Send Anonymous Off Code	Set the feature code to dial to the server
SIP Encryption	Enable SIP encryption such that SIP transmission will be encrypted
RTP Encryption	Enable RTP encryption such that RTP transmission will be encrypted
Enable Session Timer	Set the line to enable call ending by session timer refreshment. The call session will be ended if there is not new session timer event update received after the timeout period
Session Timeout	Set the session timer timeout period
Enable BLF List	Enable/Disable BLF List
BLF List Number	BLF List allows one BLF key to monitor the status of a group. Multiple BLF lists are supported.
Response Single Codec	If setting enabled, the device will use single codec in response to an incoming call request

BLF Server	The registered server will receive the subscription package from ordinary application of BLF phone. Please enter the BLF server, if the sever does not support subscription package, the registered server and subscription server will be separated.
Keep Alive Type	Set the line to use dummy UDP or SIP OPTION packet to keep NAT pinhole opened
Keep Alive Interval	Set the keep alive packet transmitting interval
Keep Authentication	Keep the authentication parameters from previous authentication
Blocking Anonymous Call	Reject any incoming call without presenting caller ID
User Agent	Set the user agent, the default is Model with Software Version.
Specific Server Type	Set the line to collaborate with specific server type
SIP Version	Set the SIP version
Anonymous Call Standard	Set the standard to be used for anonymous
Local Port	Set the local port
Ring Type	Set the ring tone type for the line
Enable user=phone	Sets user=phone in SIP messages.
Use Tel Call	Set use tel call
Auto TCP	Using TCP protocol to guarantee usability of transport for SIP messages above 1500 bytes
Enable Rport	Set the line to add rport in SIP headers
Enable PRACK	Set the line to support PRACK SIP message
DNS Mode	Select DNS mode, A, SRV, NAPTR
Enable Long Contact	Allow more parameters in contact field per RFC 3840
Enable Strict Proxy	Enables the use of strict routing. When the phone receives packets from the server, it will use the source IP address, not the address in via field.
Convert URI	Convert not digit and alphabet characters to %hh hex code
Use Quote in Display Name	Whether to add quote in display name, i.e. "PLANET" vs PLANET
Enable GRUU	Support Globally Routable User-Agent URI (GRUU)

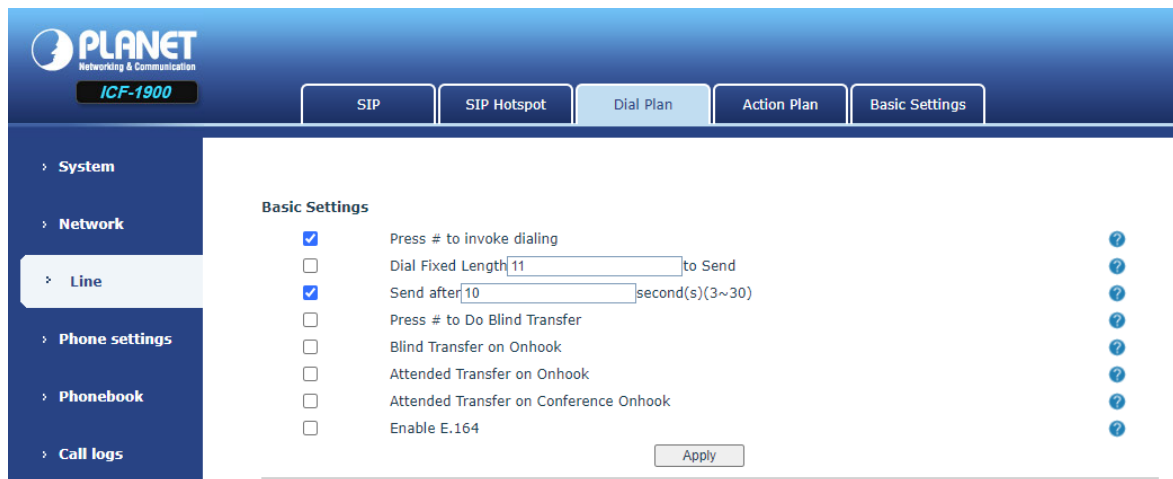
Sync Clock Time	Time Sync with server
Enable Inactive Hold	With the post-call hold capture package enabled, you can see that in the INVITE package, SDP is inactive.
Caller ID Header	Set the Caller ID Header
Use 182 Response for Call waiting	Set the device to use 182 response code at call waiting response
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 agent with MAC or not.
Enable Register MAC Header	Whether to open the registration is user agent with MAC or not.
BLF Dialog Strict Match	Whether to enable accurate matching of BLF sessions.
PTime(ms)	Set whether to bring ptime field, default no.

SIP Global Settings	
Strict Branch	Set up to strictly match the Branch field.
Enable Group	Set open group.
Enable RFC4475	Set to enable RFC4475.
Enable Strict UA Match	Enable strict UA matching.
Registration Failure Retry Time	Set the registration failure retry time.
Local SIP Port	Modify the phone SIP port.
Enable uaCSTA	Set to enable the uaCSTA function.

12.4 Line >> SIP Hotspot

Please refer to [9.9 SIP Hotspot](#).

12.5 Line >> Dial Plan



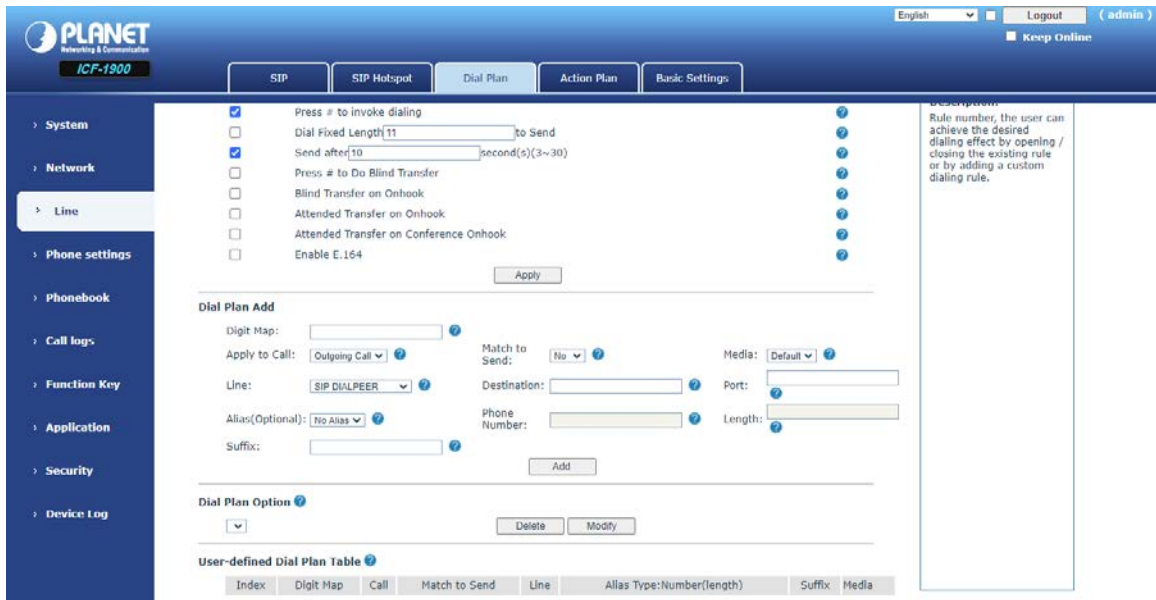
Picture 113 - Dial plan settings

Table 22 - Phone 7 dialing methods

Parameters	Description
Press # to invoke dialing	The user dials the other party's number and then adds the # number to dial out;
Dial Fixed Length	The number entered by the user is automatically dialed out when it reaches a fixed length
Timeout dial	The system dials automatically after timeout
Press # to Do Blind Transfer	The user enters the number to be transferred and then presses the "#" key to transfer the current call to a third party
Blind Transfer on Onhook	After the user enters the number, hang up the handle or turn off the hands-free function to transfer the current call to a third party.

Attended Transfer on Onhook	Hang up the handle or press the hands-free button to realize the function of attention -transfer, which can transfer the current call to a third party.
Attended Transfer on Conference Onhook	During a three-way call, hang up the handle and the remaining two parties remain on the call.
Enable E.164	Please refer to e. 164 standard specification

Add dialing rules:



Picture 114 - Custom setting of dial - up rules

Table 23 - Dial - up rule configuration table

Parameters	Description
Dial rule	<p>There are two types of matching: Full Matching or Prefix Matching. In Full matching, the entire phone number is entered and then mapped per the Dial Peer rules.</p> <p>In prefix matching, only part of the number is entered followed by T. The mapping with then take place whenever these digits are dialed. Prefix mode supports a maximum of 30 digits.</p>
<p>Note: Two different special characters are used.</p> <ul style="list-style-type: none"> ■ x -- Matches any single digit that is dialed. ■ [] -- Specifies a range of numbers to be matched. It may be a range, a list of ranges separated by commas, or a list of digits. 	
Destination	Set Destination address. This is for IP direct.
Port	Set the Signal port, and the default is 5060 for SIP.

Alias	Set the Alias. This is the text to be added, replaced or deleted. It is an optional item.
<p>Note: There are four types of aliases.</p> <ul style="list-style-type: none"> ■ all: xxx - xxx will replace the phone number. ■ add: xxx - xxx will be dialed before any phone number. ■ del - The characters will be deleted from the phone number. ■ rep: xxx - xxx will be substituted for the specified characters. 	
Suffix	Characters to be added at the end of the phone number. It is an optional item.
Length	Set the number of characters to be deleted. For example, if this is set to 3, the 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.

Index	Digit Map	Call	Match to Send	Line	Alias Type: Number(length)	Suffix	Media
1	"123"	Out	No	SIP DIALPEER(192.168.1.241:5060)			Default

Picture 115 - 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.

Dial Plan Add

Digit Map:

Apply to Call: Match to Send: Media:

Line: Destination: Port:

Alias(Optional): Phone Number: Length:

Suffix:

Dial Plan Option

Index	Digit Map	Call	Match to Send	Line	Alias Type: Number(length)	Suffix	Media
1	"123"	Out	No	PLANET@SIP1			Default

Picture 116 - 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.

12.6 Line >> Action Plan

When calling to a phone, the bounded IP camera synchronously transmits video to the opposite phone (video support).

Table 24 - IP camera

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

12.7 Line >> Basic Settings

Set up the register global configuration.

Table 25 - 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.

12.8 Phone settings >> Features

Configuration phone features.

Table 26 - General function Settings

Parameters	Description
Basic Settings	
Enable Call Waiting	Enable this setting to allow user to take second incoming call during an established call. Default enabled.
Enable 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 automatically at hands-free mode
Auto Onhook Time	Specify Auto Onhook time, the phone will hang up and return to the idle automatically after Auto Hand down 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 ring tone from handset.
Auto Headset	Enable this feature, headset plugged in the phone, user press 'answer' key or line key to answer a call with the headset automatically.
Enable Silent Mode	When enabled, the phone is muted, there is no ringing when calls, you can use the volume keys and mute key to unmute.
Disable Mute for Ring	When it is enabled, you can't mute the phone
Enable Default Line	If enabled, user can assign default SIP line for dialing out rather than SIP1.
Enable Auto Switch Line	Enable phone to select an available SIP line as default automatically
Default Ext Line	Select the default line to use for outgoing calls
Ban Outgoing	If you select Ban Outgoing to enable it, and you cannot dial out any number.
Hide DTMF	Configure the hide DTMF mode.
Enable CallLog	Select whether to save the call log.
Enable Restricted Incoming List	Whether to enable restricted call list.
Enable Allowed Incoming List	Whether to enable the allowed call list.

Enable Restricted Outgoing List	Whether to enable the restricted allocation list.
Enable Country Code	Whether the country code is enabled.
Country Code	Fill in the country code.
Area Code	Fill in the area code.
Enable Number Privacy	Whether to enable number privacy.
Match Direction	Matching direction, there are two kinds of rules from right to left and from left to right.
Start Position	Open number privacy after the start of the hidden location.
Hide Digits	Turn on number privacy to hide the number of digits.
Allow IP Call	If enabled, user can dial out with IP address
P2P IP Prefix	Prefix a point-to-point IP call.
Caller Name Priority	Change caller ID display priority.
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.
Ringling	Power lamp status when there is an incoming call, including off/on/slow flash/quick flash, default flash.
Mute	Power lamp status in mute mode, including off/on/slow flash/quick flash, off by default.
Hold/Held	The power lamp state, including off/on/slow flash/quick flash, is turned off by default when left/retained.
Notification Popups	
Display Missed Call Popup	No incoming call popup prompt after opening, no popup prompt when closing, open by default.
Display MWI Popup	Voice message popup prompt is not answered after opening, and it is opened by default if there is no popup prompt when closing.
Display Device Connect Popup	There is a popup prompt when the WIFI adapter is connected. There is no popup prompt when the WIFI adapter is closed. It is on by default.

Display SMS Popup	There is popup prompt for unread messages after opening, and there is no popup prompt when closing. It is opened by default.
Display Other Popup	When the handle is not hung back after opening, registration fails, IP acquisition fails, Tr069 connection fails and other abnormalities, there will be popup prompt when it is opened; otherwise, there will be no prompt when it is closed, and it will be opened by default.

12.9 Phone settings >> Media Settings

Change voice Settings.

Table 27 - Voice settings

Parameter	Description
Codecs Settings	Select enable or disable voice encoding: G.711A/U,G.722,G.729, G.726-16,G726-24,G726-32,G.726-40, ILBC,opus
Video codec	
Video codec	Select to enable video encoding:H264
Media Setting	
DTMF Payload Type	Enter the DTMF payload type, the value must be 96~127.
Headset Mic Gain	Set the earphone's radio volume gain to fit different models of earphones.
Opus payload type	Set Opus load type, range 96~127.
OPUS Sample Rate	Set Opus sampling rate, including opus-nb (8KHz) and opus-wb (16KHz).
ILBC Payload Type	Set the ILBC Payload Type, the value must be 96~127.
ILBC Payload Length	Set the ILBC Payload Length
Onhook Time	Configure a minimum response time, which defaults to 200ms
Enable the patting spring to generate Flash	Whether to turn on the plug spring to generate Flash

Video bit rate	Set the bit rate of video:64kbps , 192kbps , 256kbps, 384kbps, 512kbps, 768kbps, 1Mbps, 1.6Mbps, 2Mbps, 3Mbps, 4Mbps
Video frame rate	Set the video frame rate: 5fps, 10fps, 15fps, 20fps, 25fps, 30fps
Video resolution	Set Video resolution: CIF,VGA,4CIF,720P
H.264Payload Type	Set the H264 Payload Type, the value must be 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

12.10 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 28 - Multicast parameters

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 shall take precedence over all incoming paging calls.
Name	Listened multicast server name
Host: port	Listened multicast server's multicast IP address and port.

12.11 Phone settings >> Action

Action URL



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

12.12 Phone settings >> Time/Date

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

Table 29 – Time & Date settings

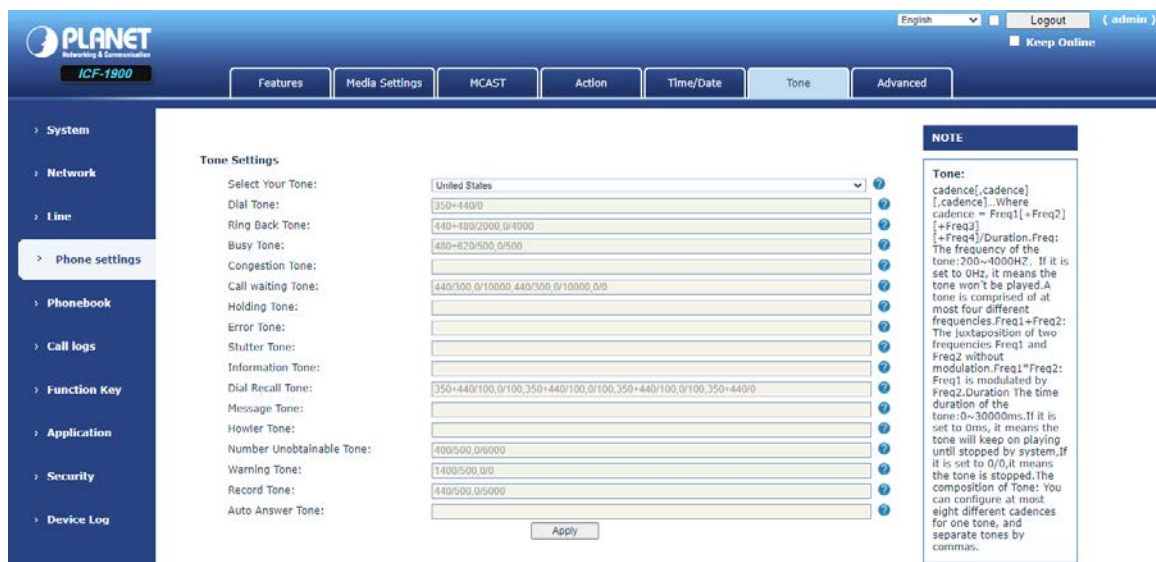
Parameters	Description
Network Time Server Settings	
Time Synchronized via SNTP	Enable time-sync through SNTP protocol
Time Synchronized via DHCP	Enable time-sync through DHCP protocol
Primary Time Server	Set primary time server address
Secondary Time Server	Set secondary time server address, when primary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

Weekday End	The DST end weekday
Hour End	The DST end hour
Minute End	The DST end minute
Manual Time Settings	You can set your time manually

12.13 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 117 - Tone settings on the web

12.14 Phone settings >> Advanced

User can configure the advanced configuration settings in this page.

- Screen Configuration.
 - Enable Energy Saving
 - Backlight Time
 - 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 16 characters. The default chars are 'VOIP PHONE'.

12.15 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.

12.16 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,

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


LDAP Settings

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

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

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

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

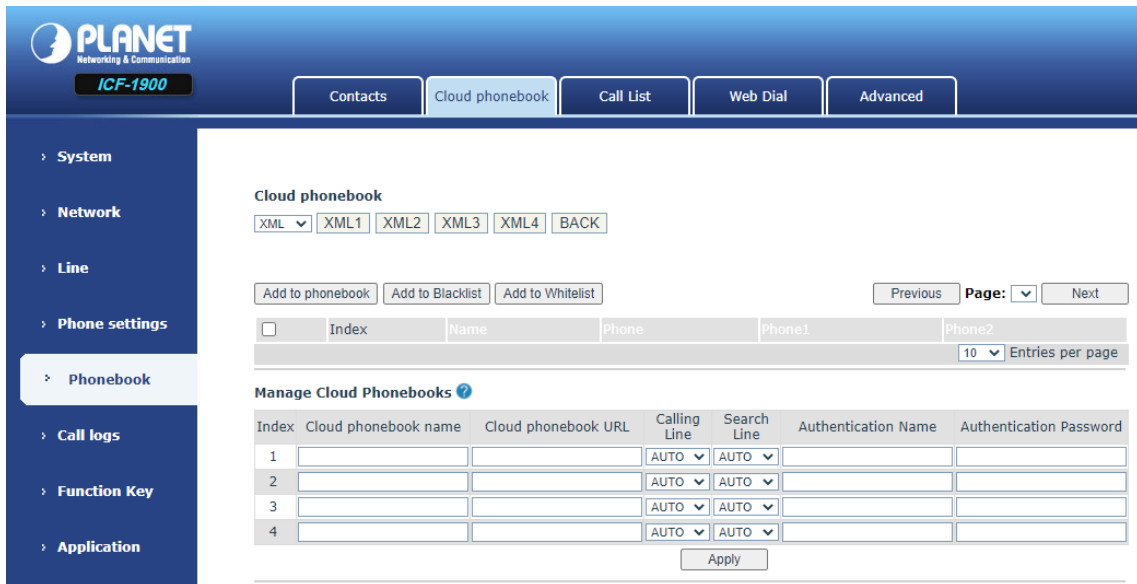


Refer to the LDAP technical documentation before creating the LDAP phonebook and phonebook server.

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 118 - Web cloud phone book Settings

12.17 Phonebook >> Call List

■ Restricted Incoming Calls:

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

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

■ Allowed Incoming Calls:

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

■ Restricted Outgoing Calls:

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

12.18 Phonebook >> Web Dial

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

12.19 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.



Note

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.

12.20 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 blacklist/whitelist.

Users can also dial the web page by clicking on the number in the call log.

Users can also download call records conditionally and save them locally.

12.21 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

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

Table 30 - Function Key configuration

Parameters	Description
Memory Key	<p>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> <p>p.s. User should enter the pick-up number for specific BLF key to fulfill the pick-up operation.</p> <p>Presence: Compared to BLF, the Presence is also able to view whether the user is online.</p> <p>Note: You cannot subscribe the same number for BLF and Presence at the same time</p> <p>Speed Dial: You can call the number directly which you set. This feature is convenient for you to dial the number which you frequently dialed.</p> <p>Intercom: This feature allows the operator or the secretary to connect the phone quickly; it is widely used in office environments.</p>
Line	It can be configured as a Line Key. User is able to make a call by pressing Line Key.
Key Event	User can select a key event as a shortcut to trigger. For example: MWI / DND / Release / Headset / Hold / etc.
DTMF	It allows user to dial or edit dial number easily.
URL	Open the specific URL directly.
Multicast	Configure the multicast address and audio codec. User presses the key to initiate the 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.

12.22 Function Key >> Softkey

The User Settings mode and display style, display page.

Table 31 - Softkey configuration

Parameter	Description
Softkey Mode	
Softkey mode	Disabled and More, Default is Disabled
Softkey Style	
Softkey display style	Softkey Exit on Left or Right
Screen	
Call Dialer	Redial/2aB/Delete/Exit/Call Back/Dial/Join/MWI/Local 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
Desktop	CallLog/Menu/Local Contacts/DND/Prev Account/Next Account/Blacklist/Call Back/CallForward/Locked/Memo/Missed/MWI/Dialed/Reboot/Redial/Remote XML/SMS/Headset/Status/DSS Key/In
Divert Dialed	Redial/2aB/Delete/Exit/Forward/Local Contacts/CallLog /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
Talking	Hold/Transfer/Conference/End/Mute/Release/New Call/ Local Contacts/Listen/CallLog/Next call/Prev call/ Private/Headset/Video/Audio/DSS Key
Transfer Alerting	End/Transfer/Headset/Release/DSS Key
Transfer Dialer	Redial/Delete/Exit/2aB/Dial/Local Contacts/Transfer/ CallLog/Clear/Missed/Dialed/Pause/Headset/Video/Audio/Remote XML/DSS Key
Trying	End/Release/Headset/DSS Key
Waiting	Hold/Transfer/Conference/End/Answer/Forward/Mute/Next call/New call/Prev call/Reject/Release/Headset/Listen/ Video/Audio/DSS Key

12.23 Function Key >> Advanced

■ Global key Settings

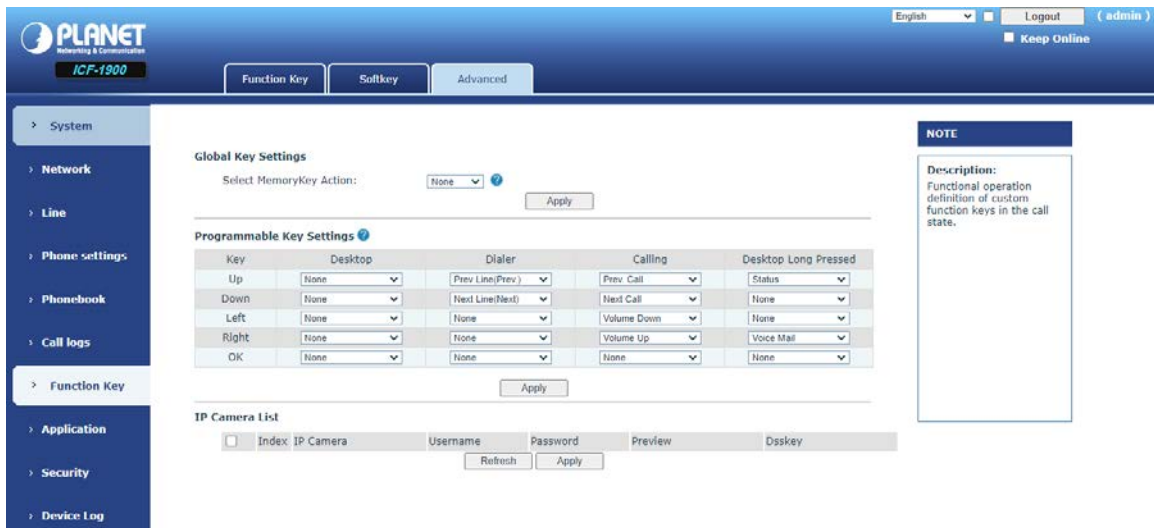
The default configuration is empty, and the global memory key function can be configured.

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 [Table 31 Softkey configuration](#)

■ IP Camera List



The screenshot shows the PLANET ICF-1900 web interface. The top navigation bar includes 'Function Key', 'Softkey', and 'Advanced' tabs. A sidebar on the left lists various system settings like System, Network, Line, Phone settings, Phonebook, Call logs, Function Key, Application, Security, and Device Log. The main content area is titled 'Global Key Settings' and includes a 'Select MemoryKey Action:' dropdown set to 'None' with an 'Apply' button. Below this is the 'Programmable Key Settings' section, which contains a table for configuring key actions.

Key	Desktop	Dialer	Calling	Desktop Long Pressed
Up	None	Prev Line(Prev)	Prev Call	Status
Down	None	Next Line(Next)	Next Call	None
Left	None	None	Volume Down	None
Right	None	None	Volume Up	Voice Mail
OK	None	None	None	None

Below the table is an 'Apply' button. The 'IP Camera List' section features a table with columns for 'Index', 'IP Camera', 'Username', 'Password', 'Preview', and 'Dsskey'. It includes 'Refresh' and 'Apply' buttons. A 'NOTE' box on the right states: 'Description: Functional operation definition of custom function keys in the call state.'

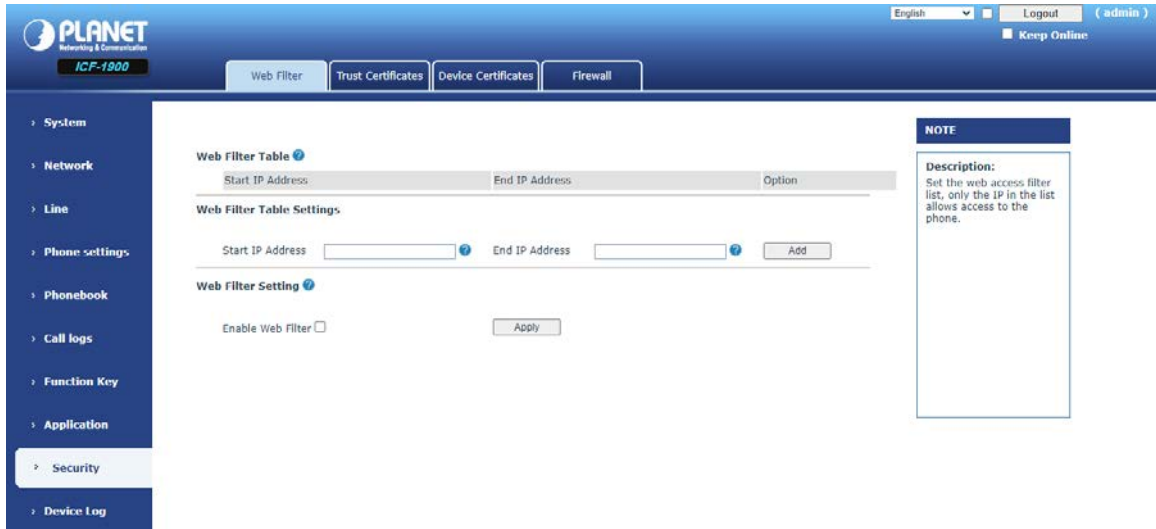
Picture 119 - IP Camera List

12.24 Application >> Manage Recording

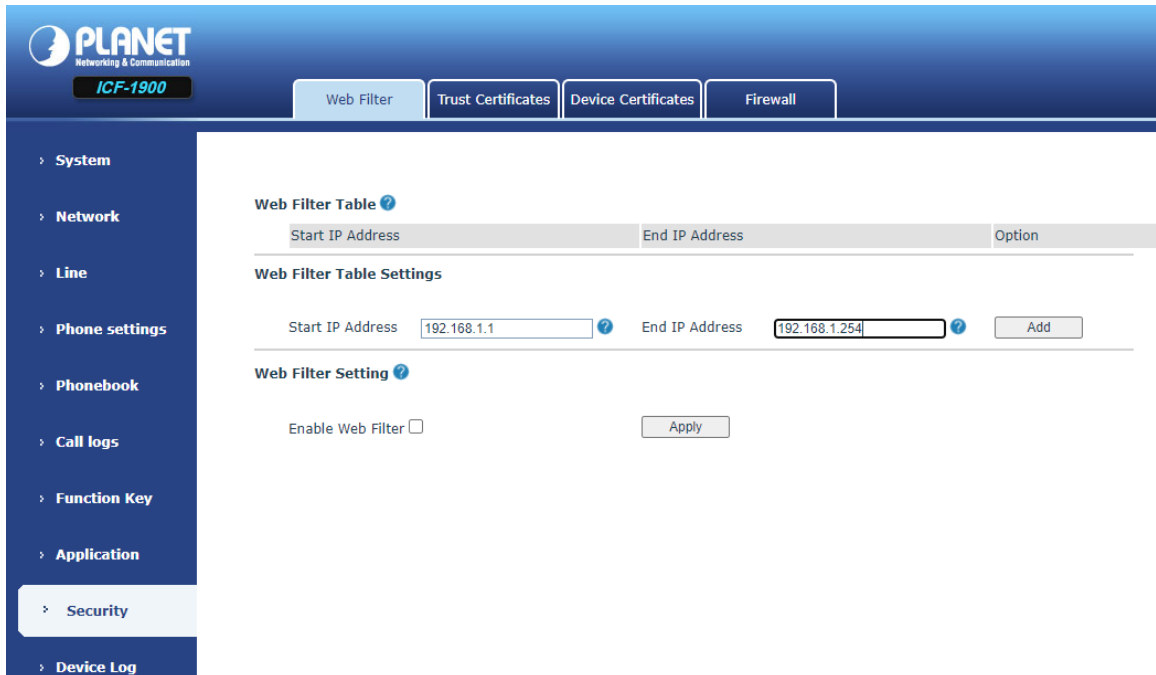
See [9.3 Record](#) for details of recording.

12.25 Security >> Web Filter

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



Picture 120 - Web Filter settings



Picture 121 - 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.

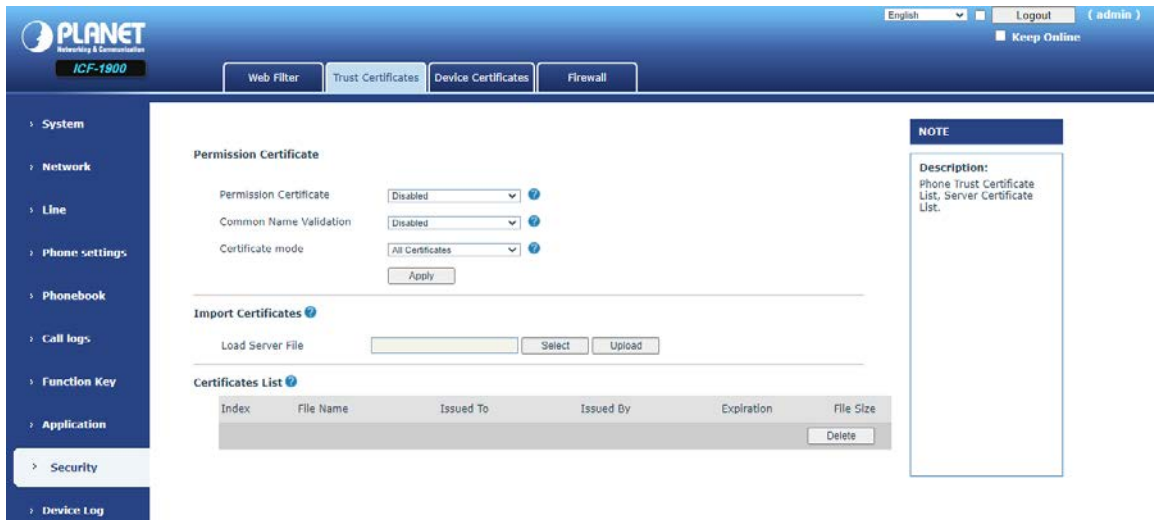
Enable web page filtering: configure enable/disable web page access filtering; Click the "apply" button to take effect.

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.

12.26 Security >> Trust Certificates

Set whether to open license certificate and general name validation, select certificate module.

You can upload and delete uploaded certificates.

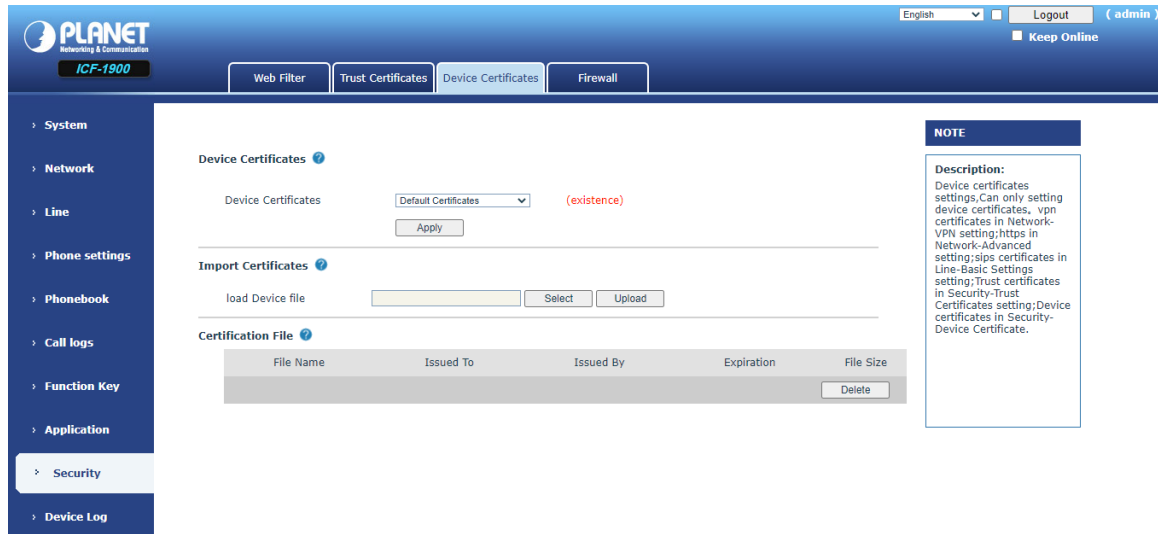


Picture 122 - Certificate of settings

12.27 Security >> Device Certificates

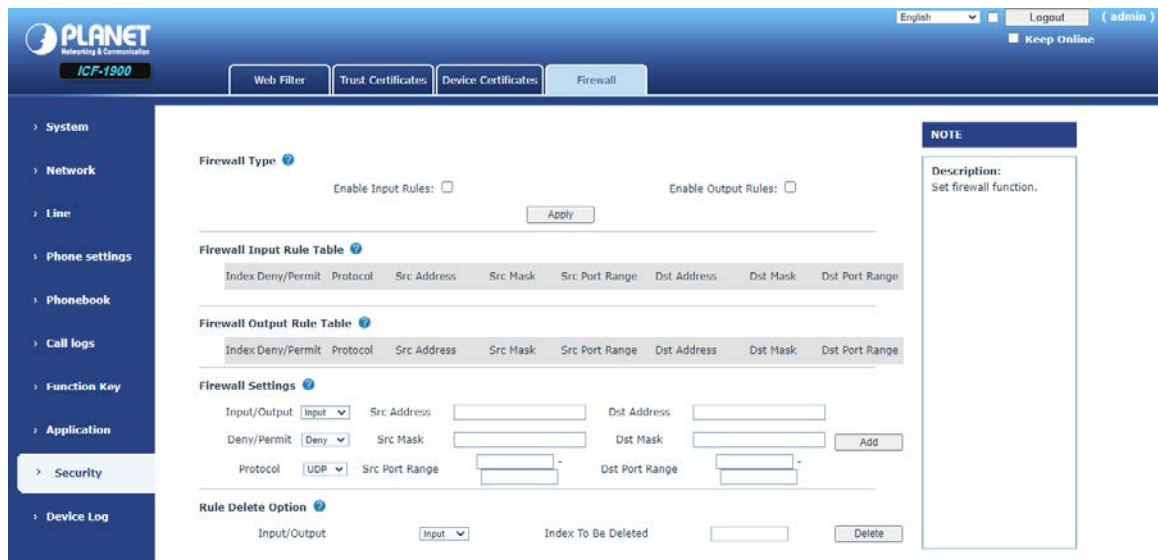
Select the device certificate as the default and custom certificate.

You can upload and delete uploaded certificates.



Picture 123 - Device certificate setting

12.28 Security >> Firewall



Picture 124 - 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.

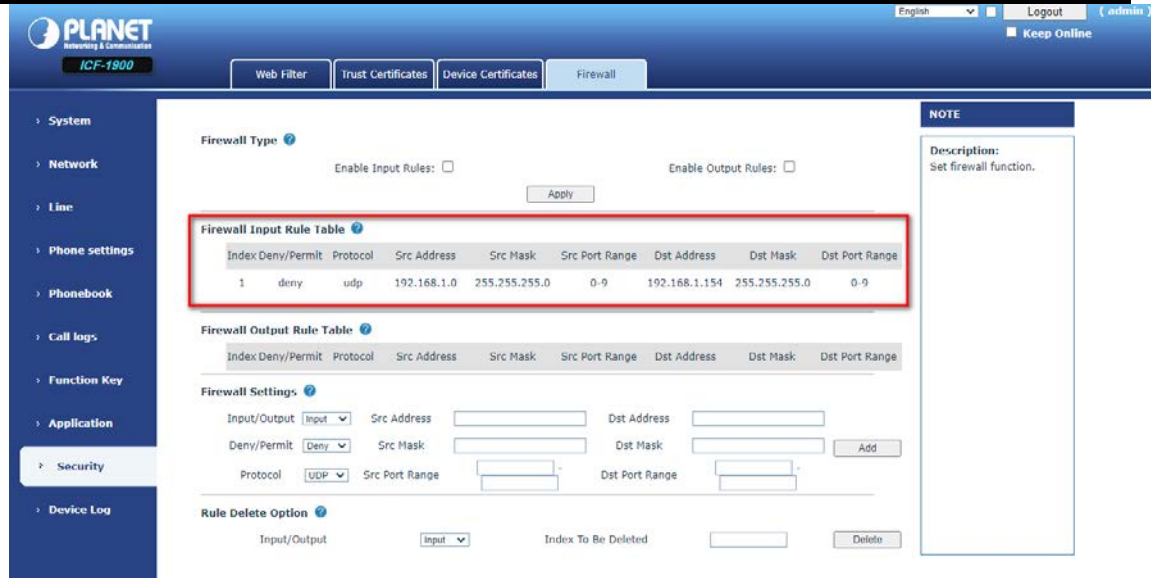
Firewall rule set is a simple firewall module. This feature supports two types of rules: input rules and output rules. Each rule is assigned an ordinal number, allowing up to 10 for each rule.

Considering the complexity of firewall Settings, the following is an example to illustrate:

Table 32 - 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 allowed;
Protocol	There are four types of filtering protocols: TCP UDP ICMP IP.
Src Port Range	Filter port range
Src Address	Source address can be host address, network address, or all addresses 0.0.0.0; It can also be a network address similar to *.*.*.0, such as: 192.168.1.0.
Dst 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.
Src Mask	Is the source address mask. When configured as 255.255.255.255, it means that the host is specific. When set as 255.255.255.0, it means that a network segment is filtered.
Dst Mask	Is the destination address mask. When configured as 255.255.255.255, it means the specific host. When set as 255.255.255.0, it means that a network segment is filtered.

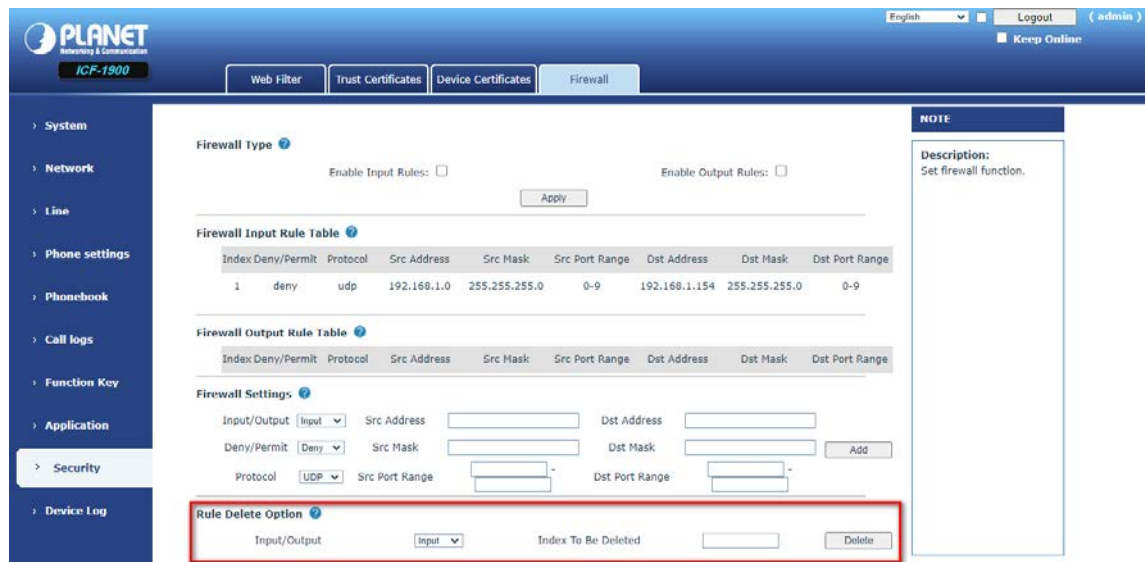
After setting, click [**Add**] and a new item will be added in the firewall input rule, as shown in the figure below:



Picture 125 - 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 126 - Delete firewall rules

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

12.29 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 [13.6 Get log information](#).

13 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.

13.1 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.

13.2 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.

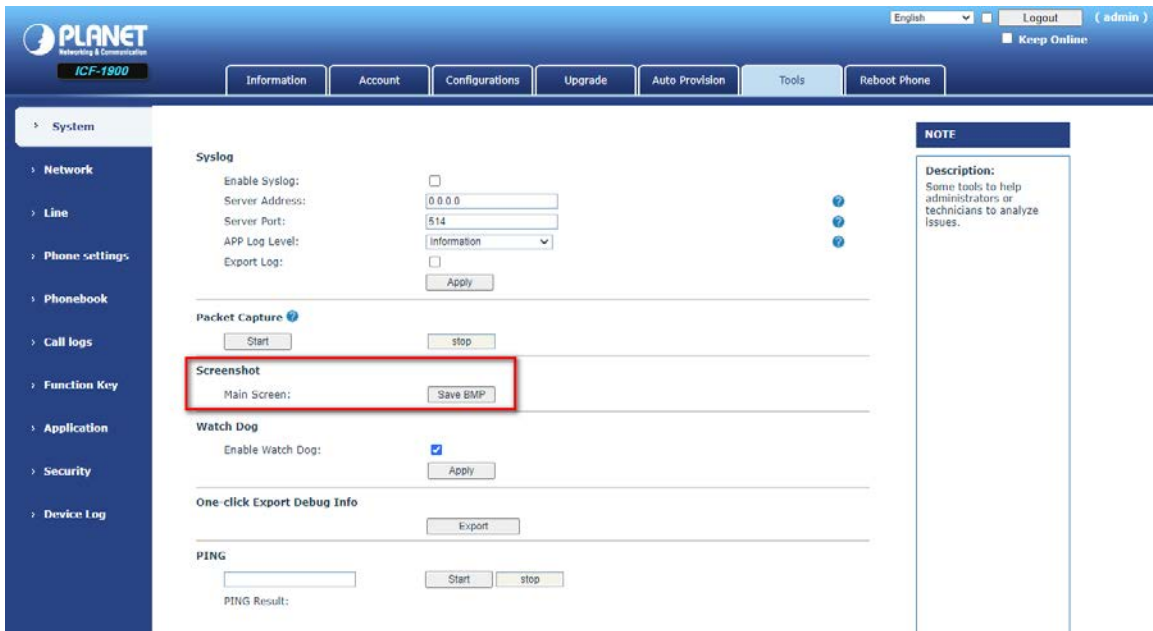
13.3 Reset Device to Factory Default

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.

13.4 Screenshot

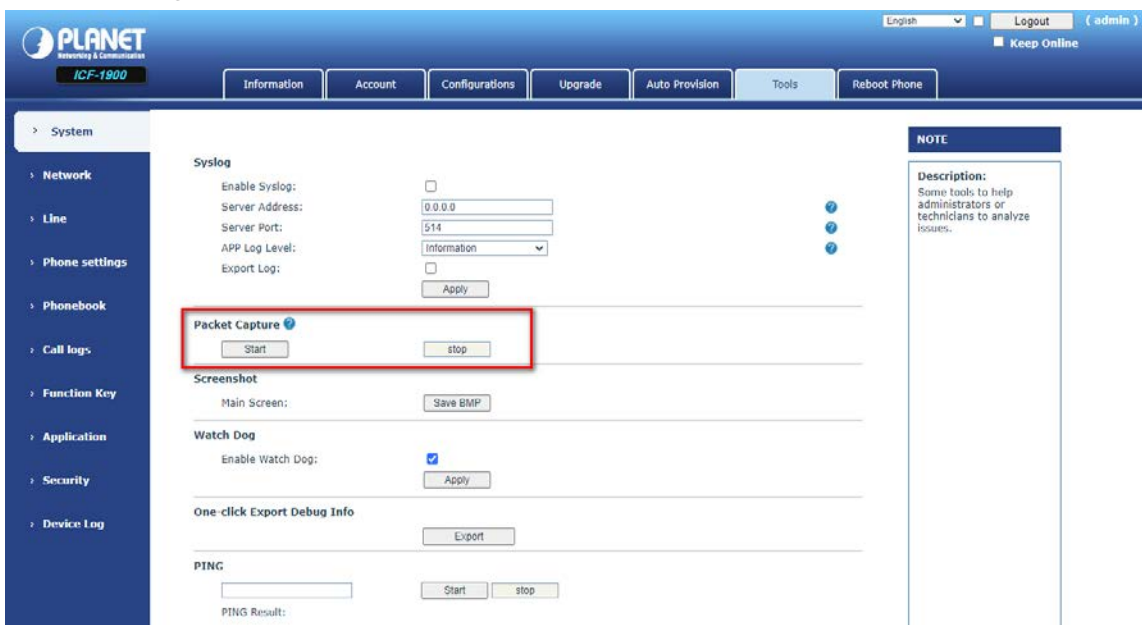
If there is a problem with the phone, the screenshot can help the technician locate the function and identify the problem. In order to obtain screen shots, log in the phone webpage **[System]** >> **[Tools]**, and you can capture the pictures of the main screen (you can capture them in the interface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



Picture 127 - Screenshot

13.5 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 PING period have been dumped to the saved file.



Picture 128 - Web capture

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




13.6 Get Log Information

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

Or use a thumb drive to export debugging log, find a thumb drive to place a text document named DeviceLog.txt.

13.7 Common Trouble Cases

Table 33 - Trouble Cases

Trouble Case	Solution
Device could not boot up	<ol style="list-style-type: none"> 1. The device is powered by external power supply via power adapter or PoE switch. Please use standard power adapter provided by PLANET or PoE switch met with the specification requirements and check if device is well connected to power source. 2. 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.
Device could not register to a service provider	<ol style="list-style-type: none"> 1. Please check if device is well connected to the network. The network Ethernet cable should be connected to the  [Network] port 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 "13.5 Network Packet Capture" to get the network packet capture of registration process and send it to PLANET support to analyze the issue.

<p>No Audio or Poor Audio in Handset</p>	<ol style="list-style-type: none"> 1. Please check if Handset is connected to the correct Handset (📶) port NOT Headphone (🎧) port. 2. The network bandwidth and delay may be not suitable for audio call at the moment.
<p>Poor Audio or Low Volume in Headphone</p>	<ol style="list-style-type: none"> 1. 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. 2. The network bandwidth and delay may be not suitable for audio call at the moment.
<p>Audio is chopping at far-end in Hands-free speaker mode</p>	<p>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.</p>