





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 Model: ICF-1900 Rev: 1.0 (2020, October) Part No. EM-ICF-1900_v1.0



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3 Safety Instruction

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

- Please use the 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		
	HD voice microphone/speaker (handset/hands-free, 0 ~ 7KHz	
	frequency response)	
	HAC handset	
	Wideband ADC/DAC 16KHz sampling	
	Narrowband codec: G.711a/u, G.729AB, iLBC	
Audio Features	Wideband codec: G.722, Opus	
	Full-duplex acoustic echo canceller (AEC)	
	Noise reduction (NR)	
	Packet loss concealment (PLC)	
	Dynamic adaptive jitter buffer	
	DTMF: In-band, out-of-band, DTMF-relay (RFC2833), SIP info	
	Video decoding: H.264	
	Video call resolution: CIF/VGA/4CIF/720P/1080P	
	Image format: JPEG/PNG/BMP	
	Video format: MP4	
Video Features	Bandwidth selection: 64kbps~4Mbps	
	Frame rate selection: 5~30fps	
	Video from remote site can be displayed in full screen	
	3-way video conferencing	
	Self-view (local video preview)	
	Local Phonebook (2000 entries)	
	Remote Phonebook (XML/LDAP, 2000 entries)	
	Intelligent Search for Contacts and Call Log	
	Call logs (In/out/missed, 1000 entries)	
	Black/White List Call Filter	
	Screen saver	
	Voice Message Waiting Indication (VMWI)	
Phone Features	Programmable DSS/Soft keys	
	Network Time Synchronization	
	Built-in Bluetooth 4.2: Supports Bluetooth headset/ Bluetooth of Mobile	
	Device	
	Built-in Wi-Fi: 2.4GHz, 802.11 b/g/n, 5GHz, 802.11 a/n/ac	
	Supports Recording	
	Action URL / Active URI	
	UaCSTA	



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



4.4 Packing Contents4.4.1 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.





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.

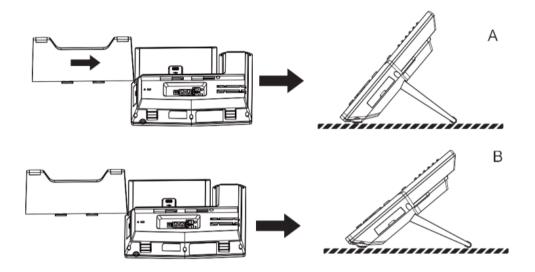


Diagram 1: Desktop phone installation

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.

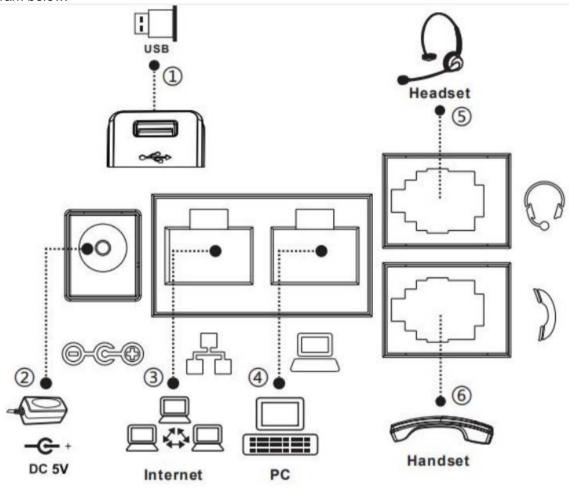


Diagram 2: Connecting to the Device

Table 1 -	Hardware	Interface	Description
-----------	----------	-----------	-------------

Index	Description
	USB port: For Portable High Definition 1080p USB Camera (ICF-CAM80) or USB device
1	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)
	Internet port: Connect to the Internet
3	(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:



Note

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

PLANET	
User: Password: Language:	English V Logon



6 Appendix Table

Appendix I - Icon

Table 2 -- Keypad Icons

Icons	Description
0	Redial
đ	Return
14 3))	Hands-free (HF) speaker
¥	Mute microphone (During call)
-1-	Volume down
·(+	Volume up
¢	Hold
0	Handset
Ŋ	MWI

Table 3 -- Status Prompt and Notification Icons

Icons	Description
\bigcirc	Call out
	Call in
	Call hold
^고	Network disconnected
	SMS
\ominus	DND
(-	Call forward activated
A	Auto-answering activated
()->)	Hands-free (HF) mode
0	Headphone (HP) mode



Ś	Handset (HS) mode	
<u>"</u>	Mute microphone	
HD	HD audio	
_	The voice encryption of calling	
*	Open bluetooth	
(1 ¹)	SIP hotspot	
(•	Connecting Wi-Fi	
2	Open bluetooth	
مە	Unread voice message	
	USB insert tips	

Table 4 -- DSSkey Icons

Icons	Description
مە	MWI
2	Speed dial
	Intercom
<u>~</u>	Call park
<u>्</u>	Call forward
² ono	Key event/DND
	Key event/Call hold



6 ²	Key event/Call transfer	
4	Key event/phonebook	
۶	Key event/redial	
s c	Key event/pickup	
Ċ.	Key event/join	
<u>~</u>	Key event/auto redial on	
	Key event/auto redial off	
<u>ر</u>	Key event/call forward	
6	Key event/call logs	
11	Key event/flash	
	Key event	
O	Key event/headset	
	Key vent/release	
	Key vent/lock phone	
	Key event/SMS	
€	Key event/call back	
د	Key event/hide DTMF	
٠ <u>ڼ</u> ٠	Key event/power light	



\$\$	Key event/prefix
>	Key event/hot desking
P _	Key event/agent
~	Key event/end
494	Key event/disposition
<u></u> *	Key event/escalate
\bowtie	Key event/trace
	Key event/handsfree
Ś	Key event/answer key
Ū €	Key event/private hold
е	URL & Action URL
-	BLF list
Ą	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	
		1	1	
		2	2	
		3	3	
		4	4	
		5	5	
129	Numeric	6	6	
123	numenc	7	7	
		8	8	
		9	9	
		0	0	
		*	*	
		#	#	
		1	@:;()<>	
		2	abc	
		3	def	
		4	ghi	
		5	jkl	
20,000	Lower Case	6	m n o	
abc	Alphabets	7	pqrs	
		8	tuv	
		9	w x y z	
		0	(space)	
		*	.,*/+-:_=	
		#	# ^!&\$%	

Table 5 -- Look-up Table of Characters



		1	@:;()<>
		2	ABC
		3	DEF
		4	GHI
		5	JKL
ADC	Upper Case	6	MNO
ABC	Alphabets	7	PQRS
		8	TUV
		9	WZYX
		Ο	(space)
		*	.,*/+-:_=
		#	# ^!&\$%
		1	1
		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
D-D	Mixed type input	6	6 m n o M N O
<u>2aB</u>		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

Туре	LED Light	LED State
	Off	Line inactive
	Green On	Line ready (Registered)
	Green Blinking	Ringing
Line Key	Red Blinking	Line is trying to register
	Red Blinking	Line error (Registration failure)
	Red On	Dialing/Line in use (Talking)
	Yellow Blinking	Call holding
	Green On	Subscription number is idle.
BLF	Red On	Subscription number is busy.
DLF	Red On	Subscription number is dialing.
	Off	Subscription number is unavailable.
	Green On	Subscription number is idle.
Presence	Red On	Subscription number is busy.
	Red On	Subscription number is dialing.
	Off	Subscription number is unavailable.
	Red On	Enable DND
DND	Off	Disable DND
N 4\ A / I	Green Blinking	New voice message waiting
MWI	Off	No new voice message



7 Introduction to the User

7.1 Instructions of Keypads

7.1.1 Instructions of the ICF-1900 Keypads

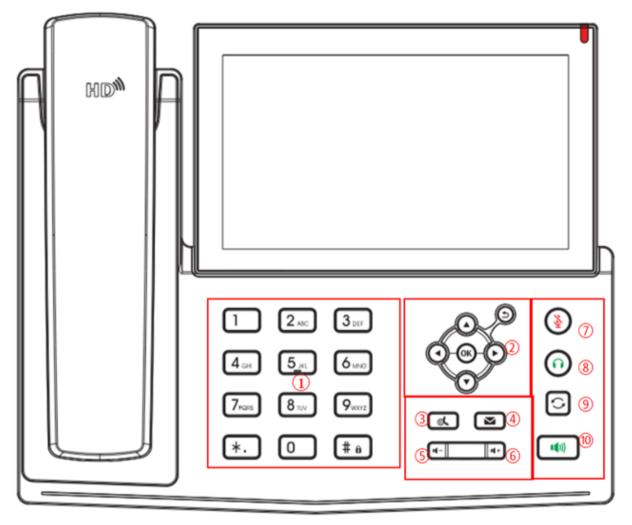


Diagram 3 -- Instructions of Keypads

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.



Number	The keypad names	Instruction					
		These 12 standard phone keys provide standard phone button					
1	DTMF Key	functionality. At the same time, certain long key presses can be					
		triggered to provide special functions.					
		$ mathbb{H} $ - Long presses this key to open the keyboard lock configuration.					
		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					
2	Navigate/OK/	left/right.					
	Return Keys	OK key: Default is equivalent to soft button confirmation, user of					
		customize the function.					
		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.					
		Press the "Hold" key during the call. The user can hold the call,					
3	Hold Key	and press it again to cancel the hold and restore the normal call					
		state.					
(4)	Voice Mail Key	Press the "voice mail" button, and the user enters the interface of					
	voloo maii reey	SMS and voice mail list.					
		In the standby state, ring and ring configuration interface, press					
(5)	Volume Down Key	this button to reduce the ring volume; press this button to lower					
		the volume on the call or volume adjustment screen.					
		In the standby state, ring and ring configuration interface, press					
6	Volume Up Key	this button to increase the ring volume; press this button to					
		increase the volume on the call or volume adjustment screen.					
\overline{O}	Mute Key	During a call, the user can press this key to mute the microphone.					
8	Headset Key	Users can press this key to open the headset channel					
9	Redial Key	Press the Redial key to redial the last number dialed					
10	Hands-free Key	The user can press this key to open the audio channel of the					
-		speakerphone.					

Table 7- - Instructions of Keypads



ICF-1900

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.



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 $(\mbox{RAM}\mbox{ and }\mbox{ROM})$
 - 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:

PLAN		13:26	
←	Common		
	Phone Model	ICF-1900	
	Version	2.2.0.87	
	IP Address	192.168.1.190	
	MAC Address	00:30:4f:fb:19:af	
	Network		>
	Account		>
	Phone		>

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:



PLANET Networking & Communication						English	Log	out (admin) p Online		
ICF-1900	Information	Account	Configurations	Upgrade	Auto Provision	Tools	Reboot Phone]		
System							N	ΟΤΕ		
Network	System Information 🕜							escription:		
incluion k	Model:		ICF-1900				It	shows some basic		
Line	Hardware:		1.0				in	formation of the phone cluding model,		
Line	Software:		2.2.0.87				h	hardware and software version, running time,		
Di	Uptime:		186:47:59				n	etwork status, account		
Phone settings	Last uptime:		00:00:00				re	registration status, etc.		
Phonebook	MEMInfo:		ROM: 3385.7/ 36	524(M) RAM: 501	.8/1959.5(M)					
	Network 🕜									
Call logs	WAN									
	Network mode:		Static IP							
Function Key	MAC:		00:30:4f:fb:19:a	f						
	IPv4									
Application	IP:		192.168.0.1							
	Subnet mask:		255.255.255.0							
Security	Default gateway:		192.168.0.254							
	SIP Accounts 🕜									
Device Log	Line 1	N/A	Inactive							
	Line 2	N/A	Inactive							
	Line 3	N/A	Inactive							

Diagram 6 - Web phone status



7.6 Application Instruction

Table 8 -- Application instruction

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



Clock	Can configure alarm clock, time, stopwatch, countdown Time - supports global time zone selection.
Video	Only supports MP4 format video playback.
Call Log	Access to call records to view all call records. You can also view all incoming calls, outgoing calls and missed calls by using the 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.
	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].

PLANET	_
User: Password: Language:	English V
	Logon

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 <u>11 Web configurations</u>.



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 <u>10.5 wi-fi</u>.

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".



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.

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 <u>10.7.2.1 network Settings</u> 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.

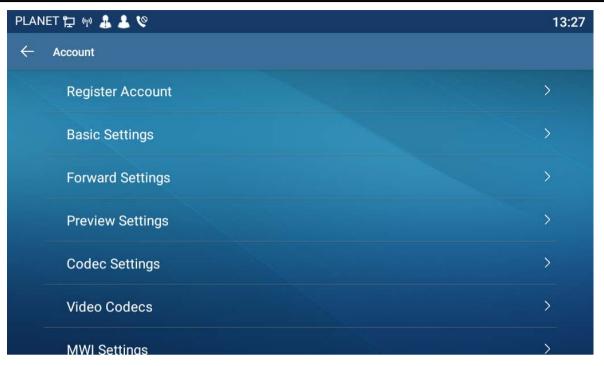
 Phone interface: To manually configure a line, the user can press the line key for a long time, or press the button in the function menu [Phone Settings] >> [Account] >> [Line] configuration; click "OK" to save the configuration.



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:



Networking & Communication				
ICF-1900	SIP	SIP Hotspot Dial Plan	Action Plan Basic Setting	gs
System				
Network	Line PLANET@: V			
	Register Settings >>			
Line	Line Status:	Registered	Activate:	Ø
	Username:	125	Authentication User:	125
Phone settings	Display name:	PLANET 🕜	Authentication Password:	•••••
	Realm:	0	Server Name:	
Phonebook				
	SIP Server 1:		SIP Server 2:	
Call logs	Server Address:	192.168.1.241	Server Address:	
	Server Port:	5060	Server Port:	5060
Function Key	Transport Protocol:	UDP 🗸 🕜	Transport Protocol:	UDP 🗸 🕜
	Registration Expiration:	3600 second(s) 🕐	Registration Expiration:	3600 second(s
Application				
	Proxy Server Address:	0	Backup Proxy Server Address:	
Security	Proxy Server Port:	5060	Backup Proxy Server Port:	5060
	Proxy User:	0		
Device Log	Proxy Password:	0		

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 <u>10.2.1 Local</u> <u>contacts</u>)
- Selecting a phone number from cloud phonebook contacts (Refer to <u>10.2.3</u> <u>Cloud Phone Book</u>)
- Selecting a phone number from call logs (Refer to <u>10.3 Call Log</u>)
- 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.

PLANET 🛱	PLANET 1 40 40 4 4 2 4 13:41								
مە MWI		1208		PLANET@SIP1					
	1	2 авс	3 DEF		SIP2				
Contacts					SIP3				
Call Log	4 _{вні}	5 јк	6 мно		SIP4				
Forward	7 pqrs	8 тич	9 _{wxyz}	4 +	SIP5				
					SIP6				
C Redial	*	0 +	# send	-	+‡ + Unfold				

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.



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.

PLAN	iet 🛱 🌡 👗 😵	15	5:49
←	Video		
	Video Codecs	H264	
	H.264 payload type (96~127)	117	
	Display mosaic frames	•	
	Video Resolution	720P(1280*720)	
	Video Frame Rate	30fps	
	Video Bit Rate	2Mbps	

Picture 18 - Video interface

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



					English	n ✓ 🗌 Logout (adm
PLANET Networking & Communication						Keep Online
ICF-1900	Features Medi	a Settings MCAST	Action Time	e/Date Tone	Advanced	
> System						NOTE
> Network	Basic Settings >> Enable Call Waiting:	☑ Ø	Enable Call Transfer:	20		Description: Function settings, you can
> Line	Semi-Attended Transfer: Enable Auto on Hook:	☑ Ø ☑ Ø	Enable 3-way Confer Auto HangUp Delay:	2		set the phone features, including the basic settings, tone settings, DND settings, intercom
Phone settings	Ring From Headset: Enable Silent Mode:	Disabled 🗸 🕜	Enable Auto Headset			settings, redial settings, the corresponding code settings, password dial settings, power light
> Phonebook	Enable Default Line:	☑ Ø	Enable Auto Switch L	.ine: 🗹 🔞		settings.
› Call logs	Default Ext Line: Default Ans Mode:	SIP1 V Video V	Ban Outgoing: Default Dial Mode:			
› Function Key	Hide DTMF: Enable Restricted Incoming List:	Disabled V	Enable CallLog: Enable Allowed Incor List:	Enable V	0	
> Application	Enable Restricted Outgoing List: Country Code:	☑ 0	Enable Country Code		_	
> Security	Enable Number Privacy: Start Position:	0 0~38	Match Direction Hide Digits:	From left to right	✓ 0~38	
> Device Log	Allow IP Call:	O LocalContact-NetContact-SIP Display	P2P IP Prefix:			
	Caller Name Priority: Search path:	Ø LDAP ✓ Ø	Emergency Call Num LDAP Search: Restrict Active URI S	LDAP 1 🗸 🕜	0	
	Caller Display Type: Enable Pre-Dial:	Display Name Priority V	IP: Enable Multi Line:		0	

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.



				_
		English		(admin
			Keep Online	ne
ICF-1900	Features Media Settings MCAST Action Time/Date Tone	Advanced		
› System			NOTE	
	Basic Settings >>			
> Network	Tone Settings >>		Description: Function settings, you can	
› Line	DND Settings >>	-	set the phone features, including the basic	
/ Eme			settings, tone settings, DND settings, intercom	
Phone settings	Intercom Settings >>		settings, redial settings, the corresponding code	
	Redial Settings >>		settings, password dial settings, power light	
> Phonebook	Enable Call Completion: 🗌 Enable Auto Redial: 🗌 🔗		settings.	
	Auto Redial Interval: 30 (1~180)second(s) Auto Redial Times: 5 (1~100) 🔮			
> Call logs	Redial Enter CallLog:			
	Response Code Settings >>			
› Function Key	Password Dial Settings >>			
> Application	Power LED >>	-		
Application	DssKey Setting >>	-		
> Security				
	Apply			
> Device Log				

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 A indicates that auto answer is enabled.



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PLAN	ET 🔁 🖗 🌡 💄 😵		13:36
←	Basic Settings		
	Enable auto answering		
	Auto answering Delay (0~120)	5	
	Enable hotline		
	Hotline number		
	Hotline delay (0~9)	0	
	Enable missed call log	•	
	Dial without registered		

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.



C	PLANET							
	ICF-1900	SIP	SIP Hotspot	Dial Plan	Action Plan E	Basic Settings		
	System							
	Network	Line SIP1 V						
,	Line	Register Settings >> Basic Settings >>	_					
	Phone settings	Enable Auto Answering: Call Forward Unconditional:			Auto Answering De Call Forward Numb Unconditional:	per for	(0~120)se	cond(s) 🕜
	Phonebook	Call Forward on Busy: Call Forward on No Answer:			Call Forward Numb Busy: Call Forward Numb No Answer:			0 0
	Call logs	Call Forward Delay for N Answer:	lo 5] (0~120)second(s) 🧃	Transfer Timeout:	0	second(s)	0
	Function Key	Conference Type:	Local 🗸 🕜		Server Conference Number:			0
	Application	Subscribe For Voice Message: Voice Message Subscrib]	Voice Message Nur Enable Hotline:	mber:		0
	Security	Period: Hotline Delay:	(60~999999)s	second(s)](0~9)second(s) 🕜	Hotline Number:			0
	Device Log	Dial Without Registered DTMF Type:	- •	0	Enable Missed Call DTMF SIP INFO Mo		v 🕐	
		Request With Port:	Ø	-	Enable DND:			
		Use STUN:			Use VPN:	2 📀		
		Enable Failback: Failback Interval:	✓ ② 1800	second(s) 🕜	Signal Failback: Signal Retry Count		(1~10) 🕜	

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 [\checkmark] button to save.



21976 🐈	2 A	2:04 PM
←	F 8 / Expansion Module 1	
~	Title Title	
Û	Type Key Event	
	Subtype Call Back	

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:

PLANET Vetworking & Communication								
ICF-1900		Function Key	Softkey	Advanced				
› System								
> Network		tion Key Settings Dsskey Transfer Mo	de Make a New Ca	▼ Dssl	key Home Page	e: None 🗸		
> Line	[Page1 Page2	Page3 Page4		Apply		Delete Add M	lew Page
› Phone settings	Key DSS Key	Type	Name	Value	Subtype	Line	Media	PickUp Number
> Phonebook	1 DSS Key 2	Line V			one 🗸			
› Call logs	DSS Key 3	Line 🗸		N	one 🗸	SIP3 V	DEFAULT V	
Function Key	DSS Key 4	Line 🗸		N	one 🗸	SIP4 V	DEFAULT V	
> Application	DSS Key 5	Line		N	one 🗸	SIP5 ¥	DEFAULT V	
> Security	DSS Key 6 DSS	Line 🗸		N	one 🗸	SIP6 ¥	DEFAULT 🗸	
› Device Log	Key 7 DSS	Key Event 🗸		R	edial 🗸	AUTO 🗸	DEFAULT 🗸	
	Key 8 DSS	None 🗸		N	one 🗸	AUTO 🗸	DEFAULT 🗸	
	Key 9	None 🗸		N	one 🗸	AUTO 🗸	DEFAULT 🗸	
	DSS Key	None 🗸		N	one 🗸	AUTO 🗸	DEFAULT 🗸	

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.

21976 🛱 📞 🗛 🌗 2:06 PM 21976@SIP1 SIP2 21975 SIP3 0:11 0 SIP4 SIP5 + 🗘 Conference 🔁 Release Hold -د 2 Transfer New Call **Dial Pad** + Unfold

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: Ψ

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.



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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.
- 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.
- The user will see the DND icon turn red, and the sip-line has enabled the mode of "DND".



125	0		💐 16:59
←	DND		
	DND(Do Not Disturb)mode	Line	
	DND Line		>
	Enable DND timer	•	

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.

125	₽θ		N 16:56
÷	DND		
	DND(Do Not Disturb)mode	Phone	
	Enable DND timer	•	
	DND start time	15:00	
	DND end time	17:30	

Picture 30 - DND timer

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



		101 1/00				
		English 🗴 🖬 Logout (admi				
ICF-1900	Features Media Settings MCAST Action Time/Date Tone	Advanced				
> System		NOTE				
> Network	Basic Settings >> Tone Settings >>	Description: Function settings, you can				
→ Line	DND Settings >> DND Option: Off v	set the phone features, including the basic settings, tone settings, DND settings, intercom				
Phone settings	Enable DND Timer: DND Start Time: 15 V 0 V	settings, redial settings, the corresponding code settings, password dial settings, power light				
> Phonebook	DND End Time: 17 V 30 V	settings.				
> Call logs	Intercom Settings >> Redial Settings >>					
> Function Key	Response Code Settings >>					
> Application	Password Dial Settings >>					
> Security	Power LED >> DosKey Setting >>					
> Device Log	Apply					

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.

ICF-1900	SIP	SIP Hotspot	Dial Plan	Action Plan	Basic Settings		
System			1				,
Network	Line SIP1 v						
Line	Register Settings >> Basic Settings >>						
Phone settings	Enable Auto Answerir Call Forward Unconditional:	ng: 🗌 🕜		Auto Answering Call Forward Nu Unconditional:		(0~120)se	cond(
Phonebook	Call Forward on Busy Call Forward on No Answer:	: 🗆 🕜		Call Forward Nu Busy: Call Forward Nu No Answer:			0 0
Call logs	Call Forward Delay fo Answer:	r No 5	(0~120)second(s)	7 Transfer Timeou	<u> </u>	second(s)	?
Function Key	Conference Type:	Local 🗸 🕜		Server Conferer Number:	ice		?
Application	Subscribe For Voice Message: Voice Message Subsci	- 🥑	٦	Voice Message I	Number:		0
Security	Period: Hotline Delay:	(60~999999) 0	second(s)] (0~9)second(s) 🕜	Enable Hotline: Hotline Number			?
Device Log	Dial Without Register DTMF Type:	RFC2833 ¥	0	Enable Missed O DTMF SIP INFO	•	v 🕜	
	Request With Port: Use STUN:			Enable DND: Use VPN:	0 L		
	Enable Failback:	☑ Ø		Signal Failback:			

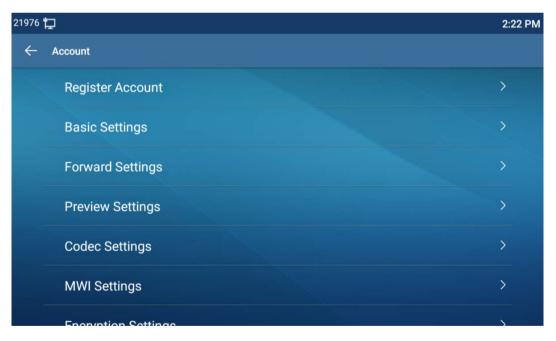


8.12 Call Forward

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,

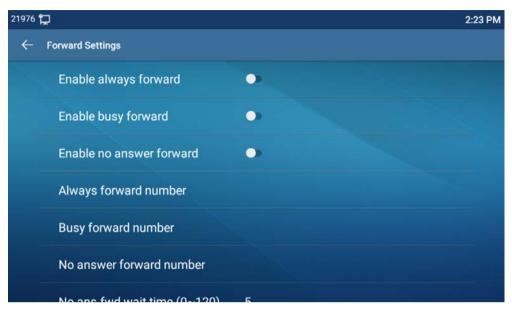
- Unconditional Call Forward Forward any incoming call to the configured number.
- **Call Forward on Busy** When user is busy, the incoming call will be forwarded to the configured number.
- Call Forward on No Answer When user does not answer the incoming call after the configured delay time, the incoming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



ICF-1900	SIP	SIP Hotspot	Dial Plan	Action Plan Basic	: Settings	
System						
Network	Line SIP1 V Register Settings >>					
Line	Basic Settings >>					
Phone settings	Enable Auto Answering: Call Forward Unconditional:			Auto Answering Delay: Call Forward Number fo Unconditional:		(0~120)secor
Phonebook	Call Forward on Busy: Call Forward on No Answer:			Call Forward Number fo Busy: Call Forward Number fo No Answer:		0
Call logs	Call Forward Delay for No Answer:	5	(0~120)second(s)	-	0	second(s) 🕜
Function Key	Conference Type:	Local 🗸 🕜		Server Conference Number:		0
Application	Subscribe For Voice Message:		_	Voice Message Number		0
	Voice Message Subscribe Period:	3600 (60~999999)	second(s)	Enable Hotline:		
Security	Hotline Delay: Dial Without Registered:	0	(0~9)second(s) 🕜	Hotline Number: Enable Missed Call Log	: 🔽 🙆	0
Device Log	DTMF Type:	RFC2833 V	0	DTMF SIP INFO Mode:	. Send 10/11	× 🕜
2	Request With Port:		•	Enable DND:		
	Use STUN:			Use VPN:		

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.

M	
	D
Note	

For more transfer settings, please refer to $\underline{12.5 \text{ Line } > \text{Dial Plan}}_{\circ}$.



8.13.1 Blind transfer

During the call, the user presses the function menu button [**Transfer**] or the transfer button on the phone *f*, 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 *f* to a third party. After the third party rings, the phone will show that the transfer is successful and hang up.



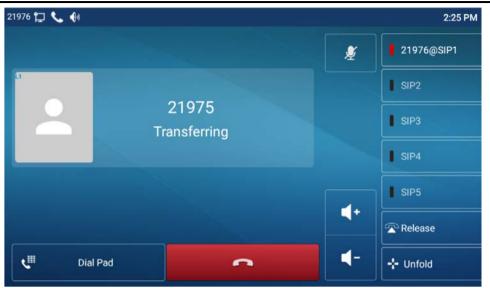
Picture 37 - Transfer interface

8.13.2 Semi-Attended transfer

During the call, the user presses the function menu button [transfer] or the transfer button in 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.



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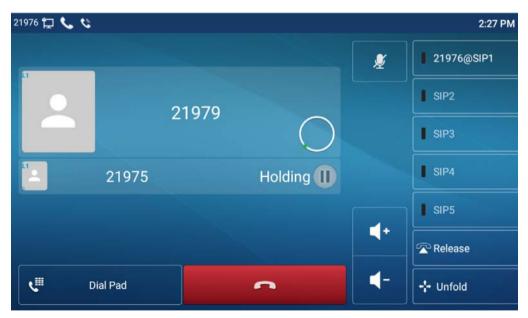


Picture 38 - Semi-Attended transfer

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

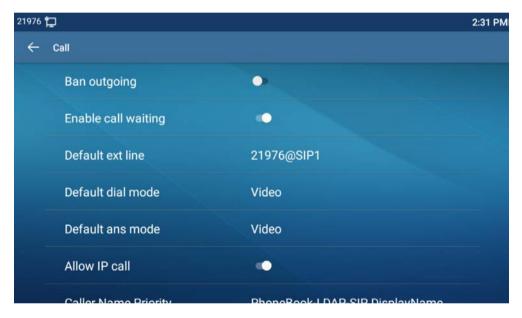
• Enable call waiting: New calls can be accepted during a call.

• 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.



						English	Logout	(adm
() PLANET							Keep Onl	line
ICF-1900	Features Media	a Settings MCAST	Action	Time/Date	Tone	Advanced		
› System							NOTE	
> Network	Basic Settings >> Enable Call Waiting:	2 0	Enable Call	Transfer:	0		Description: Function settings, you can	
> Line	Semi-Attended Transfer: Enable Auto on Hook:	2 @ 2 @	Enable 3-w Auto Hangl	In Delay:	30)second(s)		set the phone features, including the basic settings, tone settings, DND settings, intercom	
Phone settings	Ring From Headset: Enable Silent Mode:	Disabled V	Enable Auto		200/30000000000000000000000000000000000		settings, redial settings, the corresponding code settings, password dial settings, power light	
> Phonebook	Enable Default Line:	☑ 0		_	0		settings.	
› Call logs	Default Ext Line: Default Ans Mode:	SIP1 V Video V	Ban Outgoi Default Dia	Mode: Vid	deo 🗸 🕜			
› Function Key	Hide DTMF: Enable Restricted Incoming List:	Disabled V	Enable Call Enable Allo List:	Log: En wed Incoming	able 🗸	0		
> Application	Enable Restricted Outgoing List: Country Code:	☑ @	Enable Cou Area Code:			_		
> Security	Enable Number Privacy: Start Position:	0	Match Direc 0~38 Hide Digits:		om left to right	✓ 0~38		
› Device Log	Allow IP Call:	☑ @	P2P IP Prefi	x: .				
	Caller Name Priority:	LocalContact-NetContact-SIP E	Emergency	Call Number: 110		0		
	Search path: Caller Display Type:	Display Name Priority	-	h: LD ive URI Source)AP 1 🗸 🕜	0		
	Enable Pre-Dial:	20	Enable Mult	i Line: 🗹	0	_ 1		

Picture 41 - Web call waiting setting

ICF-1900	Features Media Settings MCAST Action Time/Date Tone	Advanced		
iystem		NOTE		
(etwork	Basic Settings >>			
etwork	Tone Settings >>	Function settings, you can		
ine	Enable Holding Tone: 🛛 🖉	set the phone features, including the basic settings, tone settings,		
	Play Dialling DTMF Tone: 🛛 🕐 Play Talking DTMF Tone: 💆 🕜	DND settings, intercom settings, redial settings,		
Phone settings	DND Settings >>	the corresponding code settings, password dial		
honebook	Intercom Settings >>	settings, power light settings.		
	Redial Settings >>	·		
all logs	Response Code Settings >>			
	Password Dial Settings >>			
unction Key	Power LED >>			
pplication	DssKey Setting >>	-		
	Apply			
ecurity				

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:

ICF-1900	SIP	SIP Hotspot Dial Plan	Action Plan Basic S	ettings
› System				
› Network	Line SIP1 V			
> Line	Register Settings >> Basic Settings >>			
› Phone settings	Enable Auto Answering: Call Forward Unconditional:		Auto Answering Delay: Call Forward Number for Unconditional:	5 (0~120)second(s
> Phonebook	Call Forward on Busy: Call Forward on No Answer:		Call Forward Number for Busy: Call Forward Number for No Answer:	@
› Call logs	Call Forward Delay for No Answer:	5 (0~120)second(s)	Transfer Timeout:	0 second(s)
› Function Key	Conference Type:	Local 🗸 🥝	Server Conference Number:	0
> Application	Subscribe For Voice Message:		Voice Message Number:	0
	Voice Message Subscribe Period:	3600 (60~999999)second(s)	Enable Hotline:	
> Security	Hotline Delay:	0 (0~9)second(s) 🕜	Hotline Number:	0
	Dial Without Registered:		Enable Missed Call Log:	2 🕜
> Device Log	DTMF Type:	RFC2833 🗸 🕜	DTMF SIP INFO Mode:	Send 10/11 🗸 🔇
	Request With Port:		Enable DND:	
	Use STUN:		Use VPN:	Ø
	Enable Failback:	☑ 0	Signal Failback:	
	Failback Interval:	1800 second(s) 🕜	Signal Retry Counts:	3 (1~10) 🕜

Picture 43 - Local conference setting

Two ways to create a local conference:

- 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:



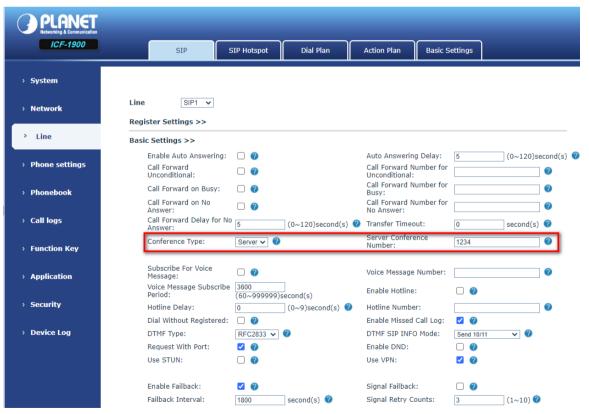
Picture 45 - Local conference (2)

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.

21976 🖞	2		2:37 PM
←	F 8 / Expansion Module 1		
\checkmark	Value		
Û	Title		
	Туре	Memory Key	•
	Subtype	Call Park	-
	Line	SIP3	*
	Media	● Default ○ Audio ○ Video	

Picture 47 - Phone set Call Park



				_				
ICF-1900		Function Key	Softkey	Advanced	ł			
› System								
› Network		on Key Settings sskey Transfer M		Da 🗸 🛛 D	sskey Home Pag	e: None 🗸		
› Line	F	Page1 Page2	Page3 Page4		Apply		Delete Add N	lew Page
› Phone settings	Key DSS Key L	Type	Name	Value	Subtype	Line	Media	PickUp Number
> Phonebook	1 DSS Key L 2	Line 🗸			None 🗸	SIP2 ¥	DEFAULT 🗸	
› Call logs	DSS	Line 🗸			None 🗸	SIP3 ¥	DEFAULT 🗸	
Function Key	4	Line 🗸			None 🗸	SIP4 ¥	DEFAULT 🗸	
› Application	DSS Key L 5 DSS	Line 🗸			None 🗸	SIP5 ¥	DEFAULT 🗸	
> Security	Key L 6 DSS	Line 🗸			None 🗸	SIP6 ¥	DEFAULT 🗸	
> Device Log	Key 7	Memory Key 🗸 🗸			Call Park 🗸	AUTO 🗸	DEFAULT 🗸	

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.



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21976 🛱	ļ	2:38 PM
\leftarrow	F 8 / Expansion Module 1	
~	Value	
Û	Title	
	Туре	Memory Key
	Subtype	BLF/New Call
	Line	21976@SIP1
	Pickup Number	Pickup Number
	Media	$oldsymbol{O}$ Default \bigcirc Audio \bigcirc Video

Picture 49 - Phone pick up setting

ICF-1900								
		Function Key	Softkey	Advan	ced			
System								
	Func	tion Key Setting	5					
Network		Dsskey Transfer M	ode Make a Ne	w Ca 🗸	Dsskey Home P	age: None 🗸		
Line					Apply			
		Page1 Page2	Page3 Page	4			Delete Add I	New Page
Phone settings	Key DSS	Туре	Name	Value	Subtype	Line	Media	PickUp Numbe
	Key 1	Line 🗸			None	V SIP1	V DEFAULT V	
Phonebook	DSS Kev	Line 🗸			None	V SIP2		
	2	Line			None	V 3IF2	V DEFAULT V	
Call logs	DSS Key 3	Line 🗸			None	SIP3	V DEFAULT V	
Function Key	DSS							
	Key 4	Line 🗸			None	V SIP4	V DEFAULT V	
Application	DSS Key 5	Line 🗸			None	SIP5	V DEFAULT V	
	DSS							
Security	Key	Line 🗸			None	SIP6	✓ DEFAULT ✓	

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.

21976 '	2:40 PM		
←	Account		
	Enable session timer	•	
	Session timeout(s)	0	
	SIP Version	RFC 3261	
	Anonymous call edition	None	
	Enable PRACK	•	
	Use tel call	•	
	Caller ID type	PAI-RPID-FROM	

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.



ICF-1900	SIP	SIP Hotspot	Dial Plan	Action Plan Basic S	ettings	
System	Video Codecs >>					
oyocem	Advanced Settings >>					
Network	Use Feature Code:					
	Enable DND:		0	DND Disabled:		
Line	Enable Call Forward Unconditional:		0	Disable Call Forward Unconditional:		
Line	Enable Call Forward on		0	Disable Call Forward on E	ausv:	
hone settings	Busy: Enable Call Forward on			Disable Call Forward on N		
none seeings	No Answer:		0	Answer:		
Phonebook	Enable Blocking Anonymous Call:		0	Disable Blocking Anonym Call:	ous	
Phonebook	Call Waiting On Code:		0	Call Waiting Off Code:		
Call logs	Send Anonymous On Code:		0	Send Anonymous Off Coo	le:	
an iogs	code.					
- Function Key	Enable Session Timer:			Session Timeout:	0 sec	cond(s)
unction key	Enable BLF List:			BLF List Number:		
	Response Single Codec:			BLF Server:		
Application	Keep Alive Type:	UDP 🗸 🌔	0	Keep Alive Interval:	30 sec	cond(s)
	Keep Authentication:			Blocking Anonymous Call	: 🛛 🕜	
ecurity	RTP Encryption(SRTP):	Disabled 🗸	2			
evice Log	User Agent:		0	Specific Server Type:	COMMON V	
	SIP Version:	RFC3261 🗸 🥝	-	Anonymous Call Standard	÷	
	Local Port:	5060	0	Ring Type:	None	-
	Enable user=phone:		•	Use Tel Call:	RFC3323 RFC3325	
	Auto TCP:			Enable PRACK:	11 03323	

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.

21976	Þ		2:46 PM
←	Account		
	Keep Alive Type	UDP	
	Keep Alive Interval (1~65535)	30s	
	Local port (1~65535)	5060	
	Enable Rport	•	
	Ring Type	Default	
	Ban anonymous call	•	
	Epoblo RI E list		

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.



ICF-1900	SIP	SIP Hotspot	Dial Plan	Action Plan Basic S	Settings
› System	Advanced Settings >>				
	Use Feature Code:				
Network	Enable DND:		0	DND Disabled:	
	Enable Call Forward		0	Disable Call Forward	
› Line	Unconditional: Enable Call Forward on			Unconditional:	
Line	Busy:		0	Disable Call Forward on B	
Phone settings	Enable Call Forward on No Answer:		0	Disable Call Forward on 1 Answer:	No
Phone settings	Enable Blocking		0	Disable Blocking Anonym	ious
	Anonymous Call: Call Waiting On Code:		0	Call: Call Waiting Off Code:	
Phonebook	Send Anonymous On			-	
	Code:		0	Send Anonymous Off Co	de:
Call logs					
	Enable Session Timer:			Session Timeout:	0 second(s)
Function Key	Enable BLF List:			BLF List Number:	
	Response Single Codec:			BLF Server:	
Application	Keep Alive Type:	UDP 🗸	0	Keep Alive Interval:	30 second(s)
	Keep Authentication:			Blocking Anonymous Call	I: 🗹 🕜
Security	RTP Encryption(SRTP):	Disabled 🗸	0	-	
Device Log	User Agent:		3	Specific Server Type:	COMMON 🗸 🔇
bence Log	SIP Version:	RFC3261 🗸	2	Anonymous Call Standar	d: None 🗸 🕜
	Local Port:	5060	0	Ring Type:	Default
	Enable user=phone:			Use Tel Call:	
	Auto TCP:			Enable PRACK:	
	Enable Rport:				

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.



21976	to			2:47 PM
←	Basic Settings			
	Enable auto answering	•		
	Auto answering Delay (0~120)	5		
	Enable hotline	•		
	Hotline number			
	Warn line wait time (0~9)	0		ولد
	Enable missed call log	•		
	Dial without registered			

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.

ICF-1900	SIP	SIP Hotspot	Dial Plan	Action Plan Basic S	ettings
› System					
> Network	Line SIP1 🗸				
	Register Settings >>				
> Line	Basic Settings >>				
	Enable Auto Answering:			Auto Answering Delay:	5 (0~120)second(s) 🕜
› Phone settings	Call Forward Unconditional:			Call Forward Number for Unconditional:	
> Phonebook	Call Forward on Busy:			Call Forward Number for Busy:	2
FILINEDUCK	Call Forward on No Answer:			Call Forward Number for No Answer:	
› Call logs	Call Forward Delay for N Answer:	lo 5 (0~120)second(s) 🕜	Transfer Timeout:	0 second(s) 🥝
› Function Key	Conference Type:	Local 🗸 🕜		Server Conference Number:	0
> Application	Subscribe For Voice Message:			Voice Message Number:	
	Voice Message Subscrib Period:	e 3600 (60~999999)sec	cond(s)	Enable Hotline:	
> Security	Hotline Delay:	0 (0~9)second(s) 🕜	Hotline Number:	
	Dial Without Registered	: 🗌 🕜		Enable Missed Call Log:	2 (?)
> Device Log	DTMF Type:	RFC2833 🗸 🕜	F	DTMF SIP INFO Mode:	Send 10/11 🗸 🕜
	Request With Port:			Enable DND:	
	Use STUN:			Use VPN:	
	Enable Failback:	2 (2)		Signal Failback:	
	Failback Interval:	1800 s	econd(s) 🕜	Signal Retry Counts:	3 (1~10) 🕜

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.

					<u> </u>			
ICF-1900		Function Key	Softkey	Advance	đ			
System								
Network		tion Key Settings Dsskey Transfer Mo	de Make a New C	Di V	sskey Home Pag	e: None 🗸		
Line		Page1 Page2	Page3 Page4		Apply		Delete Add M	New Page
Phone settings	Key	Туре	Name	Value	Subtype	Line	Media	PickUp Numbe
Filone seconds	DSS Key	Line 🗸			None 🗸	SIP1 V	DEFAULT V	
Phonebook	1 DSS Key	Line V			None V			
Call logs	2 DSS Key	Line V			None 🗸	SIP3 V	DEFAULT V	
Function Key	3 DSS Key	Line 🗸			None 🗸	SIP4 ¥	DEFAULT V	
Application	4 DSS Key 5	Line 🗸			None 🗸	SIP5 ¥	DEFAULT ¥	
Security	DSS Key 6	Line 🗸			None 🗸	SIP6 V	DEFAULT 🗸	
Device Log	DSS Key 7	Memory Key 🗸			BLF/NEW CALI ✔	SIP1 ¥	DEFAULT 🗸	
	DSS Key 8	None			None 🗸	AUTO 🗸	DEFAULT 🗸	
	DSS Key 9	None 🗸			None 🗸	AUTO 🗸	DEFAULT V	

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.



21976 🛱	7		2:38 PM
÷	F 8 / Expansion Module 1		
~	Value		
Û	Title		
	Туре	Memory Key	
	Subtype	BLF/New Call	•
	Line	21976@SIP1	
	Pickup Number	Pickup Number	
	Media	● Default ○ Audio ○ Video	

Picture 59 - Phone configuration BLF function key

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

Table 10 -	BLF Function	key subtype	parameter list
10000 10	201 1 11111111	mey succype	



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 <u>Appendix III 6.3</u> 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 <u>Table 9.1.1-blf function key</u> 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 <u>Appendix III 6.3 BLF LED</u> 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.

ICF-1900	SIP	SIP Hotspot	Dial Plan	Action Plan Basic Setting	gs
› System	Advanced Settings >>				
	Use Feature Code:				
> Network	Enable DND:		0	DND Disabled:	(2)
	Enable Call Forward Unconditional:		0	Disable Call Forward Unconditional:	0
> Line	Enable Call Forward on Busy:		0	Disable Call Forward on Busy:	0
	Enable Call Forward on No Answer:		0	Disable Call Forward on No Answer:	0
› Phone settings	Enable Blocking Anonymous Call:		0	Disable Blocking Anonymous Call:	Ø
	Call Waiting On Code:		0	Call Waiting Off Code:	0
> Phonebook	Send Anonymous On Code:		0	Send Anonymous Off Code:	
> Call logs					
Cull logs	Enable Session Timer:			Session Timeout:	0 second(s) 🕜
› Function Key	Enable BLF List:			BLF List Number:	0
> Function Key	Response Single Codec:			BLF Server:	0
	Keep Alive Type:	UDP 🗸	0	Keep Alive Interval:	30 second(s) 🕐
Application	Keep Authentication:			Blocking Anonymous Call:	
	RTP Encryption(SRTP):	Disabled V	?		
> Security					
	User Agent:		0	Specific Server Type:	COMMON 🗸 🕜
> Device Log	SIP Version:	RFC3261 🗸	2	Anonymous Call Standard:	None 🗸 🕜
	Local Port:	5060	0	Ring Type:	Default 🗸
	Enable user=phone:			Use Tel Call:	
	Auto TCP:			Enable PRACK:	
	Enable Rport:				

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.



ICF-1900	Function Key	Softkey	Advanced			
› System						
› Network	Function Key Setting Dsskey Transfer M		Dsskey Home Pag Apply	ge: None 🗸		
› Line	Page1 Page2	Page3 Page4	(App)		Delete Add N	ew Page
› Phone settings	Key Type DSS	Name	Value Subtype	Line	Media	PickUp Number
> Phonebook	Key Line V 1 DSS Key Line V		None V		DEFAULT V	
› Call logs	2 DSS Key Line V		None V		DEFAULT V	
Function Key	3 DSS Key Line V 4		None 🗸	SIP4 ¥	DEFAULT 🗸	
Application	DSS Key 5		None 🗸	SIP5 ¥	DEFAULT 🗸	
› Security	DSS Key Line 🗸		None 🗸	SIP6 V	DEFAULT 🗸	
› Device Log	DSS Key 7		Redial 🗸	AUTO 🗸	DEFAULT 🗸	
	DSS Key None V 8 DSS		None 🗸	AUTO 🗸	DEFAULT 🗸	
	Key None V		None 🗸	AUTO 🗸	DEFAULT V	

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:

m				NOTE
łk	Record Setting Enable Record:			Description:
	Record Type: Local Voice Codec: PCMU V	v		Record Setting, set record config: recording file list
settings		Apply		
book	Recording List			
NG5	Index	File Name	File Size	
on Key				
lication				





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:



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ICF-1900	Doorphone Settings	Manage Recording			
stem					NOTE
twork	Record Setting Enable Record:	2	_		Description: Record Setting, set
e	Record Type: Voice Codec: Server Address:	[PCMU V] [0.0.0.0	Server Part:	10000	Record Setting, set record config; recording file list
one settings	30110 A001033.	Appl		10000	
onebook	Recording List				
l logs	Inc	lex	File Name	File Size	
iction Key					Delete
pplication					

Picture 63 - Web server recording

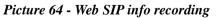


Please refer to the documentation for specific usage: **Call Recording Configuration and Use Description.**

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.

			Eng	ish 🗸 🗌	Logout	(admin)
PLANET Networking & Communication					Keep Onlin	e
ICF-1900						
	Doorphone Settings Manage Recording					
› System				NOTE		
› Network	Record Setting					
> Network	Enable Record:			Description: Record Setting record config;	, set	
> Line	Record Type: Sip Info	$\overline{}$		record config; file list	recording	
		Apply				
> Phone settings		rupiy				
	Recording List					
> Phonebook	Index	File Name	File Size			
			Delete			
> Call logs						
› Function Key						
Application						
Application						
> Security						
› Device Log						



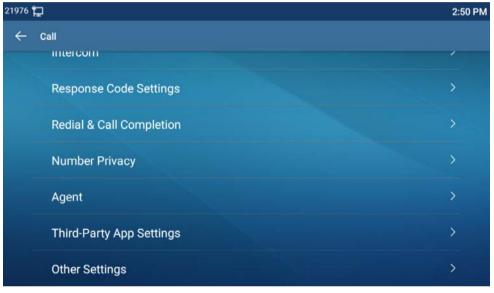


9.4 Agent

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

21976 🕇	Ð.	2:5	51 PM
÷	Agent		
1	Туре	Hotel Guest	
	Number		
	User		
	Password		
	Line		
		Logon	

Picture 66 - Configure the proxy account-hotel Guest mode Table 11 - Agency mode

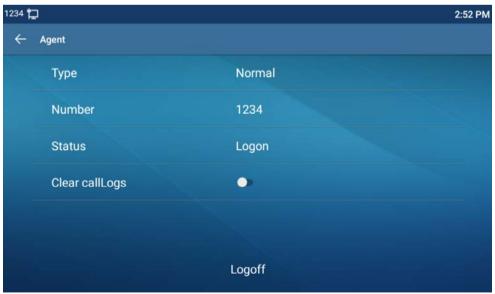


High Definition Touch Color Screen Smart Media Android SIP Conference Phone ICF-1900

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
Sidius	status is: login, logout, invalid, valid, SMS.

Using agent functions:

- 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.

0.01.0110						English	- Logout	(admin)
PLANET							🔲 Keep Onli	18
ICF-1900	Features Medi	a Settings MCA	ST Action	Time/Date	Tone	Advanced	ן	
> System						N	DTE	
> Network	Basic Settings >>						escription:	
7 REWORK	Tone Settings >>					Fu	nction settings, you can t the phone features,	
> Line	DND Settings >>					inc	cluding the basic ttings, tone settings,	
> Phone settings	Intercom Settings >>					se	ND settings, intercom ttings, redial settings,	
 Phone settings 	Enable Intercom:	0	Enable Interco	im Mute:		SE	e corresponding code ttings, password dial	
> Phonebook	Enable Intercom Tone:	•	Enable Interco	m Barge:		se	ttings, power light ttings.	
	Redial Settings >>							
 Call logs 	Response Code Settings >>							
> Function Key	Password Dial Settings >>							
10071190410201	Power LED >>							
Application	DssKey Setting >>							
› Security			Apply					
> Device Log								

Picture 68 - Web Intercom configure

Table 12 - Intercom configure

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

ICF-1900	Features	Media Settings	MCAST	Action	Time/Date	Tone A	dvanced	
rstem				50) 		99400 	N	οτε
etwork	MCAST Listening							
etwork	Priority:		1	~				escription: et the multicast address,
	Enable Page Priority:						ar	nd multicast priority.
ine	Enable Prio Chan:		0					
	Enable Emer Chan:		0					
Phone settings	Index/Priority	Na	ime		Host:port	Channel		
a na san a san	1					0	Y	
honebook	2					2	~	
MIR.19	3					and the second se	×	
all logs	4					1.7	v	
	5						~	
unction Key	6						Y	
-	7						~	
pplication	8						~	
	9					Sec.	~	
ecurity	10					0	¥	
			Apply					
evice Log	MCAST Dynamic							
	Auto Exit Expires:		60					

Picture 69 - Multicast Settings Page

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)



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.

PLANET Heterothing & Communication ICF-19900	SIP	SIP Hotspot Dial Plan	Action Plan Basic Settir	ngs
› System				
› Network	Line SIP1 v Register Settings >>			The user name adn password of the primary account created
> Line	Line Status:	Inactive Created SCA accounts	Activate:	☑ ②
› Phone settings	Username: Display name: Realm:		Authentication User: Authentication Password: Server Name:	0
> Phonebook	SIP Server 1:	Broadsoft Server address	SIP Server 2:	
> Call logs	Server Address:	0	Server Address:	
› Function Key	Server Port: Transport Protocol: Registration Expiration:	5060 0 UDP v 0 3600 second(s) 0	Server Port: Transport Protocol: Registration Expiration:	5060 2 UDP V 2 3600 second(s) 2
> Application				
	Proxy Server Address:		Backup Proxy Server Address	
> Security	Proxy Server Port: Proxy User:	5060	Backup Proxy Server Port:	5060
› Device Log	Proxy Password:			

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.



ICF-1900	SIP	SIP Hotspot	Dial Plan	Action Plan Basic Setti	ngs
System	Advanced Settings >>				
-,	Use Feature Code:				
Network	Enable DND:		0	DND Disabled:	
NCCWORK .	Enable Call Forward Unconditional:		0	Disable Call Forward Unconditional:	
Line	Enable Call Forward on Busy:		0	Disable Call Forward on Busy	:
	Enable Call Forward on No Answer:		0	Disable Call Forward on No Answer:	
Phone settings	Enable Blocking		0	Disable Blocking Anonymous	
	Anonymous Call:			Call:	
Phonebook	Call Waiting On Code: Send Anonymous On		0	Call Waiting Off Code:	
	Code:		0	Send Anonymous Off Code:	
Call logs					
	Enable Session Timer:			Session Timeout:	0 second(s)
Function Key	Enable BLF List:			BLF List Number:	
	Response Single Codec:			BLF Server:	
Application	Keep Alive Type:	UDP 🗸 🄇	2	Keep Alive Interval:	30 second(s)
Application	Keep Authentication:			Blocking Anonymous Call:	
Security	RTP Encryption(SRTP):	Disabled 🗸	0		
	User Agent:		0	Specific Server Type:	BroadSoft 🗸 🕜
Device Log	SIP Version:	RFC3261 🗸 🕜	÷	Anonymous Call Standard:	None V
	Local Port:	5060	0	Ring Type:	Default
	Enable user=phone:			Use Tel Call:	
	Auto TCP:			Enable PRACK:	
	Enable Rport:				_ _

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.



ICF-1900	SIP	SIP Hotspot Dial Plan	Action Plan Basic Settin	ıgs
System	DNS Mode:	A 🗸 🖉	Enable Long Contact:	
	Enable Strict Proxy:	2	Convert URI:	
Network	Use Quote in Display Name:		Enable GRUU:	
	Sync Clock Time:		Enable Use Inactive Hold:	
Line	Caller ID Header:	PAI-RPID-F 🗸 🔇	Use 182 Response for Call waiting:	
	Enable Feature Sync:		Enable SCA:	
Phone settings	TLS Version:	TLS 1.2 🗸 🕜	uaCSTA Number:	
	Enable Preview:		Preview Mode:	Preview2xx 🗸
Phonebook	Enable Click To Talk:		Enable ChangePort:	
	VQ Name:		VQ Server:	
Call logs	VQ Server Port:	5060	VQ Http/Https server:	
2	Flash Mode:	Normal 🗸	Flash Info Content-Type:	
Function Key	Flash Info Content-Body:		Server Expire:	
runction key	Unregister On Boot:		Enable MAC Header:	
Application	Enable Register MAC Header:		BLF Dialog Strict Match:	
	PTime(ms):	Disabled 🗸	Enable Deal 180:	<
Security	Transaction Timer T1:	500 (500~10000)millisecond @	Transaction Timer T2:	4000 (2000~40000)millisecor
Device Log	Transaction Timer T4:	5000 (2500~60000)millisecond 🕜		
	CallPark Number:	()	PickUp Number:	
	JoinCall Number:		Intercom Number:	
	Retrieve Number:			

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 <u>6.3 Appendix III –LED</u>. 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.



ICF-1900		Function Key	Softkey	Advanced				
System								
Network		tion Key Setting Dsskey Transfer N			Home Page: No	ne 🗸		
Line		Page1 Page2	Page3 Page4	Ap	bly		Delete Ad	d New Page
Phone settings	Key DSS	Туре	Name		ubtype	Line	Media	PickUp Numbe
Phonebook	Key 1 DSS Key	Line V		None	V SIP1			
Call logs	2 DSS Key 3	Line V		None	V SIP3	*	DEFAULT	/
Function Key	DSS Key 4	Line V		None	✓ SIP4	*	DEFAULT	/
Application	DSS Key 5	Line 🗸		None	✓ SIP5	*	DEFAULT	/
Security	DSS Key 6	Line 🗸		None	✓ SIP6	~	DEFAULT	/
Device Log	DSS Key 7 DSS	Key Event 🗸		Privat	e Hold 🗸 AUTO) v	DEFAULT	/
	Key 8	None 🗸		None	✓ AUTO	v	DEFAULT	/
	DSS Key 9	None 🗸		None	✓ AUTO) v	DEFAULT	/

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.

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

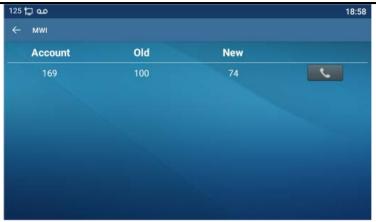
To listen to a voice message, the user must first configure the voicemail number. After the voicemail number is configured, the user can retrieve the voicemail of the default line.

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



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Picture 76 - Voice message interface

Fanvil 📜	مە (10:39 AM
←	MWI Settings		
	Enable Subscribe	•	
	MWI Number		
	Subscribe Period (60~999999)	3600s	

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.



System Line Iteleventk Line Iteleventk Register Settings >> Line Status: Registered Activate: 2 0 Phone settings Line Status: Registered Authentication User: 125 Phone settings Display name: 125 0 Authentication Password:	ICF-1900	SIP	SIP Hotspot Di	al Plan	Action Plan Basic S	ettings	
Network Register Settings >> P Line Line Status: Registered Activate: Image: Constraint of the setting of the set of the setting of the set of	System						
Line Line Status: Registered Activate: Image: Constraint of the status of the s	Network	Line 125@SIP1 V					
Phone settings Username: 125 image: im		Register Settings >>					
Phone settings Display name: 125 image: Authentication Password: Realm: image: Server Name: Phonebook StIP Server 1: StIP Server 2: Call logs Server Address: 192.168.1241 Server Port: 5060 Server Port: Soft Transport Protocol: UDP v @ Registration Second(s) Registration: Application Proxy Server Address: image: Server Address:	Line	Line Status:	Registered		Activate:	☑ (2)	
Realm: Realm: Server Name: Phonebook SIP Server 1: SIP Server 2: Server Address: Server Port: Server Port: S		Username:	125	0	Authentication User:	125	٦
Phonebook SIP Server 1: SIP Server 2: Call logs Server Address: Server Address: Server Port: 5000 Server Port: Function Key Transport Protocol: UDP v @ Registration Expiration: 3800 second(s) Proxy Server Address: @ Backup Proxy Server Address:	Phone settings	Display name:	125	0	Authentication Password:		٦
SIP Server 1: SIP Server 2: Call logs Server Address: 192.168.1.241 Server Address: Server Port: 5060 Server Port: 5060 Function Key Transport Protocol: UDP • • Transport Protocol: UDP • • Application Proxy Server Address: • Backup Proxy Server Address: •		Realm:		0	Server Name:		
Call logs Server Address: 192.168.1.241 Server Address: Server Port: 5060 Server Port: 5060 Function Key Transport Protocol: UDP • Transport Protocol: UDP • Application Proxy Server Address: 3600 second(s) Registration Expiration: 3600	Phonebook						
Function Key Server Port: 5000 Function Key Transport Protocol: UDP v @ Registration Expiration: 3600 second(s) Proxy Server Address: @ Backup Proxy Server Address:		SIP Server 1:			SIP Server 2:		
Function Key Server Port: 5060 Server Port: 5060 Transport Protocol: UDP v ? Transport Protocol: UDP v ? Application Proxy Server Address: ? Backup Proxy Server Address:	Call logs	Server Address:	192 168 1 241	0	Server Address:		
Function Key Transport Protocol: UDP v ? Transport Protocol: UDP v ? Application Registration Expiration: 3800 second(s) ? Registration Expiration: 3800 second(s) Proxy Server Address: ? Backup Proxy Server Address: ? Backup Proxy Server Address:				-		5060	۲
Application Proxy Server Address: Backup Proxy Server Address: Backup Proxy Server Address:	Function Key	Transport Protocol:		-	Transport Protocol:		_
Proxy Server Address: Backup Proxy Server Address:		Registration Expiration:	3600 second	d(s) 🕜	Registration Expiration:	3600 second(s)
	Application						
Security Proxy Server Port: 5060 Ø Backup Proxy Server Port: 5060		Proxy Server Address:		0	Backup Proxy Server Add	ress:	
	Security	Proxy Server Port:	5060	0	Backup Proxy Server Port	: 5060	٦
	Device Log	Proxy Password:		0			

Picture 78 - Register SIP account

Parameters	Description
	If your phone is set to "SIP hotspot server", Device Table will display as Client
Device Table	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
Monitor Address	same.
Remote Port	Type the Remote port number.



Configure SIP hotspot server:

PLANET				English V Logout (adr Keep Online
ICF-1900	SIP SIP Hotspot	Dial Plan Action Plan	n Basic Settings	
› System				NOTE
> Network	Client Table			Description:
Network	IP MAC	Alias	Line	Hotspot feature settings.
> Line	SIP Hotspot Settings			Hot client as the extension of a hot server
	Enable Hotspot:	Enabled V		end to connect to the hot server side, When the
> Phone settings	Mode:	Hotspot 🗸		server side has an incoming call, the client
	Monitor Type:	Broadcast V		will ring at the same time, and can replace server to
> Phonebook	Monitor Address:	224.0.2.0		answer. The server and the client can use the hot
	Local Port:	16360		Or cornet to call each other.
› Call logs	Name:	SIP Hotspot		0
	Line Settings			
> Function Key	Line 1:	Enabled V		
	Line 2:	Enabled V		
Application	Line 3:	Enabled V		
	Line 4:	Enabled V		
> Security	Line 5:	Enabled V		
	Line 6:	Enabled V		
> Device Log	Line 7:	Enabled ¥		
	Line 8:	Enabled 🗸		
	Line 9:	Enabled 🗸		
	Line 10:	Enabled 🗸		

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.

ICF-1900	SIP	SIP Hotspot	Dial Plan	Action Plan	Basic Settings	
› System						
	Client Table					
> Network	IP	MAC	Alia	S	Line	
> Line	SIP Hotspot Setting	S				
	Enable Hotspot:		Enabled V			0
> Phone settings	Mode:		Hotspot 🗸			0
	Monitor Type:		Broadcast 🗸			0
> Phonebook	Monitor Address	:	224.0.2.0			0
	Local Port:		16360			0
› Call logs	Name:		SIP Hotspot			Ø
	Line Settings					
Function Key	Line 1:		Enabled V			
	Line 2:		Enabled V			
Application	Line 3:		Enabled V			
	Line 4:		Enabled V			
> Security	Line 5:		Enabled V			
	Line 6:		Enabled V			
> Device Log	Line 7:		Enabled V			
	Line 8:		Enabled V			
	Line 9:		Enabled V			
	Line 10:		Enabled V			

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.

106 🔁 🌡 💄 😢	18:58
← Language preferences	
English (United States)	
Afrikaans	
Català	
Čeština	
Dansk	
Deutsch	
English (Australia)	

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:

ICF-1900	Information	Account	Configurations	Upgrade	Auto Provision	Tools	Rebco Hallano Nederlands	
System							Deutsch Français ກຳລຸມ Español	
Network	System Information 🚱						Català Euskera	v:
HICKNORK.	Model:		ICF-1900				Galego Escañol(Latin)	ne basic
Line	Hardware:		1.0				0+15 08	of the phone, odel,
Lunc .	Software:		2.2.0.87				Slovenian	id software ning time.
	Uptime:		187 ; 31 : 38				한국어	tus, account
Phone settings	Last uptime:		00:00:00				Українська	status, etc.
Phonebook	MEMInfo:		ROM: 3385.7/ 36	24(M) RAM: 49	6.4/1959.5(M)			
FINITERAN	Network @							
Call logs	WAN							
	Network mode:		Static IP					
Function Key	MAC:		00:30:4f:fb:19:af					
	IPv4							
Application	IP:		192.168.1.190					
	Subnet mask:		255.255.255.0					
Security	Default gateway:		192.168.1.254					
B	SIP Accounts							
Device Log	Line 1	125@192.1	68.1.241:5060 Register	ed				
	Line 2	N/A	Inactive					
	Line 3	N/A	Inactive					
	Line 4	N/A	Inactive					
	Line 5	N/A	Inactive					
	Line 6	N/A	Inactive					

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:

PLAN	IET 🛱 🎽 🖗 🤱 😫 😢		13:56
←	Date & Time		
	SNTP		>
	Date & Time		>
	DST		>

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:

PLANET						Englist	h 💙 🗖 Logout	(admi ine
ICF-1900	Features Media Set	tings MCAST	Action	Time/Date	Tone	Advanced		
› System						1	NOTE	
> Network	Network Time Server Settings						Description:	
Contraction of the second	Time Synchronized via SNTP					0	Time and date settings, you can set the time	
> Line	Time Synchronized via DHCP Primary Time Server	0.pool.ntp.org				0	through the network time server, or manually set	
	Secondary Time Server	time nist opv				0	the time, select the time zone and date format.	
Phone settings	Time zone	(UTC+8) Beijing Sing	apore, Perth, Irkuts 🗸			0	zone and date format.	
	Resync Period	60	second(s)			0		
> Phonebook	Time/Date Format							
3.355	12-hour clock	0						
Call logs	Time/Date Format	DD MMM WW	V 7 OCT WED					
> Function Key								
Application	Daylight Saving Time Settings							
	Location	None	~					
> Security	DST Set Type	Disabled	~					
		Apply						
> Device Log	Manual Time Settings					_		
	2020-10-7	v 55 v	5	Apply				

Picture 84 - Set time & date on webpage



Parameters	Description						
Mode	Auto/Manual						
	Auto: Enable network time synchronization via SNTP protocol,						
	default enabled.						
	Manual: User can modify data manually.						
SNTP Server	SNTP server address						
Time zone	Select the time zone						
	Select time format from one of the following dates:						
	■ 1 JAN, MON						
	1 January, Monday						
	■ JAN 1, MON						
	■ January 1, Monday						
	■ MON, 1 JAN						
	Monday, 1 January						
Time format	MON, JAN 1						
	Monday, January 1						
	DD-MM-YY						
	DD-MM-YYYY						
	MM-DD-YY						
	MM-DD-YYYY						
	■ YY-MM-DD						
	■ YYYY-MM-DD						
Separator	Choose the separator between year and month and day						
12-Hour Clock	Display the clock in 12-hour format						
Daylight Savings Time	Enable or Disable the Daylight Savings Time						

Table 16 - Time Settings Parameters



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.

Display Brightness level	۹
Brightness level	
84%	
Adaptive brightness Optimize brightness level for available light	
Wallpaper	
Sleep Never	
 Advanced Font size, Display size, Screen saver, Device theme 	

Picture 85 - Set screen parameters on phone

10.1.3.1 Brightness and backlight

Phone interface:

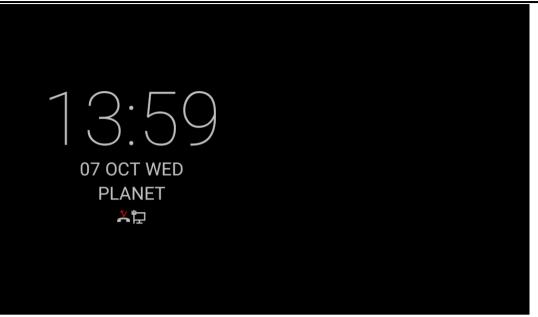
1) in standby mode, slide from the top edge of the screen to enter the status bar;Sliding down again makes it easy to set the brightness of the device.

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.

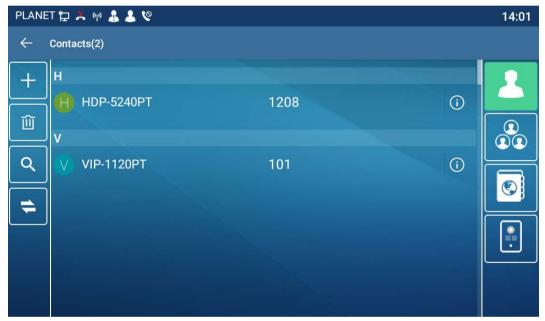


10.2 Phone book 10.2.1 Local contact

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

PLAN	ET 🐈	į 🗶 (er) 🧘	1	Ş														14:01
←	Crea	ate con	tact																
		N	ame	Nar	ne														
×		Mob	ile -	Pho	one r	numb	er					Lir	ne Au	uto		•			
		G	roup	Gro	nın r	name													
							Sugg	est c	ontact	name	es? To	uch fo	r info.						Ŷ
Q	1	W	2	E		R	4	Т	5	Y	6	U	7	Ι	8	0	9	P	×
	А		S		D		F		G		Н		J		Κ		L		\triangleright
		Ζ		Х		С		V		В		Ν		Μ		ļ		?	
?123	}	,																	٢

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**].

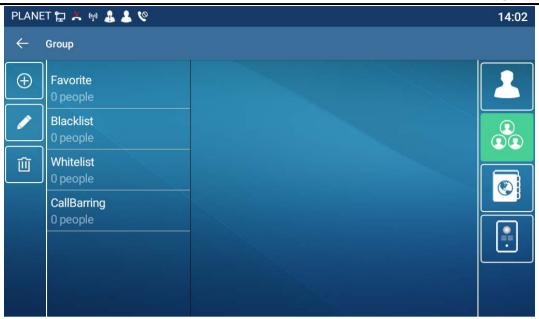
10.2.1.2 Add / Edit / Delete Group

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.



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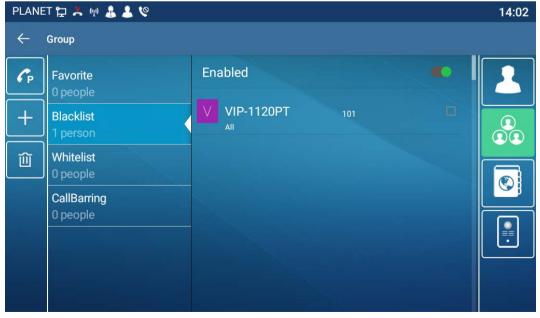


Picture 89 - Group List

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.

PLANET					English 👻 🗖 Logout (
ICF-1900	Contacts Cloud j	ohonebook Call List Web D	ial Advanced		
System					NOTE
Network	Restricted Incoming Calls		Add	Delete All	Description: List of incoming and
Line	0	Caller Number 101		Line	outgoing control rights: blacklist. whitelist, restricted call list.
Phone settings	Allowed Incoming Calls		()(_)(
Phonebook		Caller Number	Line	Delete Delete All WhiteList Type	
Call logs	Restricted Outgoing Calls		Add	Delete Delete All	
Function Key		Caller Number		Line	
Application					
Security					

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.



> Device Log

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.



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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.

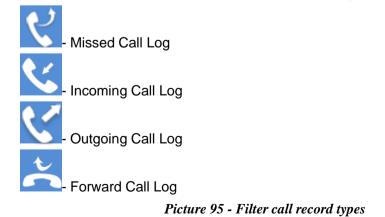
Each call log record is presented with 'call type' and 'call party number / name'. User can check further call log detail by pressing [Info] icon and dial the number with pressing the call log, or add the call log number to phonebook with pressing [Info] lcon >> [Add to Contact].

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.





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.

012 🖵		3:02	2 PM
\leftarrow	F 5 / Expansion Module 1		
	Value		
创	Title		
	Туре	Memory Key	
	Subtype	BLF/New Call	
	Line	012@SIP1	
	Pickup Number	Pickup Number	
	Media	$oldsymbol{O}$ Default \bigcirc Audio \bigcirc Video	

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.



User-defined title is up to 10 characters.

More detailed information refers to <u>12.23 Function Key</u> and <u>6.3 Appendix III - LED</u> <u>Definition</u>.

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.





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12 + 2 2 9					17:27
8			23	<u>7</u>	F
BluetoothSpeaker	Browser	Calculator	Calendar	Call Log	CleanMaster
			DND	食	4 0
Clock	Contacts	Dieler PL	ANET	Email	Explorer
		Network	ing & Com		
Files	Gallery	Music	MWI	Notepad	Phone Settings
کې			0		
PLANET CloudVi	Settings	SMS	Sound Recorder	Video	
			•		

	NET 🔁 🕪 🌲 😫 🧐	14:05
٩	Search settings	
	cure your phone screen lock to protect tablet	×
\bigcirc	Network & internet Wi-Fi, data usage, hotspot	
	Connected devices Bluetooth	
	Apps & notifications Permissions, default apps	
0	Display Wallpaper, sleep, font size	
d	Sound	



106 🛱	₽ & 	\$ ♡ 19:08
÷	Wi-Fi	۹
	Use Wi-Fi	-
•	7210E-1	
•	7210E-2	Ê
•	750E-1	
•	750E-2	â
•	PLANET_2.4G	
•	PLANET_5G	
•	WLAN_2.4G_EF22	
	105.2.40	A



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.

OLONICT							English	Logout
Networking & Communication								Keep Online
ICF-1900	Features Medi	a Settings	MCAST	Action	Time/Date	Tone	Advanced	
/stem							N	ЮТЕ
	Basic Settings >>							
etwork	Enable Call Waiting:	Ø		Enable Call	Transfer:	Ø		Description: Function settings, you can
	Semi-Attended Transfer:			Enable 3-wa	y Conference:	v 0	s	et the phone features,
ne	Enable Auto on Hook:			Auto Hanall	Deless	3	s	ncluding the basic ettings, tone settings,
			_	Auto HangU		(0~30)second(s) 🕜		OND settings, intercom ettings, redial settings,
Phone settings	Ring From Headset:	Disabled 🗸 🌘		Enable Auto	Headset:		t	he corresponding code
	Enable Silent Mode:		_				S	ettings, password dial ettings, power light
ionebook							s	ettings.
	Enable Default Line:	☑ Ø		Enable Auto		2 🕜		
ill logs	Default Ext Line:	PLANET@SIP1 V	/ 🕜	Ban Outgoin	-			
	Default Ans Mode:	Video 🗸 🕜		Default Dial		Video 🗸 🕜		
inction Key	Hide DTMF:	Disabled 🗸 🔮		Enable CallL	-	Enable V	0	
-	Enable Restricted Incoming List:			Enable Allow List:	ed Incoming			
pplication	Enable Restricted Outgoing List:	Ø		Enable Coun	try Code:			
	Country Code:			Area Code:				
curity	Enable Number Privacy:			Match Direct	ion	From left to right	~	
	Start Position:	0	0~38	Hide Digits:		0	0~38	
evice Log								
	Allow IP Call:	20		P2P IP Prefix				
	Caller Name Priority:	LocalContact-NetC	Contact-SIP DisplayNar	ne 🗸 Emergency (Call Number:	110	0	
	Search path:	LDAP	× (?)	LDAP Search	c.	LDAP 1 🗸 🕜		

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.

106 🕇	₽ ♣ ♣ ♥	∦ 19:07
←	Bluetooth	۹
	On	•
	Device name ICF-1900	
+	Pair new device	
Ū	When Bluetooth is turned on, your device can communicate with other nearby Bluetooth devices.	

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.





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.

10.7Advanced10.7.1Line Configurations

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

012 🔁	W		* 3:12 PM
÷	Register Account		
	Register Status	Success	
	Enable Registration	•	Sec.
	Server Address	172.16.1.2	
	Server Port	5060	
	Authentication User		
	Authentication Password		
	SID Llear	012	

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.

2 🧌		* 3:37 PM
Ethernet		
Network mode	DHCP	
Obtain DNS server automatically	•	
Enable vendor identifier	•	
Vendor identifier		
	Save	

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.

	* 3:38 PN
Static IP	
192.168.1.179	
255.255.255.0	
192.168.1.1	
8.8.8	
	192.168.1.179 255.255.255.0 192.168.1.1 8.8.8.8

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.

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			

Table 17 - QoS & VLAN



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].

~						English	✓ □ Lo	gout	(admir
							🗖 Kee	ep Onlin	ie
	ICF-1900	Information Account Cor	nfigurations Upgr	ade Auto Provision	Tools	Reboot Phone]		
,	> System					NO	DTE		
	Network	Basic Settings					scription:		
	Network	CPE Serial Number:	00100400FV02001	0000000304ffb19af	0	Au	to Provisioning is u	sed	
	Line	Authentication Name:	admin		0	rer	realize note/automatically		
		Authentication Password:			0	del	tallation and poyment configura	tion	
	Phone settings	Configuration File Encryption Key: General Configuration File Encryption Key:			0	an file	d some other relate	d	
		Download Fail Check Times:	5		U U				
	Phonebook	Update Contact Interval:	720	(0,>=5)minute(s)	0				
		Save Auto Provision Information:			0				
	Call logs	Download CommonConfig enabled:	~						
		Enable Server Digest:			0				
	Function Key	Display Provision Prompt:	Disable All Provision	Prompt 🗸					
		DHCP Option >>							
	Application	SIP Plug and Play (PnP) >>				_			
	Security	Static Provisioning Server >>				_			
		Autoprovision Now >>				_			
	Device Log					_			
		TR069 >>							
		Ap	oply						

Picture 106 - Page auto provision Settings

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

012 🔁	N	* 3:58	PM
←	Auto Provision		
	User		
	Password		
	Common config encryption key		
	Config encryption key		
	Update Contact Interval (0,>=5)	720minute(s)	
	DHCP option settings	DHCP option 66	

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



Parameters	Description			
Basic settings	•			
CPE Serial Number	Display the device SN			
Authentication Name	The user name of provision server			
Authentication Password	The password of provision server			
Configuration File	If the device configuration file is encrypted , user should add			
Encryption Key	the encryption key here			
General Configuration File	If the common configuration file is encrypted, user should add			
Encryption Key	the encryption key here			
Download Fail Check	If there download is failed, phone will retry with the configured			
Times	times.			
Update Contact Interval	Phone will update the phonebook with the configured interval			
	time. If it is 0, the feature is disabled.			
Save Auto Provision	Save the HTTP/HTTPS/FTP user name and password. If the			
Information	provision URL is kept, the information will be kept.			
Download Common	Whether phone will download the common configuration file.			
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				
	Configure DHCP option, DHCP option supports DHCP custom			
Option Value	option DHCP option 66 DHCP option 43, 3 methods to get			
	the provision URL. The default is Option 66.			
Custom Option 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)				
	Whether enable PnP or not. If PnP is enable, phone will send			
Enable SIP PnP	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	the URL. Broadcast address. As default, it is 224.0.0.0.			
Server Address Server Port				



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Update Interval	PnP message interval.			
Static Provisioning Server				
0	Provisioning server address. Support both IP address and			
Server Address	domain address.			
	The configuration file name. If it is empty, phone will request			
	the common file and device file which is named as its MAC			
Configuration File Name	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 \rightarrow supports FTP、TFTP、HTTP and			
	HTTPS			
Update Interval	Configuration file update interval time. As default it is 1, means			
	phone will check the update every 1 hour.			
	Provision Mode.			
Update Mode	1. Disabled.			
Opuale Mode	2. Update after reboot.			
	3. Update after interval.			
TR069				
Enable TR069	Enable TR069 after selection			
ACS Server Type	There are 2 options Serve type, common and CTC.			
ACS Server URL	ACS server address			
ACS User	ACS server username (up to is 59 character)			
ACS Password	ACS server password (up to is 59 character)			
Enable TR069 Warning	If TR069 is enabled, there will be a prompt tone when			
Tone	connecting.			
TLS Version	TLS version (TLS 1.0, TLS 1.1, TLS 1.2)			
INFORM Sending Period	INFORM signal interval time. It ranges from 1s to 999s			
STUN Server Address	Configure STUN server address			
STUN Enable	To enable STUN server for TR069			



10.7.5 Firmware Upgrade

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

CF-1900	Informat	tion Account	Configurations		uto Provision	Tools	Reboot Phon	
	Informa	non Account	Configurations	Upgrade A	uto Provision	loois	Keboot Phon	
em								NOTE
rk	Software Upgrad	de 🕐						
		Current Software Versio	on: 2.2.0.87					Description: This page is used to
		System Image File:	į.	S	elect	Upgrade		upgrade some files for phone, including firmware, ring tones, wall
	Ring Upgrade 🕜							paper, etc.
settings		Load Server File:		3	elect (*	wav) Upload]	
book	Ring List @							
1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 -	King List	Index ID	1	File Name		File Size		
15							Delete	
n Key		1.000 March 1				1000		
	Background Upg	rade 🥹						
ation		Load Server File:		Select] (".bmp ".pn	g ".jpg ".jpeg)	Upload	
v	Background List	0						
		Index ID		File Name		File Size		

Picture 108 - Web page firmware upgrade

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

21976 🖵		4:44 PM
← Upgrade		
Enable Auto Upgrade		
Auto Upgrade Interval(h)	24	Sec. 1
Firmware Information		
Current Firmware Version	T0.7.0	
Server Firmware Version	Check failed	
	Check	
		للمحصب

Picture 109 - Firmware upgrade information display



 Table 19 - Firmware upgrade

Parameter	Description			
Upgrade server				
	Enable automatic upgrade, If there is a new version txt			
Enable Auto Upgrade	and new software firmware on the server, phone will			
	show a prompt upgrade message after Update Interval.			
Upgrade Server Address1	Set available upgrade server address.			
Upgrade Server Address 2	Set available upgrade server address.			
Update Interval	Set Update Interval.			
Firmware Information				
Current Software Version	It will show Current Software Version.			
Server Firmware Version	It will show Server Firmware Version.			
	If there is a new version txt and new software firmware			
[] Ingrada] buttan	on the server, the page will display version information			
[Upgrade] button	and upgrade button will become available; Click			
	[Upgrade] button to upgrade the new firmware.			
New version description	When there is a corresponding TXT file and version on			
	the server side, the TXT and version information will be			
information	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 <u>13 Trouble Shooting</u> 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.

PLANET Retworking & Communication ICF-1900	Basic	Service Port	VPN	DDNS	Advanced	
› System						
> Network	Service Port Settings Web Server Type:	T	TTP V			Ø
› Line	Web Logon Timeout: web auto login:	1	5	(10~30)Minute		0
› Phone settings	HTTP Port: HTTPS Port:	8	D 43			0 0
> Phonebook	RTP Port Range Start: RTP Port Quantity :	2	0000	(1025~65530) (10~1000)		0 0
› Call logs				Apply		
› Function Key						
> Application						
› Security						
› Device Log						

Picture 112 - Service Port Settings

Parameter	Description
Web Server Turpe	Reboot to take effect after settings. Optionally, the web page
Web Server Type	login is HTTP/HTTPS.
Mah Logon Timoout	Default as 15 minutes, the timeout will automatically exit the
Web Logon Timeout	login page, need to login again.
Web auto login	After the timeout does not need to enter a user name password,
Web auto login	will automatically login to the web page.
	The default is 80. If you want system security, you can set ports
HTTP Port	other than 80.
	Such as :8080, webpage login: HTTP://ip:8080
HTTPS Port	The default is 443, the same as the HTTP port.
	The value range is 1025 to 65535. The value of RTP port starts
RTP Port Range Start	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 <u>10.7 advanced</u> Settings.

12.3 Line >> SIP

Configure the Line service configuration on this page.

Table 21 - Line	configuration	on the web page
14010 21 - Line	conjiguration	on me web page

Parameters	Description		
Register Settings			
	Display the current line status at page loading. To		
Line Status	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		
Authentication User	account		
Display Name	Enter the display name to be sent in a call request.		
Authentication Password	Enter the authentication password of the service		
Authentication Password	account		
Realm	Enter the SIP domain if requested by the service		
Realm	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		
	Set up the SIP transport line using TCP or UDP or		
Transport Protocol	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		
	Set up the SIP transport line using TCP or UDP or		
Transport Protocol	TLS.		
	Set SIP expiration date.		
Registration Expiration	Set SIP expiration date.		
	Enter the IP or FQDN address of the SIP proxy		
Registration Expiration SIP Proxy Server Address			



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	ICF-1900
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
Backup Floxy Server Address	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
	Enable unconditional call forward, all incoming
Call Forward Unconditional	calls will be forwarded to the number specified in
	the next field
Call Forward Number for Unconditional	Set the number of unconditional call forward
	Enable call forward on busy, when the phone is
Call Forward on Busy	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 .
	Enable call forward on no answer, when an
Call Forward on No Answer	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.
	Set the type of call conference, Local=set up call
Conference Type	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
	Enable the device to subscribe a voice message
Subscribe For Voice Message	waiting notification, if enabled, the device will
<u>-</u>	receive notification from the server if there is voice
	message waiting on the server
Voice Message Number	Set the number for retrieving voice message



	ICF-1900		
Voice Message Subscribe Period	Set the interval of voice message notification subscription		
	Enable hotline configuration, the device will dial to		
Enable Hotline	the specific number immediately at audio channel		
	opened by off-hook handset or turn on hands-free		
	speaker or headphone		
	Set the delay for hotline before the system		
Hotline Delay	automatically dialed it		
Hotline Number	Set the hotline dialing number		
Dial Without Registered	Set call out by proxy without registration		
	If enabled, the phone will save missed calls into the		
Enable Missed Call Log	call history record.		
DTMF Type	Set the DTMF type to be used for the line		
	Set the SIP INFO mode to send '*' and '#' or '10'		
DTMF SIP INFO Mode	and '11'		
	Enable Do-not-disturb, any incoming call to this		
Enable DND	line will be rejected automatically		
	Enable the device to subscribe a voice message		
	waiting notification, if enabled, the device will		
Subscribe For Voice Message	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		
	Whether to switch to the primary server when it is		
Enable Failback	available.		
	A Register message is used to periodically detect		
Failback Interval	the time interval for the availability of the main		
	Proxy.		
	Multiple proxy cases, whether to allow the		
Signal Failback	invite/register request to also execute failback.		
	The number of attempts that the SIP Request		
Signal Retry Counts	considers proxy unavailable under multiple proxy		
	scenarios.		
	Set the priority and availability of the codecs by		
Codecs Settings	adding or remove them from the list.		
Video Codecs	Select video code to preview video.		



	ICF-1900	
Advanced Settings		
	When this setting is enabled, the features in this	
	section will not be handled by the device itself but	
	by the server instead. In order to control the	
Use Feature Code	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	
SID Enervetion	Enable SIP encryption such that SIP transmission	
SIP Encryption	will be encrypted	
PTD Enonyption	Enable RTP encryption such that RTP	
RTP Encryption	transmission will be encrypted	
	Set the line to enable call ending by session timer	
Enable Session Timer	refreshment. The call session will be ended if there	
	is not new session timer event update received	
	after the timeout period	
Session Timeout	Set the session timer timeout period	
Enable BLF List	Enable/Disable BLF List	
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	



	<i>ICF-1900</i>	
	The registered server will receive the subscription	
BLF Server	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	
	Allow more parameters in contact field per RFC	
Enable Long Contact	3840	
	Enables the use of strict routing. When the phone	
Enable Strict Proxy	receives packets from the server, it will use the	
	source IP address, not the address in via field.	
Convert LIPI	Convert not digit and alphabet characters to %hh	
Convert URI	hex code	
	Whether to add quote in display name, i.e.	
Use Quote in Display Name	"PLANET" vs PLANET	
Enable GRUU	Support Globally Routable User-Agent URI	
	(GRUU)	



High Definition Touch Color Screen Smart Media Android SIP Conference Phone ICF-1900_

	101-1900
Sync Clock Time	Time Sync with server
	With the post-call hold capture package enabled,
Enable Inactive Hold	you can see that in the INVITE package, SDP is
	inactive.
Caller ID Header	Set the Caller ID Header
Line 192 Despense for Call writing	Set the device to use 182 response code at call
Use 182 Response for Call waiting	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
Enable Click to talk	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.
	Whether to open the registration of SIP package
Enable MAC Header	with user agent with MAC or not.
	Whether to open the registration is user agent with
Enable Register MAC Header	MAC or not.
	Whether to enable accurate matching of BLF
BLF Dialog Strict Match	sessions.
PTime(ms)	Set whether to bring ptime field, default no.
	1



High Definition Touch Color Screen Smart Media Android SIP Conference Phone ICF-1900

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

ICF-1900		SIP	SIP Hotspot	Dial Plan	Action Plan	Basic Settings	
› System							
› Network	Basic Setting	15					
	✓	Press #	to invoke dialing				0
> Line		Dial Fixe	d Length 11	to S	end		0
< Line	 ✓ 	Send aft	er 10	second(s)(3~30)		0
		Press #	to Do Blind Transfe	r			?
> Phone settings		Blind Tra	nsfer on Onhook				0
		Attended	d Transfer on Onhoo	ok			0
> Phonebook		Attended	d Transfer on Confe	rence Onhook			0
		Enable E	.164				0
› Call logs				Appl	у		

Picture 113 - Dial plan settings

Parameters	Description
	The user dials the other party's number and then
Press # to invoke dialing	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
	The user enters the number to be transferred
Press # to Do Blind Transfer	and then presses the "#" key to transfer the
	current call to a third party
	After the user enters the number, hang up the
Blind Transfer on Onhook	handle or turn off the hands-free function to
	transfer the current call to a third party.

Table 22 - Phone 7 dialing methods



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

Add dialing rules:

> OLONICT		English 🗸 🗖 Logout (admir
PLANET		E Keep Online
ICF-1900	SIP SIP Hotspot Dial Plan Action Plan Basic Settings	
System	Press # to invoke dialing	Rule number, the user can
System	Dial Fixed Length 11 to Send	achieve the desired dialing effect by opening /
Network	Send after 10 second(s)(3~30)	Closing the existing rule or by privile a sustain
HELWORK	Press # to Do Blind Transfer	dialing rule.
Line	Blind Transfer on Onbook	0
Line	Attended Transfer on Onhook	0
22	Attended Transfer on Conference Onhook	0
Phone settings	Enable E.164	0
2 2 2	Apply	
Phonebook	Dial Plan Add	
	Digit Map:	
Call logs	Match to Match to Match to Match	
	Apply to Call: Outgoing Call V 🔮 Send: No V 🔮 Media: Default V	•
Function Key	Line: SIP DIALPEER V 🖉 Destination:	
	Phone Phone	
Application	Alias(Optional): No Alias V V Number:	
	Suffix:	
Security	Add	
Device Log	Dial Plan Option 🕜	
	Delete Modify	
	User-defined Dial Plan Table 🔞	
	Index Digit Map Call Match to Send Line Allas Type:Number(length) Suf	ffix Media

Picture 114 - Custom setting of dial - up rules

Table 23 - Dial	up rule	configuration	table
-----------------	---------	---------------	-------

Parameters	Description		
	There are two types of matching: Full Matching or Prefix Matching. In Full		
	matching, the entire phone number is entered and then mapped per the		
Dial rule	Dial Peer rules.		
Dial Tule	In prefix matching, only part of the number is entered followed by T. The		
mapping with then take place whenever these digits are dialed. P			
	mode supports a maximum of 30 digits.		
Note: Two diffe	Note: Two different special characters are used.		
 x Matches any single digit that is dialed. 			
■ [] Specit	■ [] 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 del		
Allas	optional item.	
Note: There are	e four types of aliases.	
■ 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.		
Characters to be added at the end of the phone number. It is an option		
Suffix item.		
Set the number of characters to be deleted. For example, if this is set to		
Length 3, the phone will delete the first 3 digits of the phone number. It is		
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.

		English 🗸 🗌 Logout (admin)
		Keep Online
ICF-1900	SIP SIP Hotspot Dial Plan Action Plan Basic Settings	
› System	□ Press ≠ to Do Blind Transfer Ø □ Blind Transfer on Onhook Ø □ Attended Transfer on Onhook Ø	dialing rule.
> Network	Attended Transfer on Conference Onhook Attended Transfer on Conference Onhook Enable E.164 Ø	
> Line	Apply	
> Phone settings	Dial Plan Add Digit Map:	
> Phonebook	Apply to Call: Outgoing Call V V Match to Send: No V Media: Default V V	
› Call logs	Line: SIP DIALPEER V Ø Destination: Ø Port: Ø Alias(Optional): No Alias V Ø Phone Number: Ø Length: Ø	
› Function Key	Suffix: O	
> Application	Dial Plan Option 🕖	
> Security	123 V Delete Modify	
> Device Log	User-defined Dial Plan Table Index Digit Map Call Match to Send Line Alias Type:Number(length) Suffix Media 1 "123" Out No SIP DIALPEER(192.168.1.241:5060) Defa	

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.



ICF-1900	SIP SIP Hotspot Dial Plan Action Plan Basic Settings
› System	Press # to Do Blind Transfer Image: Organization of the second
> Network	Attended Transfer on Conference Onhook
> Line	Enable E.164
> Phone settings	Dial Plan Add Digit Map:
> Phonebook	Apply to Call: Outgoing Call 🗸 😢 Match to Send: No 🗸 🥝 Media: Default 🗸 🥝
› Call logs	Line: SIP DIALPEER V V Destination: V Port: V Alias(Optional): No Alias V V Phone Number: V Length: 0
› Function Key	Suffix: 2
Application	Dial Plan Option 🍘
› Security	123 V Delete Modify
> Device Log	User-defined Dial Plan Table Output Alias Type:Number(length) Suffix Media 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).

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

12.7 Line >> Basic Settings

Set up the register global configuration.

Parameters	Description
STUN Settings	
Server Address	Set the STUN server address
Server Port	Set the STUN server port, default is 3478
	Set the STUN binding period which can be used to keep the NAT
Binding Period	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 this setting to allow user to take second	
Enable Call Waiting	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	
	Specify Auto Onhook time, the phone will hang up	
Auto Onhook Time	and return to the idle automatically after Auto Hand	
Auto Onnook nine	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	
King for headset	plays ring tone from handset.	
	Enable this feature, headset plugged in the phone,	
Auto Headset	user press 'answer' key or line key to answer a call	
	with the headset automatically.	
	When enabled, the phone is muted, there is no	
Enable Silent Mode	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	
Enable Auto Switch Line	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.	

Table 26 - General function Settings



High Definition Touch Color Screen Smart Media Android SIP Conference Phone ICF-1900

Enable Restricted Outgoing ListWhether to enable the restricted allocation list.Enable Country CodeWhether the country code is enabled.Country CodeFill in the country code.Area CodeFill in the area code.Enable Number PrivacyWhether to enable number privacy.Match DirectionMatching direction, there are two kinds of rules from right to left and from left to right.Start PositionOpen number privacy after the start of the hidden location.Hide DigitsTurn on number privacy to hide the number of digits.Allow IP CallIf enabled, user can dial out with IP addressP2P IP PrefixPrefix a point-to-point IP call.Caller Name PriorityChange caller ID display priority.Emergency Call NumberSelect the search path.LDAP SearchSelect from with one LDAP for searchRestrict Active URI Source IPSet the device to accept Active URI command from specific IP address. More details please refer to this inkPush XML ServerConfigure 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-DialIf enabled, up to 10 simultaneous calls can exist on the phone, and if disabled, up to 2 simultaneous can exist on the phone.Line Display FormatCustor line format: SIPn/SIPn: xxx/xx@SIPnLine Display FormatCustor line format: SIPn/SIPn: xxx/xx@SIPnSource As White List TypeNONE/BOTH/DND White List/FWD White ListBlock XML When CallDisable XML push on call.		ICF-1900
Country CodeFill in the country code.Area CodeFill in the area code.Enable Number PrivacyWhether to enable number privacy.Match DirectionMatching direction, there are two kinds of rules from right to left and from left to right.Start PositionOpen number privacy after the start of the hidden location.Hide DigitsTurn on number privacy to hide the number of digits.Allow IP CallIf enabled, user can dial out with IP addressP2P IP PrefixPrefix a point-to-point IP call.Caller Name PriorityChange caller ID display priority.Emergency Call NumberSelect the search path.LDAP SearchSelect from with one LDAP for searchEmergency Call NumberConfigure the Emergency Call Number. Despite the keyboard is locked, you can dial the emergency call numberRestrict Active URI Source IPSet the device to accept Active URI command from specific IP address. More details please refer to this linkPush XML ServerDisable this feature, user enter number will open audio channel automatically. Enable Pre-DialEnable Pre-DialIf enabled, up to 10 simultaneous calls can exist on the specified server or not.Line Display FormatCustom line format: SIPn/SIPn: xxx/xxx@SIPn Contact As White List TypeNONE/BOTH/DND White List/FWD White List	Enable Restricted Outgoing List	
Area CodeFill in the area code.Enable Number PrivacyWhether to enable number privacy.Match DirectionMatching direction, there are two kinds of rules from right to left and from left to right.Start PositionOpen number privacy after the start of the hidden location.Hide DigitsTurn on number privacy to hide the number of digits.Allow IP CallIf enabled, user can dial out with IP addressP2P IP PrefixPrefix a point-to-point IP call.Caller Name PriorityChange caller ID display priority.Emergency Call NumberSelect the search path.LDAP SearchSelect from with one LDAP for searchEmergency Call NumberSelect from with one LDAP for searchEmergency Call NumberSelect from with one certain the emergency call numberRestrict Active URI Source IPSet the device to accept Active URI command from specific IP address. More details please refer to this linkPush XML ServerConfigure 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-DialIf 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 FormatCustom line format: SIPn/SIPn: xxx/xxx@SIPn Contact As White List TypeNONE/BOTH/DND White List/FWD White List	Enable Country Code	Whether the country code is enabled.
Enable Number PrivacyWhether to enable number privacy.Match DirectionMatching direction, there are two kinds of rules from right to left and from left to right.Start PositionOpen number privacy after the start of the hidden location.Hide DigitsTurn on number privacy to hide the number of digits.Allow IP CallIf enabled, user can dial out with IP addressP2P IP PrefixPrefix a point-to-point IP call.Caller Name PriorityChange caller ID display priority.Emergency Call NumberSelect the search path.LDAP SearchSelect from with one LDAP for searchLDAP SearchSelect from with one LDAP for searchLDAP SearchSelect from with one LDAP for searchRestrict Active URI Source IPSet the device to accept Active URI command from specific IP address. More details please refer to this linkPush XML ServerDisable this feature, user enter number will open audio channel automatically. Enable Pre-DialEnable Pre-DialIf 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 FormatCustom line format: SIPn/SIPn: xxx/xxx@SIPnContact As White List TypeNONE/BOTH/DND White List/FWD White List	Country Code	Fill in the country code.
Match DirectionMatching direction, there are two kinds of rules from right to left and from left to right.Start PositionOpen number privacy after the start of the hidden location.Hide DigitsTurm on number privacy to hide the number of digits.Allow IP CallIf enabled, user can dial out with IP addressP2P IP PrefixPrefix a point-to-point IP call.Caller Name PriorityChange caller ID display priority.Emergency Call NumberSelect the search path.LDAP SearchSelect from with one LDAP for searchLDAP SearchSelect from with one LDAP for searchConfigure the Emergency Call Number.Configure the Emergency Call Number. Despite the keyboard is locked, you can dial the emergency call numberRestrict Active URI Source IPSet the device to accept Active URI command from specific IP address. More details please refer to this linkPush XML ServerConfigure 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-DialDisable this feature, user enter number will open audio channel.Enable Multi LineIf 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 FormatCustom line format: SIPn/SIPn: xxx/xxx@SIPnContact As White List TypeNONE/BOTH/DND White List/FWD White List	Area Code	Fill in the area code.
Match Directionright to left and from left to right.Start PositionOpen number privacy after the start of the hidden location.Hide DigitsTurn on number privacy to hide the number of digits.Allow IP CallIf enabled, user can dial out with IP addressP2P IP PrefixPrefix a point-to-point IP call.Caller Name PriorityChange caller ID display priority.Emergency Call NumberSelect the search path.LDAP SearchSelect from with one LDAP for searchLDAP SearchSelect from with one LDAP for searchEmergency Call NumberConfigure the Emergency Call Number. Despite the keyboard is locked, you can dial the emergency call numberRestrict Active URI Source IPSet the device to accept Active URI command from specific IP address. More details please refer to this linkPush XML ServerDisable this feature, user enter number will open audio channel automatically. Enable Pre-DialEnable Pre-DialIf 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 FormatCustom line format: SIPn/SIPn; xxx/xxx@SIPn Contact As White List Type	Enable Number Privacy	Whether to enable number privacy.
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Start PositionIccation.Hide DigitsTurn on number privacy to hide the number of digits.Allow IP CallIf enabled, user can dial out with IP addressP2P IP PrefixPrefix a point-to-point IP call.Caller Name PriorityChange caller ID display priority.Emergency Call NumberSelect the search path.LDAP SearchSelect from with one LDAP for searchEmergency Call NumberConfigure the Emergency Call Number. Despite the keyboard is locked, you can dial the emergency call numberRestrict Active URI Source IPSet the device to accept Active URI command from specific IP address. More details please refer to this linkPush XML ServerConfigure 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-DialIf 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 FormatCustom line format: SIPn/SIPn: xxx/xxx@SIPnContact As White List TypeNONE/BOTH/DND White List/FWD White List		right to left and from left to right.
Iocation.Hide DigitsTurn on number privacy to hide the number of digits.Allow IP CallIf enabled, user can dial out with IP addressP2P IP PrefixPrefix a point-to-point IP call.Caller Name PriorityChange caller ID display priority.Emergency Call NumberSelect the search path.LDAP SearchSelect from with one LDAP for searchLDAP SearchSelect from with one LDAP for searchEmergency Call NumberConfigure the Emergency Call Number. Despite the keyboard is locked, you can dial the emergency call numberRestrict Active URI Source IPSet the device to accept Active URI command from specific IP address. More details please refer to this linkPush XML ServerConfigure 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-DialIf 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 FormatCustom line format: SIPn/SIPn: xxx/xxx@SIPnContact As White List TypeNONE/BOTH/DND White List/FWD White List	Start Position	Open number privacy after the start of the hidden
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P2P IP PrefixPrefix a point-to-point IP call.Caller Name PriorityChange caller ID display priority.Emergency Call NumberSelect the search path.Search pathSelect from with one LDAP for searchLDAP SearchSelect from with one LDAP for searchEmergency Call NumberConfigure the Emergency Call Number. Despite the keyboard is locked, you can dial the emergency call numberEmergency Call NumberSet the device to accept Active URI command from specific IP address. More details please refer to this linkPush XML ServerConfigure 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-DialDisable this feature, user enter number will open audio channel automatically. Enable the feature, user enter the number without opening audio channel.Enable Multi LineIf 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 FormatCustom line format: SIPn/SIPn: xxx/xxx@SIPnContact As White List TypeNONE/BOTH/DND White List/FWD White List	Hide Digits	Turn on number privacy to hide the number of digits.
Caller Name PriorityChange caller ID display priority.Emergency Call NumberSearch pathSelect the search path.LDAP SearchSelect from with one LDAP for searchEmergency Call NumberConfigure the Emergency Call Number. Despite the keyboard is locked, you can dial the emergency call numberEmergency Call NumberSet the device to accept Active URI command from specific IP address. More details please refer to this linkPush XML ServerConfigure 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-DialDisable this feature, user enter number will open audio channel automatically. Enable the feature, user enter the number without opening audio channel.Enable Multi LineIf 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 FormatCustom line format: SIPn/SIPn: xxx/xxx@SIPn NONE/BOTH/DND White List/FWD White List	Allow IP Call	If enabled, user can dial out with IP address
Emergency Call NumberSearch pathSelect the search path.LDAP SearchSelect from with one LDAP for searchLDAP SearchConfigure the Emergency Call Number. Despite the keyboard is locked, you can dial the emergency call numberRestrict Active URI Source IPSet the device to accept Active URI command from specific IP address. More details please refer to this linkPush XML ServerConfigure 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-DialDisable this feature, user enter number will open audio channel automatically. Enable the feature, user enter the number without opening audio channel.Enable Multi LineIf 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 FormatCustom line format: SIPn/SIPn: xxx/xxx@SIPn Contact As White List Type	P2P IP Prefix	Prefix a point-to-point IP call.
Search pathSelect the search path.LDAP SearchSelect from with one LDAP for searchEmergency Call NumberConfigure the Emergency Call Number. Despite the keyboard is locked, you can dial the emergency call numberRestrict Active URI Source IPSet the device to accept Active URI command from specific IP address. More details please refer to this linkPush XML ServerConfigure 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-DialDisable this feature, user enter number will open audio channel automatically. Enable the feature, user enter the number without opening audio channel.Enable Multi LineIf enabled, up to 10 simultaneous calls can exist on the phone.Line Display FormatCustom line format: SIPn/SIPn: xxx/xxx@SIPnContact As White List TypeNONE/BOTH/DND White List/FWD White List	Caller Name Priority	Change caller ID display priority.
LDAP SearchSelect from with one LDAP for searchEmergency Call NumberConfigure the Emergency Call Number. Despite the keyboard is locked, you can dial the emergency call numberRestrict Active URI Source IPSet the device to accept Active URI command from specific IP address. More details please refer to this linkPush XML ServerConfigure 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-DialDisable this feature, user enter number will open audio channel automatically. Enable the feature, user enter the number without opening audio channel.Enable Multi LineIf 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 FormatCustom line format: SIPn/SIPn: xxx/xxx@SIPn NONE/BOTH/DND White List/FWD White List	Emergency Call Number	
Emergency Call NumberConfigure the Emergency Call Number. Despite the keyboard is locked, you can dial the emergency call numberRestrict Active URI Source IPSet the device to accept Active URI command from specific IP address. More details please refer to this linkPush XML ServerConfigure 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-DialDisable this feature, user enter number will open audio channel automatically. Enable the feature, user enter the number without opening audio channel.Enable Multi LineIf 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 FormatCustom line format: SIPn/SIPn: xxx/xxx@SIPnContact As White List TypeNONE/BOTH/DND White List/FWD White List	Search path	Select the search path.
Emergency Call Numberkeyboard is locked, you can dial the emergency call numberRestrict Active URI Source IPSet the device to accept Active URI command from specific IP address. More details please refer to this linkPush XML ServerConfigure 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-DialDisable this feature, user enter number will open audio channel automatically. Enable the feature, user enter the number without opening audio channel.Enable Multi LineIf 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 FormatCustom line format: SIPn/SIPn: xxx/xxx@SIPnContact As White List TypeNONE/BOTH/DND White List/FWD White List	LDAP Search	Select from with one LDAP for search
numberRestrict Active URI Source IPSet the device to accept Active URI command from specific IP address. More details please refer to this linkPush XML ServerConfigure 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-DialDisable this feature, user enter number will open audio channel automatically. Enable the feature, user enter the number without opening audio channel.Enable Multi LineIf 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 FormatCustom line format: SIPn/SIPn: xxx/xxx@SIPnContact As White List TypeNONE/BOTH/DND White List/FWD White List		Configure the Emergency Call Number. Despite the
Restrict Active URI Source IPSet the device to accept Active URI command from specific IP address. More details please refer to this linkPush XML ServerConfigure 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-DialDisable this feature, user enter number will open audio channel automatically. Enable the feature, user enter the number without opening audio channel.Enable Multi LineIf 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 FormatCustom line format: SIPn/SIPn: xxx/xxx@SIPn NONE/BOTH/DND White List/FWD White List	Emergency Call Number	keyboard is locked, you can dial the emergency call
Restrict Active URI Source IPspecific IP address. More details please refer to this linkPush XML ServerConfigure 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-DialDisable this feature, user enter number will open audio channel automatically. Enable the feature, user enter the number without opening audio channel.Enable Multi LineIf 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 FormatCustom line format: SIPn/SIPn: xxx/xxx@SIPn NONE/BOTH/DND White List/FWD White List		number
InkPush XML ServerConfigure 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-DialDisable this feature, user enter number will open audio channel automatically. Enable the feature, user enter the number without opening audio channel.Enable Multi LineIf 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 FormatCustom line format: SIPn/SIPn: xxx/xxx@SIPnContact As White List TypeNONE/BOTH/DND White List/FWD White List		Set the device to accept Active URI command from
Push XML ServerConfigure 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-DialDisable this feature, user enter number will open audio channel automatically. Enable the feature, user enter the number without opening audio channel.Enable Multi LineIf 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 FormatCustom line format: SIPn/SIPn: xxx/xxx@SIPnContact As White List TypeNONE/BOTH/DND White List/FWD White List	Restrict Active URI Source IP	specific IP address. More details please refer to this
Push XML Serverreceives request, it will determine whether to display corresponding content on the phone which sent by the specified server or not.Enable Pre-DialDisable this feature, user enter number will open audio channel automatically. Enable the feature, user enter the number without opening audio channel.Enable Multi LineIf 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 FormatCustom line format: SIPn/SIPn: xxx/xxx@SIPn NONE/BOTH/DND White List/FWD White List		link
Push XML Servercorresponding content on the phone which sent by the specified server or not.Enable Pre-DialDisable this feature, user enter number will open audio channel automatically. Enable the feature, user enter the number without opening audio channel.Enable Multi LineIf 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 FormatCustom line format: SIPn/SIPn: xxx/xxx@SIPn NONE/BOTH/DND White List/FWD White List		Configure the Push XML Server, when phone
corresponding content on the phone which sent by the specified server or not.Enable Pre-DialDisable this feature, user enter number will open audio channel automatically. Enable the feature, user enter the number without opening audio channel.Enable Multi LineIf 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 FormatCustom line format: SIPn/SIPn: xxx/xxx@SIPnContact As White List TypeNONE/BOTH/DND White List/FWD White List	Push XMI Server	receives request, it will determine whether to display
Enable Pre-DialDisable this feature, user enter number will open audio channel automatically. Enable the feature, user enter the number without opening audio channel.Enable Multi LineIf 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 FormatCustom line format: SIPn/SIPn: xxx/xxx@SIPnContact As White List TypeNONE/BOTH/DND White List/FWD White List		corresponding content on the phone which sent by
Enable Pre-Dialaudio channel automatically. Enable the feature, user enter the number without opening audio channel.Enable Multi LineIf 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 FormatCustom line format: SIPn/SIPn: xxx/xxx@SIPnContact As White List TypeNONE/BOTH/DND White List/FWD White List		the specified server or not.
Enable Pre-DialEnable the feature, user enter the number without opening audio channel.Enable Multi LineIf 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 FormatCustom line format: SIPn/SIPn: xxx/xxx@SIPnContact As White List TypeNONE/BOTH/DND White List/FWD White List		Disable this feature, user enter number will open
Enable the feature, user enter the number without opening audio channel.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 FormatCustom line format: SIPn/SIPn: xxx/xxx@SIPnContact As White List TypeNONE/BOTH/DND White List/FWD White List	Fnable Pre-Dial	audio channel automatically.
Enable Multi LineIf 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 FormatCustom line format: SIPn/SIPn: xxx/xxx@SIPnContact As White List TypeNONE/BOTH/DND White List/FWD White List		Enable the feature, user enter the number without
Enable Multi Linethe phone, and if disabled, up to 2 simultaneous calls can exist on the phone.Line Display FormatCustom line format: SIPn/SIPn: xxx/xxx@SIPnContact As White List TypeNONE/BOTH/DND White List/FWD White List		opening audio channel.
can exist on the phone.Line Display FormatCustom line format: SIPn/SIPn: xxx/xxx@SIPnContact As White List TypeNONE/BOTH/DND White List/FWD White List		If enabled, up to 10 simultaneous calls can exist on
Line Display Format Custom line format: SIPn/SIPn: xxx/xxx@SIPn Contact As White List Type NONE/BOTH/DND White List/FWD White List	Enable Multi Line	the phone, and if disabled, up to 2 simultaneous calls
Contact As White List Type NONE/BOTH/DND White List/FWD White List		can exist on the phone.
	Line Display Format	Custom line format: SIPn/SIPn: xxx/xxx@SIPn
Block XML When Call Disable XML push on call.	Contact As White List Type	NONE/BOTH/DND White List/FWD White List
	Block XML When Call	Disable XML push on call.



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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 DTMF tone on the device when user pressed a	
Play Talking DTMF Tone	phone digits during taking, default enabled.	
DND Settings		
DND Option	Select to take effect on the line or on the phone or	
DND Option	close.	
	Enable DND Timer, If enabled, the DND is	
Enable DND Timer	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		
	When intercom is enabled, the device will accept the	
	incoming call request with a SIP header of Alert-Info	
Enable Intercom	instruction to automatically answer the call after	
	specific delay.	
Enable Intercom Mute	Enable mute mode during the intercom call	
Frankla Internet Terre	If the incoming call is intercom call, the phone plays	
Enable Intercom Tone	the intercom tone	
	Enable Intercom Barge by selecting it, the phone auto	
	answers the intercom call during a call. If the current	
Enable Intercom Barge	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 by selecting it, When number	
Enable Password Dial	entered is beginning with the password prefix, the	
	following N numbers after the password prefix will be	



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	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.	
Ringing	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.	



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	There is popup prompt for unread messages after	
Display SMS Popup	opening, and there is no popup prompt when closing.	
	It is opened by default.	
	When the handle is not hung back after opening,	
	registration fails, IP acquisition fails, Tr069	
Diaplay Other Depuip	connection fails and other abnormalities, there will be	
Display Other Popup	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	
	Select enable or disable voice encoding:	
Cadage Settings	G.711A/U,G.722,G.729,	
Codecs Settings	G.726-16,G726-24,G726-32,G.726-40,	
	ILBC,opus	
Video codec		
Video codec	Select to enable video encoding:H264	
Media Setting		
	Enter the DTMF payload type, the value must be	
DTMF Payload Type	96~127.	
	Set the earphone's radio volume gain to fit different	
Headset Mic Gain	models of earphones.	
Opus playload type	Set Opus load type, range 96~127.	
ODUC Comple Data	Set Opus sampling rate, including opus-nb (8KHz)	
OPUS Sample Rate	and opus-wb (16KHz).	
	Set the ILBC Payload Type, the value must be	
ILBC Payload Type	96~127.	
ILBC Payload Length	Set the ILBC Payload Length	
	Configure a minimum response time, which	
Onhook Time	defaults to 200ms	
	Whether to turn on the plug spring to generate	
Enable the patting spring to generate Flash	Flash	

Table 27 - Voice settings



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	Туре1-Туре9

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.

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.

Tabl	le 29 –	Time	& Da	te setting	S

Parameters	Description			
Network Time Server Settings				
Time Synchronized via SNTP	Enable time-sync through SNTP protocol			
Time Synchronized via DHCP	Enable time-sync through DHCP protocol			
Primary Time Server	Set primary time server address			
	Set secondary time server address, when primary			
Secondary Time Server	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.			
	Daylight saving time rules are based on specific dates			
Fixed Type	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			



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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.

~~~~~						English	V Logout	(admin)
PLANET							📕 Keep Onlin	10
ICF-1900	Features Media Setti	Ings MCAST	Action	Time/Date	Tone	Advanced	٦	
> System						N	IOTE	
> Network	Tone Settings Select Your Tone:	United States				- 0 c	fone: adence[,cadence]	
> Line	Dial Tone: Ring Back Tone:	350+440/0 [440+480/2000,0/4000				0	,cadence]Where adence = Freq1[+Freq2] +Freq3] +Freq4]/Duration.Freq:	
> Phone settings	Busy Tone: Congestion Tone:	480+620/500,0/500					he frequency of the one:200~4000HZ. If it is et to 0Hz, it means the	
> Phonebook	Call waiting Tone: Holding Tone:	440/300,0/10000,440/3	00,0/10000,0/0				one won't be played.A one is comprised of at nost four different requencies.Freg1+Freg2:	
> Call logs	Error Tone: Stutter Tone: Information Tone:					O fr	The juxtaposition of two requencies Freq1 and req2 without nodulation.Freq1*Freq2:	
> Function Key	Dial Recall Tone: Message Tone:	[ ]350+440/100.0/100.35 [	0+440/100,0/100,350+4	40/100,0/100,350+440/0	)		req1 is modulated by req2.Duration The time luration of the	
Application	Howler Tone: Number Unobtainable Tone:	400/500,0/6000				e ti	one:0~30000ms.If it is et to 0ms, it means the one will keep on playing intil stopped by system.If	
> Security	Warning Tone: Record Tone:	1400/500,0/0 [440/500,0/5000					t is set to 0/0,it means he tone is stopped.The omposition of Tone: You an configure at most	
› Device Log	Auto Answer Tone:		Apply			e fo	ight different cadences or one tone, and eparate tones by commas.	

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.

PLANET Retworking & Communication ICF-1900	Contacts Cloud phonebook Call List Web Dial Advanced
› System	
› Network	Cloud phonebook
› Line	Add to phonebook Add to Blacklist Add to Whitelist Previous Page: V Next
Phone settings	Index Name Phone Phone1 Phone2     I0 V Entries per page
> Phonebook	Manage Cloud Phonebooks 🕜
> Call logs	Index Cloud phonebook name Cloud phonebook URL Calling Search Line Line Authentication Name Authentication Password
	1 AUTO V AUTO V
› Function Key	2 AUTO V AUTO V
	3 AUTO V AUTO V
> Application	4 AUTO V AUTO V
	Apply

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.



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			
	BLF (NEW CALL/BXFE /AXFER): It is used to prompt user the state of the			
	subscribe extension, and it can also pick up the subscribed number, which help			
	user monitor the state of subscribe extension (idle, ringing, a call). There are 3			
	types for one-touch BLF transfer method.			
	p.s. User should enter the pick-up number for specific BLF key to fulfill the pick-up			
	operation.			
Mamanukau	Presence: Compared to BLF, the Presence is also able to view whether the user is			
Memory Key	online.			
	Note: You cannot subscribe the same number for BLF and Presence at the same			
	time			
	Speed Dial: You can call the number directly which you set. This feature is			
	convenient for you to dial the number which you frequently dialed.			
	Intercom: This feature allows the operator or the secretary to connect the phone			
	quickly; it is widely used in office environments.			
Line	It can be configured as a Line Key. User is able to make a call by pressing Line Key.			
Key Event	User can select a key event as a shortcut to trigger.			
Key Eveni	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.			
	Configure the multicast address and audio codec. User presses the key to initiate			
Multicast	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						
	Redial/2aB/Delete/Exit/Call Back/Dial/Join/MWI/Local					
Call Dialer	Contacts/Pickup/CallLog/Missed/Clear/In/Dialed/Pause/Next line/Prev					
	line/Headset/Audio/Video/Remote XML/DSS Key					
Conference	Hold/Split/End/Release/Mute/DSS Key/Headset					
	CallLog/Menu/Local Contacts/DND/Prev Account/Next Account/Blacklist/Call					
Dealstan	Back/CallForward/Locked/Memo/					
Desktop	Missed/MWI/Dialed/Reboot/Redial/Remote XML/SMS/					
	Headset/Status/DSS Key/In					
	Redial/2aB/Delete/Exit/Forward/Local Contacts/CallLog					
Divert Dialed	/Clear/Missed/Dialed/Headset/Video/Audio/Remote XML					
	/DSS Key					
Ending	Redial/End/Headset/Release/DSS Key					
	Dial/2aB/Delete/Exit/Call Back/Local Contacts/Redial					
Predictive Dialer	/Pickup/MWI/Join/CallLog/Release/Missed/Pause/Dialed/					
	Headset/Video/Audio/Remote XML/DSS Key/In/Next line					
	/Prev line					
Ringing	Answer/Forward/Reject/Mute/Release/Headset/Video/Audio/DSS key					
	Hold/Transfer/Conference/End/Mute/Release/New Call/					
Talking	Local Contacts/Listen/CallLog/Next call/Prev call/					
	Private/Headset/Video/Audio/DSS Key					
Transfer Alerting	End/Transfer/Headset/Release/DSS Key					
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					
	Hold/Transfer/Conference/End/Answer/Forward/Mute/Next call/New call/Prev					
Waiting	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 <u>Table 31 Softkey configuration</u>

#### IP Camera List

										English	¥ 🗆 !	Logout	( admin )
<b>PLANET</b>												Keep Onlin	te
ICF-1900	Functi	on Key	Softkey	Advanced									
> System										NO	TE		
> Network	Global Key Se Select Me	ttings moryKey Action:		None 🗸 🌚							cription: ctional operation		
> Line	-				Apply	]				defi	nition of custor ction keys in th	m	
> Phone settings	Programmabl Key	e Key Settings Deskt		Dialer		Calling		Desktop Long	Pressed				
> Phonebook	Up Down	None	*	Prev Line(Prev.) Next Line(Next)	×	Prev. Call Next Call	× ×	Status	~				
	Left	None	*	None	*	Volume Down	~	None	~				
> Call logs	Right OK	None	~	None	× ×	Volume Up	×	Voice Mail	~				
> Function Key					Apply	-		-					
> Application	IP Camera Lis					n		<b>D</b>					
> Security		lex IP Camera		Username Refresh	Password Apply	Preview		Dsskey					
> Device Log													

Picture 119 - IP Camera List



# 12.24 Application >> Manage Recording

See <u>9.3 Record</u> 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.

PLANET			English V Logout (admin)
ICF-1900	Web Filter Trust Certificates Device Certificates Firewall	_	
> System			NOTE
› Network	Web Filter Table  Start IP Address End IP Address	Option	Description: Set the web access filter
> Line	Web Filter Table Settings		list, only the IP in the list allows access to the phone.
> Phone settings	Start IP Address 6 End IP Address 6	Add	
› Phonebook	Web Filter Setting 🖗		
> Call logs	Enable Web Filter		
> Function Key			
Application			
> Security			
> Device Log			

Picture 120 - Web Filter settings

PLANET Retworking & Communication ICF-1900	Web Filter Trust Certificates Device	Certificates Firewall	
› System			
› Network	Web Filter Table 🕜	End IP Address Option	
› Line	Web Filter Table Settings		
› Phone settings	Start IP Address 192.168.1.1	End IP Address 192.168.1.254 🕜 Add	
› Phonebook	Web Filter Setting 🕜		
› Call logs	Enable Web Filter 🗌	Apply	
> Function Key			
> Application			
> Security			
> Device Log			

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.

PLANET					Eng	lish 🗸 🗖 Logout 🗍	( ad
ICF-1900	Web Filter Trust Ce	ertificates Device Certificates	Firewall				
System						NOTE	
letwork	Permission Certificate					Description:	
ine	Permission Certificate Common Name Validation	Disabled V				Phone Trust Certificate List, Server Certificate List.	
hone settings	Certificate mode	All Certificates 🗸 🤡					
honebook	Import Certificates 🖗	Apply					
all logs	Load Server File	s	Upload				
unction Key	Certificates List 🕲						
pplication	Index File Name	Issued To	Issued By	Expiration	File Size Delete		
Security						·	
evice Log							

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.

PLANET Retenting & Communication	Web Filter Trust Certificates Device Certificates Firewall	English 🔍 🗖 Logout ( admin 🖉 Keep Online
› System		NOTE
> Network	Device Certificates 🥹	Description: Device certificates
› Line	Device Certificates Default Certificates (existence)	Sevings, Can only setting device certificates, vpn certificates in Network- VPN setting; https in
> Phone settings	Import Certificates 🛛	<ul> <li>Network-Advanced setting;sips certificates in Line-Basic Settings setting;Trust certificates</li> </ul>
› Phonebook	load Device file Select Upload	in Security-Trust Certificates setting;Device certificates in Security-
› Call logs	Certification File 📀 File Name Issued To Issued By Expiration File S	Device Certificate.
› Function Key	File Name Issued To Issued By Expiration File S Delete	
Application		
> Security		
› Device Log		

Picture 123 - Device certificate setting

## 12.28 Security >> Firewall

PLANET	Eng	ish 👻 🗖 Logout ( admin ) 📕 Keep Online
ICF-1900	Web Filter Trust Certificates Device Certificates Firewall	
> System		NOTE
> Network	Firewall Type 🔮	Description: Set firewall function.
> Line	Apply	
› Phone settings	Firewall Input Rule Table 🥝	
> Phonebook	Index Deny/Permit Protocol Src Address Src Mask Src Port Range Dst Address Dst Mask Dst Port Range	
> Call logs	Firewall Output Rule Table 🔮 Index Deny/Permit Protocol Src Address Src Mask Src Port Range Dst Address Dst Mask Dst Port Range	
> Function Key	Index Venty/vermit Protocol Src Address Src Hask Src Port Hange Ust Address Ust Hask Ust Port Hange	
> Application	Input/Output         Imput v         Src Address         Dist Address           Deny/Permit         Deny v         Src Mask         Dist Mask         Add	
> Security	Protocol UDP V Src Port Range Dst Port Range	
> Device Log	Rule Delete Option 🔮 Input/Output Index To Be Deleted Delete	

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:

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.
Donu/Dormit	To select whether the current rule configuration is disabled
Deny/Permit	or allowed;
Protocol	There are four types of filtering protocols: TCP   UDP
PIOLOCOI	ICMP   IP.
Src Port Range	Filter port range
	Source address can be host address, network address, or
Src Address	all addresses 0.0.0.0; It can also be a network address
	similar to *.*.*.0, such as: 192.168.1.0.
	The destination address can be either the specific IP
Dst Address	address or the full address 0.0.0.0; It can also be a
	network address similar to *.*.*.0, such as: 192.168.1.0.
	Is the source address mask. When configured as
Src Mask	255.255.255.255, it means that the host is specific. When
SICIVIASK	set as 255.255.255.0, it means that a network segment is
	filtered.
	Is the destination address mask. When configured as
Dst Mask	255.255.255.255, it means the specific host. When set as
	255.255.255.0, it means that a network segment is
	filtered.

Table	32 -	Network	Firewall
Iuvic	J2 -	TICINUIN	I'n cwuu

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



High Definition Touch Color Screen Smart Media Android SIP Conference Phone ICF-1900

	Filter Trust Certificates Devic	ce Certificates Firewall			οτε
Firewall Type 🤇		Apply	Enable Output Rules: 🗌	D	escription: et firewall function.
	Rule Table 😨 /Permit Protocol Src Address leny udp 192.168.1.0	Src Mask Src Port Range 255.255.255.0 0-9	Dst Address Dst Mask 192.168.1.154 255.255.255.0	Dst Port Range 0-9	
Firewall Output Index Deny/	t Rule Table @	Src Mask Src Port Range	Dst Address Dst Mask	Dst Port Range	
Key Firewall Setting	gs 🕖				
on	ut Input V Src Address		ddress	Add	
y Protocol	UDP V Src Port Range	- Det De	t Range		

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.

PLANET	Ery	ish 💙 🗖 Logout ( admin ) 📕 Keep Online
ICF-1900	Web Filter Trust Certificates Device Certificates Firewall	
> System		NOTE
› Network	Firewall Type 🔮 Enable Input Rules: Enable Cutput Rules: Apply	Description: Set firewall function.
> Line	Firewall Input Rule Table 🔞	
> Phone settings	Index Deny/Permit Protocol Src Address Src Mask Src Port Range Dst Address Dst Mask Dst Port Range	
> Phonebook	1 deny udp 192.168.1.0 255.255.255.0 0-9 192.168.1.154 255.255.255.0 0-9	
> Call logs	Firewall Output Rule Table 🜒 Index Deny/Permit Protocol Src Address Src Mask Src Port Range Dat Address Dat Mask Dat Port Range	
> Function Key	Firewall Settings 🔞	
Application	Input/Output Imput V Src Address Dst Address Denv/Permit Denv V Src Mask Dst Mask Add	
> Security	Protocol UDP V Src Port Range Dst Port Range	
› Device Log	Rule Delete Option @ Input/Cutput Index To Be Deleted Delete	

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 <u>13.6 Get log information</u>.



# **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).



ICF-1900		24	۱ <u> </u>	γ <u> </u>		T.	in the second second	
	Information	Account	Configurations	Upgrade	Auto Provision	Tools	Reboot Phone	1
tem							E.	NOTE
vork	Enable Syslog:		0					Description: Some tools to help
	Server Address: Server Port:		0 0 0 0 514			0		administrators or technicians to analyze ssues.
e settings	APP Log Level: Export Log:		Information	~		0		
ebook	Packet Capture 🜒		Apply				_	
logs	Start		stop					
tion Key	Screenshot Main Screen:		Save BMP					
ication	Watch Dog		1.1					
rity	Enable Watch Dog:		Apply					
ce Log	One-click Export Debug	info	Export					
i i	PING							

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 period have been dumped to the saved file.

PLANET				English	Logout	( admin )
ICF-1900	Information Accou	nt Configurations Upgrade	Auto Provision Tools	Reboot Phone		ie.
1						
> System				N	OTE	
> Network	Syslog Enable Syslog:	0			escription: ome tools to help	
› Line	Server Address: Server Port:	0.0.0		Image: Constraint of the second secon	dministrators or echnicians to analyze sues.	
› Phone settings	APP Log Level: Export Log:			0		
> Phonebook		Apply				
› Call logs	Packet Capture 🔮	stop				
> Function Key	Screenshot Main Screen:	Save BMP				
Application	Watch Dog					
> Security	Enable Watch Dog:	Apply				
> Device Log	One-click Export Debug Info	Export				
	PING PING Result:	Start stop				

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	So	lution
Device could not boot up	1.	The device is powered by external power supply via power adapter
		or PoE switch. Please use standard power adapter provided 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	1.	Please check if device is well connected to the network. The
service provider		network Ethernet cable should be connected to the
		[Network] port NOT the 💻 [PC] port. If the cable is not well
		connected to the network icon 🔽 [WAN disconnected] will be
		flashing in the middle of the screen.
	2.	Please check if the device has an IP address. Check the system
		information, if the IP displays "Negotiating", the device does not
		have an IP address. Please check if the network configurations is
		correct.
	3.	If network connection is fine, please check again your line
		configurations. If all configurations are correct, please kindly
		contact your service provider to get support, or follow the
		instructions in "13.5 Network Packet Capture" to get the network
		packet capture of registration process and send it to PLANET
		support to analyze the issue.



No Audio or Poor Audio in	1. Please check if Handset is connected to the correct Handset (
Handset	port NOT Headphone (🎧) port.
	2. The network bandwidth and delay may be not suitable for audio
	call at the moment.
Poor Audio or Low Volume in	1. There are two Headphone wire sequence in the market. Please
Headphone	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.
Audio is chopping at far-end in	This is usually due to loud volume feedback from speaker to
Hands-free speaker mode	microphone. Please lower down the speaker volume a little bit, the
	chopping will be gone.