



User's Manual

High Definition Color PoE IP Phone

► VIP-1260PT



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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

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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 use. 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□ or high humidity.
- Avoid wetting the unit with any liquid.
- Do not attempt to open it. Non-expert handling of the device could damage it. Consult your authorized dealer for help, or else it may cause fire, electric shock and breakdown.
- Do not use harsh chemicals, cleaning solvents, or strong detergents to clean it. Wipe it with a soft cloth that has been slightly dampened in a mild soap and water solution.
- When lightning, do not touch power plug, it may cause an electric shock.
- Do not install this phone in an ill-ventilated place. You are in a situation that could cause bodily injury.
 Before you work on any equipment, be aware of the hazards involved with electrical circuitry and be familiar with standard practices for preventing accidents.

1 Overview

1.1 Overview

Intuitive, Aesthetic Design and Quality Communication

PLANET VIP-1260PT is an enterprise Gigabit IP phone with six lines and a 2.8" color LCD display. This device provides lifelike richness and high-quality voice to phone calls.

With ease of use, versatility, high-quality design, and superb audio performance, the VIP-1260PT is a reliable communication device. Additionally, its full duplex speakerphone system with HD voice supports the G.722 wideband and Opus codec, making communication between two or more parties crystal-clear, without any background noise interference.

Multi-language VoIP Telephony with Wide-Viewing-Angle Color Display

The VIP-1260PT allows you to make digital phone calls utilizing the existing broadband networks in homes and offices without installing new analog connections (e.g. copper wires). Its 2.8-inch wide-viewing-angle color display with a resolution of 320 x 240 pixels offers a clear depiction of caller's information as well as supports up to 19 languages. Compliance with IEEE 802.3af PoE standards makes deployment convenient and flexible. In addition, the advanced speaker/microphone and the dedicated Digital Signal Processor assures superior audio quality.

Compliant with SIP 2.0

SIP phones continue to gain popularity among businesses as the preferred protocol for enhancing communication experience across IP networks. The VIP-1260PT supports Session Initiation Protocol 2.0 (RFC 3261) for easy integration with general voice over IP system. The VIP-1260PT is able to broadly interoperate with equipment supplied by VoIP infrastructure providers, thus enabling them to offer their customers better voice over IP services.

Affordable for All Businesses

The VIP-1260PT is definitely affordable for all business establishments who want flexible deployment options and expansion. It can effortlessly deliver secured toll voice quality by utilizing cutting-edge 802.1p QoS (Quality of Service) and IP ToS technology.

High-quality G.722 HD and Opus Audio Codes

The VIP-1260PT delivers with Harman Kardon speaker, wideband G.722 HD and Opus audio codec whose both hardware and software HD functions 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 VIP-1260PT keeps bringing the most premium sound for users

1.2 Functional Specifications

Product	VIP-1260PT				
Hardware					
Lines (Direct Numbers)	6 SIP Lines				
Physical Interfaces	LCD x 1: 2.8-inch (320 x 240) WVA color LCD Keypad: 36 keys, including				
Network Interfaces	RJ45 Ethernet jacket x 2: ■ Network x 1 (Gigabit, 802.3af PoE Class 1 enabled) ■ PC x 1 (Gigabit, Bridged Network)				
Connectors RJ9 phone jacket x 2: ● Handset x 1 ● Headphone x 1					
Power Requirements	IEEE 802.3af Power over Ethernet 5V 600mA				
Weight	669g				
Dimensions (W x D x H) 210 x 168 x 60 mm					
Protocols					
Protocols	 SIP2.0 over UDP/TCP/TLS RTP/RTCP/SRTP STUN DHCP PPPoE 802.1x L2TP (basic unencryption) OpenVPN SNTP FTP/TFTP HTTP/HTTPS TR069 				
Networking					
Physical: 10/100/1000Mbps Ethernet, bridged port fo IP Configuration: Static, DHCP, PPPoE VLAN QoS RTCP-XR (RFC3611), VQ-RTCPXR (RFC6035)					
Security	 Network Access Control: 802.1x VPN: L2TP (basic unencryption), OpenVPN 				
Deployment & Maintenance	 Auto-provisioning via FTP/TFTP/HTTP/HTTPS/DHCP/OPT66/SIP PNP/TR069 Web management portal Web-based packet dump Configuration Import/Export Auto/Manual online software upgrade 				

	● Syslog		
Call Features	 Call out, answer, reject Mute/unmute (microphone) Call hold, resume Call waiting Intercom Caller ID display Call forwarding (always/busy/no answer) Call transfer (attended/unattended) Call parking, pick-up (depending on server) Redial Do-not-disturb (per line/per phone) Auto-answering (per line) Voice message (on server) Local 6-way conferencing Hot line 		
Phone Features	 Phone accessibility control by user PIN Intelligent phonebook (up to 1000 entries in total) Remote phonebook (XML/LDAP) Intelligent contact number matching/filtering Call log (600 entries in total, in/out/missed) Voice message waiting indication (VMWI) Network time synchronization Multi-language support in screen and web UI: English, Chinese (Traditional/Simplified), Russian, Italian, German, French, Hebrew, Spanish, Catalan, Euskara, Galego, Turkish, Slovenian, Czech, Dutch, Korean, Ukrainian, Portuguese 		
Audio Features	 HD voice microphone/speaker (handset/hands-free, 0~7KHz frequency response) Wideband ADC/DAC 16KHz sampling Narrowband codec: G.711a/u, G.723.1, G.726-32K, G.729A/B. iLBC Wideband codec: Opus, G.722 Full-duplex acoustic echo canceller (AEC) – 96ms tail-length in hands-free mode Voice activity detection (VAD), comfort noise generation (CNG), background noise estimation (BNE), noise reduction (NR) Packet loss concealment (PLC) Dynamic adaptive jitter buffer up to 300ms DTMF: In-band, out-of-band – DTMF-relay (RFC 2833), SIP info 		
Standards Conformance			
Regulatory Compliance	CE, FCC, RoHS		
Request for Comments (RFCs)	354, 1321, 1350, 1769, 1889, 1890, 2131, 2132, 2616, 2617, 2661, 2833, 2976, 3261, 3262, 3263, 3264, 3265, 3268, 3311, 3489, 3711, 4346, 4566, 5630, 5865		
Environment			
Operating Temperature	0 ~ 45 degrees C		
Operating Humidity	10 ~ 95% (non-condensing)		

1.3 Packing Contents

The package should contain the following items plus VIP-1260PT. If any item is missing or damaged, please contact the seller immediately.

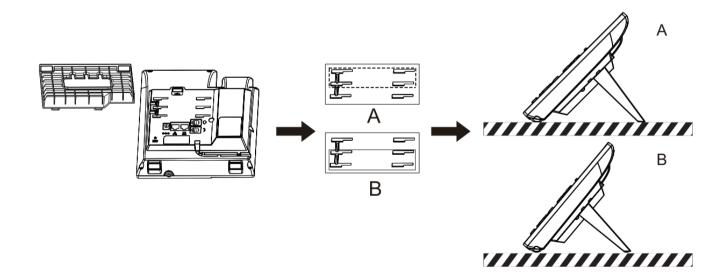


1.4 Desktop and wall-mounted (Optional) method

The device supports two installation methods, desktop and wall-mounted. If the phone is desktop installed, follow the instructions in Picture 1 shown below.

Step 1. Tilted Stand Installation

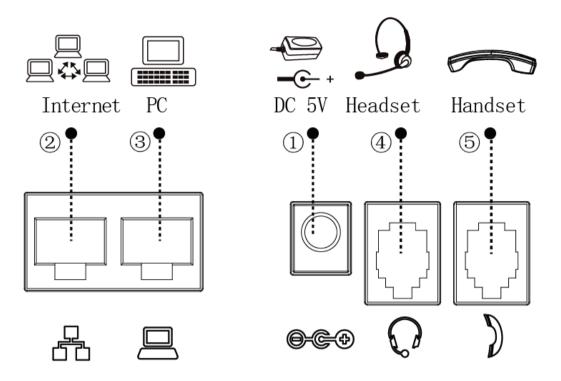
Take the stand and hook it on the back of the phone. There are two angles for your selection.



Picture 1 - Desktop installation connects the power adapter, network, PC, phone and earphone to the appropriate port as shown below in Picture 2.

Step 2. Connecting to the Device

Connect PoE network, PC and handset to the corresponding ports as described in the diagram below.



Picture 2 - Connecting to the Device

Table 1 - Hardware Interface Description

Index	Description		
1	Power port: power requirement - 5VDC, 600mA (Optional external power adapter)		
Internet port: Connect to the Internet			
2	(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.)		
3	PC port: Connect to the computer		
4	Headset port: External RJ9 earphone (optional)		
5	Handset port: Connect to IP phone handset		



- 1. The VIP-1260PT supports IEEE 802.3af/at. Be reminded to power the phone either from AC adapter or PoE source.
- 2. The AC adapter is NOT included.

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 Chrome, Edge, Firefox, or Safari (for Mac) to connect to 192.168.0.1 (Type this address in the address bar of Web browser.)

You will be prompted to type user name and password (Default username/password: admin and 123)



Picture 3 - Login page

2 Appendix Table

2.1 Appendix I - Icon

Table 2 - Keypad Icons

Icon	Description	
T T	Phone book	
Z	Voice message key	
**	Conference key	
i	State key	
1(+	Volume up	
Volume down		
Mute microphone (during call)		
n Headset		
Redial		
Hands-free key		
	Hold key	
Call transfer key		

Table 3 - Status Prompt and Notification Icons

Icon	Description	
	In hands-free mode	
Q	In headset mode	
	In handset mode	
\$	Mute activated	
	Silent mode	
	Call is on hold	
A	Auto-answering activated	

(→	Call forward activated		
[DND]	Disable do not disturb (Blue)		
	Do not disturb activated (Red)		
((1))	Outgoing calls		
	VLAN activated		
	VPN activated		
SMS	New SMS		
	New VM Messages		
ııl	Voice quality level of call		
Keypad locked			
(→ Forward call(s)			
Missed call(s)			
K	Received call(s)		
٧	Dialed call(s)		
	Internet connected		
T <u>x</u>	Internet is disconnected		
No IP address			

2.2 Appendix II - Keyboard Character Query Table

Table 4 - 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
123	Numeric	6	6
150	Numeric	7	7
		8	8
		9	9
		0	0
		*	*.+
		#	#
		1	@:;()<>
		2	a b c
	Lower Case Alphabets	3	d e f
		4	g h i
		5	jkl
l La		6	m n o
abc		7	pqrs
		8	t u v
		9	wxyz
		0	(space)
		*	.,*/+-:_=
		#	# ^!&\$%
		1	@:;()<>
		2	ABC
		3	DEF
	Upper Case Alphabets	4	GHI
ABC		5	JKL
		6	MNO
		7	PQRS
		8	TUV
		9	WZYX

		0	(space)
		*	.,*/+-:_=
		#	# ^!&\$%
		1	1
		2	2 a b c A B C
		3	3 d e f D E F
		4	4 g h l G H l
		5	5 j k l J K L
2aB	Mixed type input	6	6 m n o M N O
cab		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
		*	.,*/+-:_=
		#	# ^!&\$%

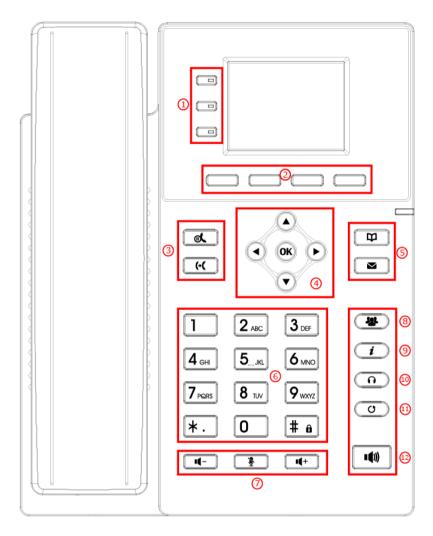
2.3 Appendix III -LED Definition

Table 5 - DSS KEY LED State

Туре	LED Light	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)	
	Off Green On Green Blinking Red Blinking Red Blinking	Call holding	
	Green On	Subscription number is idle.	
BLF	Red On	Subscription number is busy.	
	Red On	Subscription number is dialing.	
	Off	Subscription number is unavailable.	
	Green On	Subscription number is idle.	
Dragana	Red On	Subscription number is busy.	
Presence	Red On	Subscription number is dialing.	
	Off	Subscription number is unavailable.	
DND	Red On	Enable DND	
DND		Disable DND	
NAVA/I	Green Blinking	New voice message waiting	
IMWI -		No new voice message	

3 Introduction to the User

3.1 Instruction of Keypad



Picture 2 - Instruction of Keypad

The picture above shows the keypad layout of the phone. Each button provides its own specific function. Users can refer to the instructions for the keys in the following table to operate the phone.

Table 6 - Instruction of Keypad

Interface		Description
1	Line key	Default to line 1-3, support the custom configuration of DSS key
2	Soft-menu Buttons	These four buttons provide different functions corresponding to the soft-menu displayed on the screen.

	1	
3	Hold &Transfer Keys	Press hold key to hold the call and press again to resume the call. Press the key to transfer calls.
4	Navigation/OK Keys	The user can press the up/down navigation key to change the line or move the cursor in the screen list. On some Settings and text editing pages, the user can press the left/right navigation key to change options or move the cursor in the screen list to the left/right. OK key: Default is equivalent to soft button confirmation, user can customize the function.
5	Contact Key & MWI	Press the "Contact" key, the user can enter the address book interface and select the contact person to call. Press the "voice mail" button, and the user enters the interface of SMS and voice mail list.
6	Standard Telephone Keys	The 12 standard telephone keys provide the same function as standard telephones, in addition to the standard function, some keys also provide special functions by long pressing the key, Key # - Long press to lock the phone.
7	Volume Up/Down Kev	In the standby state of ringing and the ringing configuration interface, press this button to increase/reduce the ring volume; Press this button to increase/lower the volume on the call or volume adjustment screen.
8	Conferencing Key	Support 6-way local conference
9	State Key	Shows basic information like IP status, MAC address, hardware version etc.
10	Headset Key	Users can press this key to open the headset channel
11	Redial	Press the Redial key to redial the last number dialed
12	Hands-free Key	The user can press this key to open the speakerphone.

3.2 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 turned on 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 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 press headset button which is defined by DSS key to turn on the headphone. Same as handset and hands-free speaker, user can dial the number before or after the headphone is turned on.

■ Using Line Keys (Defined by DSS Key)

User can use 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.

3.3 Idle Screen



Picture 3 - Screen layout/default home screen

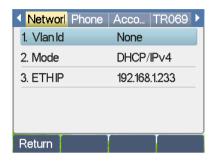
The image above shows the default standby screen, which is what users see most of the time. The upper half of the home screen shows the status of the device, information and data that can be edited (such as voice messages, missed calls, auto answer, do not disturb, lock status, network connection status, etc.).

The lower half of the area are the function menu keys, which are 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 handset. The left and right part of the area shows default configuration of Side keys, which dynamically display the configuration of SIP information, message, headset, etc., which can be customized by users.

The icon functions are described in Appendix I - Icon

In some screens, there are many items or long text to be displayed which could not fit into the screen. They will be arranged in a list or multiple lines with a scroll bar. If the user sees a scroll bar, he can use up/down navigator buttons to scroll the list. By long-pressing the navigator keys, user can scroll the list or items much faster.



Picture 4 - Scroll icon

3.4 Phone Status

The phone status includes the following information about the phone:

Network Status:

VLAN ID

IPv4 or IPv6 status

IP Address

Network Mode

• The Phone Device Information:

Mac Address

Phone Mode

Hardware Version

Software Version

Uboot version

Phone Storage Size (RAM and ROM)

System Running Time

SIP Account Information:

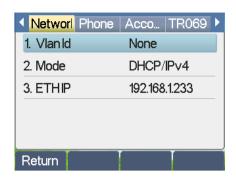
SIP Account

SIP Account Status (register / uncommitted / trying / time out)

• TR069 Connect Status (Displays only in the phone interface state)

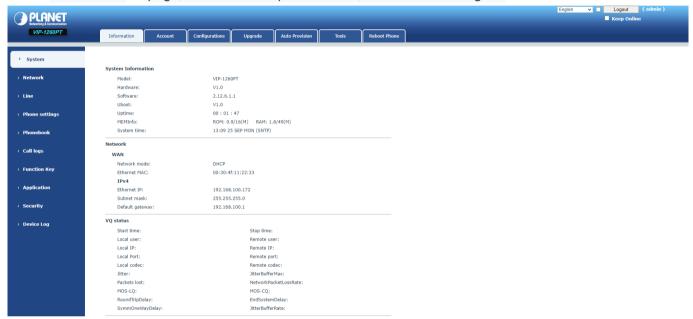
The user can view the phone status through the phone interface and the web interface.

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



Picture 5 - The Phone status

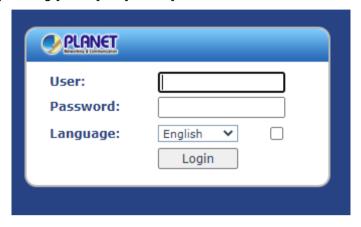
Web interface: Refer to <u>Web Management</u> to log in the phone page, enter the [System] >>
 [Information] page, and check the phone status, as shown in the figure:



Picture 6 - Web phone status

3.5 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 and open the web page of the phone firstly. The user can check the IP address of the phone by pressing [Menu] >> [Status].



Picture 7 - Login 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" and "123". For the specific details of the operation page, please refer to page <u>Web</u> <u>configuration.</u>

3.6 Network Configurations

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 between IP addresses on a packet basis.

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 [Menu] >> [System] >> [Network] >> [Network].

The default password for System is "123".

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

The device supports three types of networks, IPv4/IPv6/IPv4&IPv6 There are three 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 do not need to configure any parameters manually.
All configuration parameters will be obtained 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 by seasoned network users in a technical environment.
- PPPoE This option is often used by users who connect the device to a broadband modem or router. To
 establish a PPPoE connection, user should configure username and password provided by the service
 provider.

The device is configured as Static IP mode by default. The default IP address is 192.168.0.100 When log-in window pops up, you need to input default username and password as admin and 123.

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 received from DHCP server and be 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, Subnet Mask, Gateway IP, and primary and secondary domains. This usually applies to some network environments managed by professional users.

Please see Network Settings for detailed configuration and use.

3.7 SIP Configurations

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

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

Phone interface: To manually configure a line, user can press one of the 3 line keys on the left side of the screen or press the button in the function menu [Menu] >> [System] >> [Accounts] >> [Line n] configuration, click ok to save the configuration.

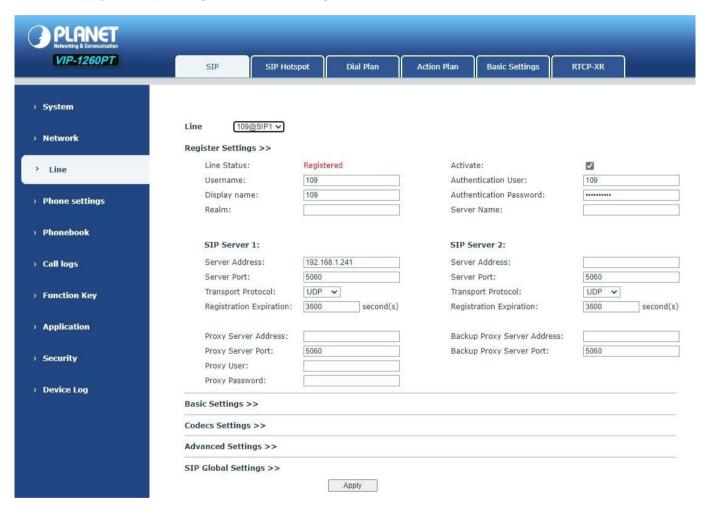
Note! User must enter correct PIN code to be able to enter System to edit line configuration. (The default PIN is 123)

The parameters and screens are shown below.



Picture 8 - Phone line SIP address and account information

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



Picture 9 - Web SIP registration

4 Basic Function

4.1 Making Phone Calls

■ Line keys

The device provides four SIP line services. If all lines are configured, user can make or receive phone calls on each line. Three of the four SIP lines are shown on the screen along with the 3 speed-dial buttons located on the left side of the screen. These buttons allow you to make speed dialing. The LED on the speed-dial button remains green and starts blinking when a call comes in on the line.



Picture 10 - Default line

■ Dialing Methods

User can dial a number by

- Entering the number directly
- Press speed-dial buttons
- Selecting a phone number from phonebook contacts (Refer to <u>Local contacts</u>)
- Selecting a phone number from cloud phonebook contacts (Refer to <u>Cloud Phone Book</u>)
- Selecting a phone number from call logs (Refer to <u>Call Log</u>)
- Redialing the last dialed number

■ Dialing Number and then Opening 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 hands-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.



Picture 11 - Enable voice channel dialing

Opening Audio and then Dialing the Number

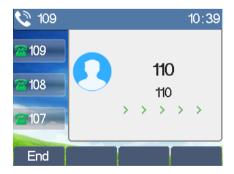
User can use the traditional way to firstly open the audio channel by lifting the handset, then turn on the hands-free speaker or headphone by pressing hands-free button, or line key, and then dial the number with one of the above methods. After completing the dialing number, user can press [**Dial**] button or [**OK**] button to make the call.



Picture 12 - Open the voice channel and dial the number

■ Cancel Call

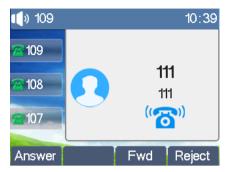
While calling the number, user can stop the audio channel by putting back the handset or pressing the hands-free button to drop the call.



Picture 13 - Call number

4.2 Answering Calls

When there is an incoming call while the device is idle, user will see the following incoming call on the screen.



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.

4.2.1 Talking

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



Picture 15 - Talking interface

Table 7 - Talking mode

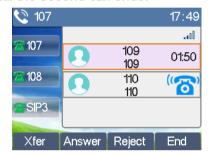
Number	Name	Description
1	Voice channel	The icon shows the voice channel is opened.
2	Line-in-use	The line currently used by the phone.
3	Calls to end	The name or number of the person on the other end of the call.
4	Call duration	The duration of a call since it starts.
5	Speech quality	Displays the current voice quality of the call.

4.2.2 Make / Receive Second Call

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

Second Incoming Call

If another call comes in during an ongoing phone call, the incoming call will bring up a message indicating a call is waiting for user to answer. User will see the message in the middle of the screen. The device will not ring but play call waiting tone in the audio channel of the current call and the LED will flash in green. User can accept or reject the incoming call like what user does on a traditional phone. When the waiting call is answered, the first call will be held until the second call ends.



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 second call is to press DSS Keys or 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 held on manually or will be held on automatically at second dial.

Switching between Two Calls

When two calls are 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.

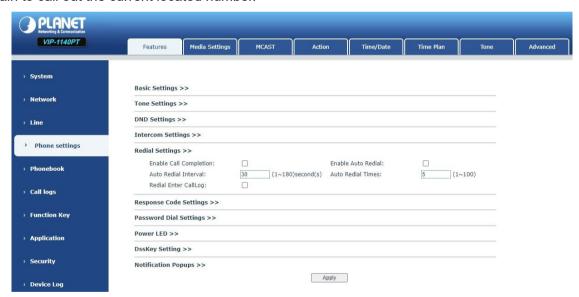
4.3 End of the Call

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

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

4.4 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 outgoing number.
- 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 page, press the redial button when standby to enter the call record page, and press again to call out the current located number.



Picture 18 - Redial setting

4.5 Auto-Answering

User may turn on the auto-answering mode 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.

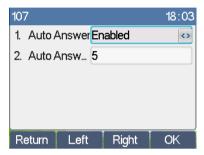
Phone interface:

Press [Menu] >> [Features] >> [Auto Answer] button;

Press the button to select the line, use the left/right navigation key to turn on/off the auto answer option, and set the auto answer time to 5 seconds by default.

After completion, press [OK] key to save;

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



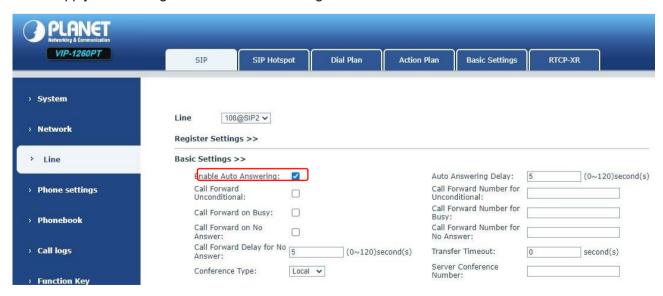
Picture 19 - Line 1 enables auto-answering



Picture 20 - The line has enabled auto-answering

Web interface:

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



Picture 21 - Web page to start auto-answering

4.6 Callback

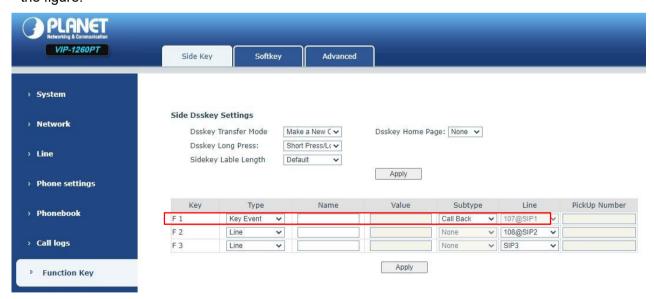
The user can dial back the number of the last call. If there is no call history, press the [Callback] button and the phone will say "can't process".

Set the callback key through the phone interface:
 Under standby, press [Menu] >> [Basic Settings] >> [Keyboard Settings] >> [DSSkey Settings] or
 [Keyboard Settings] >> [Softkey] choose to set up the function keys, key type, type selection function name select callback function, input the callback key name and press [OK] key to save.



Picture 22 - Set the callback key on the phone

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



Picture 23 - Set the callback key on the web page

4.7 Mute

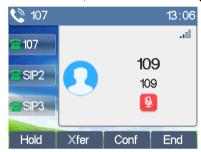
You can turn on mute mode during a call and turn off the microphone so that the local voice is not heard. Normally, mute mode is automatically turned off at the end of a call. You can also turn on mute on any screen and mute the ringtone automatically when there is an incoming call.

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

4.7.1 Mute the Call

• During the conversation, press the mute button on the phone: the mute button on the phone will turn on the red light.

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



Picture 24 - Mute the call

Cancel mute: press \(\frac{1}{2} \) 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.

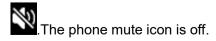
4.7.2 Ringing Mute

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



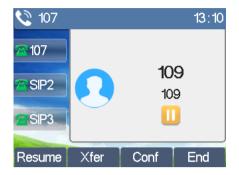
Picture 25 - Ringing mute

Cancel ring tone mute: On the standby or incoming call screen, press the mute button again volume up
 to cancel ring tone mute, as the mute icon is shown in the upper right corner.



4.8 Call Hold/Resume

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



Picture 26 - Call hold interface

4.9 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, the methods are as follows:

- Phone interface: Default standby mode,
 - 1) Press [DND] button to enter the DND setting interface, select line or phone to enable DND.
 - 2) Press [DND] button to enter the DND setting interface and disable DND.

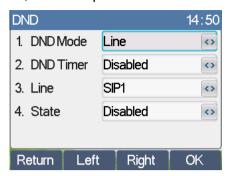


Picture 27 - Enable DND

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

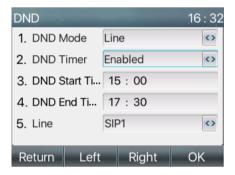
- 1) Press [Menu] >> [Features] >> [DND] button, Enter the [DND] to edit the interface.
- 2) Click the left/right navigation button to select the line to adjust the mode and state of "do not disturb", and then press the [**OK**] button to save.

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



Picture 28 - DND setting interface

The user can also use the DND timer. After the setting, the DND function will automatically turn on and the DND icon will turn red when ringing.



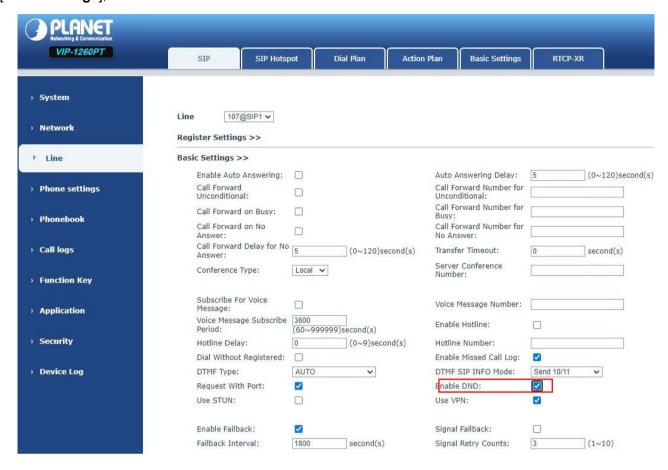
Picture 29 - DND timer

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



Picture 30 - DND Settings

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



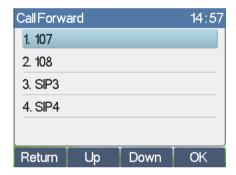
Picture 31 - Line DND

4.10 Call Forward

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

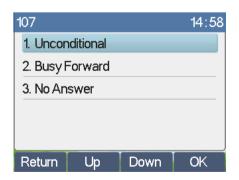
There are three types.

- Unconditional Call Forward Forward any incoming call to the configured number.
- Call Forward on Busy When user is busy, the incoming call will be forwarded to the configured number.
- Call Forward on No Answer When user does not answer the incoming call after the configured delay time, the incoming call will be forwarded to the configured number.
- Phone interface: Default standby mode
 - 1) Press [Menu] >> [Features] >> [Call Forward] button, select the line by up/down navigation key, press [OK] button to set call forward.



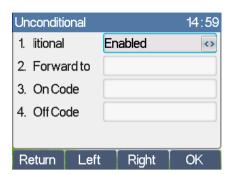
Picture 32 - Select the line to set up call forwarding

2) Select the call forward type by pressing the up/down navigation button. Click [**OK**] to configure call forwarding and delay time.



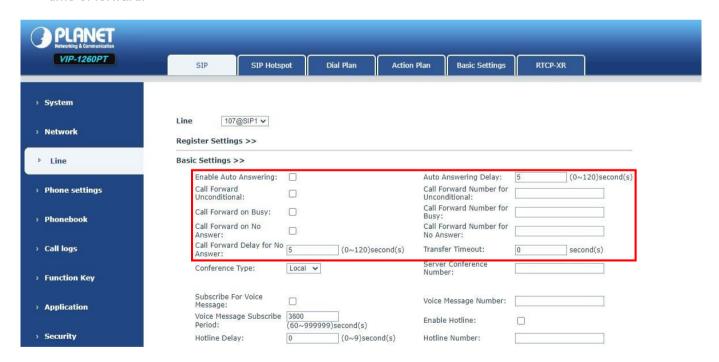
Picture 33 - Select call forward type

3) Select enable/disable by pressing the left/right navigation button.



Picture 34 - Enable call forwarding and configure the call forwarding number

- 4) Browse the parameters set by the up/down navigation key and enter the required information. When finished, press the **[OK]** button to save the changes.
- WEB interface: Enter [Line] >> [SIP], Select a [Line] >> [Basic settings], and set the type, number and time of forward.



Picture 35 - Set call forward

4.11 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: No 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 other party.

Note! For more transfer settings, please refer to Line >> Dial Plan

4.11.1 Blind transfer

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



Picture 36 - Transfer interface

4.11.2 Semi-Attended transfer

During the call, the user presses the function menu button [transfer] or the transfer button on the phone to input the number to be transferred or press the contact button or the historical record button to select the number, and then press the call button. When the third party is not answered, press the transfer on the call interface to make the semi-attendance transfer or press the end button to cancel the semi-attendance transfer.



Picture 37 - Semi-Attended transfer

4.11.3 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.

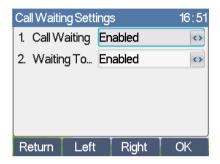
The same procedure to calling. In dual call mode, press the "transfer" button to transfer the first call to the second call.



Picture 38 - Attended transfer

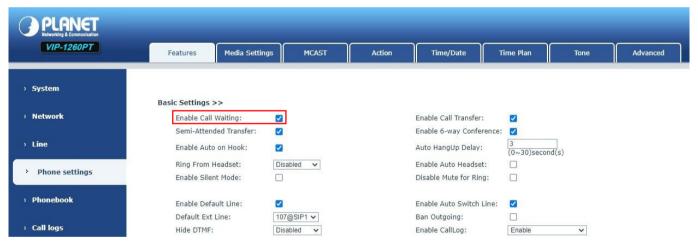
4.12 Call Waiting

- 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 [Menu] >> [Features] >> [Call waiting], the navigation key and left/right button enable/disable call waiting and call waiting tone. Press [Menu] >> [Features] >> [Call waiting], the navigation key and left/right button enable/disable call waiting and call waiting tone.



Picture 39 - Call waiting setting

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



Picture 40 - Web call waiting setting

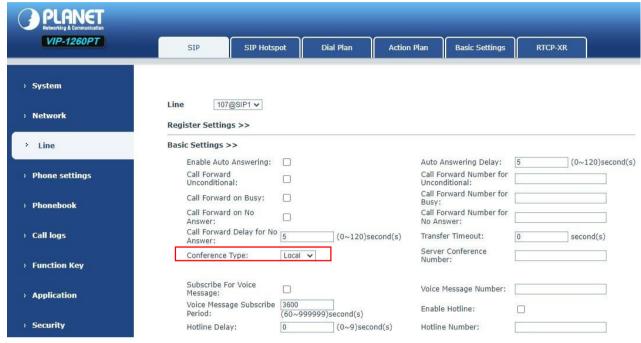


Picture 41 - Web call waiting tone setting

4.13 Conference

4.13.1 Local Conference

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



Picture 42 - Local conference setting

Two ways to create a local conference:

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



Picture 43 - Local conference (1)

2) 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:



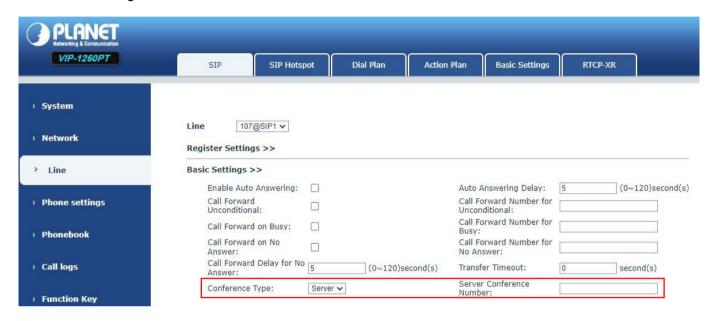
Picture 44 - Local conference (2)

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

4.13.2 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 45 - Network conference

Method to join a network conference:

- Multi-party call number of network conference room and enter the password then all 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.

4.14 Call Park

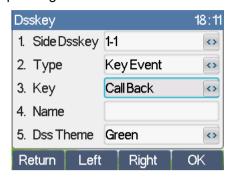
Call park requires server support. Consult your system administrator for support.

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

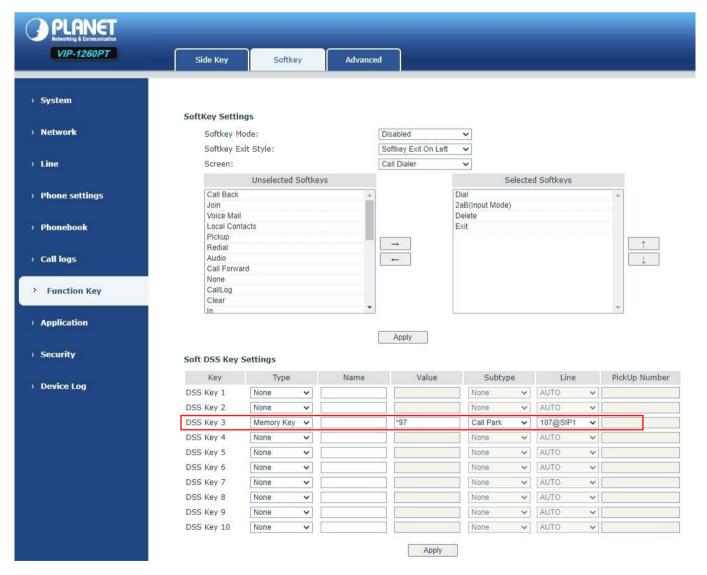
Set the call park button:

Phone interface: long-press a function key to enter the function key Settings interface, or through the [Menu] >> [Basic Settings] >> [Keyboard Settings] enter the settings interface of function keys, and set the key function type as memory and subtypes as call park, reside values for the server calls park number, set up corresponding SIP lines.

Web interface: log in the phone page, enter the [Function Key] >> [SoftKey] page, select a DSS key, set the function key type as memory key, the subtype as call park, and the value as the call park number of the server, and set the corresponding SIP line.



Picture 46 - Phone set call park



Picture 47 - Web set call park

4.15 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 DSS key for BLF and setting the Pick Up code.

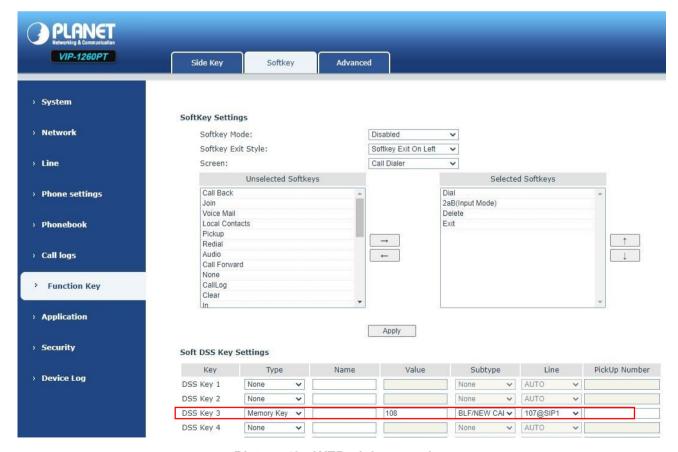
Phone interface: press [Menu] >> [Basic Settings] >> [Keyboard Settings] >> [DSS Key Settings], select the function key to set.

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

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



Picture 48 - Phone pick up setting



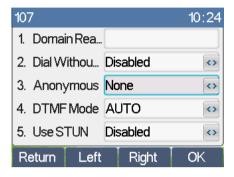
Picture 49 - WEB pick up setting

4.16 Anonymous Call

4.16.1 Anonymous Call

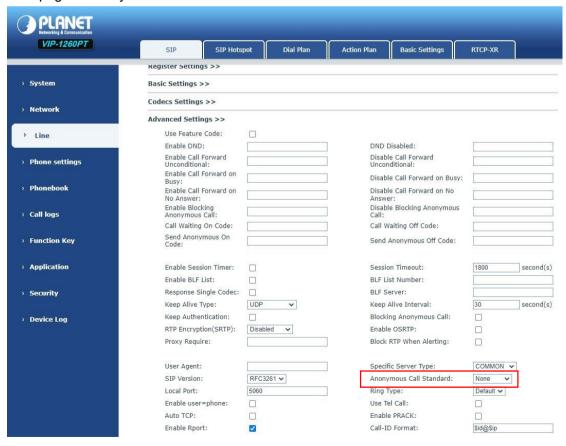
The phone can set up anonymous calls to hide the calling number and the calling name.

- You can see anonymity in the context of [Menu] >> [System] >> [Accounts] >> [Advanced].
- The default is none, which is off, and RFC3323 and RFC3325 are optional.
- Select any one to open the anonymous call.



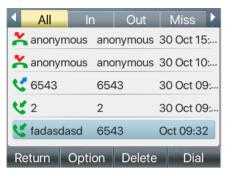
Picture 50 - Enable anonymous call

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



Picture 51 - Enable Anonymous web page call

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

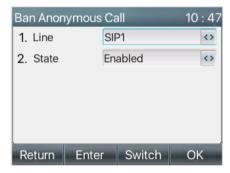


Picture 52 - Anonymous call log

4.16.2 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 [Menu] >> [Features] >> [Ban anonymous call], click to enter and all SIP lines will be displayed.
- Click Softkey [Switch] or [<] [>] to switch the SIP line and enable anonymous call.



Picture 53 - Anonymous calls are not allowed on the phone

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



Picture 54 - Page Settings blocking anonymous call

4.17 Hotline

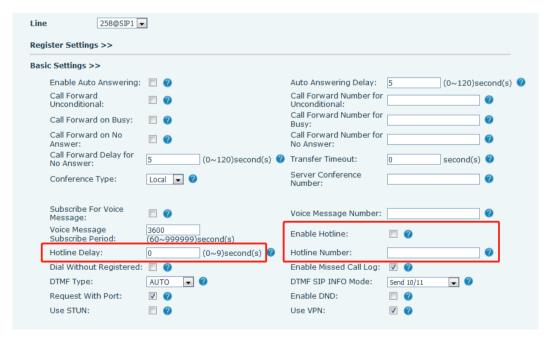
The device supports hotline dialing. After setting up the hotline dialing, directly pick up the handset, hands-free, earphone, etc., and the phone will make automatic hotline call based upon the setting of hotline delay time.

- In the phone [Menu] >> [Features] >> [Advanced] >> [Hotline], click to enter and all SIP lines will be displayed.
- Then set the hotline for each SIP line, which is disabled by default.
- Enable the hotline, set the hotline number, set the delay time of the hotline.



Picture 55 - Phone hotline setting interface

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

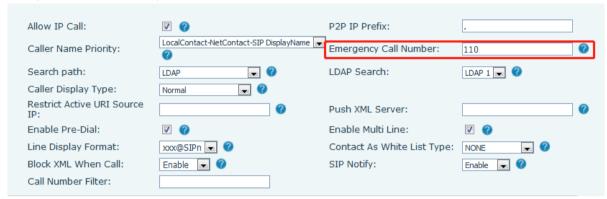


Picture 56 - Hotline set up on webpage

4.18 Emergency Call

The emergency call function is used to set the corresponding emergency call number on the phone when the keypad is locked. You can still call emergency services when your phone is locked.

Configure the emergency call number: log in the phone page, enter the [Phone Settings] >> [Basic Settings] page, set up the emergency call code, if you need to set up more than one emergency call code, please use ", "to separate.



Picture 57 - Set up an emergency call number

2) When the phone set the keyboard lock, you can call the emergency call number without unlocking, as shown in the figure:



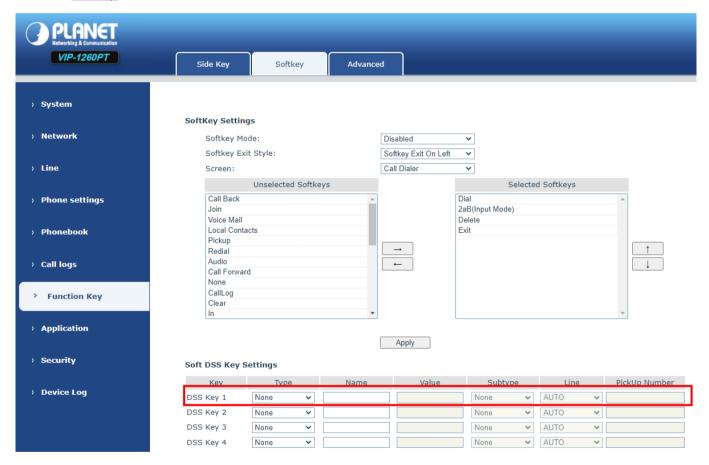
Picture 58 - Dial the emergency number

5 Advanced Function

5.1 BLF (Busy Lamp Field)

5.1.1 Configure the BLF Functionality

Page interface: log in the phone page, enter the [Function key] >> [Softkey] 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 to be subscribed, set the corresponding SIP line. The pickup number is provided by the server. The specific usage refers to Pick up.



Picture 59 - Web page configuration BLF function key

• Phone interface: long press a function key to enter the function key Settings interface, or go to the [Menu] >> [Basic Settings] >> [Keyboard Settings] to enter [DSSkey Settings] to enter the settings interface, set the key function types as memory keys and a subtype of BLF/NEW CALL, BLF/BXFER, BLF/AXFER, BLF/CONF, BLF/DTMF. The values is the subscription number, and set up corresponding SIP lines.



Picture 60 - Phone configuration BLF function key

Table 8 - BLF Function key subtype parameter list

Subtype	Standby is subscribed	Calling is subscribed
BLF/NEW CALL	Pressing the BLF key while standby to dial the subscriber number.	When you press this BLF key while talking to another user, you create a new call along with the subscribed number.
BLF/BXFE R	Pressing the BLF key in standby mode to dial the subscriber number.	When you press the BLF key while talking to another user, you blind transfer the call to the subscribed number.
BLF/AXFE R	Pressing the BLF key in standby mode to dial the subscriber number.	When you press the BLF key while talking to another user, you attended-transfer the call to the subscribed number.
BLF/Confer ence	Pressing the BLF key in standby mode to dial the subscriber number.	When you press the BLF key while talking to another user, you invite the subscriber number to join the meeting.
BLF/DTMF	Pressing the BLF key in standby mode to dial the subscriber number.	When the BLF key is pressed while talking to another user, the phone automatically sends the DTMF corresponding to the BLF key number.

5.1.2 Use the BLF Function

The BLF, also known as a "Busy Lamp 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 functions:

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

Configuration of BLF function keys - when the state (idle, ringing, talking) of the subscribed number is changed, the LED light of the function key will change correspondingly. See <u>Appendix III - LED</u> to understand how the status LED changes according to each BLF state.

Call the subscribed number.

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

3) Transfer calls to the subscribed number.

Refer to <u>BLF Function Key</u> subtype parameter list, the BLF key can be used for blind transfer, attended-transfer and semi-attended-transfer of the current call, and also can invite the subscribed number to join the call and send DTMF, etc.

4) Pick up incoming calls from subscribed phones.

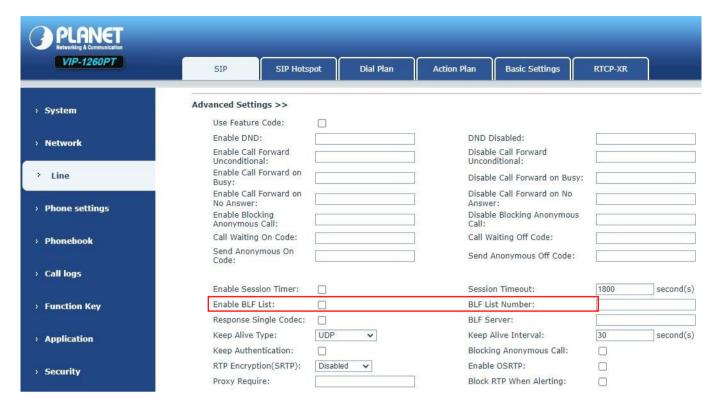
When configuring BLF function key, the pickup number is set.

When the subscribed number telephone rings, refer to <u>Appendix III – LED Definition</u>, BLF LED will turn red. At this point, press the BLF button to answer the incoming call from the subscribed number.

5.2 BLF List

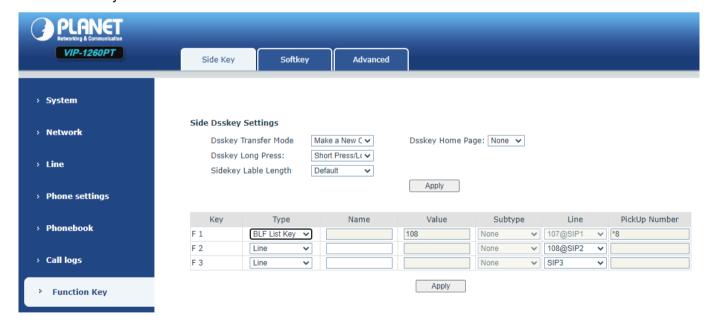
BLF List Key is to put the subscribed numbers in a group on the server. The phone uses the URL of the group to create unified subscription. The specific information, number, name and status of each number can be resolved based on notifications sent from the server. The unoccupied Memory Key is then set as the BLF List Key. If the state of the subscribed object changes later, the corresponding led light state will change accordingly.

Configure BLF List function: log in the phone page, enter the [Line] >> [SIP] >> [Advanced Settings] page, enable the BLF List, and configure the BLF List number.



Picture 61 - Configure the BLF List functionality

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



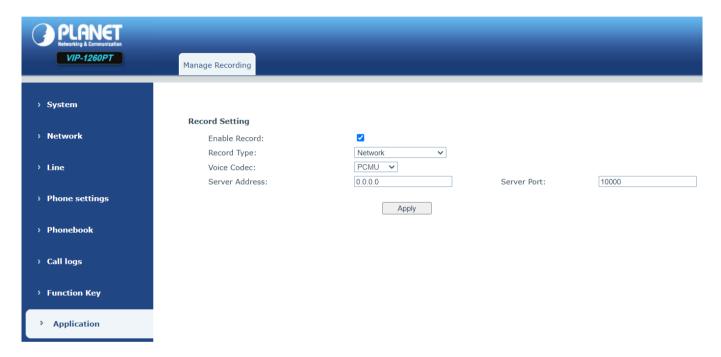
Picture 62 - BLF List number display

5.3 Record

The device supports recording during a call.

5.3.1 Server Record

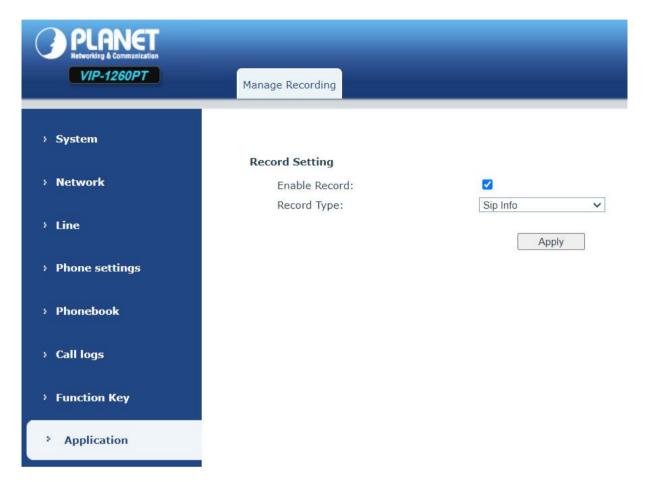
When using the network server to record, it is necessary to enable the recording function in the phone web page [**Application**] >> [**Manage recording**]. The type is selected as network, and the address and port of the recording server are filled in and the voice coding is selected. The web is as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



Picture 63 - Web server recording

5.3.2 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 recording, and the recording type is SIP Info.



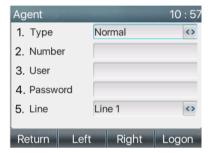
Picture 64 - Web SIP info recording

5.4 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 DSSkey as agent, press the function key or enter the [Menu] >> [Features] >> [Agent] to enter the agent page. The SIP server needs to be configured before the account can be configured.



Picture 65 - Configure the agent account in normal mode



Picture 66 - Configure the proxy account-hotel Guest mode

Table 9 - Agency mode

Parameter	Description	
Normal mode		
Number	Set the proxy account number.	
User	Set the proxy account number to verify the user name.	
Password	Set the proxy account number to verify the password.	
Line	Select the SIP line.	
CallLog	Users can choose to save all types, or delete.	
Hotel Guest mode		
Number	Set the proxy account number.	
Password	Set the proxy account number to verify the password.	
Line	Select the SIP line.	
CallLog	Users can choose to save all types, or delete.	

Using agent functions:

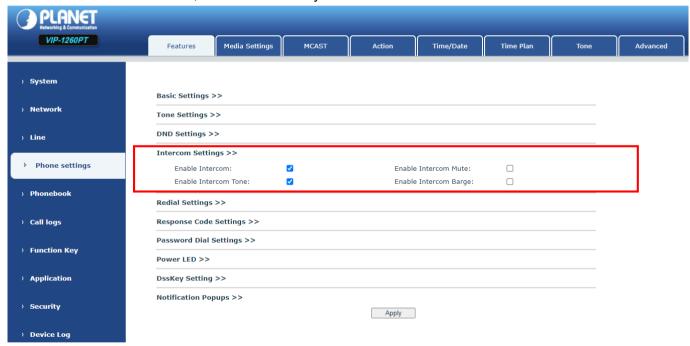
- 1) When he phone has been configured on SIP server, fill in the correct number and user name password, click login and then the phone can be registered to the SIP server;
- 2) After registration, click logout and the phone deletes the user name and password, and log out of the SIP account.
- 3) Click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



Picture 67 - Agent logon page

5.5 Intercom

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



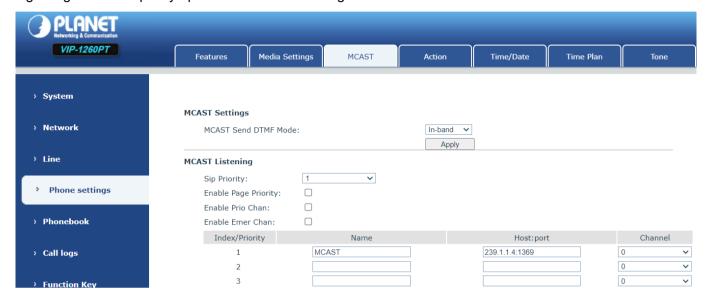
Picture 68 - Web Intercom configure

Table 10 - Intercom configure

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

5.6 MCAST

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



Picture 69 - Multicast Settings Page

Table 11 - MCAST Parameters on Web

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

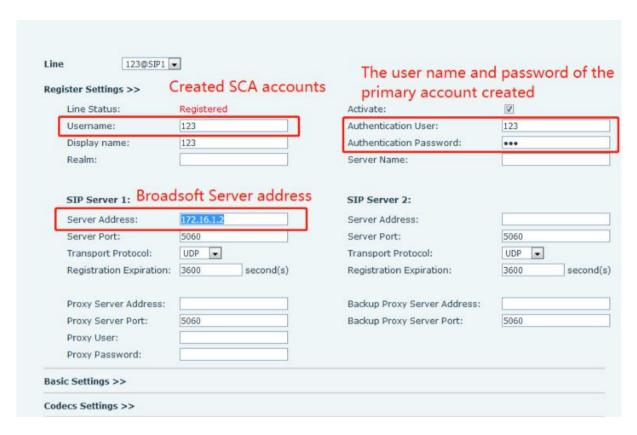
Multicast:

- Go to web page of [Function Key] >> [SoftKey], 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 DSSKY of Multicast Key which you set.
- Receive end will receive multicast call and play multicast automatically.

5.7 SCA (Shared Call Appearance)

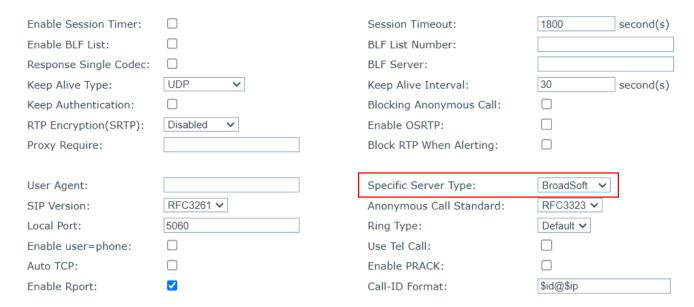
Users need the support of server end to use SCA function.

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



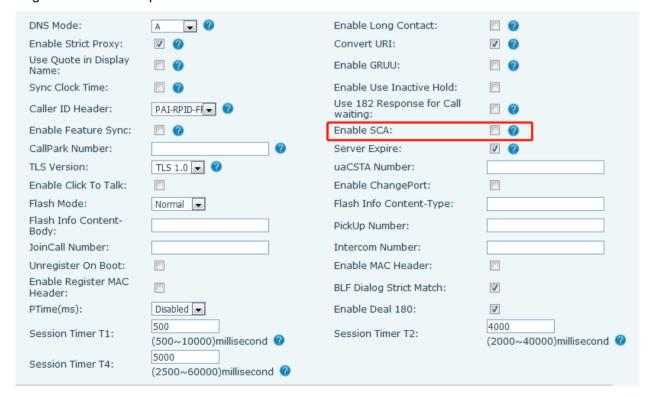
Picture 70 - Register BroadSoft account

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



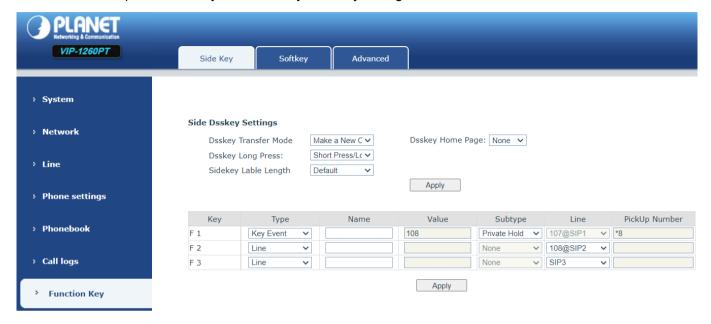
Picture 71 - Set BroadSoft server

If an IP phone needs to enable the SCA function. 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 the private line.



Picture 72 - Enable SCA

• After an account is configured and successfully registered, you can configure the line whose DSS Key is Shared Call Appearance 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 Appendix III - LED
To facilitate private hold, configure keys whose DSS Key is Private Hold on the Function Key page. Pay attention that the public hold key is the softkey-hold key during a call.



Picture 73 - Set Private Hold Function Key

 Each phone registered with the BroadSoft server should be configured as above, then the SCA function can be used.

2) LED Status

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

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

Table 12 - LED Status of SCA

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.

5.8 Message

5.8.1 **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 [Menu] >> [Message] >> [SMS].
- Users can create new messages, select lines and send numbers.
- After editing is completed, 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's [Reply], edit it, and click Send.

5.8.2 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

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 Side Key is pre-installed with a voice message shortcut key [MWI] key.
- Press [MWI] to open the voice message configuration interface, and select the line to be configured by pressing the up/down navigation buttons.
- Press the [**Edit**] button to edit the voice message number. When finished, press the [**OK**] button to save the configuration.
- In the following picture, "17" in front of the line brackets represents unread voice messages, and "17" represents the total number of voice messages.



Picture 76 - Voice message interface



Picture 77 - Configure voicemail number

5.9 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.

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

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

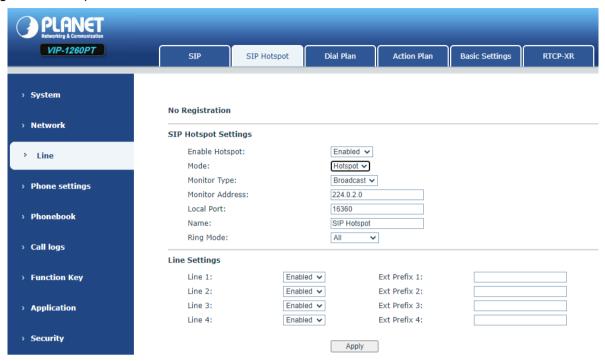


Picture 78 - Register SIP account

Table 13 - SIP hotspot Parameters

Parameters	Description
	If your phone is set as "SIP hotspot server", Device Table will display as Client
Device Table	Device Table which connects 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	Enable the feature.
Mode	Choose hotspot, the phone becomes a "SIP hotspot server"; Choose Client, the
Wode	phone becomes a "SIP hotspot Client"
	Either the Multicast or Broadcast is ok. If you want to limit the broadcast packets,
Monitor Type	you would 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 all the same.
Local Port	Type the local port number.
Name	Name of the Hotspot

Configure SIP hotspot server:



Picture 79 - SIP hotspot server configuration

Configure SIP hotspot client:

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



Picture 80 - SIP hotspot client configuration

As the hotspot server, the default extension number is 0. When the phone is used as the client, the extension number increases from 001, you can view the extension number on the [SIP] page. Call extension number:

- The hotspot server and the client can dial each other through the extension number.
- For example, extension 001 dials extension 000.

6 Phone Settings

6.1 Basic Settings

6.1.1 Language

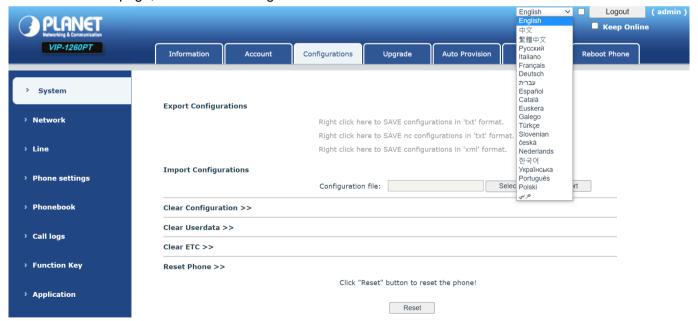
The user can set the phone language through the phone interface and web interface.

 Phone end: After resetting the phone with factory settings, the user needs to set the language; when setting the language during standby, go to [Menu] >> [Basic] >> [Language] Settings, as shown in the figure.



Picture 81 - Phone language setting

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



Picture 82 - Language setting on Web page

The check box next to the language setting field on the webpage is synchronous to the phone. When
checked, the phone language will be synchronized with the webpage language. If it is unchecked, the
language will not be synchronized.

6.1.2 Time & Date

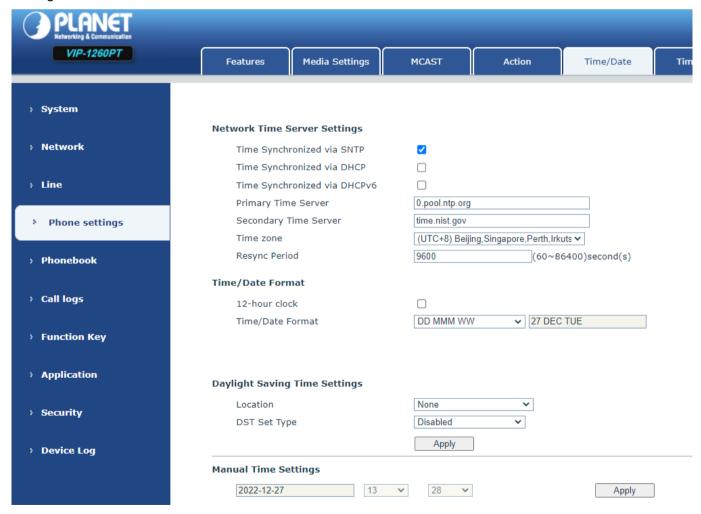
Users can set the phone time through the phone interface and web interface.

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



Picture 83 - Set time & date on phone

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



Picture 84 - Set time & date on webpage

Table 14 - Time Settings Parameters

Parameters	Description
	Auto/Manual
Mode	Auto: Enable network time synchronization via SNTP protocol, default
Mode	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 followings:
	■ 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 moth and day
12-Hour Clock	Display the clock in 12-hour format
Daylight Saving Time Enable or Disable the Daylight Saving Time	

6.1.3 Screen

The user can set the phone screen parameters through both of the phone interface and web interface.

Phone: When the phone is in the default standby state, go to [Menu] >> [Basic] >> [Screen Settings] to
edit the screen parameters. After editing, click [OK] to save, as shown in the figure:



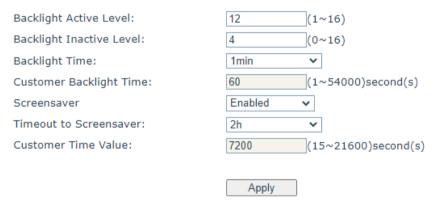
Picture 85 - Set screen parameters on phone

Web: Go to [Phone Settings] >> [Advanced], edit the screen parameters, and click Apply to save.

6.1.3.1 Brightness and backlight

- Set the brightness level in use from 1 to 16, [<] or [>] switch brightness level.
- Set the brightness level in the energy-saving mode from 0 to 16, [<] or [>] switch the brightness level.
- Set the backlight time to 30 seconds by default. You can turn it off or select 15 seconds /30 seconds /45 seconds /60 seconds /90 seconds /120 seconds.
- The screen saver can be turned on or off by default.
- Web interface: enter [Phone Settings] >> [Advanced], edit screen parameters, and click submit to save.

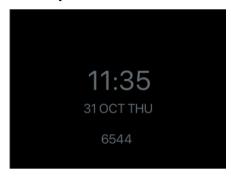
Screen Configuration



Picture 86 - Page screen Settings

6.1.3.2 Screen Saver

- Press [Screen Settings] to find the [Screensaver] button, press [left] / [right] button to Enable/Disable
 the screen protection, set the timeout duration, the default is 15s, after completion, press [OK] button to
 save.
- After saving the setting, return to standby mode and enter the screen saver after 15s, as follows:



Picture 87 - Phone screen saver

6.1.4 Ring

When the device is in the default standby mode,

- Press soft-button [Menu] till you find the [Basic] item.
- Enter [Basic] item till you find [Ring] item.
- Enter [Ring] item and you will find [Headset] or [Handsfree] item, press left / right navigator keys to adjust the ring volume, save the adjustment by pressing [OK] when done.
- Enter [Ring type] item, press left / right navigator keys to change the ring type, save the adjustment by pressing [OK] when done.

6.1.5 Voice Volume

When the device is in the default standby mode,

- Press soft-button [Menu] till you find the [Basic] item.
- Enter [Basic] item till you find [Voice Volume] item.
- Enter [Voice Volume] item and you will find [Headset], [Handsfree] and [Headset] item.
- Enter [Headset] or [Handsfree] or [Headset] item, press Left / Right navigator keys to adjust the audio volume for different mode.
- Save the adjustment by pressing [OK] when done

6.1.6 Greeting Words

When the device is in the default standby mode,

- Press soft-button [Menu] till you find the [Basic] item.
- Enter [Basic] item till you find [Greeting Words] item.
- Press [**OK**] to enter the setting interface to edit the Greetings Words.
- Save the adjustment by pressing [OK] when done.

Note! The welcome message can only be displayed in the upper left corner of standby mode when the default option is disabled.

6.1.7 Reboot

When the device is in the default standby mode,

- Press soft-button [Menu] till you find the [Basic] item.
- Enter [Basic] item till you find [Reboot System] item.
- Press [OK] a prompt message, "Reboot Now," prompts the user.
- Press [OK] to restart the phone or [Cancel].

6.2 Phone Book

6.2.1 Local Contact

User can save contacts' information in the phone book and dial the contact's phone number(s) from the phone book. To open the phone book, user should press soft-menu button [**Contact**] in the default standby screen or keypad.

By default the phone book is empty, user may add contact(s) into the phone book manually or from call logs.



Picture 88 - Phone book screen

Note! Phone user account can store contact information, different models and specifications.



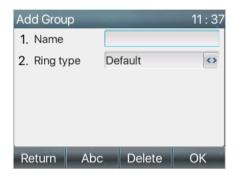
Picture 89 - Local Phone book

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.

6.2.1.1 Add / Edit / Delete Contact

To add a new contact, user should press [Add] button to open Add Contact screen and enter the contact information of the followings,

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



Picture 90 - 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].

6.2.1.2 Add / Edit / Delete Group

By default, the group list is blank. User can create his/her own groups, edit the group name, add or remove contacts in the group, and delete a group.

- To add a group, press [Add Group] button.
- To delete a group, press [Option] >> [Delete] button.
- To edit a group, press [Edit] button.

The Number behind the group name means the total contacts number of selected groups.



Picture 91 - Group List

6.2.1.3 Browse and Add / Remove Contacts in Group

User can browse contacts in a group by opening the group in group list with [OK] button.



Picture 92 - Browsing Contacts in a Group

When user is browsing contacts of a group, user can also add contacts in that group by pressing [Add] button to enter the group contacts management interface, then press [OK] button to save the contact. The contact will also be added in local phonebook. User can delete contact from group by [Option] >> [Delete].

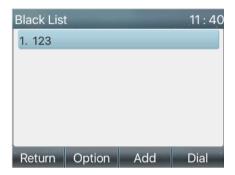


Picture 93 - Add Contacts in a Group

6.2.2 Blacklist

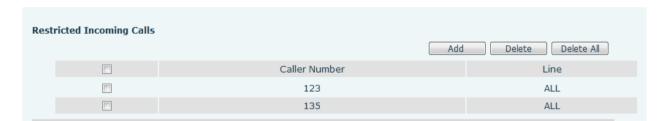
The device Support blacklist. When numbers are added to the blacklist, the calls from those numbers are refused silently and not shown on the phone as incoming calls. (Blacklisted Numbers can be called normally)

- There are multiple ways to add a number to Blacklist on X210 device. It can be added directly on [Menu] >> [Contact] >> [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 94 - Add Blacklist

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



Picture 95 - Web Blacklist

6.2.3 Cloud Phone Book

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

Note! The cloud phonebook is ONLY temporarily downloaded to the device each time when it is opened on the device to ensure the user gets the latest phonebook. However, the download may take a couple of 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 [Menu] >> [Contact] >> [Cloud Contacts] in phonebook screen.

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



Picture 96 - Cloud phone book list

6.2.3.2 Downloading Cloud Phone book

In cloud phone book screen, user can open a cloud phone book by pressing [**OK**] / [**Enter**] button. 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 97 - Downloading Cloud Phone book



Picture 98 - Browsing Contacts in Cloud Phone book

6.3 Call Log

The phone can store the call records (the quantity of storage varies according to different specifications). The user can press [CallLog] to open the call records and check the records of all incoming calls, outgoing calls and missed calls.

In the call logs interface, 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 **[OK]** button and dial the number with **[Dial]** button, or add the call log number to phonebook with pressing **[Option]** >> **[Add to Contact]**.

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



Picture 99 - 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.

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



Picture 100 - Filter call record types

6.4 Function Key

Users can use the page switch key to switch DSS display pages quickly. In addition, the user can also long press each DSS key to modify the corresponding key Settings.

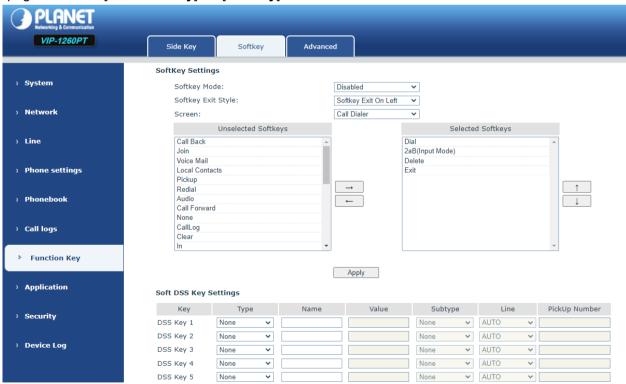


Picture 101 - DSS LCD key Page Configuration Screen

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
- Multicast
- Action URL
- ♦ XML Browser

Webpage interface: [Function key] >> [Softkey].



Picture 102 - DSS settings

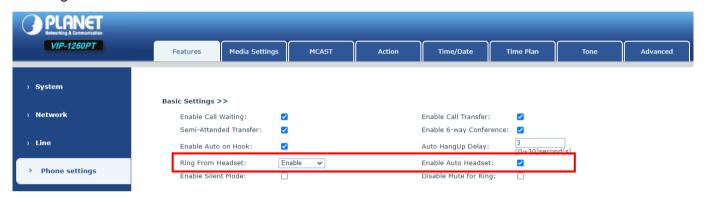
Moreover, user also can add the user-defined title for the DSS Keys, which is configured as Memory Key / Line / URL / Multicast / Prefix.

More detailed information refers to Function Key and Appendix III - LED Definition .

6.5 Headset

6.5.1 Wired Headset

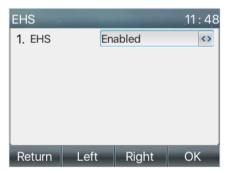
- The device supports wired earphone with RJ9 interface, which can play incoming call sound and talk with earphone.
- After the phone is connected to the headset, the default DSS key of headset will be green light which
 indicating that the headset can be used normally.
- On the webpage [Phone settings]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



Picture 103 - Headset function settings

6.5.2 EHS Headset

Phone into [Menu] >> [Function] >> [Advanced], Select [EHS Headset], can open EHS Headset (default closed EHS Headset).



Picture 104 - EHS Headset setting

6.6 Advanced

6.6.1 Line Configurations



Picture 105 - SIP address and account information

Save the adjustment by pressing [OK] when done.

Users who want to configure more options should use web management portal to modify or System in accounts on the individual line to configure those options.



Picture 106 - Configure Advanced Line Options

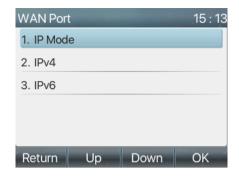
6.6.2 Network Settings

6.6.2.1 Network Settings

■ IP Mode

There are 3 network protocol mode options, IPv4, IPv6 and IPv4 & IPv6.

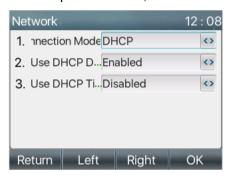
User could select available mode via "<" or ">". The selected IP mode will be activated after pressing [OK] button.



Picture 107 - Network mode Settings

■ IPv4

In IPv4 mode, there are 3 connection mode options: DHCP, PPPoE and Static IP.



Picture 108 - DHCP network mode

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

- Use DHCP DNS: It is enabled as default. "Enable" means phone will get DNS address from DHCP server and "disable" means not.
- Use DHCP time: It is disabled as default. "Enable" to manage the time of get DNS address from DHCP server and "disable" means not.



Picture 109 - PPPoE network mode

When using PPPoE, phone will get the IP address from PPPoE server.

- Username: PPPoE user name.
- Password: PPPoE password.



Picture 110 - Static IP network mode

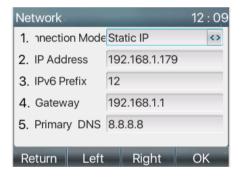
When using Static IP mode, user must configure the IP address manually.

- IP Address: Phone IP address.
- Mask: sub mask of your LAN.
- 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: When primary DNS is not available, Secondary DNS will work.

■ IPv6

In IPv6, there are 2 connection mode options, DHCP and Static IP.

- DHCP configuration refers to IPv4 introduction in last page.
- Static IP configuration is almost same as IPv4's, except the IPv6 Prefix.
- IPv6 Prefix: IPv6 prefix, it is similar with mask of IPv4.



Picture 111 - IPv6 Static IP network mode

6.6.2.2 QoS & VLAN

■ 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 learn feature to apply the VLAN ID from VLAN switch to phone its self.

■ CDP

Cisco Discovery Protocol. CDP is a not-for-profit charity that runs the global disclosure system for investors, companies, cities, states and regions to manage their environmental impacts. According to the CDP, Cisco

devices could share the OS version, IP address, hardware version and so on.

Table 15 - QoS & VLAN

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

6.6.2.3 **VPN**

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

For some users, especially enterprise users, a VPN connection might be required to be established before activate a line registration. The device supports two VPN modes, Layer 2 Transportation Protocol (L2TP) and OpenVPN.

The VPN connection must be configured and started (or stopped) from the device web portal.

■ L2TP

Note! The device only supports non-encrypted basic authentication and non-encrypted data tunneling. For users who need data encryption, please use OpenVPN instead.

To establish a L2TP connection, users should log in to the device web portal, open webpage [**Network**] >> [**VPN**]. In VPN Mode, check the "Enable VPN" option and select "L2TP", then fill in the L2TP server address, Authentication Username, and Authentication Password in the L2TP section. Press "Apply" then the device will try to connect to the L2TP server.

When the VPN connection established, the VPN IP Address should be displayed in the VPN status. There may be the delay of the connection establishment. User may need to refresh the page to update the status. Once the VPN is configured, the device will try to connect with the VPN automatically when the device boots up every time until user disable it. Sometimes, if the VPN connection does not establish immediately, user may try to reboot the device and check if VPN connection established after reboot.

OpenVPN

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

OpenVPN Configuration file: client.ovpn

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

User then upload these files to the device in the web page [**Network**] >> [**VPN**], select OpenVPN Files. Then user should check "Enable VPN" and select "OpenVPN" in VPN Mode and click "Apply" to enable OpenVPN connection.

Same as L2TP connection, the connection will be established every time when system rebooted until user disable it manually.

6.6.2.4 Web Server Type

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



Picture 112 - The phone configures the web server type

6.6.3 Set The Secret Key

When the device is in the default standby mode,

- Select [Menu] >> [Advanced setting], and enter it via [Confirm] or [OK] button.
- As default, the Advance setting password is 123.
- User will see the follow page after menu Advanced setting Security.





Picture 113 - Keypad lock password

Menu password is the permission for accessing the advanced setting.

- [Current password] is the password user configured before. If no configuration before, the default password is 123.
- [New password] is the new password user to use.
- After configuring the menu password, it will work immediately.

Keyboard password is used to unlock the phone once it's locked.



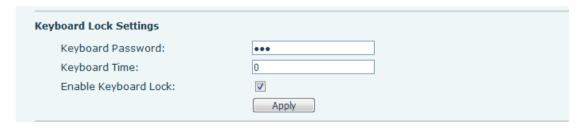
Picture 114 - Set keyboard lock password

User could only set to enable or disable the keyboard password in LCD screen.

- Enter [Keyboard password] setting by pressing [confirm] or [OK] button after password entered. If no menu password configuration before, it is 123 as default.
- If the menu password is correct, phone will go to keyboard password interface. As default, the keyboard password is disabled. When it is enabled, the keyboard will be locked after timeout.
- If user does not configure the keyboard lock time, (it is 0 as default). Long pressing "#" will lock the phone. There will be a lock icon in the top of LCD. Phone will reminder "Enter Password" after pressing any keys.



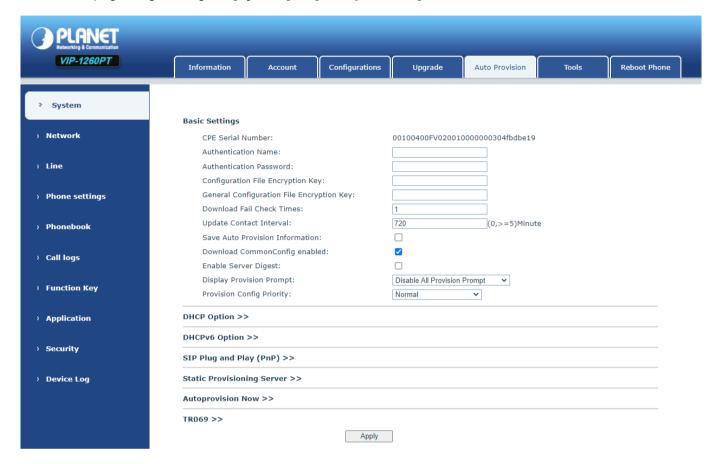
Picture 115 - Phone keypad lock password input interface



Picture 116 - Web keyboard lock password Settings

6.6.4 Maintenance

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



Picture 117 - Page auto provision Settings

LCD: [Menu] >> [Advanced setting] >> [Maintenance] >> [Auto Provision].



Picture 118 - Phone auto provision settings

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

PNP>DHCP>TR069> Static Provisioning

Transferring protocol: FTP, TFTP, HTTP, HTTPS

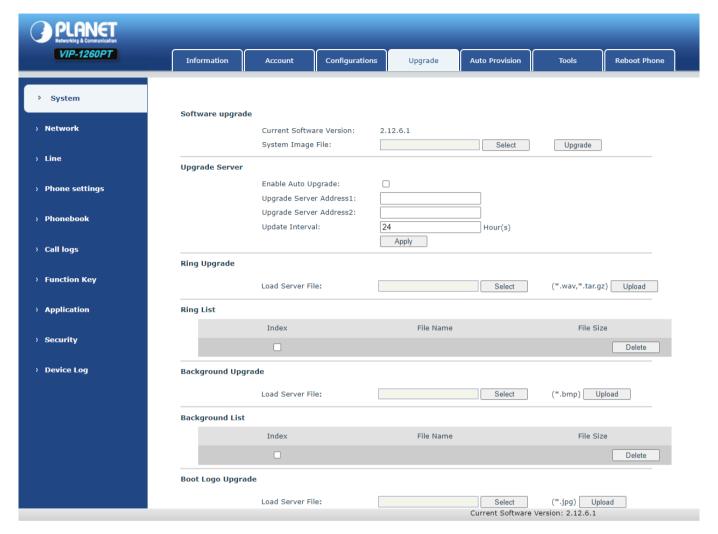
Table 16 - Auto Provision

Parameters	Description
Basic settings	
CPE Serial Number	Display the device SN
Authentication Name	The user name of provision server
Authentication Password	The password of provision server
Configuration File	If the device configuration file is encrypted , user should add the encryption
Encryption Key	key here
General Configuration File	If the common configuration file is encrypted, user should add the encryption
Encryption Key	key here
Download Fail Check Times	If there download is failed, phone will retry with the configured times.
Update Contact Interval	Phone will update the phonebook with the configured interval time. If it is 0,
	the feature is disabled.
Save Auto Provision	Save the HTTP/HTTPS/FTP user name and password. If the provision URL is
Information	kept, the information will be kept.
Download Common	Whather 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	
	Confiugre DHCP option, DHCP option supports DHCP custom option DHCP
Option Value	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
Custom Option value	same as server define.
Enable DHCP Option 120	Use Option120 to get the SIP server address from DHCP server.
SIP Plug and Play (PnP)	
	Whether enable PnP or not. If PnP is enable, phone will send a SIP
Enable SIP PnP	SUBSCRIBE message with broadcast method. Any server can support the
Lilabic Oil 1 III	feature will respond and send a Notify with URL to phone. Phone could get
	the configuration file with the URL.
Server Address	Broadcast address. As default, it is 224.0.0.0.
Server Port	PnP port
Transport Protocol	PnP protocol, TCP or UDP.
Update Interval	PnP message interval.
Static Provisioning Serve	
Server Address	Provisioning server address. Support both IP address and domain address.
Configuration File Name	The configuration file name. If it is empty, phone will request the common file

	and device file which is named as its MAC address.
	The file name could be a common name, \$mac.cfg, \$input.cfg. The file format
	supports CFG/TXT/XML.
Protocol Type	Transferring protocol type, supports FTP, TFTP, HTTP and HTTPS
Update Interval	Configuration file update interval time. As default it is 1, means phone will
Opuale interval	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 TDOGO is analyted, there will be a prompt tone when connecting
Tone	If TR069 is enabled, there will be a prompt tone when connecting.
TLS Version	TLS version (TLS 1.0, TLS 1.1, TLS 1.2)
INFORM Sending Period	INFORM signal interval time. It ranges from 1s to 999s
STUN Server Address	Configure STUN server address
STUN Enable	To enable STUN server for TR069

6.6.5 Firmware Upgrade

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



Picture 119 - Web page firmware upgrade

LCD interface: go to [Menu] >> [System] >> [Firmware Upgrade] .



Picture 120 - Firmware upgrade information display

Table 17 - Firmware upgrade

Parameter	Description		
Upgrade server			
	Enable automatic upgrade, If there is a new version txt and new		
Enable Auto Upgrade	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 Address2	Set available upgrade server address.		
Update Interval	Set Update Interval.		
Firmware Information			
Current Software Version	It will show Current Software Version.		
Server Firmware Version	It will show Server Firmware Version.		
	If there is a new version txt and new software firmware on the server,		
[Ungrade] button	the page will display version information and upgrade button will		
[Upgrade] button	become available; Click [Upgrade] button to upgrade the new		
	firmware.		
Now version description	When there is a corresponding TXT file and version on the server		
New version description information	side, the TXT and version information will be displayed under the		
	new version description information.		

- The file requested from the server is a TXT file called vendor_model_hw10.txt.Hw followed by the hardware version number, it will be written as hw10 if no difference on hardware. All Spaces in the filename are replaced by underline.
- The URL requested by the phone is HTTP:// server address/vendor_Model_hw10
 .txt: The new version and the requested file should be placed in the download directory of the HTTP server.
- TXT file format must be UTF-8
- vendor_model_hw10.TXT The file format is as follows:

Version=1.6.3 #Firmware

Firmware=xxx/xxx.z #URL, Relative paths are supported and absolute paths are possible, distinguished by the presence of protocol headers.

BuildTime=2018.09.11 20:00

Info=TXT|XML

Xxxxx

Xxxxx

Xxxxx

Xxxxx

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

6.6.6 Factory Reset

The phone is in default standby mode.

- Press [Menu] to find [System], and press [OK].
- Press [System] to enter the password (default password is 123) to enter the interface.
- Press the [Factory 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.

7 Web Configurations

7.1 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.

7.2 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)

7.3 System >> Account

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

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

7.4 System >> Configurations

On this page, users with administrator privileges can view, export, or import the 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 User data

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

■ Clear ETC

Select the ETC files that users would like to clear.

■ Reset Phone

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

7.5 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.

7.6 System >> Auto Provision

The Auto Provision settings help IT manager or service provider to easily deploy and manage the devices in mass volume. For the detail of Auto Provision, please refer to this link Auto Provision Description.

7.7 System >> Tools

Tools provided in this page help users to identify issues at trouble shooting. Please refer to <u>Trouble Shooting</u> for more detail.

7.8 System >> Reboot Phone

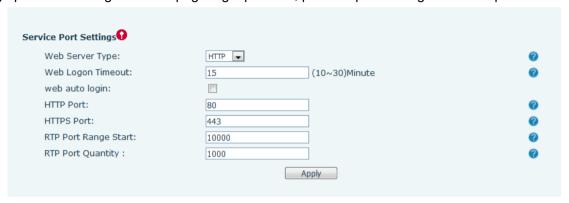
This page can restart the phone.

8 Network >> Basic

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

8.1 Network >> Service Port

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



Picture 121 - Service Port Settings

Table 18 - Service port

Parameter	Description	
Mah Caman Tura	Reboot to take effect after settings. Optionally, the web page login is	
Web Server Type	HTTP/HTTPS.	
Web Logon Timeout	Default as 15 minutes, the timeout will automatically exit the login page, need	
Web Logon Timeout	to login again.	
Mah auta lagin	After the timeout does not need to enter a user name password, will	
Web auto login	automatically login to the web page.	
LITTD Dort	The default is 80. If you want system security, you can set ports other than 80.	
HTTP Port	Such as :8080, webpage login: HTTP://ip:8080	
HTTPS Port	The default is 443, the same as the HTTP port.	
DTD D 4 D O4 4	The value range is 1025 to 65535. The value of RTP port starts from the initia	
RTP Port Range Start	value set. For each call, the value of voice and video port is added 2.	
RTP Port Quantity	Number of calls.	

8.2 Network >> VPN

Users can configure a VPN connection on this page. See <u>VPN</u> for more details.

8.3 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>Advanced</u> Settings.

8.4 Line >> SIP

Configure the Line service configuration on this page.

Table 19 - Line configuration on the web page

Parameters	Description		
Register Settings			
Line Status	Display the current line status at page loading. To get the up to date line status,		
	user has to refresh the page manually.		
Activate	Whether the service of the line is activated		
Username	Enter the username of the service account.		
Authentication User	Enter the authentication user of the service account		
Display Name	Enter the display name to be sent in a call request.		
Authentication Password	Enter the authentication password of the service account		
Realm	Enter the SIP domain if requested by the service provider		
Server Name	Input server name.		
SIP Server 1			
Server Address	Enter the IP or FQDN address of the SIP server		
Server Port	Enter the SIP server port, default is 5060		
Transport Protocol	Set up the SIP transport line using TCP or UDP or TLS.		
Registration Expiration	Set SIP expiration date.		
SIP Server 2			
Server Address	Enter the IP or FQDN address of the SIP server		
Server Port	Enter the SIP server port, default is 5060		
Transport Protocol	Set up the SIP transport line using TCP or UDP or TLS.		
Registration Expiration	Set SIP expiration date.		
SIP Proxy Server	Enter the IP or FQDN address of the SIP proxy server.		
Address	Efficient file in FQDN address of the SIP proxy server.		
Proxy Server Port	Enter the SIP proxy server port, default is 5060.		
Proxy User	Enter the SIP proxy user.		
Proxy Password	Enter the SIP proxy password.		
Backup Proxy Server	Enter the IP or EODN address of the backup providence		
Address	Enter the IP or FQDN address of the backup proxy server.		
Backup Proxy Server	Enter the backup proxy server port, default is 5060.		

Port				
Basic Settings				
Enable Auto Anguarina	Enable auto-answering, the incoming calls will be answered automatically after			
Enable Auto Answering	the delay time			
Auto Answering Delay	Set the delay for incoming call before the system automatically answered it			
Call Forward	Enable unconditional call forward, all incoming calls will be forwarded to the			
Unconditional	number specified in the next field			
Call Forward Number for	Set the number of unconditional call forward			
Unconditional	Set the number of unconditional call forward			
Call Forward on Busy	Enable call forward on busy, when the phone is busy, any incoming call will be			
Call I Olward Oll Busy	forwarded to the number specified in the next field.			
Call Forward Number for	Set the number of call forward on busy .			
Busy	Set the number of call forward on busy .			
Call Forward on No	Enable call forward on no answer, when an incoming call is not answered			
Answer	within the configured delay time, the call will be forwarded to the number			
71134401	specified in the next field.			
Call Forward Number for	Set the number of call forward on no answer.			
No Answer	det the number of call forward of no answer.			
Call Forward Delay for No	Set the delay time of not answered call before being forwarded.			
Answer	det the delay time of not answered can before being forwarded.			
Transfer Timeout	Set the timeout of call transfer process.			
	Set the type of call conference, Local=set up call conference by the device			
Conference Type	itself, maximum supports two remote parties, Server=set up call conference by			
	dialing to a conference room on the server			
Server Conference	Set the conference room number when conference type is set to be Server			
Number	Cot the completion formation when completely be cot to be conven			
Subscribe For Voice	Enable the device to subscribe a voice message waiting notification, if			
Message	enabled, the device will receive notification from the server if there is voice			
	message waiting on the server			
Voice Message Number	Set the number for retrieving voice message			
Voice Message	Set the interval of voice message notification subscription			
Subscribe Period				
	Enabling hotline configuration, the device will dial to the specific number			
Enable Hotline	immediately at audio channel opened by off-hook handset or turn on			
	hands-free speaker or headphone			
Hotline Delay	Set the delay for hotline before the system automatically dialed it			
Hotline Number	Set the hotline dialing number			
Dial Without Registered	Set call out by proxy without registration			

Enable Missed Call Log	If enabled, the phone will save missed calls into the call history record.		
DTMF Type	Set the DTMF type to be used for the line		
DTMF SIP INFO Mode	Set the SIP INFO mode to send '*' and '#' or '10' and '11'		
Enable DND	Enable Do-not-disturb, any incoming call to this line will be rejected		
	automatically		
Subscribe For Voice	Enable the device to subscribe a voice message waiting notification, if		
	enabled, the device will receive notification from the server if there is voice		
Message	message waiting on the server		
Use VPN	Set the line to use VPN restrict route		
Use STUN	Set the line to use STUN for NAT traversal		
Enable Failback	Whether to switch to the primary server when it is available.		
Failback Interval	A Register message is used to periodically detect the time interval for the		
raliback interval	availability of the main Proxy.		
Signal Failback	Multiple proxy cases, whether to allow the invite/register request to also		
Signal Failback	execute failback.		
Signal Dates Counts	The number of attempts that the SIP Request considers proxy unavailable		
Signal Retry Counts	under multiple proxy scenarios.		
Codoo Cottingo	Set the priority and availability of the codecs by adding or remove them from		
Codecs Settings	the list.		
Video Codecs	Select video code to preview video.		
System			
System	When this setting is enabled, the features in this section will not be handled by		
	When this setting is enabled, the features in this section will not be handled by the device itself but by the server instead. In order to control the enabling of the		
Use Feature Code			
	the device itself but by the server instead. In order to control the enabling of the		
	the device itself but by the server instead. In order to control the enabling of the features, the device will send feature code to the server by dialing the number		
Use Feature Code	the device itself but by the server instead. In order to control the enabling of the features, the device will send feature code to the server by dialing the number specified in each feature code field.		
Use Feature Code Enable DND	the device itself but by the server instead. In order to control the enabling of the features, the device will send feature code to the server by dialing the number specified in each feature code field. Set the feature code to dial to the server Set the feature code to dial to the server		
Use Feature Code Enable DND Disable DND	the device itself but by the server instead. In order to control the enabling of the features, the device will send feature code to the server by dialing the number specified in each feature code field. Set the feature code to dial to the server		
Use Feature Code Enable DND Disable DND Enable Call Forward	the device itself but by the server instead. In order to control the enabling of the features, the device will send feature code to the server by dialing the number specified in each feature code field. Set the feature code to dial to the server Set the feature code to dial to the server Set the feature code to dial to the server		
Use Feature Code Enable DND Disable DND Enable Call Forward Unconditional	the device itself but by the server instead. In order to control the enabling of the features, the device will send feature code to the server by dialing the number specified in each feature code field. Set the feature code to dial to the server Set the feature code to dial to the server		
Use Feature Code Enable DND Disable DND Enable Call Forward Unconditional Disable Call Forward	the device itself but by the server instead. In order to control the enabling of the features, the device will send feature code to the server by dialing the number specified in each feature code field. Set the feature code to dial to the server Set the feature code to dial to the server Set the feature code to dial to the server Set the feature code to dial to the server		
Use Feature Code Enable DND Disable DND Enable Call Forward Unconditional Disable Call Forward Unconditional	the device itself but by the server instead. In order to control the enabling of the features, the device will send feature code to the server by dialing the number specified in each feature code field. Set the feature code to dial to the server Set the feature code to dial to the server Set the feature code to dial to the server		
Use Feature Code Enable DND Disable DND Enable Call Forward Unconditional Disable Call Forward Unconditional Enable Call Forward on	the device itself but by the server instead. In order to control the enabling of the features, the device will send feature code to the server by dialing the number specified in each feature code field. Set the feature code to dial to the server Set the feature code to dial to the server Set the feature code to dial to the server Set the feature code to dial to the server Set the feature code to dial to the server		
Use Feature Code Enable DND Disable DND Enable Call Forward Unconditional Disable Call Forward Unconditional Enable Call Forward on Busy	the device itself but by the server instead. In order to control the enabling of the features, the device will send feature code to the server by dialing the number specified in each feature code field. Set the feature code to dial to the server Set the feature code to dial to the server Set the feature code to dial to the server Set the feature code to dial to the server		
Use Feature Code Enable DND Disable DND Enable Call Forward Unconditional Disable Call Forward Unconditional Enable Call Forward on Busy Disable Call Forward on	the device itself but by the server instead. In order to control the enabling of the features, the device will send feature code to the server by dialing the number specified in each feature code field. Set the feature code to dial to the server Set the feature code to dial to the server Set the feature code to dial to the server Set the feature code to dial to the server Set the feature code to dial to the server Set the feature code to dial to the server Set the feature code to dial to the server		
Use Feature Code Enable DND Disable DND Enable Call Forward Unconditional Disable Call Forward Unconditional Enable Call Forward on Busy Disable Call Forward on Busy	the device itself but by the server instead. In order to control the enabling of the features, the device will send feature code to the server by dialing the number specified in each feature code field. Set the feature code to dial to the server Set the feature code to dial to the server Set the feature code to dial to the server Set the feature code to dial to the server Set the feature code to dial to the server		

No Answer				
Enable Blocking				
Anonymous Call	Set the feature code to dial to the server			
Disable Blocking	Cat the factions and to dial to the same			
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	Set the feature code to dial to the server			
Code	Set the leature code to dial to the server			
Send Anonymous Off	Set the feature code to dial to the server			
Code	Set the leature code to dial to the server			
SIP Encryption	Enable SIP encryption such that SIP transmission will be encrypted			
RTP Encryption	Enable RTP encryption such that RTP transmission will be encrypted			
	Set the line to enable call ending by session timer refreshment. The call			
Enable Session Timer	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			
DEI EISTNUMBEI	are supported.			
Response Single Codec	If setting enabled, the device will use single codec in response to an incoming			
rtesponse single codec	call request			
	The registered server will receive the subscription package from ordinary			
BLF Server	application of BLF phone.			
BEI GGIVEI	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	Set the standard to be used for anonymous			
Standard	Set the standard to be used for anonymous			
Local Port	Set the local port			
Ring Type	Set the ring tone type for the line			

Enable user=phone	Sets user=phone in SIP messages.		
Use Tel Call	Set use tel call		
Auto TCP	Using TCP protocol to guarantee usability of transport for SIP messages above		
	1500 bytes		
Enable Rport	Set the line to add rport in SIP headers		
Enable PRACK	Set the line to support PRACK SIP message		
DNS Mode	Select DNS mode, A, SRV, NAPTR		
Enable Long Contact	Allow more parameters in contact field per RFC 3840		
	Enables the use of strict routing. When the phone receives packets from the		
Enable Strict Proxy	server, it will use the source IP address, not the address in via field.		
Convert URI	Convert not digit and alphabet characters to %hh hex code		
Use Quote in Display	Whether to add quote in display name.		
Name	whether to add quote in display hame.		
Enable GRUU	Support Globally Routable User-Agent URI (GRUU)		
Sync Clock Time	Time Sync with server		
Enable Inactive Hold	With the post-call hold capture package enabled, you can see that in the		
Lilable mactive Hold	INVITE package, SDP is inactive.		
Caller ID Header	Set the Caller ID Header		
Use 182 Response for	Set the device to use 182 response code at call waiting response		
Call waiting	det the device to use 102 response code at oan waiting response		
Enable Feature Sync	Feature Sync with server		
Enable SCA	Enable/Disable SCA (Shared Call Appearance)		
CallPark Number	Set the CallPark number.		
Server Expire	Set the timeout to use the server.		
TLS Version	Choose TLS Version.		
uaCSTA Number	Set uaCSTA Number.		
Enable Click To Talk	With the use of special server, click to call out directly after enabling.		
Flash mode	Chose Flash mode, normal or SIP info.		
Flash Info Content-Type	Set the SIP info content type.		
Flash Info Content-Body	Set the SIP info content body.		
PickUp Number	Set the scramble number when the Pickup is enabled.		
JoinCall Number	Set JoinCall Number.		
Intercom Number	Set Intercom Number.		
Unregister On Boot	Whether to enable logout function.		
Enable MAC Header	When opening the registration, are IP package and user agent with MAC.		
Enable Register MAC	When opening the registration, is user agent with MAC.		
Header	The spenning are regionalist, to door agent with twitte.		

BLF Dialog Strict Match	Whether to enable accurate matching of BLF sessions.
PTime(ms)	Set whether to bring ptime field, default no.
SIP Global Settings	
Strict Branch	Set up to strictly match the Branch field.
Enable Group	Set open group.
Enable RFC4475	Set to enable RFC4475.
Enable Strict UA Match	Enable strict UA matching.
Registration Failure Retry	Set the registration failure retry time
Time	Set the registration failure retry time.
Local SIP Port	Modify the phone SIP port.

8.5 Line >> SIP Hotspot

Please refer to 9.9 SIP Hotspot.

8.6 Line >> Dial Plan

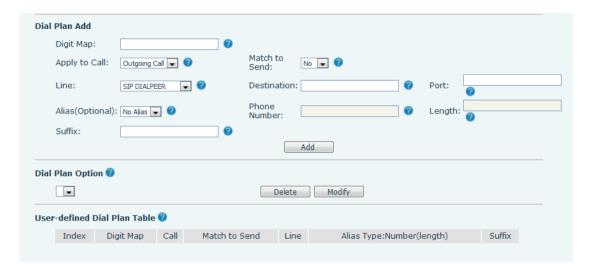
Basic Settings			
v	Press # to invoke dialing		
	Dial Fixed Length 11	to Send	
V	Send after 10	second(s)(3~30)	
	Press # to Do Blind Transfer		
	Blind Transfer on Onhook		
	Attended Transfer on Onhook		
	Attended Transfer on Conference C)nhook	
	Enable E.164		
		Apply	

Picture 122 - Dial plan settings

Table 20 - Phone 7 dialing methods

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

Add dialing rules:



Picture 123 - Custom setting of dial - up rules

Table 21 - Dial - up rule configuration table

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

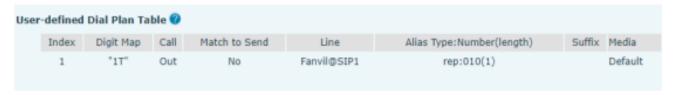
This feature allows the user to create rules to make dialing easier. There are several different options for dial rules. The examples below will show how this can be used.

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



Picture 124 - Dial rules table (1)

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



Picture 125 - 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.

8.7 Line >> Basic Settings

Set up the register global configuration.

Table 22 - Set the line global configuration on the web page

Parameters	Description	
STUN Settings		
Server Address	Set the STUN server address	
Server Port	Set the STUN server port, default is 3478	
Binding Period	Set the STUN binding period which can be used to keep the NAT pinhole opened.	
SIP Waiting Time	Set the timeout of STUN binding before sending SIP messages	
The TLS authentication		
TLS Certification File	Upload or delete the TLS certification file used for encrypted SIP transmission.	

8.8 Phone settings >> Features

Configuration phone features.

Table 23 - General function Settings

Parameters	Description	
Basic Settings		
Enable Call Waiting	Enable this setting to allow user to take second incoming call during an	
	established call. Default enabled.	
Enable Call Transfer	Enable Call Transfer.	
Semi-Attended Transfer	Enable Semi-Attended Transfer by selecting it	
Enable 3-Way Conference	Enable 3-way conference by selecting it	
Enable Auto Onhook	The phone will hang up and return to the idle automatically at hands-free mode	
	Specify Auto Onhook time, the phone will hang up and return to the idle	
Auto Onhook Time	automatically after Auto Hand down time at hands-free mode, and play dial	
	tone Auto Onhook time at handset mode	
Ring for Headset	Enable Ring for Handset by selecting it, the phone plays ring tone from	
Tring for Fleadset	handset.	
Auto Headset	Enable this feature, headset plugged in the phone, user press 'answer' key or	
Auto Fleadset	line key to answer a call with the headset automatically.	
Enable Silent Mode	When enabled, the phone is muted, there is no ringing when calls, you can	
Litable oliciti wode	use the volume keys and mute key to unmute.	
Disable Mute for Ring	When it is enabled, you can't mute the phone	
Enable Default Line	If enabled, user can assign default SIP line for dialing out rather than SIP1.	
Enable Auto Switch Line	Enable phone to select an available SIP line as default automatically	
Default Ext Line	Select the default line to use for outgoing calls	
Ban Outgoing	If you select Ban Outgoing to enable it, and you cannot dial out any number.	
Hide DTMF	Configure the hide DTMF mode.	
Enable CallLog	Select whether to save the call log.	
Enable Restricted Incoming	Whether to enable restricted call list.	
List	Whether to enable restricted call list.	
Enable Allowed Incoming	Whether to enable the allowed call list.	
List	Whether to enable the allowed call list.	
Enable Restricted Outgoing	NA/In other was a complete the properties of all properties.	
List	Whether to enable the restricted allocation list.	
Enable Country Code	Whether the country code is enabled.	
Country Code	Fill in the country code.	

Area Code	Fill in the area code.
Enable Number Privacy	Whether to enable number privacy.
Enable Number 1 mady	Matching direction, there are two kinds of rules from right to left and from left
Match Direction	to right.
Start Position	Open number privacy after the start of the hidden location.
Hide Digits	Turn on number privacy to hide the number of digits.
Allow IP Call	If enabled, user can dial out with IP address
P2P IP Prefix	Prefix a point-to-point IP call.
Caller Name Priority	Change caller ID display priority.
Emergency Call Number	Set Emergency Call Number
Search path	Select the search path.
LDAP Search	Select from with one LDAP for search
Emergency Call Number	Configure the Emergency Call Number. Despite the keyboard is locked, you
	can dial the emergency call number
Restrict Active URI Source IP	Set the device to accept Active URI command from specific IP address.
	Configure the Push XML Server, when phone receives request, it will
Push XML Server	determine whether to display corresponding content on the phone which sent
	by the specified server or not.
	Disable this feature, user enter number will open audio channel
Enable Pre-Dial	automatically.
	Enable the feature, user enter the number without opening audio channel.
E 11 M 1011	If enabled, up to 10 simultaneous calls can exist on the phone, and if
Enable Multi Line	disabled, up to 2 simultaneous calls can exist on the phone.
Line Display Format	Custom line format: SIPn/SIPn: xxx/xxx@SIPn
Contact As White List Type	NONE/BOTH/DND White List/FWD White List
Block XML When Call	Disable XML push on call.
	When enabled, the phone displays the information when it receives the
SIP notify	relevant notify content.
Tone Settings	
Enable Holding Tone	When turned on, a tone plays when the call is held
Enable Call Waiting Tone	When turned on, a tone plays when call waiting
Play Dialing DTMF Tone	Play DTMF tone on the device when user pressed a phone digits at dialing,
	default enabled.
Play Talking DTMF Tone	Play DTMF tone on the device when user pressed a phone digits during
	taking, default enabled.
DND Settings	1 -
J -	

DND Option	Select to take effect on the line or on the phone or close.
Enable DND Timer	Enable DND Timer, If enabled, the DND is automatically turned on from the
	start time to the off time.
DND Start Time	Set DND Start Time
DND End Time	Set DND End Time
Intercom Settings	
Enable Intercom	When intercom is enabled, the device will accept the incoming call request
	with a SIP header of Alert-Info instruction to automatically answer the call
	after specific delay.
Enable Intercom Mute	Enable mute mode during the intercom call
Enable Intercom Tone	If the incoming call is intercom call, the phone plays the intercom tone
	Enable Intercom Barge by selecting it, the phone auto answers the intercom
Enable Intercom Barge	call during a call. If the current call is intercom call, the phone will reject the
	second intercom call
Response Code Settings	
DND Response Code	Set the SIP response code on call rejection on DND
Busy Response Code	Set the SIP response code on line busy
Reject Response Code	Set the SIP response code on call rejection
Password Dial Settings	
- II - I	Enable Password Dial by selecting it, When number entered is beginning
	with the password prefix, the following N numbers after the password prefix
	will be hidden as *, N stand for the value which you enter in the Password
Enable Password Dial	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
Common	default.
CMC/MM//	The status of power lamp when there is unread short message/voice
SMS/MWI	message, including off/on/slow flash/quick flash, default slow flash.
Missad	The state of the power lamp when there is a missed call, including off/on/slow
Missed	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.
<u> </u>	

Marka	Power lamp status in mute mode, including off/on/slow flash/quick flash, off	
Mute	by default.	
	The power lamp state, including off/on/slow flash/quick flash, is turned off by	
Hold/Held	default when left/retained.	
Notification Popups		
Display Missed Call Popup	No incoming call popup prompt after opening, no popup prompt when	
Display Missed Call Popup	closing, open by default.	
D: L MANUE	Voice message popup prompt is not answered after opening, and it is opened	
Display MWI Popup	by default if there is no popup prompt when closing.	
Display Device Connect	There is a popup prompt when the WIFI adapter is connected. There is no	
Popup	popup prompt when the WIFI adapter is closed. It is on by default.	
Disales CMC Densin	There is popup prompt for unread messages after opening, and there is no	
Display SMS Popup	popup prompt when closing. It is opened by default.	
	When the handle is not hung back after opening, registration fails, IP	
Display Other Penus	acquisition fails, Tr069 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.	

8.9 Phone settings >> Media Settings

Change voice Settings.

Table 24 - Voice settings

Parameters	Description		
	Select enable or disable voice encoding:		
Codecs Settings	G.711A/U, G.722, G.729, G.726-16, G726-24, G726-32, G.726-40, ILBC,		
	Opus		
Audio Settings			
Handset Volume	Set the Handset volume, the value must be 1~9		
Default Ping Type	Configure default ringtones. If no special ringtone is set for the phone		
Default Ring Type	number, the default ringtone will be used.		
Speakerphone Volume	Set the hands-free volume to 1-9.		
Headset Ring Volume	Set the volume of the earphone ringtone to 1~9.		
Headset Volume	Set the volume of the headset to 1~9.		
Speakerphone Ring Volume	Set the volume of hands-free ringtone to 1~9.		
G.723.1 Bit Rate	5.3kb/s or 6.3kb/s is available.		
DTMF Payload Type	Enter the DTMF payload type, the value must be 96~127.		
AMR Payload Type	Set AMR load type, range 96~127.		
Headset Mic Gain	Set the earphone's radio volume gain to fit different models of earphones.		
Opus playload type	Set Opus load type, range 96~127.		
OPUS Sample Rate	Set Opus sampling rate, including opus-nb (8KHz) and opus-wb (16KHz).		
ILBC Payload Type	Set the ILBC Payload Type, the value must be 96~127.		
ILBC Payload Length	Set the ILBC Payload Length		
Enable MWI Tone	When there is a new voice message message, the phone will start a		
Litable WWW Tone	special dial tone.		
Enable VAD	Whether voice activity detection is enabled.		
Onhook Time	Configure a minimum response time, which defaults to 200ms		
EHS Type	EHS headset is available after enabling.		
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	Alert Info Ring Settings		
Value	Set the value to specify the ring type.		
Ring Type	Type1-Type9		

8.10 Phone settings >> MCAST

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

Table 25 - Multicast parameters

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

8.11 Phone settings >> Action

Action URL

Note! Action URLs are used for IPPBX systems to submit phone events. Please refer to manufacturer Action URL for details.

8.12 Phone settings >> Time/Date

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

Table 26 - Time&Date settings

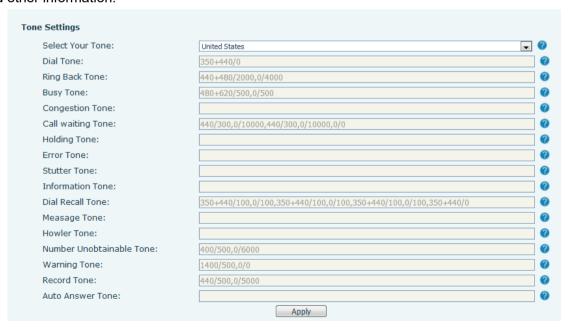
Parameters	Description	
Network Time Server Settings		
Time Synchronized via SNTP	Enable time-sync through SNTP protocol	
Time Synchronized via DHCP	Enable time-sync through DHCP protocol	
Primary Time Server	Set primary time server address	
	Set secondary time server address, when primary server is not	
Secondary Time Server	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
DCT Cot Type	Choose DST Set Type, if Manual, you need to set the start time and end
DST Set Type	time.
Fixed Type	Daylight saving time rules are based on specific dates or relative rule
Fixed Type	dates for conversion. Display in read-only mode in automatic mode.
Offset	The offset minutes when DST started
Month Start	The DST start month
Week Start	The DST start week
Weekday Start	The DST start weekday
Hour Start	The DST start hour
Minute Start	The DST start minute
Month End	The DST end month
Week End	The DST end week
Weekday End	The DST end weekday
Hour End	The DST end hour
Minute End	The DST end minute
Manual Time Settings	You can set your time manually

8.13 Phone settings >> Tone

This page allows users to configure a phone prompt.

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



Picture 126 - Tone settings on the web

8.14 Phone settings >> Advanced

User can configure the advanced configuration settings in this page.

- Screen Configuration.
 - Enable Energy Saving
 - Backlight Time
- LCD Menu Password Settings.

The password is 123 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'.

8.15 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.

8.16 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.

То	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,

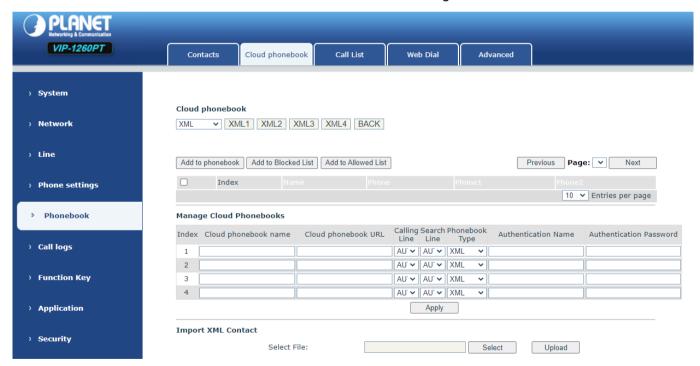
- □ Display Title (must)
 - LDAP Server Address (must)
- □ LDAP Server Port (must)
 - Search Base (must)
- ☐ Access username (optional)
- ☐ Access password (optional)

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

Web page preview

Phone page supports preview of Internet phone directory and contacts

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



Picture 127 - Web cloud phone book Settings

8.17 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.

8.18 Phonebook >> Web Dial

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

8.19 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.

Attention! 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 does not delete contacts in that group.

8.20 Call Log

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.

8.21 Function Key >> Function Key

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

The device provides 2 user-defined shortcuts that users can configure on a web page.

Table 27 - 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.
Memory Key	Presence : Compared to BLF, the Presence is also able to view whether the user is
	online.
	Note: You cannot subscribe the same number for BLF and Presence at the same time
	Speed Dial : You can call the number directly which you set. This feature is convenient for
	you to dial the number which you frequently dialed.
	Intercom : This feature allows the operator or the secretary to connect the phone quickly;
	it is widely used in office environments.
Line	It can be configured as a Line Key. User is able to make a call by pressing Line Key.
Key Event	User can select a key event as a shortcut to trigger.
Noy Event	For example: MWI / DND / Release / Headset / Hold / etc.
DTMF	It allows user to dial or edit dial number easily.
URL	Open the specific URL directly.
Multicast	Configure the multicast address and audio codec. User presses the key to initiate the
withticast	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.

8.22 Function Key >> Softkey

The User Settings mode and display style, display page.

Table 28 - 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
D 11	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
Dradiativa Dialar	/Pickup/MWI/Join/CallLog/Release/Missed/Pause/Dialed/
Predictive Dialer	Headset/Video/Audio/Remote XML/DSS Key/In/Next line
	/Prev line
Ringing	Answer/Forward/Reject/Mute/Release/Headset/Video/Audio/DSS key
	Hold/Transfer/Conference/End/Mute/Release/New Call/
Talking	Local Contacts/Listen/CallLog/Next call/Prev call/
	Private/Headset/Video/Audio/DSS Key
Transfer Alerting	End/Transfer/Headset/Release/DSS Key
	Redial/Delete/Exit/2aB/Dial/Local Contacts/Transfer/
Transfer Dialer	CallLog/Clear/Missed/Dialed/Pause/Headset/Video/Audio/Remote XML/DSS
	Key
Trying	End/Release/Headset/DSS Key
	Hold/Transfer/Conference/End/Answer/Forward/Mute/Next call/New call/Prev
Waiting	call/Reject/Release/Headset/Listen/
	Video/Audio/DSS Key

8.23 Function Key >> Advanced

One key transfer: for example, set the memory key 4370. Press the memory key when talking with 4374 to decide whether to call 4370 or transfer 4374 to 4370.

Select memory key function: for example, the phone set the memory key value to 4370. When 4370 calls, press this key to hold the call or hang up.

■ Global Key Settings



Picture 128 - Global Key Settings

■ Programmable key Settings

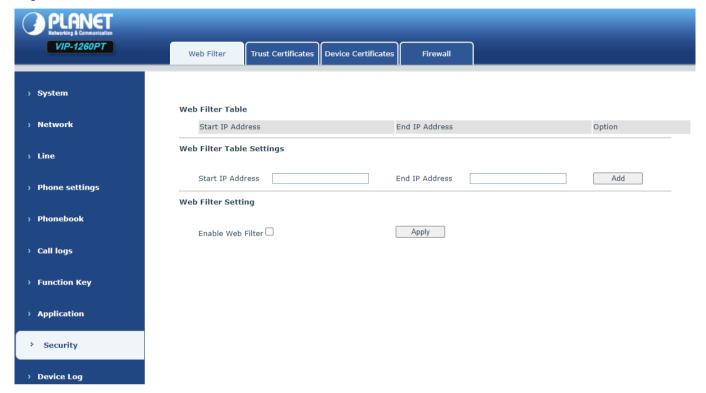
Please refer to the Softkey configuration

8.24 Application >> Manage Recording

See Record for details of recording.

8.25 Security >> Web Filter

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



Picture 129 - Web Filter settings



Picture 130 - Web Filter Table

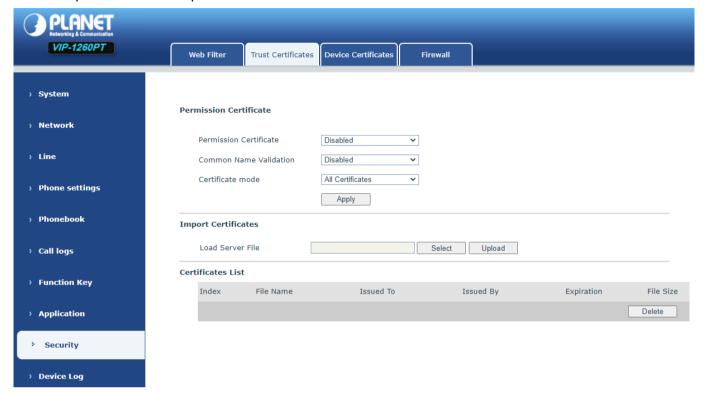
Adding and removing IP segments are accessible. Configure the starting IP address within the start IP, end the IP address within the end IP, and click [Add] to submit to take effect. A large network segment can be set, or it can be divided into several network segments to add. If the user wants to delete, 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.

8.26 Security >> Trust Certificates

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

You can upload and delete uploaded certificates.



Picture 131 - Certificate of settings

8.27 Security >> Device Certificates

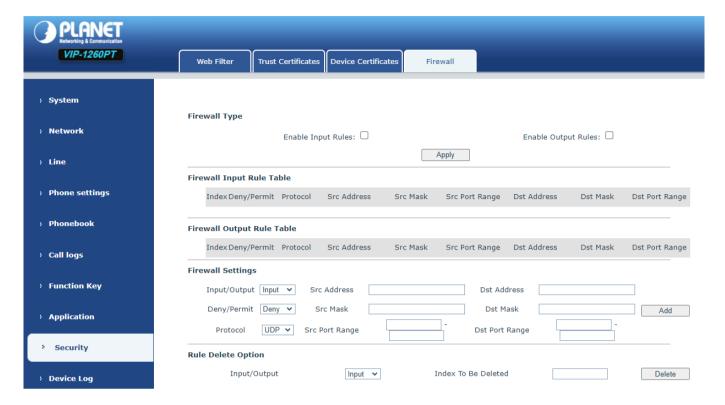
Select the device certificate as the default and custom certificate.

You can upload and delete uploaded certificates.



Picture 132 - Device certificate setting

8.28 Security >> Firewall



Picture 133 - Network firewall Settings

The user can set whether to enable the input through this page, output firewall and 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, which can improve security.

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

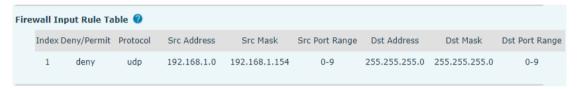
Considering the complexity of firewall Settings, the following is an example to illustrate:

Table 29 - Network Firewall

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

	address 0.0.0.0; It can also be a network address similar to *.*.*.0, such as:	
	192.168.1.0.	
	Is the source address mask. When configured as 255.255.255.255, it means	
Src Mask	that the host is specific. When set as 255.255.255.0, it means that a network	
	segment is filtered.	
	Is the destination address mask. When configured as 255.255.255.255, it	
Dst Mask	means the specific host. When set as 255.255.255.0, it means that a network	
	segment is filtered.	

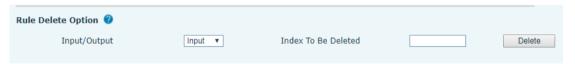
After setting, click [Add] and a new item will be added in the firewall input rule, as shown in the figure below:



Picture 134 - 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, the other IP of the ping 192.168.1.0 network segment can still receive the response packet from the destination host normally.



Picture 135 - Delete firewall rules

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

8.29 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>Get log information</u>.

9 Troubleshooting

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 manufacturer technical support mailbox.

9.1 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.

9.2 Reboot Device

Users can reboot the device from soft-menu, [Menu] >> [Basic] >> [Reboot System], and confirm the action by [OK]. Or, simply remove the power supply and restore it again.

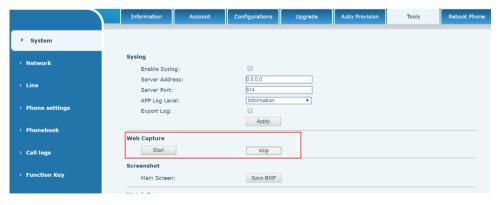
9.3 Reset Device to Factory Default

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

To perform a factory default reset, user should press [Menu] >> [Advanced], and then input the password to enter the interface. Then choose [Factory Reset] and press [Enter], and confirm the action by [OK]. The device will be rebooted into a clean factory default state.

9.4 Screenshot

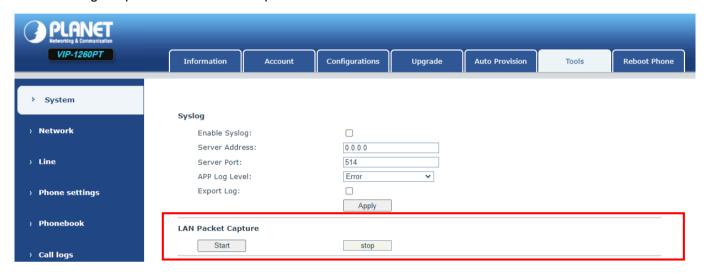
If there is a problem with the phone, the screenshot can help the technician locate the function and identify the problem. In order to obtain screen shots, log in the phone webpage [System] >> [Tools], and you can capture the pictures of the main screen and the secondary screen (you can capture them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



Picture 136 - Screenshot

9.5 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 the relevant operations such as activating/deactivating line or making phone calls and click [Stop] button in the web page when operation finished. The network packets of the device during the period have been dumped to the saved file.



Picture 137 - Web capture

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

9.6 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.

9.7 Common Trouble Cases

Table 30 - Trouble Cases

Trouble Case		Solution		
	1.	The device is powered by external power supply via power adapter or		
		PoE switch. Please use standard power adapter provided		
		by manufacturer or PoE switch met with the specification requirements		
Device could not boot up		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.		
	1.	Please check if device is well connected to the network. The network		
		Ethernet cable should be connected to the [Network] port NOT		
		the PC] port. If the cable is not well connected to the network		
		icon [WAN disconnected] will be flashing in the middle of the		
	2	Screen.		
Device could not register to a	2.	Please check if the device has an IP address. Check the system		
service provider		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		
		"Network Packet Capture" to get the network packet capture of		
		registration process and send it to manufacturer support to		
		analy manufacturer ze the issue.		
	1.	Please check if Handset is connected to the correct Handset () port		
No Audio or Poor Audio in		NOT Headphone () port.		
Handset	2.	The network bandwidth and delay may be not suitable for audio call at		
		the moment.		
	1.	There are two Headphone wire sequence in the market. Please use the		
Poor Audio or Low Volume in		Headphone provided by manufacturer, or consult manufacturer the wire		
Headphone		sequence if you wish to use a third-party headphone.		
i leaupiloile	2.	The network bandwidth and delay may be not suitable for audio call at		
		the moment.		