



i53W User Manual

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Directory

Directory	1
1 Picture	5
2 Table	
3 Safety Instruction	9
4 Overview	10
4.1 Overview	10
4.2 Packing Contents	
5 Install Guide	
5.1 Use PoE or external Power Adapter	
5.2 Desktop Installation	
5.2.1 Peripheral connection	
6 Appendix Table	13
6.1 Appendix I - Icon	13
6.2 Appendix II –Function key state definition	
7 User Getting Started	
7.1 Button description	
7.2 Introduction to the User	
7.2.1 Standby interface	
7.2.2 Dial interface	18
7.2.3 Commonly used icons on the interface	20
7.3 Use of touch keyboard	20
7.4 Phone Status	21
7.5 Web Management	23
7.6 Network Configurations	
7.7 SIP Configurations	25
8 Basic Function	27
8.1 Making Phone Calls	
8.2 Answer a call	28
8.3 Call interface	28
8.4 Unlock	29
8.5 End of call	30
8.6 Video preview	
8.7 Dial query	
8.8 Auto Answer	



	8.9 Mute	
	8.9.1 Mute during a call	33
	8.9.2 Mute when ringing	33
	8.10 DND	34
	8.11 Call Forward	36
9 <i>F</i>	Advance Function	38
	9.1 Intercom	38
	9.2 MCAST	38
	9.3 SMS	40
	9.3.1 SMS	40
	9.3.2 MWI(Message Waiting Indicator)	41
	9.4 SIP Hotspot	42
10	Phone Settings	45
	10.1 Basic Settings	45
	10.1.1 Language	45
	10.1.2 Time & Date	46
	10.1.3 Screen	48
	10.1.3.1 Brightness and backlight	49
	10.1.3.2 Screen Saver	49
	10.1.4 Ring	50
	10.1.5 Voice Volume	50
	10.1.6 Greeting words	50
	10.1.7 Reboot	51
	10.2 Phonebook	51
	10.2.1.1 Add / Edit / Delete Contact	52
	10.2.1.2 Add / Edit / Delete Group	53
	10.2.1.3 Add / Edit / Delete contact in Group	54
	10.2.2 Black list	55
	10.2.3 Cloud Phone Book	56
	10.2.3.1 Configure Cloud Phone book	56
	10.2.3.2 Downloading Cloud Phone book	57
	10.3 Call Log	58
	10.4 Function Key	59
	10.5 Wi-Fi	61
	10.5.1 Wireless network	61
	10.5.2 AP setting	63
	10.6 Advanced	64
	10.6.1 Line Configurations	64



	10.6.1.1 Network Settings	65
	10.6.1.2 Network Settings	65
	10.6.1.3 QoS & VLAN	68
	10.6.1.4 VPN	69
	10.6.1.5 Web Server Type	71
	10.6.2 Set The Secret Key	71
	10.6.3 Maintenance	74
	10.6.4 Firmware Upgrade	77
	10.6.5 Factory Reset	80
11	1 Web Configurations	81
	11.1 Web Page Authentication	81
	11.2 System >> Information	
	11.3 System >> Account	82
	11.4 System >> Configurations	83
	11.5 System >> Upgrade	83
	11.6 System >> Auto Provision	83
	11.7 System >> Tools	83
	11.8 System >> Reboot Phone	84
	11.9 Network >> Basic	84
	11.10 Network >> Service Port	84
	11.11 Network >> VPN	85
	11.12 Line >> SIP	86
	11.13 Line >> SIP Hotspot	92
	11.14 Line >> Dial Plan	92
	11.15 Line >> Action Plan	95
	11.16 Line >> Basic Settings	95
	11.17 Settings >> Features	96
	11.18 Settings >> Media Settings	100
	11.19 Settings >> MCAST	102
	11.20 Settings >> Action	102
	11.21 Settings >> Time/Date	102
	11.22 Setting >> Time plan	103
	11.23 Settings >> Tone	104
	11.24 Settings >> Advanced	105
	11.25 Phonebook >> Contact	105
	11.26 Phonebook >> Cloud phonebook	106
	11.27 Phonebook >> Call List	107
	11.28 Phonebook >> Web Dial	108



	11.29 Phonebook >> Advanced	108
	11.30 Call Logs	108
	11.31 Function Key >> Function Key	108
	11.32 Function Key>> Side Key	109
	11.33 Function Key >> Softkey	110
	11.34 Function Key >> Advanced	111
	11.35 Security >> Web Filter	111
	11.36 Security >> Trust Certificates	112
	11.37 Security >> Device Certificates	113
	11.38 Device Log >> Device Log	113
	11.39 Security Settings	114
12 T	rouble Shooting	115
	12.1 Get Device System Information	115
	12.2 Reboot Device	115
	12.3 Reset Device to Factory Default	115
	12.4 Screenshot	115
	12.5 Network Packets Capture	116
	12.6 Get Log Information	117
	12 7 Common Trouble Cases	117



1 Picture

Picture 1 - Peripheral connection diagram	12
Picture 2 - interface	12
Picture 3 - Key Description	17
Picture 4 - Standby interface	18
Picture 5 -Menu interface	19
Picture 6 - keyboard	20
Picture 7 - Keyboard numbers & characters	21
Picture 8 - keyboard	22
Picture 9 - phone status	23
Picture 10 - Login page	23
Picture 11 - Web Line Registration	26
Picture 12 - Dial interface	27
Picture 13 - Call interface	28
Picture 14 - Voice call interface	28
Picture 15 - Taking interface	29
Picture 16 - Web page configuration DTMF	30
Picture 17 - Call end interface	30
Picture 18 - Web page configuration hard button preview	30
Picture 19 - Webpage configuration standby interface preview	31
Picture 20 - Standby interface display after configuration	31
Picture 21 - Line 1 enables auto-answering	32
Picture 22 - Web page to start auto-answering	32
Picture 23 - Mute the call	33
Picture 24 - Ringing mute	34
Picture 25 - DND setting interface	35
Picture 26 - DND timer	35
Picture 27 - DND Settings	35
Picture 28 - Line DND.	36
Picture 29 - Set call forward	37
Picture 30 - Set call forward	37
Picture 31 - Web Intercom configure	38
Picture 32 - Multicast Settings Page	39
Picture 33 - SMS icon	40
Picture 34 - New Voice Message Notification	41
Picture 35 - Voice message interface	42
Dicture 36 - Register SID account	42



Picture 37 - SIP notspot server configuration	43
Picture 38 - SIP hotspot client configuration	44
Picture 39 - Set language	45
Picture 40 - web page language setting	46
Picture 41 - set time & date	47
Picture 42 - webpage set time &date	47
Picture 43 - set screen Parameters	48
Picture 44 - set screen on webpage	49
Picture 45 - Screensaver	50
Picture 46 - local contact	51
Picture 47 - add contact	52
Picture 48 - edit contact	53
Picture 49 - group	54
Picture 50 - browse the contact in group	54
Picture 51 - add blacklist	55
Picture 52 - Black list	56
Picture 53 - cloud contacts	57
Picture 54 -Browsing Contacts in Cloud Phone book	58
Picture 55 - call log	58
Picture 56 - Filter call record types	59
Picture 57 - Dss key settings	60
Picture 58 - WLAN	61
Picture 59 -wireless network	62
Picture 60 - webpage wireless connect	62
Picture 61 - AP info	63
Picture 62 -line configurations	64
Picture 63 - Configure Advanced Line Options	65
Picture 64 - IP Mode	66
Picture 65 - DHCP network mode	66
Picture 66 - PPPoE network mode	67
Picture 67 - Static IP network mode	67
Picture 68 - IPv6 Static IP network mode	68
Picture 69 - The phone configures the web server type	71
Picture 70 - Menu Password	72
Picture 71 - Menu password setting	72
Picture 72 - Menu password input	73
Picture 73 - keyboard password setting	73
Picture 74 - webpage keyboard password setting	74



Picture 75 - Page auto provision Settings	75
Picture 76 - Phone auto provision settings	75
Picture 77 - Web page firmware upgrade	78
Picture 78 - firmware upgrade	80
Picture 79 - factory reset	80
Picture 80 - web login	81
Picture 81 - default password prompt	82
Picture 82 - Network settings	84
Picture 83 - Service Port Settings	85
Picture 84 - Dial plan settings	92
Picture 85 - Custom setting of dial - up rules	93
Picture 86 - Dial rules table (1)	94
Picture 87 - Dial rules table (2)	95
Picture 88 - time plan	104
Picture 89 - Webpage Tone	105
Picture 90 - Web cloud phone book Settings	107
Picture 91 - IP Camera List	111
Picture 92 - Web Filter settings	112
Picture 93 - Web Filter Table	112
Picture 94 - Certificate of settings	113
Picture 95 - Device certificate setting	113
Picture 96 - Input and output settings	114
Picture 97 - Input and output settings	116
Picture 98 - Web capture	117



2 Table

Table 1 - interface	12
Table 2 - Keypad Icons	13
Table 3 - Status Prompt and Notification Icons	13
Table 4 - DSSkey Icons	14
Table 5 -Look-up Table of Characters	16
Table 6 - Key Description	17
Table 7 - Standby interface	18
Table 8 - dial interface	19
Table 9 - Commonly used icons	20
Table 10 - keyboard	20
Table 11 - Keyboard numbers & characters	21
Table 12 - Taking mode	29
Table 13 - Intercom configure	38
Table 14 - MCAST Parameters on Web	39
Table 15 - set time Parameters	47
Table 16 - QoS & VLAN	69
Table 17 - Auto Provision	75
Table 18 - firmware upgrade	78
Table 19 - Service port	85
Table 20 - Line configuration on the web page	86
Table 21 - Phone 7 dialing methods	92
Table 22 - Dial - up rule configuration table	93
Table 23 - action plan	95
Table 24 - Set the line global configuration on the web page	95
Table 25 - General function Settings	96
Table 26 - Voice settings	100
Table 27 - Multicast parameters	102
Table 28 - Time & Date settings	102
Table 29 - time plan	103
Table 30 - function key	109
Table 31 - Softkey configuration	110
Table 32 - Input and output parameters	114
Table 33 - Trouble Cases	117



3 Safety Instruction

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

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



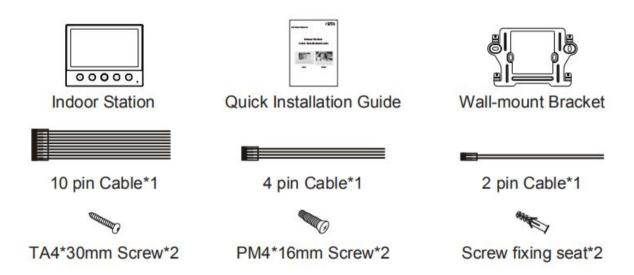
4 Overview

4.1 Overview

i53W is an indoor station with 7-inch color touch screen and rich interfaces. It is mainly used in residential area, villa, office building and other places for receiving calling and communicating through the door phone and achieving remote door-opening. It provides more reliable security assurance and the easier access control for the users, creating a safe and comfortable living environment.

In order to help some interested users to better understand the details of the product, this user manual can be used as a reference guide for the use of i53W. This document may not apply to the latest version of the software. If you have any questions, you can use the help prompt interface that comes with the i53W device, or download and update your user manual from the official website.

4.2 Packing Contents





5 Install Guide

5.1 Use PoE or external Power Adapter

i53W supports two power supply modes, external power adapter and Ethernet (PoE) switch power supply mechanism

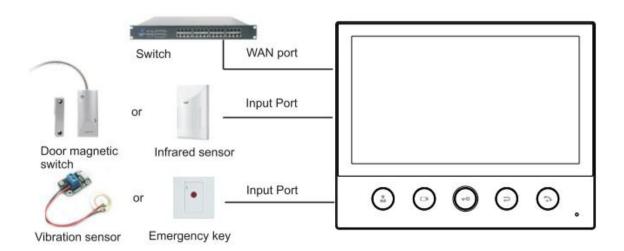
PoE power supply saves the space and cost of providing the device additional power outlet. With a PoE switch, the device can be powered through a single Ethernet cable which is also used for data transmission. By attaching UPS system to PoE switch, the device can keep working at power outage just like traditional PSTN telephone which is powered by the telephone line.

For users who do not have PoE equipment, the traditional power adaptor should be used. If the device is connected to a PoE switch and power adapter at the same time, the power adapter will be used in priority and will switch to PoE power supply once it fails.

Please use the power adapter supplied by Fanvil and the PoE switch met the specifications to ensure the device work properly.

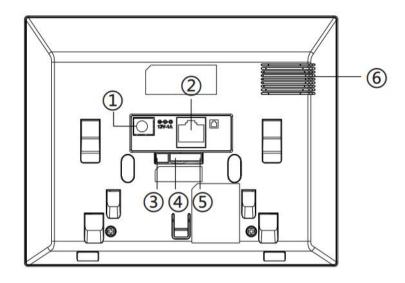
5.2 Desktop Installation

5.2.1 Peripheral connection





Picture 1 - Peripheral connection diagram



Picture 2 - interface

Table 1- interface

NO.	Interface	Description
Φ		DC Power interface: 12V/1A input.
		Ethernet interface: standard RJ45 interface, 10/100M
Ø		adaptive,
		it is recommended to use CAT5 or CAT5E network cable.
3	Power DC12V GND	Industrial power interface
4	RS485	2 sets of RS485 interfaces: can be connected to card reader,
•	B GND A GND	sensor etc.
	Alarm Input	8 sets of alarm input interfaces: input devices for connecting
5	IN1 IN2 IN3 IN4 GND	switches,
		infrared sensor, door sensor, vibration sensors etc.
6		Speaker



6 Appendix Table

6.1 Appendix I - Icon

Table 2 - Keypad Icons

	Control center
	Video Surveillance
••	Unlock key
(D)	Return key
3	Answer key

Table 3- Status Prompt and Notification Icons

>>>>	Call out
<<<<	Call in
<u>\$</u>	Mute Microphone
aff	Call voice quality
<u> </u>	Call voice encryption
11	Call Hold
HD	HD Audio
" \(\Sigma\)	Network Disconnected
"	Enable VLAN
10	Enable VPN
差	Keyboard locked
(Call forward activated
AA	Auto-answering activated



~	Connecting WIFI
<u>্</u> ব	Wi-Fi network abnormal
(q)	SIP Hotspot
•	DND
<u>*</u>	Missed call
	SMS
0.0	Unread voice message
(5) (5) 5	Network storm

Table 4- DSSkey Icons

Icon	Translate
&	BLF/NEW CALL
e	BLF/BXFER
&	BLF/AXFER
	BLF/CONF
•	BLF/DTMF
	Presence
9	MWI
C	Speed Dial
	Intercom



(9)	Call Park
G	Call forward
	Key Event
e	URL/Action URL
	BLF List
	Multicast
1	Memory Key None
	None
a	Line
•	DTMF



6.2 Appendix II –Function key state definition

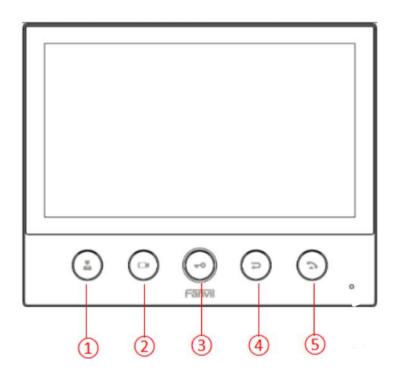
Table 5-Look-up Table of Characters

Туре	lcon	State	Description
Line Key	0	Gray	Line is not configured
	8	Green On	Line ready (Registered)
	8	Red Blinking	Line is trying to register
	8	Red Blinking	Line error (Registration failure)
BLF	œ	Green On	Subscription number is idle.
	&	Red On	Subscription number is busy.
	&	Red On	Subscription number is dialing.
	(2)	Off	Subscription number is unavailable.
Presence	Ω	Green On	Subscription number is idle.
	0	Red On	Subscription number is busy.
	0	Red On	Subscription number is dialing.
	0	Off	Subscription number is unavailable.
DND	(Red On	Enable DND
	0	Off	Disable DND
MWI	0	Green Blinking	New voice message waiting
	0	Off	No new voice message



7 User Getting Started

7.1 Button description



Picture 3 - Key Description

The picture above shows the button layout of the device. Each button provides its own specific function. The user can operate the device by referring to the description of the buttons in the illustrations in this section.

Table 6- Key Description

Number	The keypad	Instruction
	names	
\$	Control center	One key to call the set number; if there is no setting,
		press to enter the setting interface
2	Video Preview	One key to view the access control/outdoor situation; if
2		there is no setting, press to enter the setting interface
3	Unlock key	One-key unlock during a call
A	Return key	Hang up during a call
Menu, return to the upper level director		Menu, return to the upper level directory
Answer key Incoming call, answer the call		Incoming call, answer the call
5		Open the dial pad in standby



7.2 Introduction to the User

7.2.1 Standby interface



Picture 4- Standby interface

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

The upper half of the main screen displays the welcome message, time and date, and status information (such as automatic answer, network connection status, etc.).

Table 7- Standby interface

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

Icon descriptions are described in <u>6.1 Appendix I.</u>

7.2.2 Dial interface

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





Picture 5-Menu interface

Table 8- dial interface

Number	Features	Description
1	Return key	Return to the previous menu, the main interface
2	Dialpad	Enter the dial interface
3	Contact	Enter the contact interface, view/edit contacts
4	Call records	Enter the call log interface, view the call log
5、6	Turn page	When the list supports multiple pages, page up and
3, 0	Turn page	down
7	Home	Back to main interface
8	Volume Down Key	Volume Adjustment
9	Volume Up Key	Volume Adjustment
10	Dial key	After entering the number, press to call out
11	Numeric keypad	0-9, *, #
12	Input box	Enter number
13	Delete key	Delete entered number
	End/input method/delete	End: Exit the current interface
14		123: Switch input method, 123/abc/ABC/Abc/2aB
		Delete: delete the entered number
15	Number matching record	After entering the number, the query record displays



7.2.3 Commonly used icons on the interface

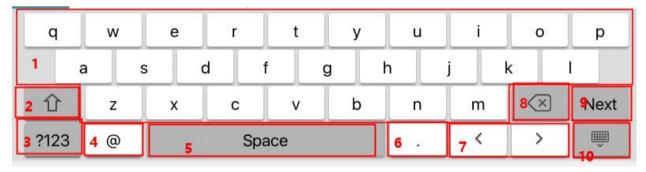
Introduction to icons commonly used by equipment.

Table 9- Commonly used icons

Icon	Description	Icon	Description
0	Back to main	^	Previous page
	interface		
V	Next page	←	Return
	Search for		Add to
Q	contacts		Add to
/	Save		

7.3 Use of touch keyboard

The device supports using the touch keyboard to enter data.



Picture 6- keyboard

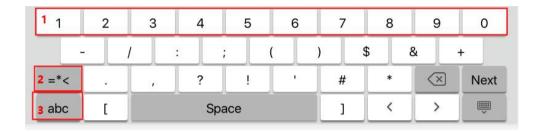
Table 10 - keyboard

Number	Function keys	Description
1	26 English	Type letters
	letters	
2	A	Switch to uppercase letter input
2		mode
3	2122	Switch to number, special
3	?123	character input mode
4、6	Special	
4.0	characters	@、.
5	Space Bar	Enter a Space
7	Switch	Switch input characters left and



		right	
8 Delete Delete entered cha		Delete entered characters	
	Next	Switch to the next edit box	
9	Done	Save operation	
10		Hide keyboard	

Tap on the screen to switch ?123 to number and special character input mode.



Picture 7 - Keyboard numbers & characters

Table 11 - Keyboard numbers & characters

Number	Function keys	Description
1	Number Key	Type in data
2	_*/	Switch to special
2	= <	character input mode
2	aha	Switch lowercase English
3	abc	letter input mode

7.4 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 number

Software Version number

Phone Storage (RAM and ROM)



System Running Time

SIP Account Information:

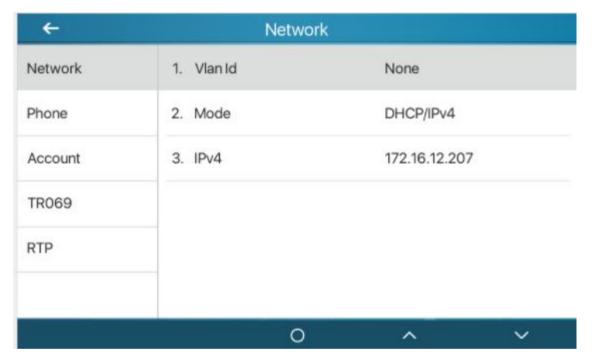
SIP Account

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

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

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

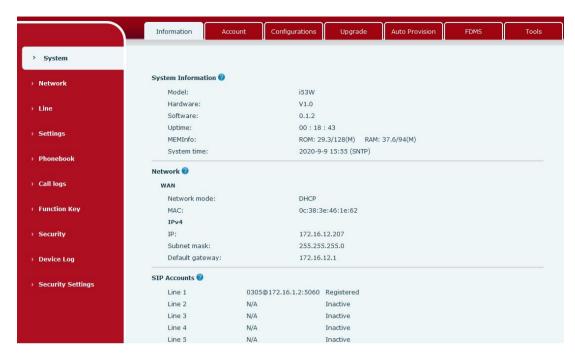
Device interface: When the device is in standby, press [Menu] >> [Status], select options to view corresponding information, as shown in the figure:



Picture 8- keyboard

• WEB interface: Refer to 7.5Web management to log in the phone page, enter the [System] >> [Information] page, and check the phone status, as shown in the figure:





Picture 9- phone status

7.5 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 at first and open the web page of the phone.

The user can check the IP address of the phone by pressing [Menu] >> [Status].



Picture 10- 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". For the specific details of the operation page, please refer to page <u>11 Web configurations</u>.



7.6 Network Configurations

The i53W device supports two network connection methods: wired network connection and wireless network connection. Users need to choose the corresponding connection method according to their own situation.

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

To enable the device, the network configuration must first be properly configured. To configure the network, users need to find the device function menu button [Menu] >> [Advanced Settings] >> [Network] >> [Network Settings].

The default password for entering advanced settings is "123".

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

The device supports three network types, IPv4/IPv6/IPv4&IPv6

There are three common IP configuration types for IPv4

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

• There are two common IP configuration types for IPv6

● DHCP — This is the mode that automatically obtains the network configuration from the server. The user does not need to manually configure any parameters. Suitable



for most users.

 Static IP configuration – This option allows users to manually configure each IP parameter, including IP address, mask, gateway, and primary and secondary domain names. This usually applies to some professional network user environments.

For specific configuration and use, please refer to <u>10.6.2.1 Network Settings</u> and <u>10.5</u> WiFi

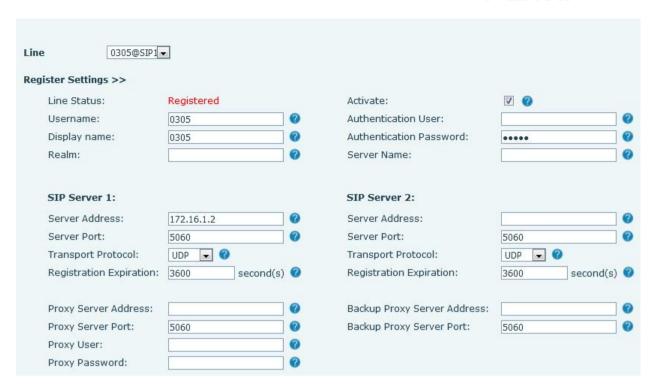
7.7 SIP Configurations

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

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

Phone interface: To manually configure a line, the user can long press the line button or use the function menu button [**Phone Settings**] >> [**Account**] >> [**Line**] to configure each line, and click OK to save the configuration.





Picture 11- Web Line Registration



8 Basic Function

8.1 Making Phone Calls

■ Default Line

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

■ Dialing Methods

User can dial a number by:

- Entering the number directly
- Selecting a phone number from phonebook contacts (Refer to 10.2.1 Local contacts)
- Selecting a phone number from cloud phonebook contacts (Refer to 10.2.3
 Cloud Phone Book)
- Selecting a phone number from call logs (Refer to 10.3 Call Log)
- Redialing the last dialed number
- Press the management center button to call



Picture 12- Dial interface

When calling a number, the user can press [End] or press the return button to



cancel the call



Picture 13- Call interface

8.2 Answer a call

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



Picture 14- Voice call interface

The user can answer the call by pressing the button or the interface. To reject an incoming call, the user presses or the reject button on the interface.

8.3 Call interface

When the call is established, the user will see the call mode screen as shown below:





Picture 15- Taking interface

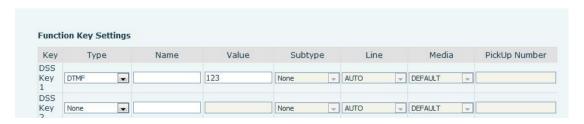
Table 12 - Taking mode

Number	The keypad names	Instruction
1	Contact Name	The name of the other party
2	Contact Number	Call the other party's number
3	Call duration	Call duration
4	Mute icon	Icon indication after the call is muted
5	Voice quality, HD, voice encryption	Display the current call voice quality, voice call encryption and other icon indicators
6	End	Hang up
7、8	Volume addition and subtraction	Adjust call volume

8.4 Unlock

Web page settings [Function keys] >> [Function keys] >> [DSSKey3] is DTMF, the value is the access control caller's password to open the door, as shown below:

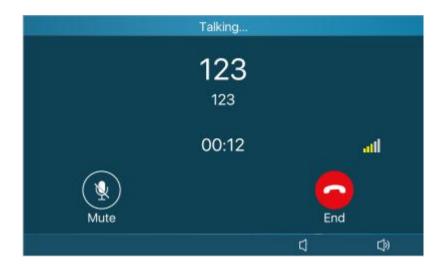
Press during a call , Can open the door with one key.





Picture 16- Web page configuration DTMF

8.5 End of call



Picture 17- Call end interface

When the user's call ends

- 1) You can press to end the call
- 2) You can press to end the call
- 3) You can press the end button on the call interface

8.6 Video preview

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

Web page settings [Function keys] >> [Function keys]>>[DSSKey2] is the url, the value is the RTSP URL of the camera, and the setting is completed and submitted.

Press Othe video surveillance button in standby.

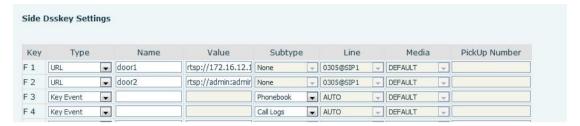


Picture 18 - Web page configuration hard button preview

Web page settings [Function keys] >> [Side key], select any key, the type is url, the value is the RTSP URL of the camera, and the setting is completed and submitted.



In standby, press the shortcut key set on the right side of the standby interface.



Picture 19- Webpage configuration standby interface preview



Picture 20- Standby interface display after configuration

8.7 Dial query

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

8.8 Auto Answer

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

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

Device interface:

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

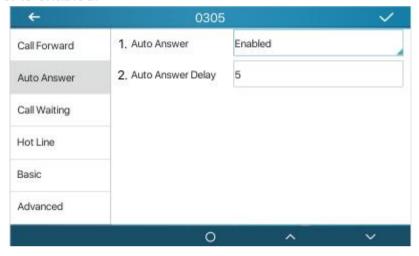
Press the button to select the line, use the left/right navigation key to turn



on/off the auto answer option, set the auto answer time, the default is 5 seconds

Press to save when finished

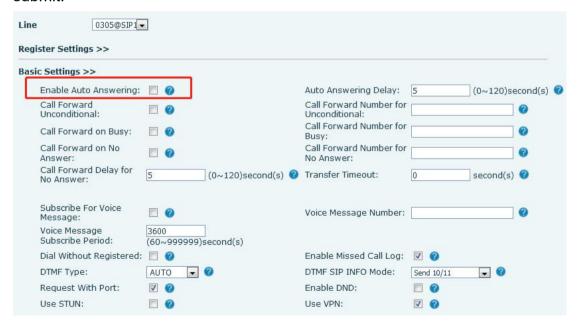
The icon in the upper right corner of the screen indicates that auto answer is enabled.



Picture 21 - Line 1 enables auto-answering

• Web interface :

Log into the device webpage, enter [Line]>>[SIP], Select [Basic Settings], enabled automatic answering, set the automatic answering time and click submit.



Picture 22- Web page to start auto-answering



8.9 Mute

You can turn on the silent mode and turn off the microphone of the device during a call, so that the other party cannot hear the local voice. Under normal circumstances, the silent mode is automatically turned off as the call ends. You can also enable the keep mute function on any interface (such as the idle interface) to automatically mute the ringtone when a call comes in.

8.9.1 Mute during a call

Press the mute button \(\frac{1}{2} \) on the call interface during a call: The mute button on the device turns on the red light.

The call interface displays a red mute icon, as shown in the figure:



Picture 23- Mute the call

8.9.2 Mute when ringing

• Turn on mute ringing: press the mute button on the incoming call interface when the device is ringing:

The mute icon on the incoming call interface of the device



changes



to and there is no ringtone. After hanging up, the device will still ring the next time there is an incoming call.



Picture 24 - Ringing mute

8.10 **DND**

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

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

- Phone interface: Default standby mode,
 - Press [DND] button to enter the DND setting interface, select line or phone to enable DND, the icon will become red. The phone status prompt bar will have a DND icon.

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

Press [Menu] >> [Function] >> [Basic Settings] >> [DND] button to enter the edit page of [DND].

Use the left/right navigation keys to select the line to adjust the DND mode and status. After finishing, press the [OK] button to save.

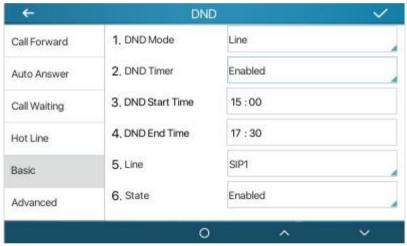
The user will see that the DND icon turns red, and the SIP line has enabled the DND mode.





Picture 25- DND setting interface

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



Picture 26- DND timer

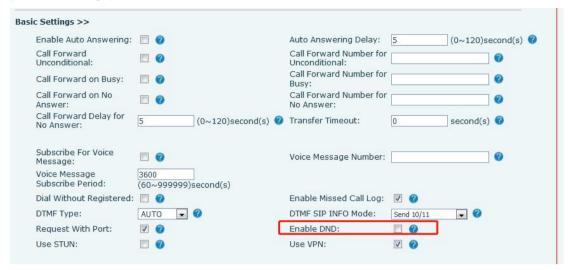
Web interface: Go to [Settings] >> [Function Settings] >> [DND Settings], set the type of DND (off, phone, line), and DND timing function.



Picture 27- DND Settings



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



Picture 28 - Line DND

8.11 Call Forward

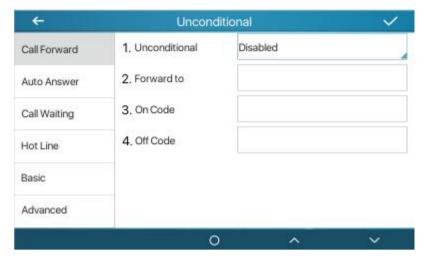
Call forward is also known as 'Call Divert' which is to divert the incoming call to a specific number based on the conditions and configurations. User can configure the call forward settings of each line.

There are two types,

- Unconditional Call Forward Forward any incoming call to the configured

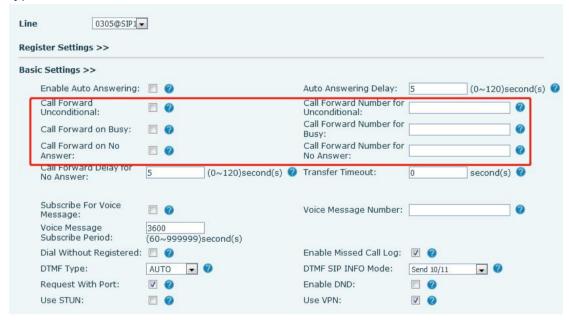
 number.
- Call Forward on No Answer When user does not answer the incoming call after the configured delay time, the incoming call will be forwarded to the configured number.
- Phone interface: Default standby mode
- 1) Press [Menu] >> [Function] >> [Call Forwarding] to select the line
- 2) Select the type of call forwarding. Turn on and set the number to be transferred, etc.
- 3) Click the upper right corner to save the changes.





Picture 29- Set call forward

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



Picture 30- Set call forward



9 Advance Function

9.1 Intercom

After the device enables intercom, it can automatically answer intercom calls.



Picture 31- Web Intercom configure

Table 13 - Intercom configure

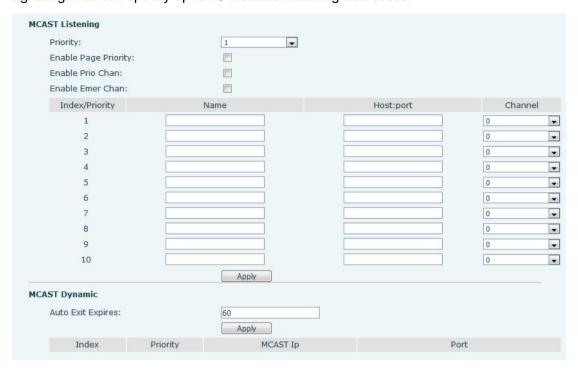
Parameter	Description	
Enable Intercom	When intercom is enabled, the device will accept the incoming call request	
	with a SIP header of Alert-Info instruction to automatically answer the call	
	after specific delay.	
Enable Intercom	Enable mute mode during the intercom call	
Mute		
Enable Intercom	If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

9.2 MCAST

This feature allows user to make some kind of broadcast call to people who are in multicast group. User can configure a multicast DSS Key on the 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 32- Multicast Settings Page

Table 14 - 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] >> [Function Key], select the type to multicast, set the multicast address, and select the codec.
- Click Apply.
- Set up the name, host and port of the receiving multicast on the web page of [Phone Settings] >> [MCAST].
- Press the DSSKEY of Multicast Key which you set.



Receiver will receive multicast call and play multicast automatically.

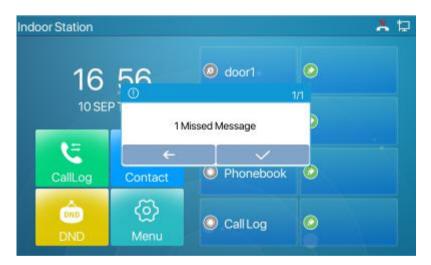
Dynamic multicast:

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

9.3 **SMS**

9.3.1 **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 33- SMS icon

Send messages:

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

View SMS:

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



9.3.2 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 34- New Voice Message Notification

--

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

When the phone is in the default standby state,

- The voicemail icon displays the number of unread voicemail messages.
- Click the icon to view the total number of voicemail messages, or listen to the messages directly in the voicemail interface
- Select [Message] under [Menu]
- Enter [Voice Message] under [Message]
- The "8" in brackets on the SIP1 line represents unread voice messages, and "46" represents the total number of voice messages.
- Select the line to enter, enable the message and set the message number,
 press the upper right corner to save
- After setting the message number, press to listen to the message.





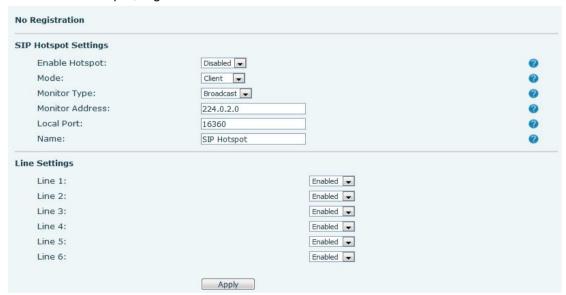
Picture 35 - Voice message interface

9.4 SIP Hotspot

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

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

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



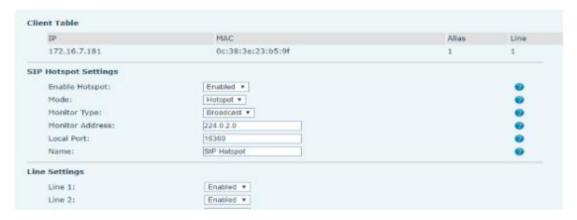
Picture 36- Register SIP account



Table 15- SIP hotspot Parameters

Parameters	Description
Device Table	If your phone is set to "SIP hotspot server", Device Table will display as Client
	Device Table which connected to your phone.
	If your phone is set to "SIP hotspot client", Device Table will display as Server
	Device Table which you can connect to.
SIP hotspot	
Enable hotspot	Set it to be Enable to enable the feature.
Mode	Choose hotspot, phone will be a "SIP hotspot server"; Choose Client, phone
	will be a "SIP hotspot Client"
Monitor Type	Either the Multicast or Broadcast is ok. If you want to limit the broadcast
	packets, you'd better use broadcast. But, if client choose broadcast, the SIP
	hotspot phone must be broadcast.
Monitor Address	The address of broadcast, hotspot server and hotspot client must be same.
Remote Port	Type the Remote port number.

Configure SIP hotspot server:



Picture 37- SIP hotspot server configuration

Configure SIP hotspot client:

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





Picture 38- SIP hotspot client configuration

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

Call extension number:

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



10 Phone Settings

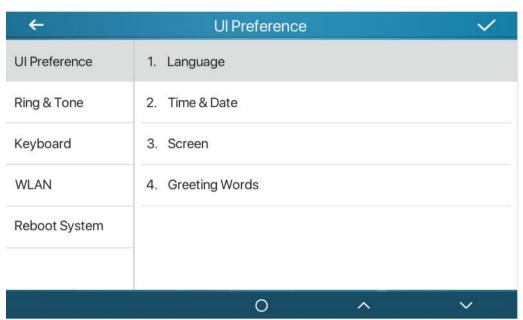
10.1 Basic Settings

10.1.1 Language

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

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

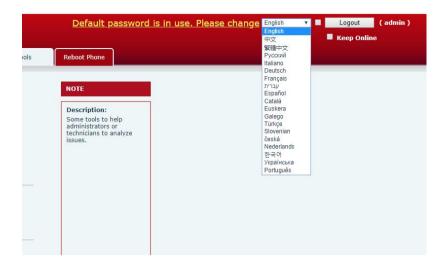
lacktriangle



Picture 39 - Set language

 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:





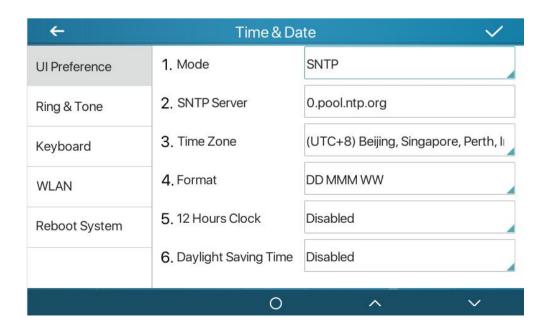
Picture 40- web page language setting

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

10.1.2 Time & Date

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

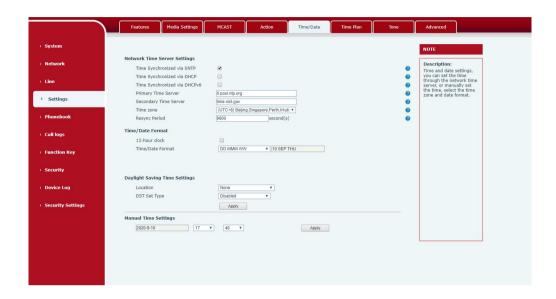
Phone end: When the phone is in the default standby state, press the [Menu] >> [Basic settings] >>[Ul Preference] >>[Time & Date], use the up/down navigation button to edit parameters, press the to save after completion, as shown in the figure:





Picture 41- set time & date

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



Picture 42- webpage set time &date

Table 15- set time Parameters

Parameters	Description	
Mode	Auto/Manual	
	Auto: Enable network time synchronization via SNTP protocol,	
	default enabled.	
	Manual: User can modify data manually.	
SNTP Server	SNTP server address	
Time zone	Select the time zone	
Time format	Select time format from one of the followings:	
	■ 1 JAN, MON	
	■ 1 January, Monday	
	■ JAN 1, MON	
	■ January 1, Monday	
	■ MON, 1 JAN	
	■ Monday, 1 January	
	■ MON, JAN 1	
	■ Monday, January 1	
	■ DD-MM-YY	
	■ DD-MM-YYYY	
	■ MM-DD-YY	

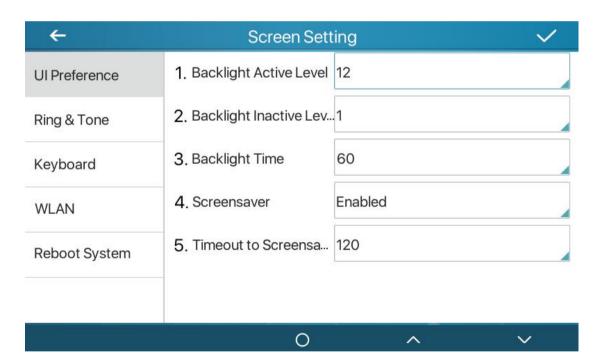


	■ MM-DD-YYYY	
	■ YY-MM-DD	
	■ YYYY-MM-DD	
Separator	Choose the separator between year and moth and day	
12-Hour Clock	Display the clock in 12-hour format	
Daylight Saving Time	Enable or Disable the Daylight Saving Time	

10.1.3 Screen

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

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



Picture 43- set screen Parameters

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



10.1.3.1 Brightness and backlight

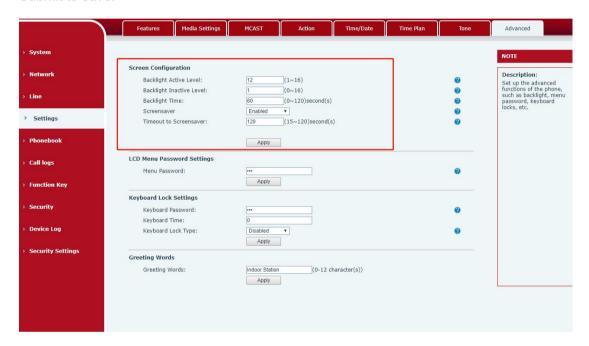
Set the brightness level in the use state from 1 to 16.

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

Set the backlight time, the default is 30 seconds, you can turn it off or choose 15 seconds/30 seconds/45 seconds/60 seconds/90 seconds/120 seconds.

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

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



Picture 44- set screen on webpage

10.1.3.2 Screen Saver

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

.





Picture 45- Screensaver

10.1.4 Ring

When the device is in the default standby mode,

- Enter [Menu] >> [Basic settings].
- Enter [Ring&Tone] >> [Ring]

Set ring type and save it by press

10.1.5 Voice Volume

When the device is in the default standby mode

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

10.1.6 **Greeting words**

The device is in the default standby state.

Press [Menu] to find the [Basic Settings] button.

Press the [UI Preference] button to find the [Welcome] button.



Enter the setting interface, press to save after completion

Note: Only after the default line selection function is disabled, the welcome message can be displayed in the upper left corner of the standby

10.1.7 **Reboot**

When the device is in the default standby mode,

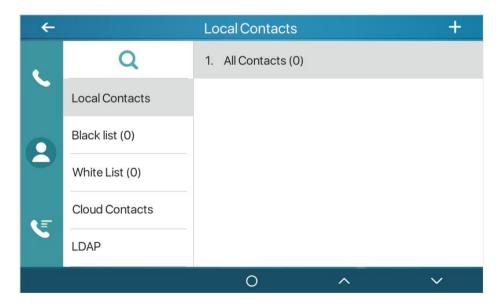
- Enter [Menu] >> [Basic setting] >> [Reboot] item.
- Click [Reboot] to indicate whether to restart the phone.
- Press to restart the phone or press to exit the prompt box to return to the configuration interface.

10.2 Phonebook

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

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

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



Picture 46- local contact

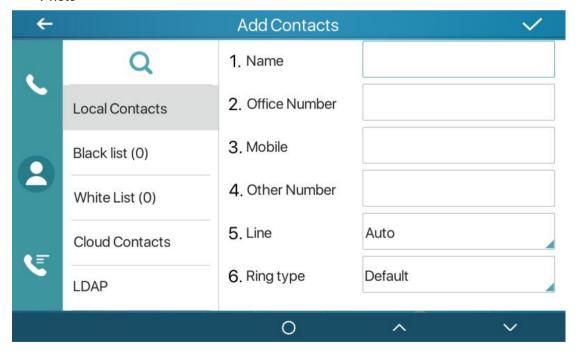


When there are contact records in the phone book, the contact records will be arranged in the alphabet order. User may browse the contacts with up/down navigator keys. The record indicator tells user which contact is currently focused. User may check the contact's information by pressing [**OK**] button.

10.2.1.1 Add / Edit / Delete Contact

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

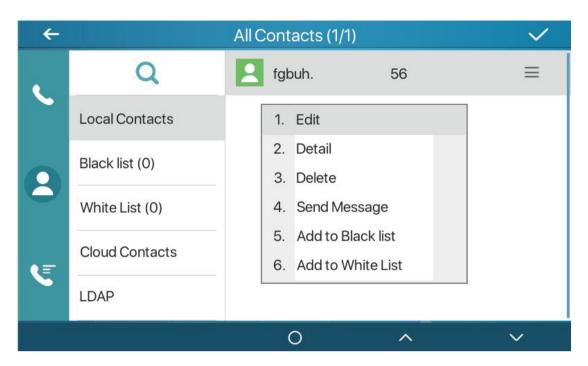
- Contact Name
- Tel. Number
- Mobile Number
- Other Number
- Line
- Ring Tone
- Contact Group
- Photo



Picture 47- add contact

User can edit a contact by pressing button \equiv .





Picture 48- edit contact

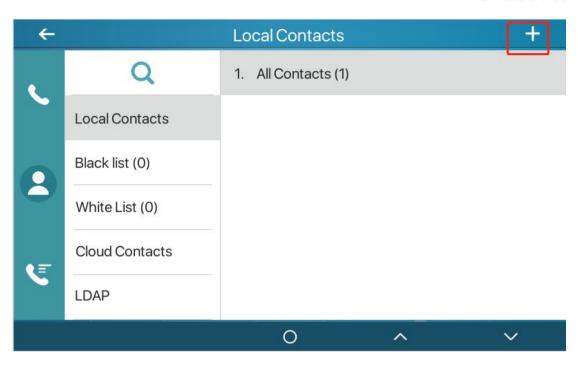
Delete the contact, press to delete the contact, when press it will prompt whether to delete, press to delete.

10.2.1.2 Add / Edit / Delete Group

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

- Add group. Enter contact list interface, press to create groups.
- Delete groups, press = to delete
- To edit the group, press = to edit.
 The brackets indicate the total number of records in the group.

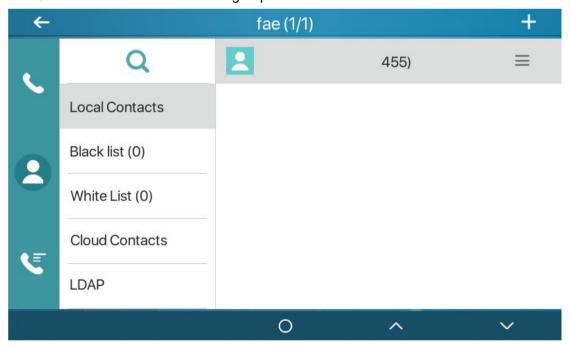




Picture 49- group

10.2.1.3 Add / Edit / Delete contact in Group

User can browse the contact in group



Picture 50- browse the contact in group

When the user browses the contacts in the group, he can press to enter the add contact interface, and then press to save the contact, the contact will also be



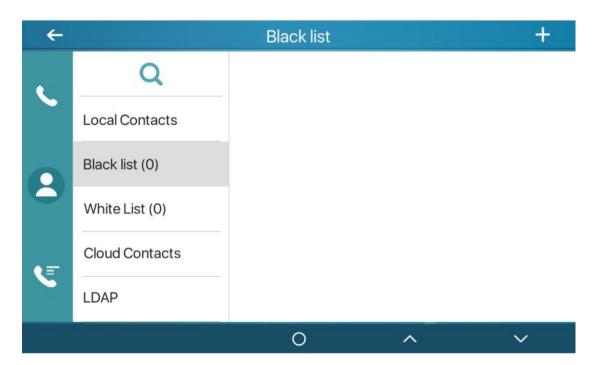
synchronized to the local phone book. You can also delete contacts in the group by press

 \equiv

10.2.2 Black list

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

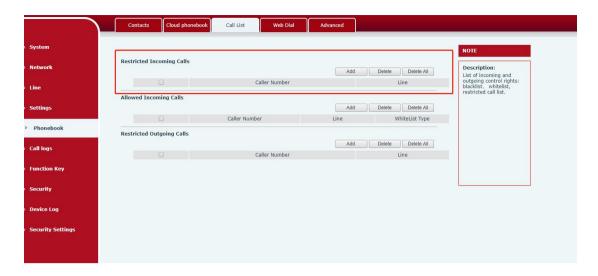
- There are multiple ways to add a number to Blacklist on the device. It can be added directly on [Menu] >> [phone book] icon>> [Black list].
- Select any number in the phone book (both local and network) for configuration addition.
- Select any number in the call log for configuration addition.



Picture 51- 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 52- Black list

10.2.3 Cloud Phone Book

10.2.3.1 Configure Cloud Phone book

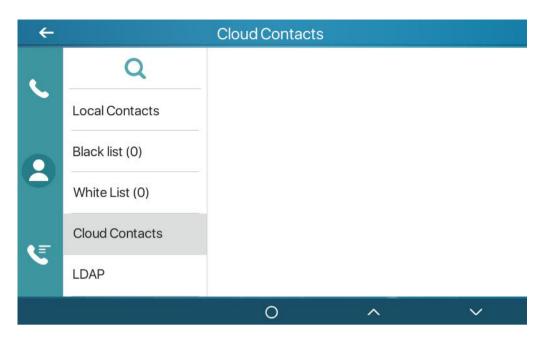
Cloud phonebook allows user to configure the device by downloading a phonebook from a cloud server. This is convenient for office users to use the phonebook from a single source and save the effort to create and maintain the contact list individually. It is also a useful tool to synchronize his/her phonebook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

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

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

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



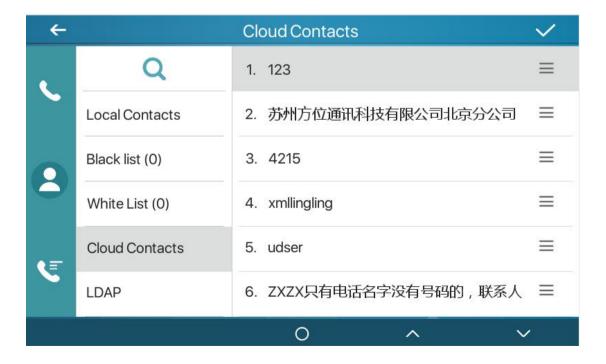


Picture 53 - cloud contacts

10.2.3.2 Downloading Cloud Phone book

In cloud phone book screen, user can open a cloud phone book by pressing the network phonebook. The device will start downloading the phone book. The user will be prompted with a warning message if the download fails,

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





Picture 54-Browsing Contacts in Cloud Phone book

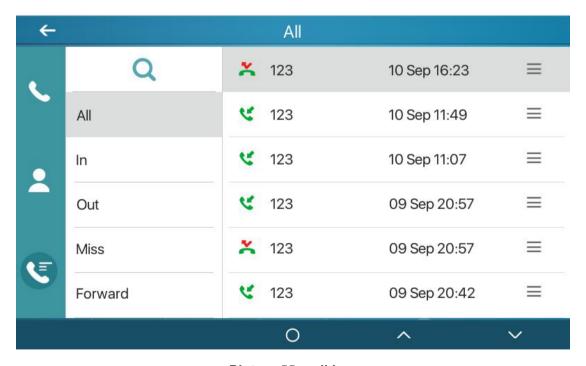
10.3 Call Log

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

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

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

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

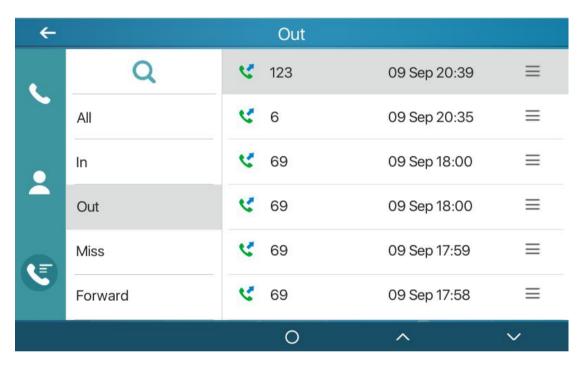


Picture 55- call log

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
- Forward Call Log

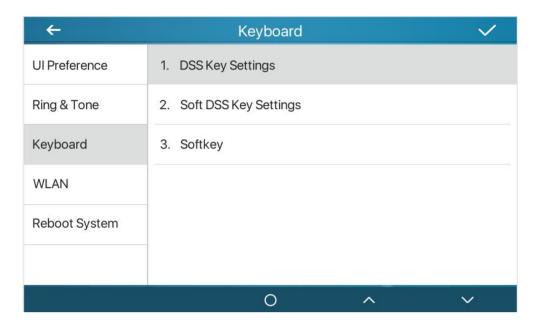


Picture 56- Filter call record types

10.4 Function Key

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





Picture 57- Dss key settings

The DSS Key could be configured as followings,

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

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

NOTICE! User-defined title is up to 10 characters.

More detailed information refers to $\underline{12.31 \ Function \ Key} >> \underline{Function \ Key}$ and $\underline{6.2 \ ppendix}$ \underline{ii}



10.5 Wi-Fi

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

10.5.1 Wireless network

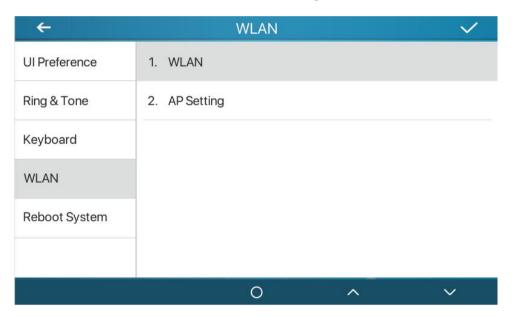
When the device is in the default standby state, search for wireless networks

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

Click [Basic Settings] >> [WLAN].

Click [Wireless Network] to enter the setting interface.

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



Picture 58 - WLAN

- The device connects to the wireless network
- Select the available network, select wireless after entering, click , enter username, password to connect
- After connection successful will change to

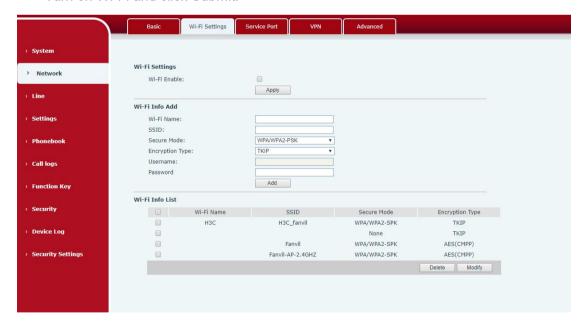




Picture 59-wireless network

Connection to wireless network

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



Picture 60- webpage wireless connect



10.5.2 AP setting

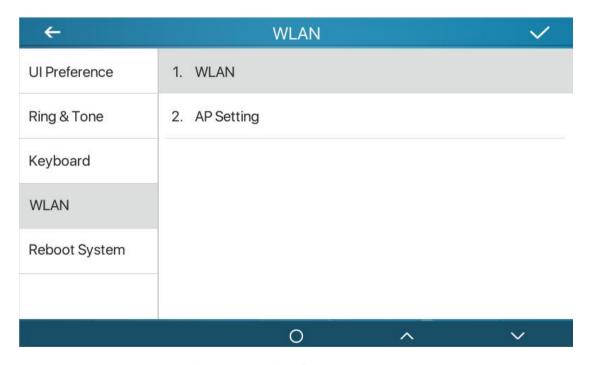
In the absence of a wired network, you can set up a wireless network connection by turning on the AP mode of the device and connecting to the backstage webpage of the device with a mobile phone.

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

Click [Basic Settings] >> [WLAN] >> [AP Settings]

Enable AP, prompt to restart, it will take effect after restart (cannot be turned on at the same time as the wireless network, if the wireless network is enabled, you need to turn it off)

After restarting, enter the AP setting interface, you can see the SSID and IP address named after the device's MAC address



Picture 61- AP info

Turn on Wi-Fi, you can see the Wi-Fi network named by the device's MAC address, click to connect without a password



After the connection is successful, scan the QR code with the browser of the mobile phone to enter the login interface of the device background

Enter username/password (default admin)

After logging in, select Wi-Fi settings, manually add Wi-Fi and enable Wi-Fi, the device will automatically connect to the Wi-Fi network after the setting is completed

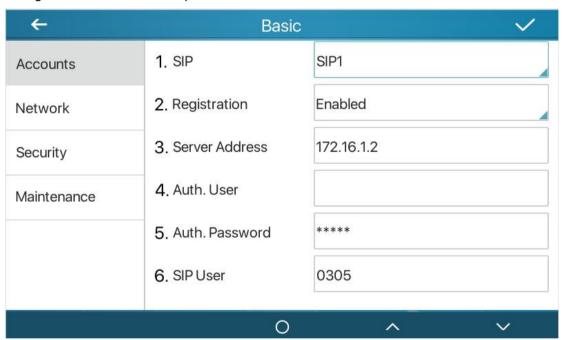
Back to standby, you can see the Wi-Fi icon in the status bar



10.6 **Advanced**

Line Configurations 10.6.1

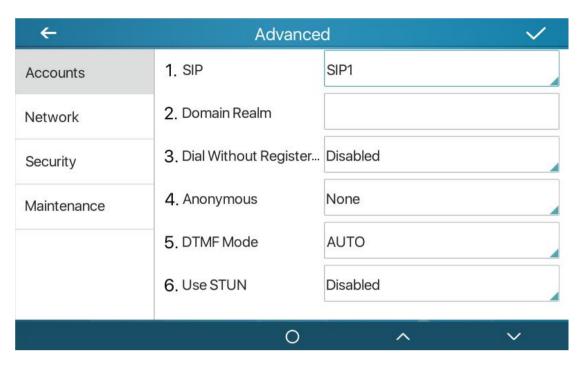
Phone access [Phone settings] >> [Account] >> [Line], select [Register Account] to configure the SIP line on the phone.



Picture 62-line configurations

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





Picture 63- Configure Advanced Line Options

10.6.1.1 Network Settings

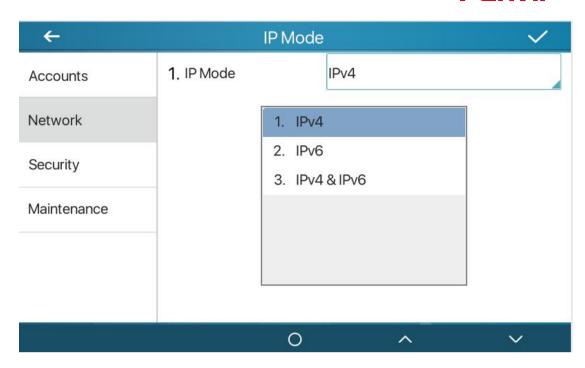
10.6.1.2 Network Settings

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

■ IP Mode

There are 3 connection mode options: IPv4、IPv6、IPv4&IPv6 Click to switch IP mode

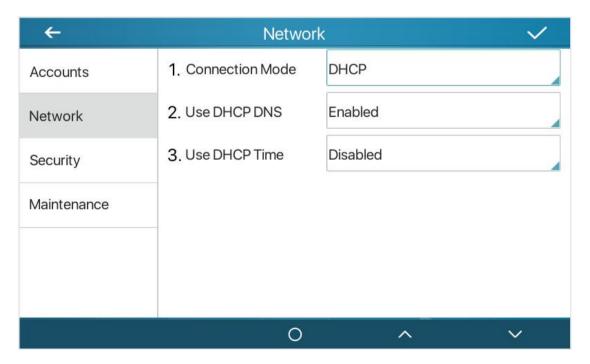




Picture 64- IP Mode

■ IPv4

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

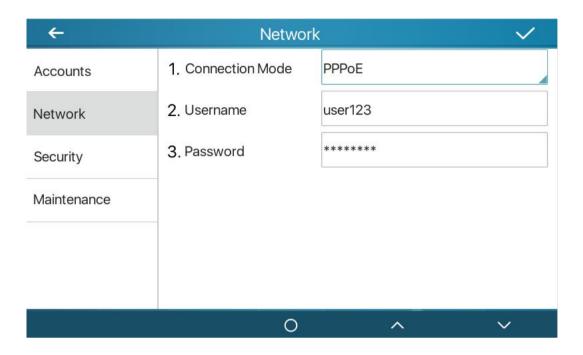


Picture 65- DHCP network mode

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



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

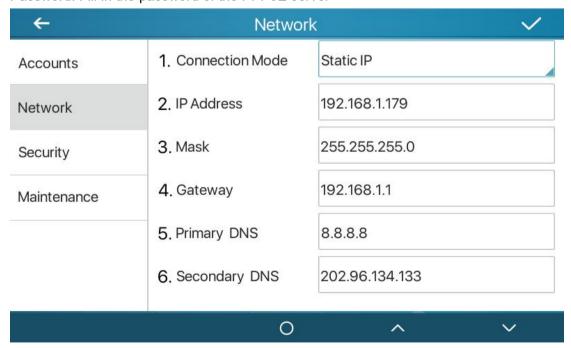


Picture 66 - PPPoE network mode

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

User: Fill in the username of the PPPoE server.

Password: Fill in the password of the PPPoE server



Picture 67- Static IP network mode

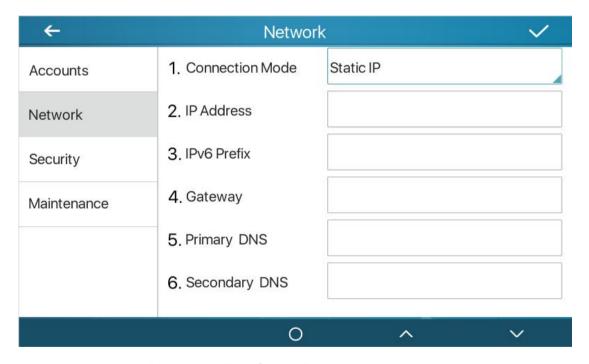


When using Static IP mode, user must configure the IP address manually.

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

■ IPv6

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



Picture 68- IPv6 Static IP network mode

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

■ CDP

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

Table 16- 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

Note: QoS & VLAN details refer to

http://www.fanvil.com/Uploads/Temp/download/20180920/5ba383b56c3ef.pdf

10.6.1.4 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

NOTICE! 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 page [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 some delay of the connection establishment. User may need to refresh the page to update the status.

Once the VPN is configured, the device will try to connect to the VPN automatically when the device boots up every time until user disable it. Sometimes, if the VPN connection does not established 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], Section 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.

http://www.fanvil.com/Uploads/Temp/download/20180920/5ba38303bfcf0.pdf

10.6.1.5 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.



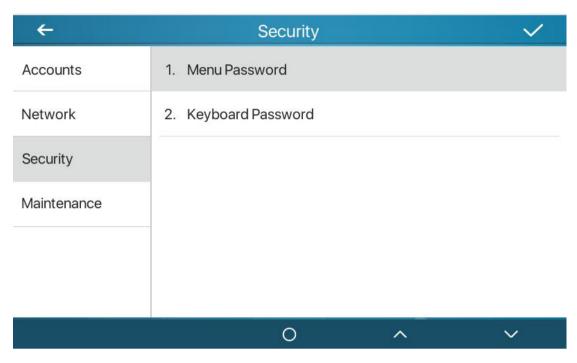
Picture 69 - The phone configures the web server type

10.6.2 Set The Secret Key

When the device is in the default standby mode,

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





Picture 70- Menu Password



Picture 71 - Menu password setting

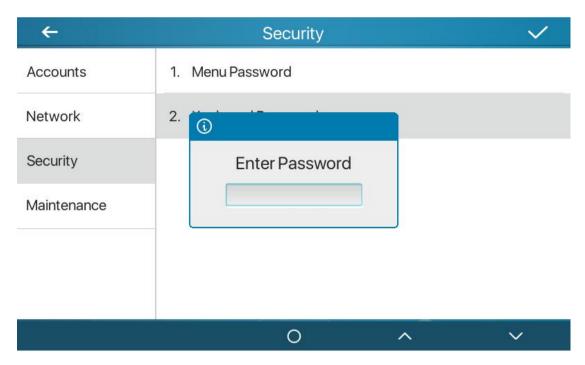
The menu password is the advanced setting password.

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

[New password] The password you want to reset.

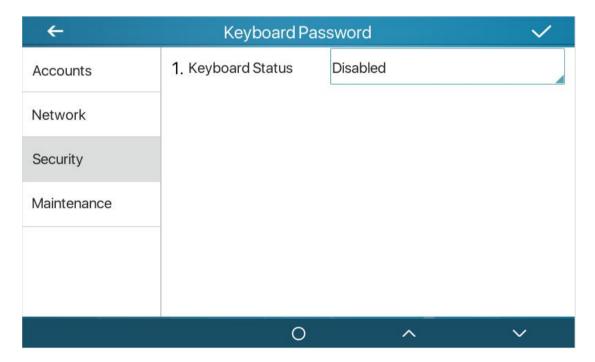
The password immediately takes effect after the setting is completed, and the password is not displayed in plain text after being entered.





Picture 72- Menu password input

The keyboard password is used to unlock the keyboard after the device is locked.



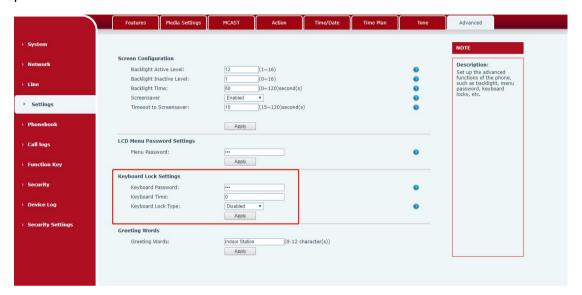
Picture 73- keyboard password setting

The setting of keyboard password only for turn on or turn off on device Select [Keyboard Password] and click it ,it will pop up a prompt to enter a password, this password is the menu password (the default password is 123).



If the password is correct, you will enter the keyboard lock status interface. The keyboard lock status is off by default, and the timeout period will take effect after you choose to enable it.

Return to standby.,After the timeout period, the device will lock the keyboard, and there will be a lock icon on the top of the device. Press any key at this time will prompt a password box.

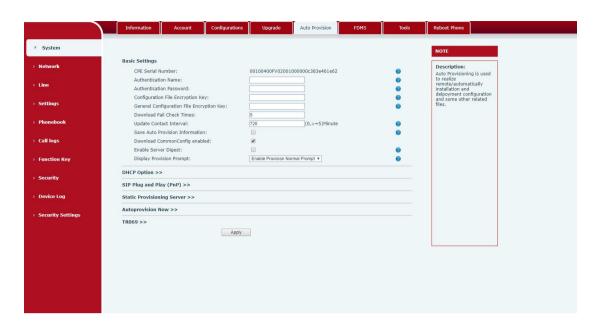


Picture 74- webpage keyboard password setting

10.6.3 Maintenance

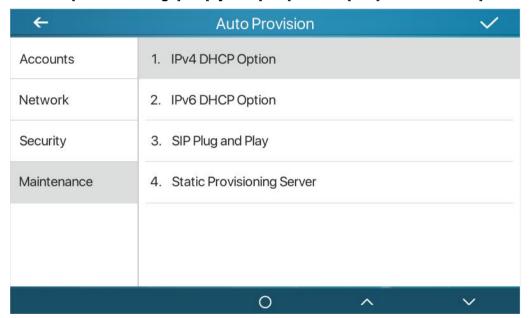
Phone Webpage: Login and go to [System] >> [Auto provision].





Picture 75- Page auto provision Settings

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



Picture 76- Phone auto provision settings

Fanvil devices support SIP PnP, DHCP options, Static provision, TR069.

Transferring protocol: FTP、 TFTP、 HTTP、 HTTPS

Details refer to Fanvil Auto Provision in

http://www.fanvil.com/Uploads/Temp/download/20180920/5ba3816f8d5f0.pdf

Table 17 - 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	
Encryption Key	the encryption key here	
General Configuration File	If the common configuration file is encrypted, user should add	
Encryption Key	the encryption key here	
Download Fail Check	If there download is failed, phone will retry with the configured	
Times	times.	
Update Contact Interval	Phone will update the phonebook with the configured interval	
	time. If it is 0, the feature is disabled.	
Save Auto Provision	Save the HTTP/HTTPS/FTP user name and password. If the	
Information	provision URL is kept, the information will be kept.	
Download Common	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	
Enable Server Digest	changed, phone will download and update.	
DHCP Option		
	Conflugre DHCP option, DHCP option supports DHCP custom	
Option Value	option DHCP option 66 DHCP option 43, 3 methods to get	
	the provision URL. The default is Option 66.	
Custom Option Value	Custom Option value is allowed from 128 to 254. The option	
Custom Option value	value must be same as server define.	
Enable DHCP Option 120	Use Option120 to get the SIP server address from DHCP	
Lilable Di loi Option 120	server.	
SIP Plug and Play (PnP)		
	Whether enable PnP or not. If PnP is enable, phone will send	
	a SIP SUBSCRIBE message with broadcast method. Any	
Enable SIP PnP	server can support the feature will respond and send a Notify	
	with URL to phone. Phone could get the configuration file with	
	the URL.	
Server Address	Broadcast address. As default, it is 224.0.0.0.	
Server Port	PnP port	
Transport Protocol	PnP protocol, TCP or UDP.	
Update Interval	PnP message interval.	

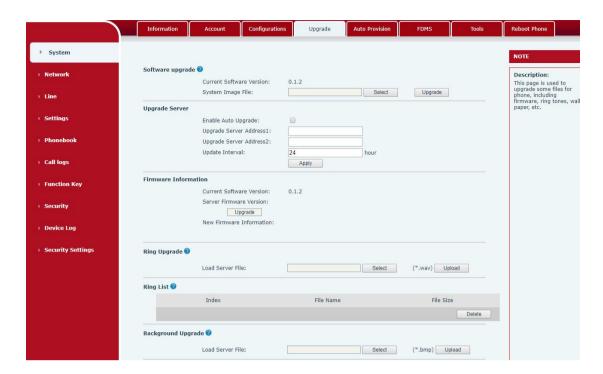


Static Provisioning Serve	r	
Server Address Provisioning server address. Support both IP address and demain address.		
	domain address.	
	The configuration file name. If it is empty, phone will request	
	the common file and device file which is named as its MAC	
Configuration File Name	address.	
	The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

10.6.4 Firmware Upgrade

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





Picture 77- Web page firmware upgrade

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

Table 18- firmware upgrade

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



- 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, as shown in the figure:



- 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.





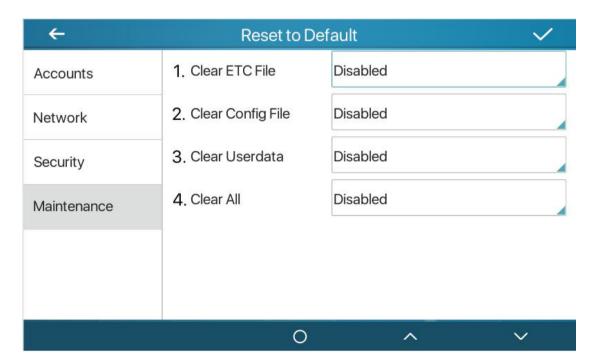
Picture 78- firmware upgrade

10.6.5 Factory Reset

The phone is in default standby mode.

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

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



Picture 79 - factory reset



11 Web Configurations

11.1 Web Page Authentication

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

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



Picture 80- web login



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



Picture 81- default password prompt

11.2 System >> Information

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

- Model
- Hardware Version
- Software Version
- Uptime

And summarization of network status,

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

Besides, summarization of SIP account status,

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

11.3 System >> Account

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

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



11.4 System >> Configurations

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

■ Clear Configurations

Select the module in the configuration file to clear.

SIP: account configuration.

AUTOPROVISION: automatically upgrades the configuration

TR069:TR069 related configuration

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

DSS Key: DSS Key configuration

■ Clear Tables

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

■ Reset Phone

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

11.5 System >> Upgrade

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

11.6 System >> Auto Provision

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

http://www.fanvil.com/Uploads/Temp/download/20180920/5ba3816f8d5f0.pdf

11.7 System >> Tools

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

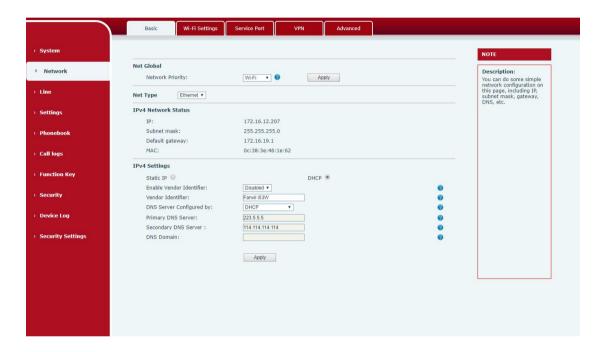


11.8 System >> Reboot Phone

This page can restart the phone.

11.9 Network >> Basic

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



Picture 82- Network settings

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

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

11.10 Network >> Service Port

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





Picture 83- Service Port Settings

Table 19 - Service port

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

11.11 Network >> VPN

Users can configure VPN connections on this page. Please refer to 10.6.2.3 VPN



and get more details.

11.12 Line >> SIP

Configure the Line service configuration on this page.

Table 20- Line configuration on the web page

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



Proxy Server Port	Enter the SIP proxy server port, default is 5060.
Proxy User	Enter the SIP proxy user.
Proxy Password	Enter the SIP proxy password.
Backup Proxy Server Address	Enter the IP or FQDN address of the backup
	proxy server.
Backup Proxy Server Port	Enter the backup proxy server port, default is
	5060.
Basic Settings	
Enable Auto Answering	Enable auto-answering, the incoming calls will
	be answered automatically after the delay time
Auto Answering Delay	Set the delay for incoming call before the system
	automatically answered it
Call Forward Unconditional	Enable unconditional call forward, all incoming
	calls will be forwarded to the number specified in
	the next field
Call Forward Number for Unconditional	Set the number of unconditional call forward
Call Forward on Busy	Enable call forward on busy, when the phone is
,	busy, any incoming call will be forwarded to the
	number specified in the next field.
Call Forward Number for Busy	Set the number of call forward on busy .
Call Forward on No Answer	Enable call forward on no answer, when an
	incoming call is not answered within the
	configured delay time, the call will be forwarded
	to the number specified in the next field.
Call Forward Number for No Answer	Set the number of call forward on no answer.
Call Forward Delay for No Answer	Set the delay time of not answered call before
Can't Giward Boldy for No Answer	being forwarded.
Transfer Timeout	Set the timeout of call transfer process.
Conference Type	Set the type of call conference, Local=set up call
	conference by the device itself, maximum
	supports two remote parties, Server=set up call
	conference by dialing to a conference room on
	the server
Server Conference Number	Set the conference room number when
	conference type is set to be Server
Cuboribo For Voice Massacca	
Subscribe For Voice Message	Enable the device to subscribe a voice message
Subscribe For voice Message	Enable the device to subscribe a voice message waiting notification, if enabled, the device will receive notification from the server if there is



oice Message Number Se	at the number for retrieving voice message
	et the number for retrieving voice message
oice Message Subscribe Period Se	et the interval of voice message notification
sul	bscription
nable Hotline En	nable hotline configuration, the device will dial
to	the specific number immediately at audio
cha	annel opened by off-hook handset or turn on
ha	inds-free speaker or headphone
otline Delay Se	et the delay for hotline before the system
au	itomatically dialed it
otline Number Se	et the hotline dialing number
ial Without Registered Se	et call out by proxy without registration
nable Missed Call Log	enabled, the phone will save missed calls into
the	e call history record.
TMF Type Se	et the DTMF type to be used for the line
TMF SIP INFO Mode Se	et the SIP INFO mode to send '*' and '#' or '10'
and	nd '11'
nable DND En	nable Do-not-disturb, any incoming call to this
line	e will be rejected automatically
ubscribe For Voice Message En	nable the device to subscribe a voice message
wa	aiting notification, if enabled, the device will
rec	ceive notification from the server if there is
voi	ice message waiting on the server
se VPN Se	et the line to use VPN restrict route
se STUN Se	et the line to use STUN for NAT traversal
nable Failback Wi	hether to switch to the primary server when it
is a	available.
ailback Interval A	Register message is used to periodically
de	etect the time interval for the availability of the
ma	ain Proxy.
ignal Failback Mu	ultiple proxy cases, whether to allow the
inv	vite/register request to also execute failback.
ignal Retry Counts Th	ne number of attempts that the SIP Request
col	nsiders proxy unavailable under multiple
pro	oxy scenarios.
odecs Settings Se	et the priority and availability of the codecs by
ad	lding or remove them from the list.



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



	of BLF phone.
	Please enter the BLF server, if the sever does
	not support subscription package, the registered
	server and subscription server will be separated.
Keep Alive Type	Set the line to use dummy UDP or SIP OPTION
TREED THIVE TYPE	packet to keep NAT pinhole opened
Keep Alive Interval	Set the keep alive packet transmitting interval
Keep Authentication	Keep the authentication parameters from
Treep / tationication	previous authentication
Blocking Anonymous Call	Reject any incoming call without presenting
Blocking / thoriyinous Gail	caller ID
User Agent	Set the user agent, the default is Model with
Goo. Algonic	Software Version.
Specific Server Type	Set the line to collaborate with specific server
3,000	type
SIP Version	Set the SIP version
Anonymous Call Standard	Set the standard to be used for anonymous
Local Port	Set the local port
Ring Type	Set the ring tone type for the line
Enable user=phone	Sets user=phone in SIP messages.
Use Tel Call	Set use tel call
Auto TCP	Using TCP protocol to guarantee usability of
	transport for SIP messages above 1500 bytes
Enable Rport	Set the line to add rport in SIP headers
Enable PRACK	Set the line to support PRACK SIP message
DNS Mode	Select DNS mode, A, SRV, NAPTR
Enable Long Contact	Allow more parameters in contact field per RFC
g .	3840
Enable Strict Proxy	Enables the use of strict routing. When the
-	phone receives packets from the server, it will
	use the source IP address, not the address in
	via field.
Convert URI	Convert not digit and alphabet characters to
	%hh hex code
Use Quote in Display Name	Whether to add quote in display name, i.e.
	"Fanvil" vs Fanvil
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
Litable mactive fiold	enabled, you can see that in the INVITE
	package, SDP is inactive.
Caller ID Header	Set the Caller ID Header
Use 182 Response for Call waiting	Set the device to use 182 response code at call
Fueble Feeking Ours	waiting response
Enable Feature Sync	Feature Sync with server
Enable SCA	Enable/Disable SCA (Shared Call Appearance)
CallPark Number	Set the CallPark number.
Server Expire	Set the timeout to use the server.
TLS Version	Choose TLS Version.
uaCSTA Number	Set uaCSTA Number.
Enable Click To Talk	With the use of special server, click to call out
	directly after enabling.
Enable Chgport	Whether port updates are enabled.
VQ Name	Open the VQ name for VQ RTCP-XR.
VQ Server	Open VQ server address for VQ RTCP-XR.
VQ Port	Open VQ port for VQ RTCP-XR.
VQ HTTP/HTTPS Server	Enable VQ server selection for VQ RTCP-XR.
Flash mode	Chose Flash mode, normal or SIP info.
Flash Info Content-Type	Set the SIP info content type.
Flash Info Content-Body	Set the SIP info content body.
PickUp Number	Set the scramble number when the Pickup is
	enabled.
JoinCall Number	Set JoinCall Number.
Intercom Number	Set Intercom Number.
Unregister On Boot	Whether to enable logout function.
Enable MAC Header	Whether to open the registration of SIP package
	with user agent with MAC or not.
Enable Register MAC Header	Whether to open the registration is user agent
, , ,	with MAC or not.
BLF Dialog Strict Match	Whether to enable accurate matching of BLF
	sessions.
PTime(ms)	Set whether to bring ptime field, default no.
SIP Global Settings	
Strict Branch	Set up to strictly match the Branch field.
Other Dianon	Total to outony material the branch hold.

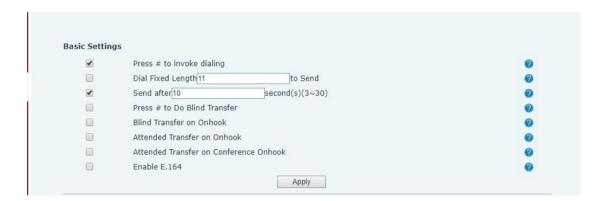


Enable Group	Set open group.
Enable RFC4475	Set to enable RFC4475.
Enable Strict UA Match	Enable strict UA matching.
Registration Failure Retry Time	Set the registration failure retry time.
Local SIP Port	Modify the phone SIP port.
Enable uaCSTA	Set to enable the uaCSTA function.

11.13 Line >> SIP Hotspot

Please refer to 9.4 SIP Hotspot.

11.14 Line >> Dial Plan



Picture 84- Dial plan settings

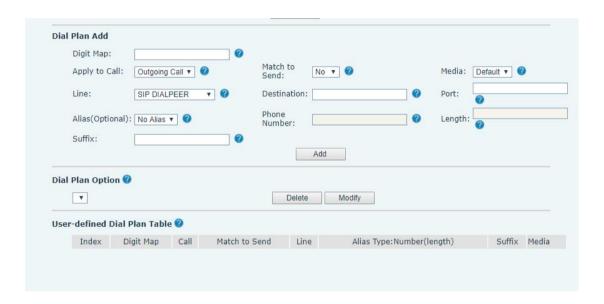
Table 21- Phone 7 dialing methods

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



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

Add dialing rules:



Picture 85- Custom setting of dial - up rules

Table 22 - Dial - up rule configuration table

Parameters	Description
Dial rule	There are two types of matching: Full Matching
	or Prefix Matching. In Full matching, the entire
	phone number is entered and then mapped per
	the Dial Peer rules.
	In prefix matching, only part of the number is
	entered followed by T. The mapping with then
	take place whenever these digits are dialed.
	Prefix mode supports a maximum of 30 digits.
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 will replace the phone number.		
■ add: xxx – xxx will be dialed before any phone number.		
■ del –The characters will be deleted from the phone number.		
rep: xxx – xxx will be substituted for the specified characters.		
Suffix	Characters to be added at the end of the phone	
	number. It is an optional item.	
Length	Set the number of characters to be deleted. For	
	example, if this is set to 3, the phone will delete	
	the first 3 digits of the phone number. It is an	
	optional item.	

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

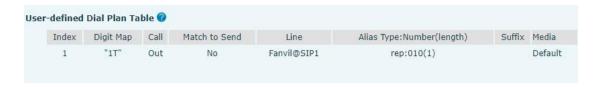
Example 1: All Substitution -- Assume that it is desired to place a direct IP call to IP address 172.168.2.208. Using this feature, 123 can be substituted for 172.168.2.208.



Picture 86- 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 87- 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.

11.15 Line >> Action Plan

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

Table 23- action plan

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

11.16 Line >> Basic Settings

Set up the register global configuration.

Table 24- Set the line global configuration on the web page



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

11.17 Settings >> Features

Configuration phone features.

Table 25- General function Settings

Parameters	Description
Basic Settings	
Enable Call Waiting	Enable this setting to allow user to take second
	incoming call during an established call. Default
	enabled.
Enable Call Transfer	Enable Call Transfer.
Semi-Attended Transfer	Enable Semi-Attended Transfer by selecting it
Enable 3-Way Conference	Enable 3-way conference by selecting it
Enable Auto Onhook	The phone will hang up and return to the idle
	automatically at hands-free mode
Auto Onhook Time	Specify Auto Onhook time, the phone will hang
	up and return to the idle automatically after Auto
	Hand down time at hands-free mode, and play
	dial tone Auto Onhook time at handset mode
Ring for Headset	Enable Ring for Handset by selecting it, the
	phone plays ring tone from handset.
Auto Headset	Enable this feature, headset plugged in the
	phone, user press 'answer' key or line key to
	answer a call with the headset automatically.



Enable Silent Mode	When enabled, the phone is muted, there is no
	ringing when calls, you can use the volume keys
	and mute key to unmute.
Disable Mute for Ring	When it is enabled, you can't mute the phone
Enable Default Line	If enabled, user can assign default SIP line for
	dialing out rather than SIP1.
Enable Auto Switch Line	Enable phone to select an available SIP line as
	default automatically
Default Ext Line	Select the default line to use for outgoing calls
Ban Outgoing	If you select Ban Outgoing to enable it, and you
	cannot dial out any number.
Hide DTMF	Configure the hide DTMF mode.
Enable CallLog	Select whether to save the call log.
Enable Restricted Incoming List	Whether to enable restricted call list.
Enable Allowed Incoming List	Whether to enable the allowed call list.
Enable Restricted Outgoing List	Whether to enable the restricted allocation list.
Enable Country Code	Whether the country code is enabled.
Country Code	Fill in the country code.
Area Code	Fill in the area code.
Enable Number Privacy	Whether to enable number privacy.
Match Direction	Matching direction, there are two kinds of rules
Match Direction	from right to left and from left to right.
Start Position	Open number privacy after the start of the
Start Fosition	hidden location.
Hide Digits	Turn on number privacy to hide the number of
Tilde Digits	digits.
Allow IP Call	If enabled, user can dial out with IP address
P2P IP Prefix	Prefix a point-to-point IP call.
Caller Name Priority	Change caller ID display priority.
Emergency Call Number	
Search path	Select the search path.
LDAP Search	Select from with one LDAP for search
	Configure the Emergency Call Number. Despite
Emergency Call Number	the keyboard is locked, you can dial the
	emergency call number
Restrict Active URI Source IP	Set the device to accept Active URI command
	from specific IP address. More details please
	refer to this link



Push XML Server	Configure the Push XML Server, when phone receives request, it will determine whether to display corresponding content on the phone which sent by the specified server or not.
Enable Pre-Dial	Disable this feature, user enter number will open audio channel automatically. Enable the feature, user enter the number without opening audio channel.
Enable Multi Line	If enabled, up to 10 simultaneous calls can exist on the phone, and if disabled, up to 2 simultaneous calls can exist on the phone.
Line Display Format	Custom line format: SIPn/SIPn: xxx/xxx@SIPn
Contact As White List Type	NONE/BOTH/DND White List/FWD White List
Block XML When Call	Disable XML push on call.
SIP notify	When enabled, the phone displays the information when it receives the relevant notify content.
Tone Settings	
Enable Holding Tone	When turned on, a tone plays when the call is held
Enable Call Waiting Tone	When turned on, a tone plays when call waiting
Play Dialing DTMF Tone	Play DTMF tone on the device when user pressed a phone digits at dialing, default enabled.
Play Talking DTMF Tone	Play DTMF tone on the device when user pressed a phone digits during taking, default enabled.
DND Settings	
DND Option	Select to take effect on the line or on the phone or close.
Enable DND Timer	Enable DND Timer, If enabled, the DND is automatically turned on from the start time to the off time.
DND Start Time	Set DND Start Time
DND End Time	Set DND End Time
Intercom Settings	
Enable Intercom	When intercom is enabled, the device will accept



	the incoming call request with a CID header of
	the incoming call request with a SIP header of
	Alert-Info instruction to automatically answer the
	call after specific delay.
Enable Intercom Mute	Enable mute mode during the intercom call
Enable Intercom Tone	If the incoming call is intercom call, the phone
	plays the intercom tone
Enable Intercom Barge	Enable Intercom Barge by selecting it, the phone
	auto answers the intercom call during a call. If
	the current call is intercom call, the phone will
	reject the second intercom call
Response Code Settings	
DND Response Code	Set the SIP response code on call rejection on
	DND
Busy Response Code	Set the SIP response code on line busy
Reject Response Code	Set the SIP response code on call rejection
Password Dial Settings	
Enable Password Dial	Enable Password Dial by selecting it, When
	number entered is beginning with the password
	prefix, the following N numbers after the
	password prefix will be hidden as *, N stands for
	the value which you enter in the Password
	Length field. For example: you set the password
	prefix is 3, enter the Password Length is 2, then
	you enter the number 34567, it will display 3**67
	on the phone.
Encryption Number Length	Configure the Encryption Number length
,, <u> </u>	3 71 3
Password Dial Prefix	Configure the prefix of the password call
D 150	number
Power LED	
Common	Standby power lamp state, off when off, open is
	always bright red. Off by default.
SMS/MWI	The status of power lamp when there is unread
	short message/voice message, including
	off/on/slow flash/quick flash, default slow flash.
Missed	The state of the power lamp when there is a
	missed call, including off/on/slow flash/quick
	flash, the default slow flash.
Talk/Dial	In the talk/dial state, the power lamp state, off is
	·



	off, on is always red bright, the default is off.
Ringing	Power lamp status when there is an incoming
	call, including off/on/slow flash/quick flash,
	default flash.
Muto	Power lamp status in mute mode, including
Mute	off/on/slow flash/quick flash, off by default.
	The power lamp state, including off/on/slow
Hold/Held	flash/quick flash, is turned off by default when
	left/retained.
Notification Popups	
Display Missed Call Popup	No incoming call popup prompt after opening, no
Display Missed Call T Opup	popup prompt when closing, open by default.
	Voice message popup prompt is not answered
Display MWI Popup	after opening, and it is opened by default if there
	is no popup prompt when closing.
	There is a popup prompt when the WIFI adapter
Display Device Connect Popup	is connected. There is no popup prompt when
	the WIFI adapter is closed. It is on by default.
	There is popup prompt for unread messages
Display SMS Popup	after opening, and there is no popup prompt
	when closing. It is opened by default.
Display Other Popup	When the handle is not hung back after opening,
	registration fails, IP acquisition fails, Tr069
	connection fails and other abnormalities, there
	will be popup prompt when it is opened;
	otherwise, there will be no prompt when it is
	closed, and it will be opened by default.

Figure 1

11.18 Settings >> Media Settings

Change voice Settings.

Table 26 - Voice settings

Parameter	Description
Codecs Settings	Select enable or disable voice encoding:
	G.711A/U,G.722,G.729,



	G.726-16,G726-24,G726-32,G.726-40,
	ILBC,opus
Video codec	
Video codec	Select to enable video encoding:H264
Media Setting	
DTMF Payload Type	Enter the DTMF payload type, the value must be
	96~127.
Headset Mic Gain	Set the earphone's radio volume gain to fit
	different models of earphones.
Opus playload type	Set Opus load type, range 96~127.
	Set Opus sampling rate, including opus-nb (8KHz)
OPUS Sample Rate	and opus-wb (16KHz).
ILBC Payload Type	Set the ILBC Payload Type, the value must be
	96~127.
ILBC Payload Length	Set the ILBC Payload Length
Onhook Time	Configure a minimum response time, which
	defaults to 200ms
Enable the patting spring to generate Flash	Whether to turn on the plug spring to generate
	Flash
Video bit rate	Set the bit rate of video:64kbps, 192kbps,
	256kbps, 384kbps, 512kbps, 768kbps, 1Mbps,
	1.6Mbps, 2Mbps, 3Mbps, 4Mbps
Video frame rate	Set the video frame rate: 5fps, 10fps, 15fps,
	20fps, 25fps, 30fps
Video resolution	Set Video resolution: CIF,VGA,4CIF,720P
H.264Payload Type	Set the H264 Payload Type, the value must be
	96~127.
Display splicing frame	Whether to start displaying splicing frames
RTP Control Protocol(RTCP) Settings	
CNAME user	Set CNAME user
CNAME host	Set CNAME host
RTP Settings	
RTP keep alive	Hold the call and send the packet after 30s
Alert Info Ring Settings	
Value	Set the value to specify the ring type.
Ring Type	Type1-Type9
	ı



11.19 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 27 - Multicast parameters

Parameters	Description	
Normal Call Priority	Define the priority of the active call, 1 is the	
	highest priority, 10 is the lowest.	
Enable Page Priority	The voice call in progress shall take precedence	;
	over all incoming paging calls.	
Name	Listened multicast server name	
Host: port	Listened multicast server's multicast IP address	3
	and port.	

11.20 Settings >> Action

Action URL

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

11.21 Settings >> Time/Date

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

0

Table 28 - Time & Date settings

Parameters	Description
Network Time Server Settings	
Time Synchronized via SNTP	Enable time-sync through SNTP protocol
Time Synchronized via DHCP	Enable time-sync through DHCP protocol
Primary Time Server	Set primary time server address



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

11.22 Setting >> Time plan

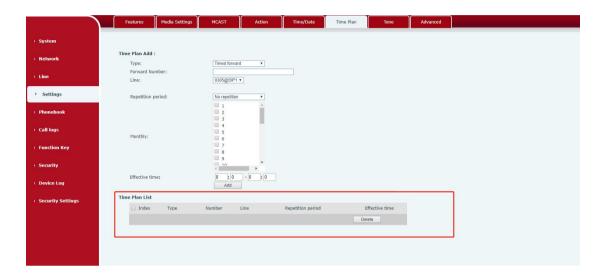
Users can configure the time plan to restart and upgrade phone

Table 29 - time plan

parameter	description
Туре	Timed restart, timed upgrade, timed forward



Repetition period	Do not repeat: execute once within the set time range	
	Daily: Perform this operation in the same time every day	
	Weekly: Perform this operation in the same time of the week	
	Monthly: Perform this operation in the same time of the Month	
Effective time	Set the operation time	
Forward Number	Set the SIP number for forwarding in the time range	
Line	Set the line for forwarding in the time range	



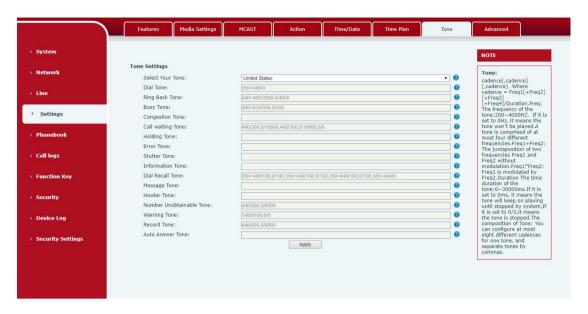
Picture 88- time plan

11.23 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 89- Webpage Tone

11.24 Settings >> Advanced

User can configure the advanced configuration settings in this page.

- Screen Configuration.
 - Enable Energy Saving
 - Backlight Time
 - Screen Saver
- LCD Menu Password Settings.
- 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 'Indoor Station'.

11.25 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 105



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.

11.26 Phonebook >> Cloud phonebook

Cloud Phonebook

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

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

Phonebook name (must)

Phonebook URL (must)

Access username (optional)

Access password (optional)

LDAP Settings

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

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

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

Display Title (must)

LDAP Server Address (must)

LDAP Server Port (must)

Search Base (must)

Access username (optional)



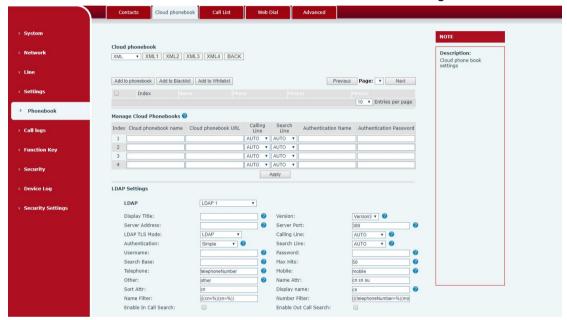
Access password (optional)

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 90- Web cloud phone book Settings

11.27 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.

11.28 Phonebook >> Web Dial

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

11.29 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 will not delete contacts in that group.

11.30 Call Logs

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

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

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

11.31 Function Key >> Function Key

Function Key Configuration:



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

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

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

Parameters	Description
Memory Key	BLF (NEW CALL/BXFE /AXFER): It is used to prompt user the
	state of the subscribe extension, and it can also pick up the
	subscribed number, which help user monitor the state of subscribe
	extension (idle, ringing, a call). There are 3 types for one-touch
	BLF transfer method.
	p.s. User should enter the pick-up number for specific BLF key to
	fulfill the pick-up operation.
	Presence: Compared to BLF, the Presence is also able to view
	whether the user is online.
	Note: You cannot subscribe the same number for BLF and
	Presence at the same time
	Speed Dial: You can call the number directly which you set. This
	feature is convenient for you to dial the number which you
	frequently dialed.
	Intercom: This feature allows the operator or the secretary to
	connect the phone quickly; it is widely used in office environments.
Line	It can be configured as a Line Key. User is able to make a call by
	pressing Line Key.
Key Event	User can select a key event as a shortcut to trigger.
	For example: MWI / DND / Release / Headset / Hold / etc.
DTMF	It allows user to dial or edit dial number easily.
URL	Open the specific URL directly.
Multicast	Configure the multicast address and audio codec. User presses
	the key to initiate the multicast.
Action URL	The user can use a specific URL to make basic calls to the phone.
XML browser	Users can set the DSS Key for specific URL download and other
	operations.

Table 30- function key

11.32 Function Key>> Side Key

The device has 8 Side Keys, and users can configure each side key on the web



page.

For Side Key ,please refer to 11.31 function key.

11.33 Function Key >> Softkey

The User Settings mode and display style, display page.

Table 31- Softkey configuration

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

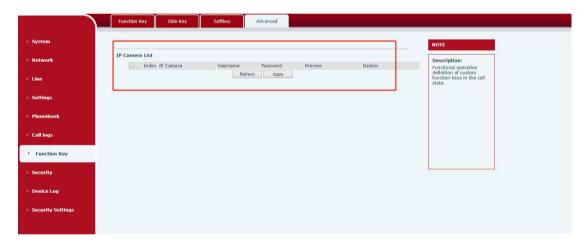


	Redial/Delete/Exit/2aB/Dial/Local Contacts/Transfer/
Transfer Dialer	CallLog/Clear/Missed/Dialed/Pause/Headset/Video/Audio/R
	emote XML/DSS Key
Trying	End/Release/Headset/DSS Key
	Hold/Transfer/Conference/End/Answer/Forward/Mute/Next
Waiting	call/New call/Prev call/Reject/Release/Headset/Listen/
	Video/Audio/DSS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

11.34 Function Key >> Advanced

■ IP Camera List

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

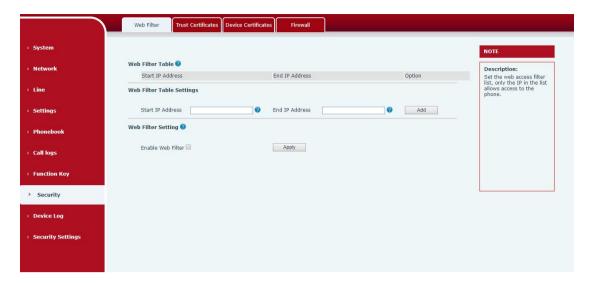


Picture 91- IP Camera List

11.35 Security >> Web Filter

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





Picture 92- Web Filter settings



Picture 93- Web Filter Table

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

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

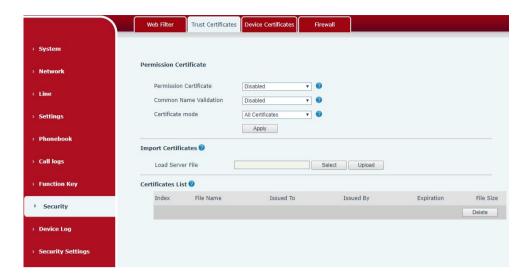
Note: if the device you are accessing is in the same network segment as the phone, please do not configure the filter segment of the web page to be outside your own network segment, otherwise you will not be able to log in the web page.

11.36 Security >> Trust Certificates

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

You can upload and delete uploaded certificates.



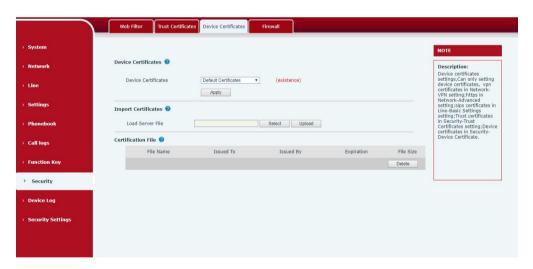


Picture 94- Certificate of settings

11.37 Security >> Device Certificates

Select the device certificate as the default and custom certificate.

You can upload and delete uploaded certificates.



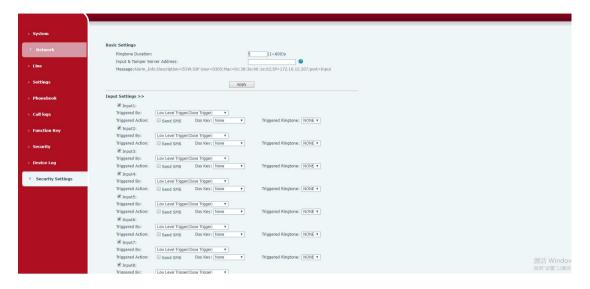
Picture 95 - Device certificate setting

11.38 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 11.6 <u>Get log information</u>.



11.39 Security Settings



Picture 96- Input and output settings

Security Settings			
parameter	description		
Basic Setting	s		
Ringtone	The duration of the alarm hell		
Duration	The duration of the alarm bell		
	Configure the remote response server address (including the remote		
Input &	response server address and the alarm trigger server address). When the		
Tamper	input port is triggered, a short message will be sent to the server, the		
Server	message format is as follows:		
Address	Alarm_Info:Description=i51;SIP		
	User=;Mac=0c:38:3e:39:6a:b6;IP=172.16.7.189;port=Input		
Input Settings	5		
Input	Enable or disable the input port		
	When low level trigger (closed trigger) is selected, the detection input port		
Triggered By	(low level) closed trigger.		
Triggered by	When the high level trigger (disconnect trigger) is selected, the detection		
	input port (high level) disconnect trigger.		
Send SMS	Enable or disable the input port to send messages to the server		
Uss Key When set to dsskey1 or dsskey2, trigger dsskey to make a call, the			
Dss Rey	none		
Triggered	Support ringtone selection		
Ringtone	Support migrone selection		

Table 32 - Input and output parameters



12 Trouble Shooting

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

12.1 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.

12.2 Reboot Device

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

12.3 Reset Device to Factory Default

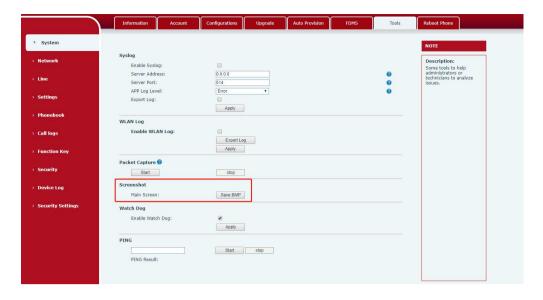
Reset Device to Factory Default will erase all user's configuration, preference, database and profiles on the device and restore the device back to the state as factory default.

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

12.4 Screenshot

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

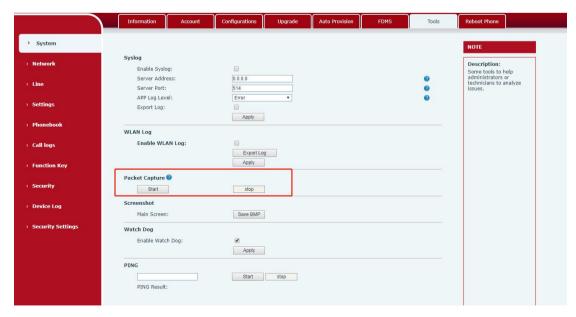




Picture 97- Input and output settings

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





Picture 98- Web capture

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

12.6 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 login 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.

12.7 Common Trouble Cases

Table 33 - Trouble Cases

Trouble Case	So	lution
Device could not boot up	1.	The device is powered by external power supply via power
		adapter or PoE switch. Please use standard power adapter
		provided by Fanvil or PoE switch met with the specification
		requirements and check if device is well connected to power
		source.
	2.	If you saw "POST MODE" on the device screen, the device
		system image has been damaged. Please contact location
		technical support to help you restore the phone system.
Device could not register to a	1.	Please check if device is well connected to the network. The
service provider		network Ethernet cable should be connected to the
		[Network] port NOT the [PC] port.
	2.	Please check if the device has an IP address. Check the system
		information, if the IP displays "Negotiating", the device does not
		have an IP address. Please check if the network configurations is
		correct.
	3.	If network connection is fine, please check again your line
		configurations. If all configurations are correct, please kindly



contact your service provider to get support, or follow the
instructions in "12.5 Network Packet Capture" to get the network
packet capture of registration process and send it to Fanvil
support to analyze the issue.