

•



Picture 72 - Set BroadSoft server

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



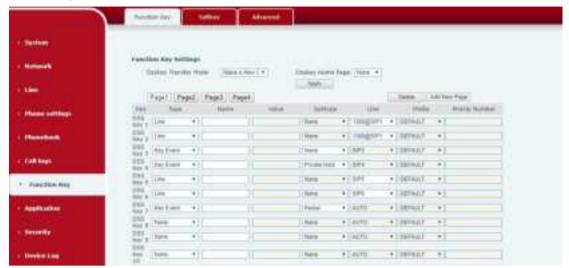
Picture 73 - Enable SCA

After an account is configured and successfully registered, you can configure DSS Keys as the lines which can enable Shared Call Appearanceas on the Function Key page to facilitate viewing the call status of the group. Each line key represents a call appearance. Understand the call status by referring to Appendix II 6.2.

To facilitate private hold, configure keys whose DSS Key is Private Hold on the Function Key page. Pay attention that the public hold key is the softkey [Hold] key



during a call.



Picture 74 - Set Private Hold Function Key

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

#### 2) LED Status

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

Table 10 - LED Status of SCA

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

#### 3) Shared Call Appearance(SCA)

The following lists a couple of instances to facilitate understanding.

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

Scenario 1: When this account receives an incoming call, the phone sets of both the



manager and the secretary will receive the call and ring. If the manager is busy, the manager can reject the call and the manager's phone set stops ringing but the secretary's phone set keeps ringing until the secretary rejects/answers the call or the call times out.

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

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

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

## 10.8 Message

### 10.8.1 MWI (Message Waiting Indicator)

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



Picture 75 - New Voice Message Notification



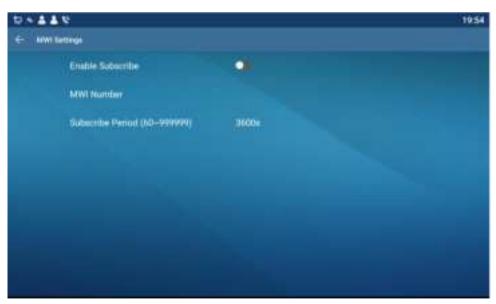
To listen to a voice message, the user must first configure the voicemail number. After the voicemail number is configured, the user can retrieve the voicemail of the default line.

When the phone is in the default standby state,

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



Picture 76 - Voice message interface



Picture 77 - Configure voicemail number

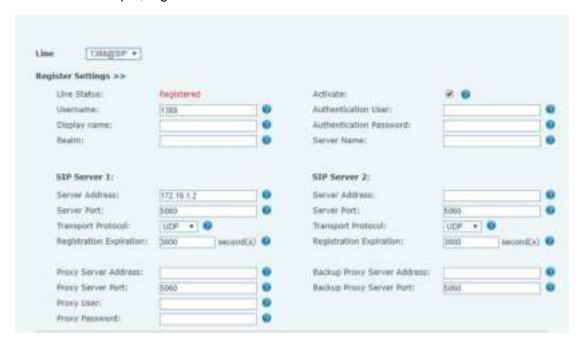


## 10.9 SIP Hotspot

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

Set a phone as a SIP hotspot and other phones (B and C) as SIP hotspot clients. When somebody calls phone A, 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 78 - Register SIP account

Table 11 - SIP hotspot Parameters

Parameters	Description
	If your phone is set to "SIP hotspot server", Device Table will display as Client
Device Table	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
Wiode	will be a "SIP hotspot Client"
	Either the Multicast or Broadcast is ok. If you want to limit the broadcast
Monitor Type	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.
Local port	Fill in the custom hotspot communication port. The server and client ports
Local port	need to be consistent
Fill in the name of the SIP hotspot, this configuration is used to dist	
Name	different hotspots under the network to avoid connection conflicts
Line cettings	Set whether to associate the SIP hotspot function on the corresponding SIP
Line settings	line

#### Configure SIP hotspot server:



Picture 79 - SIP hotspot server configuration

### Configure SIP hotspot client:

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



Picture 80 - SIP hotspot client configuration



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

#### Call extension number:

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



# 11 Phone Settings

## 11.1 Basic Settings

### 11.1.1 Language

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

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



Picture 81 - Phone language setting

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





Picture 82 - Language setting on Web page

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

### 11.1.2 Time & Date

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

Phone interface: When the phone is in the default standby state, press the
 [Settings] >> [Time & Date] to edit parameters, as shown in the figure:



Picture 83 - Set time & date on phone

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





Picture 84 - Set time & date on webpage

Table 12 - Time Settings Parameters

Parameters	Description	
Mode	Auto/Manual	
	Auto: Enable network time synchronization via SNTP protocol,	
	default enabled.	
	Manual: User can modify data manually.	
SNTP Server	SNTP server address	
Time zone	Select the time zone	
Time format	Select time format from one of the 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

### 11.1.3 **Screen**

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

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

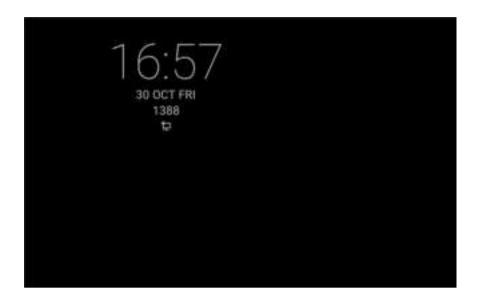


Picture 85 - Set screen parameters on phone

#### 11.1.3.1 Screen Saver

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





Picture 86 - Phone screen saver

### 11.1.4 Ring

When the device is in the default standby mode,

- Enter[ Settings] >> [Sound] >> [Tone] set promote tone
- The prompt tone contains Settings such as caller ring, notification ring, touch prompt tone, etc.

### 11.1.5 Voice Volume

When the device is in the default standby mode,

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

#### 11.1.6 **Reboot**

When the device is in the default standby mode,

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



### 11.2 Phone book

#### 11.2.1 Local contact

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

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

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



Picture 87 - Local Phone book

When there are contact records in the phone book, the contact records will be arranged in the alphabet order. User may browse the contacts with Swipe screen. The user can directly click the contact to call, or click the exclamation mark icon on the right to view the contact details.



#### 11.2.1.1 Add / Edit / Delete Contact

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

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



Picture 88 - Add New Contact

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

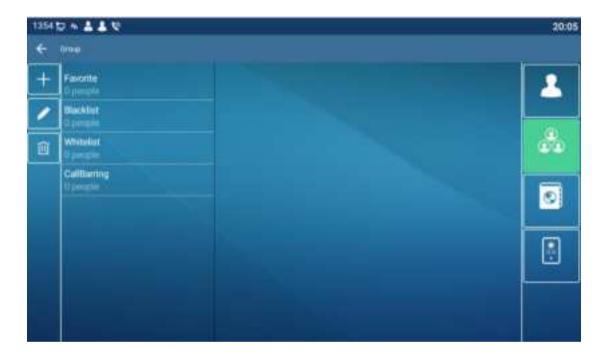
Delete contact: The user can enter the delete contact list by pressing the [Delete] icon, and click the select all button to select all the contacts that you want to delete, or the check box after the user selects a contact; then press the delete icon again You will be prompted to delete the selected contact.



### 11.2.1.2 Add / Edit / Delete Group

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

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



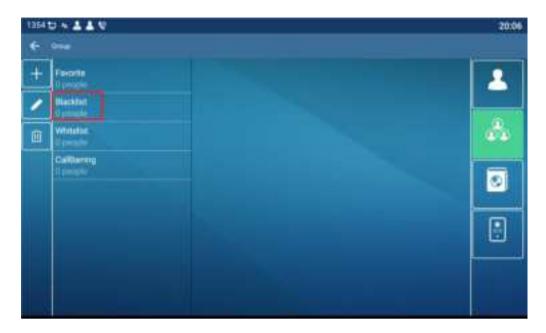
Picture 89 - Group List

#### 11.2.2 Black list

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

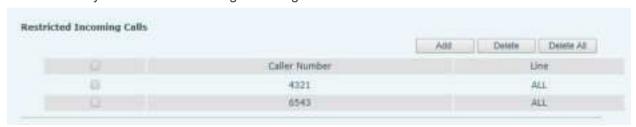
- There are multiple ways to add a number to Blacklist on the device. It can be added directly on [Contacts] icon >> [Group] icon>> [Blacklist].
- Select any number in the phone book (both local and network) for configuration addition.
- Select any number in the call log for configuration addition.





Picture 90 - Add Blacklist

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



Picture 91 - Web Blacklist

### 11.2.3 Cloud Phone Book

### 11.2.3.1 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[Contacts] icon>> [Network PhoneBook] 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.



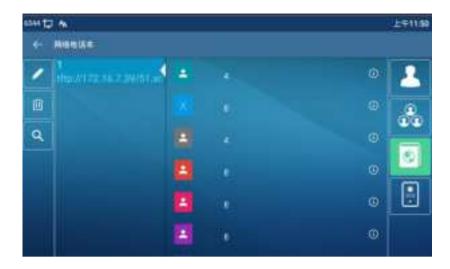
Picture 92 - Cloud phone book list

### 11.2.3.2 Downloading Cloud Phone book

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

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





Picture 93 - Browsing Contacts in Cloud Phone book

## 11.3 Call log

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

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

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

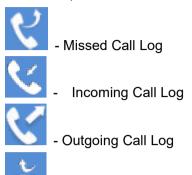
User can delete a call log by pressing [Delete] button.



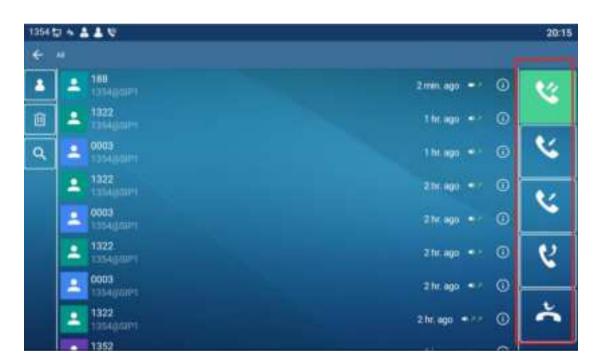


#### Picture 94 - Call Log

Users can also filter the call records of specific call types to narrow down the scope of search records, and select a call record type by press the type icon.



- Forward Call Log



Picture 95 - Filter call record types

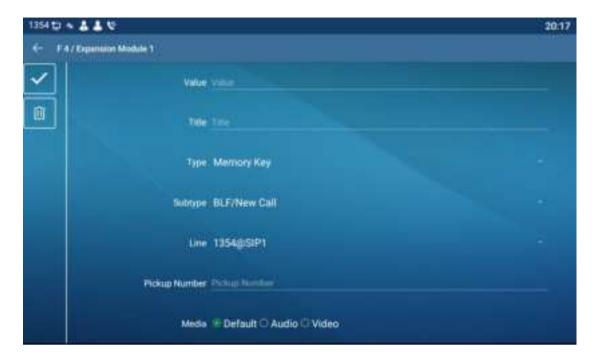
## 11.4 Function Key

#### Function key settings:

There are 5 shortcut keys displayed on the screen in standby mode, each of which can be customized by DSSkey.

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





Picture 96 - DSS LCD Screen Configuration

The DSS Key could be configured as followings,

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

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

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

More detailed information *refers to 12.23 Function Key* and <u>6.2 Appendix III -LED Definition</u>.



## 11.5 Wi-Fi

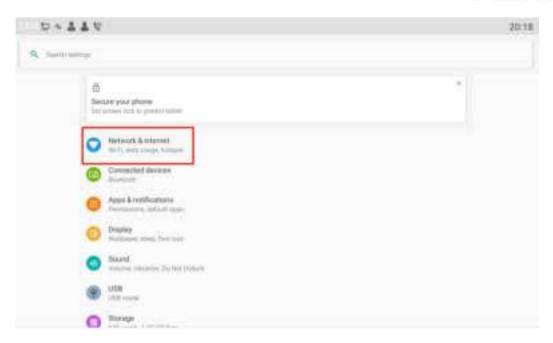
The device supports wireless Internet access and has built-in Wi-Fi without external devices.

When the device is in the default standby mode,

- Pull down the menu, long press the [WLAN] icon,Enter [Wi-Fi] item.
- Enable the Wi-Fi to search the current wireless network automatically.
- Select to the available network, enter the user name and password to connect successfully.









Picture 97 - WIFI settings

### 11.6 Headset

### 11.6.1 Bluetooth Headset

The device supports Bluetooth applications and can be compatible with Bluetooth headsets with CSR 4.0 chips. There is no need to use a USB Bluetooth adapter. The phone has a built-in Bluetooth and Bluetooth antenna.

The phone is in the default standby state,

Long press the function menu button [Bluetooth], click the switch to turn on Bluetooth,



and it will automatically search for available devices.

Select the device to pair and connect.



Picture 98 - Bluetooth Settings Screen

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

#### call answering

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

- Hang up
- 1) When talking with Bluetooth headset, you can hang up the phone by pressing the button on Bluetooth headset.
- 2) When there is an incoming call, double-click the answer button to reject the call.
- 3) When the caller is in the ringing state, press the answer button of the headset to cancel the call.
- Bluetooth redial

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

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



### 11.7 Advanced

## 11.7.1 Line Configurations

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



Picture 99 - SIP address and account information

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





### Picture 100 - Configure Advanced Line Options

## 11.7.2 Network Settings

### 11.7.2.1 Network Settings

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

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



Picture 101 - 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 102 - 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.

#### 11.7.2.2 QoS & VLAN

Access [ Settings]>>[Advanced]>> [Network]>> [ Advance]

#### ■ LLDP

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

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

#### CDP

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



IP address, hardware version and so on.

Table 13 - QoS & VLAN

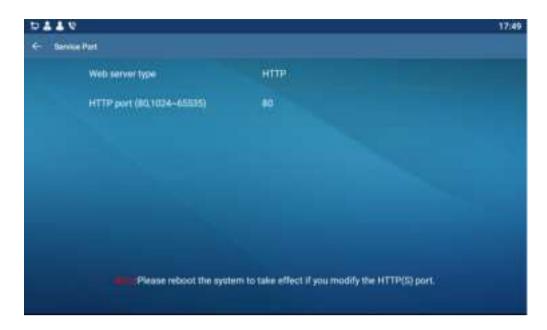
Parameters	Description	
LLDP setting		
Report	Enable LLDP	
Interval	LLDP requests interval time	
Learning	apply the learned VLAN ID to the phone	
	configuration	
QoS		
QoS Mode	configure SIP DSCP and audio DSCP	
WAN VLAN		
WAN VLAN	WAN port VLAN configuration	
LAN VLAN		
LAN VLAN	LAN port VLAN configuration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

### 11.7.2.3 Web Server Type

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

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



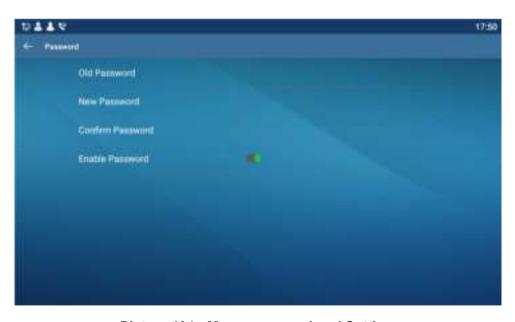


Picture 103 - The phone configures the web server type

## 11.7.3 Set The Secret Key

When the device is in the default standby mode,

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



Picture 104 - Menu password and Settings



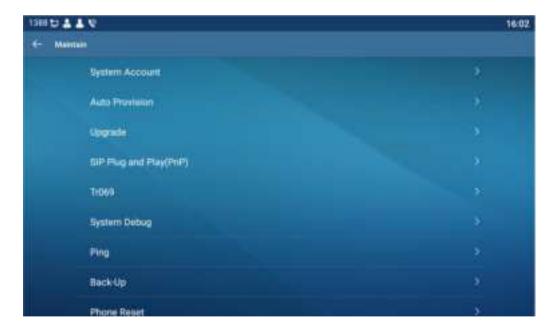
### 11.7.4 Maintenance

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



Picture 105 - Page auto provision Settings

LCD: Enter [ Settings] >> [Advanced] >> [Maintain] >> [Auto Provision].



Picture 106 - Phone auto provision settings

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

#### PNP>DHCP>TR069> Static Provisioning

Transferring protocol: FTP、 TFTP、 HTTP、 HTTPS

Details refer to Fanvil Auto Provision in



http://www.fanvil.com/Uploads/Temp/download/20180920/5ba3816f8d5f0.pdfhttps://wwww.fanvil.com.cn/Support/download/cid/14.html

### Table 14 - 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
Lilable 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 Ontion Value	Custom Option value is allowed from 128 to 254. The option
Custom Option Value	value must be same as server define.
Enable DHCP Option 120	Use Option120 to get the SIP server address from DHCP
	server.
SIP Plug and Play (PnP)	
Enable SIP PnP	Whether enable PnP or not. If PnP is enable, phone will send
	a SIP SUBSCRIBE message with broadcast method. Any
	server can support the feature will respond and send a Notify
	with URL to phone. Phone could get the configuration file with



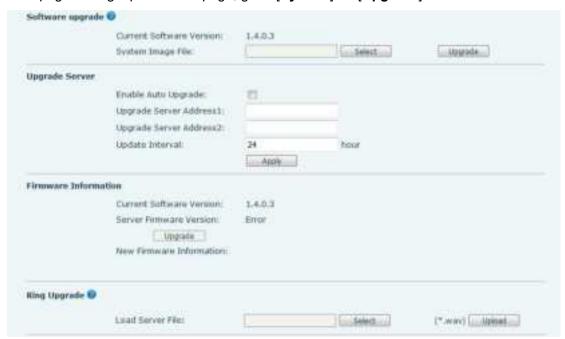
	the URL.
Server Address	Broadcast address. As default, it is 224.0.0.0.
Server Port	PnP port
Transport Protocol	PnP protocol, TCP or UDP.
Update Interval	PnP message interval.
Static Provisioning Serve	r
Server Address	Provisioning server address. Support both IP address and domain address.
	The configuration 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.
Drotocol Type	Transferring protocol type ,supports FTP、TFTP、HTTP and
Protocol Type	HTTPS
	Configuration file update interval time. As default it is 1, means
Update Interval	phone will check the update every 1 hour.
	Provision Mode.
Update Mode	1. Disabled.
Opuate 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

Table 15 - Auto Provision



## 11.7.5 Firmware Upgrade

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



Picture 107 - Web page firmware upgrade

• LCD interface: go to [ **Settings**] >> [Advanced] >> [Maintain] >> [**Upgrade**] .



Picture 108 - Firmware upgrade information display

Table 16 - Firmware upgrade

Parameter	Description	
Upgrade server		
Enable Auto Upgrade	Enable automatic upgrade, If there is a new version txt	
	and new software firmware on the server, phone will	



	show a prompt upgrade message after Update Interval.	
Upgrade Server Address1	Set available upgrade server address.	
Upgrade Server 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.

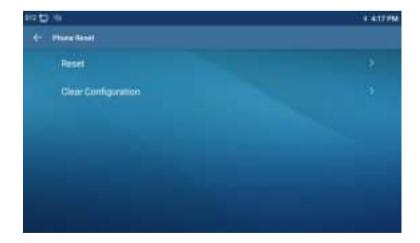


Picture 109 - Firmware upgrade

## 11.7.6 Factory Reset

The phone is in default standby mode.

- Press [Settings] to find [Advanced]>> [Maintain]>> [ Phone Reset].
- Press [reset] to clear all. When you select clear configuration file and clear all, the phone will restart automatically after clearing.



Picture 110 - Reset to default



## **12 Web Configurations**

## 12.1 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.

## 12.2 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 )

## 12.3 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.

## 12.4 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.

## 12.5 System >> Upgrade

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

## 12.6 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

## 12.7 System >> Tools

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

## 12.8 System >> Reboot Phone

This page can restart the phone.







# 13 Network >> Basic

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

## 13.1 Network >> Service Port

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



Picture 111 - Service Port Settings

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.

Table 17 - Service port



# 13.2 Network >> Advanced

Advanced network Settings are typically configured by the IT administrator to improve the quality of the phone service. For configuration, query the <u>10.7 advanced</u> Settings.

## 13.3 Line >> SIP

Configure the Line service configuration on this page.

Table 18 - 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
Call Forward Number for No Answer	to the number specified in the next field.  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 I Olward Delay for No Allswel	being forwarded.
Transfer Timeout	Set the timeout of call transfer process.
Conference Type	Set the type of call conference, Local=set up call
	conference by the device itself, maximum
	supports two remote parties, Server=set up call
	conference by dialing to a conference room on
	the server



Server Conference Number	Set the conference room number when conference type is set to be Server
Subscribe For Voice Message	Enable the device to subscribe a voice message
- massime v av avas interesig	waiting notification, if enabled, the device will
	receive notification from the server if there is
	voice message waiting on the server
Voice Massage Number	
Voice Message Number	Set the number for retrieving voice message
Voice Message Subscribe Period	Set the interval of voice message notification
	subscription
Enable Hotline	Enable hotline configuration, the device will dial
	to the specific number immediately at audio
	channel opened by off-hook handset or turn on
	hands-free speaker or headphone
Hotline Delay	Set the delay for hotline before the system
	automatically dialed it
Hotline Number	Set the hotline dialing number
Dial Without Registered	Set call out by proxy without registration
Enable Missed Call Log	If enabled, the phone will save missed calls into
	the call history record.
DTMF Type	Set the DTMF type to be used for the line
DTMF SIP INFO Mode	Set the SIP INFO mode to send '*' and '#' or '10'
	and '11'
Enable DND	Enable Do-not-disturb, any incoming call to this
	line will be rejected automatically
Subscribe For Voice Message	Enable the device to subscribe a voice message
-	waiting notification, if enabled, the device will
	receive notification from the server if there is
	voice message waiting on the server
Use VPN	Set the line to use VPN restrict route
Use STUN	Set the line to use STUN for NAT traversal
Enable Failback	Whether to switch to the primary server when it
Lindson allowed	is available.
Failback Interval	A Register message is used to periodically
	detect the time interval for the availability of the
	main Proxy.
Signal Egilbaak	•
Signal Failback	Multiple proxy cases, whether to allow the
2: 12.1 0 :	invite/register request to also execute failback.
Signal Retry Counts	The number of attempts that the SIP Request



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



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



	%hh hex code
Use Quote in Display Name	Whether to add quote in display name, i.e.
	"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
	enabled, you can see that in the INVITE
	package, SDP is inactive.
Caller ID Header	Set the Caller ID Header
Use 182 Response for Call waiting	Set the device to use 182 response code at call
	waiting response
Enable Feature Sync	Feature Sync with server
Enable SCA	Enable/Disable SCA (Shared Call Appearance )
CallPark Number	Set the CallPark number.
Server Expire	Set the timeout to use the server.
TLS Version	Choose TLS Version.
uaCSTA Number	Set uaCSTA Number.
Enable Click To Talk	With the use of special server, click to call out
	directly after enabling.
Enable Chgport	Whether port updates are enabled.
VQ Name	Open the VQ name for VQ RTCP-XR.
VQ Server	Open VQ server address for VQ RTCP-XR.
VQ Port	Open VQ port for VQ RTCP-XR.
VQ HTTP/HTTPS Server	Enable VQ server selection for VQ RTCP-XR.
Flash mode	Chose Flash mode, normal or SIP info.
Flash Info Content-Type	Set the SIP info content type.
Flash Info Content-Body	Set the SIP info content body.
PickUp Number	Set the scramble number when the Pickup is
	enabled.
JoinCall Number	Set JoinCall Number.
Intercom Number	Set Intercom Number.
Unregister On Boot	Whether to enable logout function.
Enable MAC Header	Whether to open the registration of SIP package
	with user agent with MAC or not.
Enable Register MAC Header	Whether to open the registration is user agent
	with MAC or not.



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

# 13.4 Line >> SIP Hotspot

Please refer to 9.9 SIP Hotspot.

## 13.5 Line >> Dial Plan



Picture 112 - Dial plan settings

Table 19 - 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 113 - Custom setting of dial - up rules

Table 20 - 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.



example, if this is set to 3, the phone will delete the first 3 digits of the phone number. It is an

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. Set the number of characters to be deleted. For

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.

optional item.

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 114 - 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.

Length





Picture 115 - 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.

#### 13.6 Line >> Action Plan

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

Table 21 - IP camera

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

# 13.7 Line >> Basic Settings

Set up the register global configuration.

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



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

# 13.8 Phone settings >> Features

Configuration phone features.

Table 23 - General function Settings

Parameters	Description
Basic Settings	
Enable Call Waiting	Enable this setting to allow user to take second
	incoming call during an established call. Default
	enabled.
Enable Call Transfer	Enable Call Transfer.
Semi-Attended Transfer	Enable Semi-Attended Transfer by selecting it
Enable 3-Way Conference	Enable 3-way conference by selecting it
Enable Auto Onhook	The phone will hang up and return to the idle
	automatically at hands-free mode
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
Enable Sherit Mode	When enabled, the phone is muted, there is no
	ringing when calls, you can use the volume keys
Disable Mute for Ding	and mute key to unmute.
Disable Mute for Ring	When it is enabled, you can't mute the phone
Enable Default Line	If enabled, user can assign default SIP line for
	dialing out rather than SIP1.
Enable Auto Switch Line	Enable phone to select an available SIP line as
	default automatically
Default Ext Line	Select the default line to use for outgoing calls
Ban Outgoing	If you select Ban Outgoing to enable it, and you
	cannot dial out any number.
Hide DTMF	Configure the hide DTMF mode.
Enable CallLog	Select whether to save the call log.
Enable Restricted Incoming List	Whether to enable restricted call list.
Enable Allowed Incoming List	Whether to enable the allowed call list.
Enable Restricted Outgoing List	Whether to enable the restricted allocation list.
Enable Country Code	Whether the country code is enabled.
Country Code	Fill in the country code.
Area Code	Fill in the area code.
Enable Number Privacy	Whether to enable number privacy.
Match Direction	Matching direction, there are two kinds of rules
	from right to left and from left to right.
Start Position	Open number privacy after the start of the
	hidden location.
Llide Digite	Turn on number privacy to hide the number of
Hide 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
t .	



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.
	If enabled, up to 10 simultaneous calls can exist
Enable Multi Line	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.
	When enabled, the phone displays the
SIP notify	information when it receives the relevant notify
	content.
Tone Settings	
Enable Holding Tone	When turned on, a tone plays when the call is
	held
Enable Call Waiting Tone	When turned on, a tone plays when call waiting
Play Dialing DTMF Tone	Play DTMF tone on the device when user
	pressed a phone digits at dialing, default
	enabled.
Play Talking DTMF Tone	Play DTMF tone on the device when user
	pressed a phone digits during taking, default
	enabled.
DND Settings	
DND Option	Select to take effect on the line or on the phone
	or close.
Enable DND Timer	Enable DND Timer, If enabled, the DND is
	automatically turned on from the start time to the
	off time.
DND Start Time	Set DND Start Time
DND End Time	Set DND End Time
Intercom Settings	
Enable Intercom	When intercom is enabled, the device will accept



	the incoming call request with a SIP header of
	Alert-Info instruction to automatically answer the
	call after specific delay.
Enable Intercom Mute	
	Enable mute mode during the intercom call
Enable Intercom Tone	If the incoming call is intercom call, the phone
	plays the intercom tone
Enable Intercom Barge	Enable Intercom Barge by selecting it, the phone
	auto answers the intercom call during a call. If
	the current call is intercom call, the phone will
	reject the second intercom call
Response Code Settings	
DND Response Code	Set the SIP response code on call rejection on
	DND
Busy Response Code	Set the SIP response code on line busy
Reject Response Code	Set the SIP response code on call rejection
Password Dial Settings	
Enable Password Dial	Enable Password Dial by selecting it, When
	number entered is beginning with the password
	prefix, the following N numbers after the
	password prefix will be hidden as *, N stands for
	the value which you enter in the Password
	Length field. For example: you set the password
	prefix is 3, enter the Password Length is 2, then
	you enter the number 34567, it will display 3**67
	on the phone.
Encryption Number Length	Configure the Encryption Number length
Password Dial Prefix	Configure the prefix of the password call
	number
Power LED	1.5
	Standby power lamp state, off when off, open is
Common	always bright red. Off by default.
	The status of power lamp when there is unread
SMS/MWI	short message/voice message, including
CiviC/NivVi	off/on/slow flash/quick flash, default slow flash.
	·
Missad	The state of the power lamp when there is a
Missed	missed call, including off/on/slow flash/quick
T II (D)	flash, the default slow flash.
Talk/Dial	In the talk/dial state, the power lamp state, off is



	off, on is always red bright, the default is off.
Ringing	Power lamp status when there is an incoming
	call, including off/on/slow flash/quick flash,
	default flash.
Mute	Power lamp status in mute mode, including
Witte	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 Wissed Call 1 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.
	When the handle is not hung back after opening,
Display Other Popup	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.

# 13.9 Phone settings >> Media Settings

Change voice Settings.

Table 24 - 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,



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) and opus-wb (16KHz).  ILBC Payload Type  Set the ILBC Payload Type, the value must be 96~127.  ILBC Payload Length  Onhook Time  Configure a minimum response time, which defaults to 200ms  Enable the patting 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		ILBC,opus
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RTP Control Protocol(RTCP) Settings  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.	H.264Payload Type	Set the H264 Payload Type, the value must be 96~127.
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.	Display splicing frame	Whether to start displaying splicing frames
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Alert Info Ring Settings  Value Set the value to specify the ring type.	RTP Settings	
Value Set the value to specify the ring type.	RTP keep alive	Hold the call and send the packet after 30s
1 7 3 3	Alert Info Ring Settings	
Ring Type Type9		Set the value to specify the ring type.
	Ring Type	Type1-Type9



# 13.10 Phone settings >> MCAST

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

Table 25 - Multicast parameters

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

# 13.11 Phone settings >> Action

#### **Action URL**

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

# 13.12 Phone settings >> Time/Date

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

Table 26 - Time & Date settings

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



try time time Zone Sel desync Period Tim 2-Hour Clock Set date Format Sel daylight Saving Time Settings ocal Cho time ST Set Type Cho set date Dis offset The	to connect to secondary time server to get e synchronization.  ect the time zone the of re-synchronization with time server the time display in 12-hour mode ect the time/date display format
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Dis Offset The	ylight saving time rules are based on specific
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	play in read-only mode in automatic mode.
	e offset minutes when DST started
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Veek Start The	e DST start week
Veekday Start The	e DST start weekday
our Start The	e DST start hour
linute Start The	DST start minute
Ionth End The	e DST end month
Veek End The	e DST end week
Veekday End The	e DST end weekday
our End The	e DST end hour
linute End The	
Ianual Time Settings You	e DST end minute

# 13.13 Phone settings >> Tone

This page allows users to configure a phone prompt.

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





Picture 116 - Tone settings on the web

# 13.14 Phone settings >> Advanced

User can configure the advanced configuration settings in this page.

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

The password is admin by default.

- Keyboard Lock Settings.
- Configure Greeting Words

The greeting message will display on the top left corner of the LCD when the device is idle, which is limited to 16 characters. The default chars are 'VOIP PHONE'.

#### 13.15 Phonebook >> Contact

User can add, delete, or edit contacts in the phonebook in this page. User can browse the phonebook and sorting it by name, phones, or filter them out by group.

To add a new contact, user should enter contact's information and press "Add" button to add it.

To edit a contact, click on the checkbox in front of the contact, the contact information will be copied to the contact edit boxes, press "Modify" button after finished editing.



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

User can also add multiple contacts into a group by selecting the group in the dropdown options in front of "Add to Group" button at the bottom of the contact list, selecting contacts with checkbox and click "Add to Group" to add selected contacts into the group. Similarly, user can select multiple users and add them into blacklist by click "Add to Blacklist" button.

# 13.16 Phonebook >> Cloud phonebook

#### **Cloud Phonebook**

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

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

Phonebook name (must)

Phonebook URL (must)

Access username (optional)

Access password (optional)

#### **LDAP Settings**

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

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

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

Display Title (must)

LDAP Server Address (must)

LDAP Server Port (must)

Search Base (must)

Access username (optional)

Access password (optional)

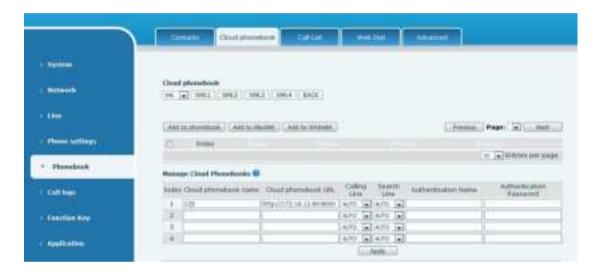


# Note! Refer to the LDAP technical documentation before creating the LDAP phonebook and phonebook server.

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 117 - Web cloud phone book Settings

## 13.17 Phonebook >> Call List

#### ■ Restricted Incoming Calls:

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

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

#### Allowed Incoming Calls:

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

#### ■ Restricted Outgoing Calls:

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



#### 13.18 Phonebook >> Web Dial

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

#### 13.19 Phonebook >> Advanced

Users can export the local phone book in XML, CSV, and VCF format and save it on the local computer.

Users can also import contacts into the phone book in XML, CSV, and VCF formats.

Attention! If the user imports the same phone book repeatedly, the same contact will be ignored. If the name is the same but the number is different, the contact is created again.

Users can delete groups or add new groups on this page. Deleting a contact group will not delete contacts in that group.

#### 13.20 Call Logs

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

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

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

# 13.21 Function Key >> Function Key

#### Function Key Configuration:

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



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

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

Table 27 - Function Key configuration

Parameters	Description
Memory Key	BLF (NEW CALL/BXFE /AXFER): It is used to prompt user the
	state of the subscribe extension, and it can also pick up the
	subscribed number, which help user monitor the state of subscribe
	extension (idle, ringing, a call). There are 3 types for one-touch
	BLF transfer method.
	p.s. User should enter the pick-up number for specific BLF key to
	fulfill the pick-up operation.
	Presence: Compared to BLF, the Presence is also able to view
	whether the user is online.
	Note: You cannot subscribe the same number for BLF and
	Presence at the same time
	Speed Dial: You can call the number directly which you set. This
	feature is convenient for you to dial the number which you
	frequently dialed.
	Intercom: This feature allows the operator or the secretary to
	connect the phone quickly; it is widely used in office environments.
Line	It can be configured as a Line Key. User is able to make a call by
	pressing Line Key.
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.

# 13.22 Function Key >> Softkey

The User Settings mode and display style, display page.



## Table 28 - Softkey configuration

Parameter	Description			
Softkey Mode				
Softkey mode	Disabled and More,Default is Disabled			
Softkey Style				
Softkey display style	Softkey Exit on Left or Right			
Screen				
	Redial/2aB/Delete/Exit/Call Back/Dial/Join/MWI/Local			
Call Dialer	Contacts/Pickup/CallLog/Missed/Clear/In/Dialed/Pause/Next			
	line/Prev line/Headset/Audio/Video/Remote XML/DSS Key			
Conference	Hold/Split/End/Release/Mute/DSS Key/Headset			
	CallLog/Menu/Local Contacts/DND/Prev Account/Next			
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/			
Fredictive Dialet	Headset/Video/Audio/Remote XML/DSS Key/In/Next line			
	/Prev line			
Ringing	Answer/Forward/Reject/Mute/Release/Headset/Video/Audio/			
Talliging	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			



# 13.23 Function Key >> Advanced

#### ■ Global key Settings

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

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

#### ■ Programmable key Settings

Please refer to the Table 28 Softkey configuration

#### ■ IP Camera List



Picture 118 -IP Camera List

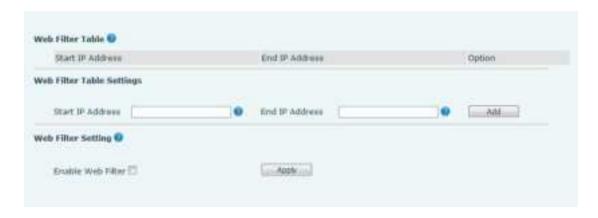
# 13.24 Application >> Manage Recording

See <u>9.3 Record</u> for details of recording.

# 13.25 Security >> Web Filter

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





Picture 119 - Web Filter settings



Picture 120 - 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.

# 13.26 Security >> Trust Certificates

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

You can upload and delete uploaded certificates.





Picture 121 - Certificate of settings

# 13.27 Security >> Device Certificates

Select the device certificate as the default and custom certificate.

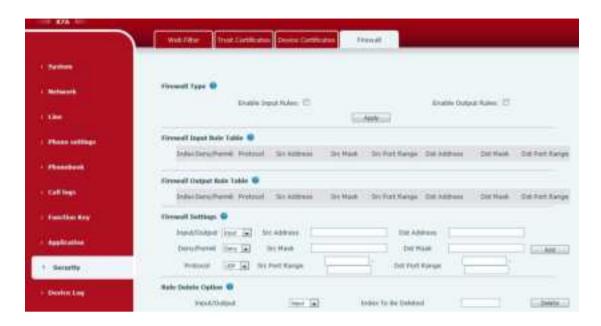
You can upload and delete uploaded certificates.



Picture 122 - Device certificate setting

# 13.28 Security >> Firewall





Picture 123 - Network firewall Settings

Through this page can set whether to enable the input, output firewall, at the same time can set the firewall input and output rules, using these Settings can prevent some malicious network access, or restrict internal users access to some resources of the external network, improve security.

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

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

Table 29 - Network Firewall

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



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

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



Picture 124 - Firewall Input rule table

Then select and click the button [Apply].

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



Picture 125 - Delete firewall rules

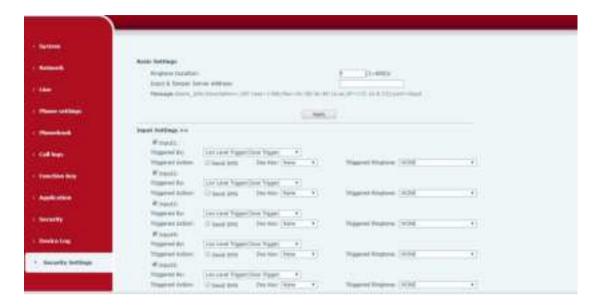
Select the list you want to delete and click [Delete] to delete the selected list.

# 13.29 Device Log >> Device Log

You can grab the device log, and when you encounter an abnormal problem, you can send the log to the technician to locate the problem. See <u>13.6 Get log information</u>.



# 13.30 Security settings



Picture 126 -Input and output settings

Security settings				
parameter	description			
basic settings				
Ringtone	Alarm bell duration			
Duration				
	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 port settings				
Input port	Enable or disable the input port			
	When low level trigger (closed trigger) is selected, the detection input port			
Trigger mode	(low level) closed trigger.			
	When the high level trigger (disconnect trigger) is selected, the detection			
	input port (high level) disconnect trigger.			
Send short	Enable or disable the input port to send messages to the server			
message	Enable or disable the input port to send messages to the server			
Dss Key	When set to dsskey1 or dsskey2, trigger dsskey to make a call, the default is			
	none			
Triggered	Support ringtone selection			



Ringtone
----------

Table 30 -Input and Output Parameters



# 14 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.

# 14.1 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.

#### 14.2 Reboot Device

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

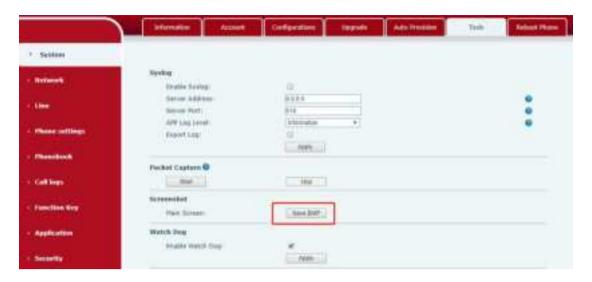
# 14.3 Reset Device to Factory Default

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 [setting]>>[Advanced]>> [maintain]. Then choose [Phone Reset] and press [Reset]. The device will be rebooted into a clean factory default state.

#### 14.4 Screenshot

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





Picture 127 - Screenshot

## 14.5 Network Packets Capture

Sometimes it is helpful to dump the network packets of the device for issue identification. To get the packets dump of the device, user needs to log in the device web portal, open page [System] >> [Tools] and click [Start] in "Network Packets Capture" section. A pop-up message will be prompt to ask user to save the capture file. User then should perform relevant operations such as activate/deactivate line or making phone calls and click [Stop] button in the web page when operation finished. The network packets of the device during the period have been dumped to the saved file.



Picture 128 - Web capture

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



# 14.6 Get Log Information

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

Or use a thumb drive to export debugging log, find a thumb drive to place a text document named fv-ipphone-dump-trace.txt,



Plug in the USB port and wait for about 3 minutes. The usb flash drive automatically generates log files.



#### 14.7 Common Trouble Cases

Table 31 - 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. If the cable is not well
		connected to the network icon [WAN disconnected] will be
		flashing in the middle of the screen.
	2.	Please check if the device has an IP address. Check the system



	information, if the IP displays "Negotiating", the device does not
	have an IP address. Please check if the network configurations is
	correct.
	3. If network connection is fine, please check again your line
	configurations. If all configurations are correct, please kindly
	contact your service provider to get support, or follow the
	instructions in "13.5 Network Packet Capture" to get the network
	packet capture of registration process and send it to Fanvil
	support to analyze the issue.
Audio is chopping at far-end	This is usually due to loud volume feedback from speaker to
in Hands-free speaker mode	microphone. Please lower down the speaker volume a little bit, the
	chopping will be gone.