# **H**blue









# **Revision History**

| Date       | Rev.   | Changes                                 | Author       |
|------------|--------|---|--------------|
|            | Number |   |              |
| 11/15/2023 | 1.1    | Added Wi-Fi password input with Special | Nick Lagioia |
|            |        | Characters                              |              |
| 10/15/2023 | 1.0    | Manual Released                         | Nick Lagioia |



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# 3 Safety Instruction

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

- Please use the external power supply that is included in the package. Other power supplies 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 the power cord or plug is impaired, do not use it because it may cause fire or electric shock.
- Do not drop, knock, or shake the phone. Rough handling can break internal circuit boards.
- This phone is designed for indoor use. Do not install the device in places where there is direct sunlight. Also do not put the device on carpets or cushions. It may cause fire or breakdown.
- Avoid exposure the phone to high temperature or below 0°C or high humidity.
- Avoid wetting the unit with any liquid.
- Do not attempt to open it. Non-expert handling of the device could damage it. Consult your authorized dealer for help, or else it may cause fire, electric shock, and breakdown.
- Do not use harsh chemicals, cleaning solvents, or strong detergents to clean it. Wipe it with a soft cloth that has been slightly dampened in a mild soap and water solution.
- When lightning, do not touch power plug, it may cause an electric shock.
- Do not install this phone in an ill-ventilated place. You are in a situation that could cause bodily injury.
   Before you work on any equipment, be aware of the hazards involved with electrical circuitry and be familiar with standard practices for preventing accidents.



## 4 Overview

### 4.1 Overview

XBLUE IP9g and IP11g Speakerphones are high-end VOIP devices that utilize multiple color displays to make use easy and efficient. The upper display is the "Call Display" and shows the user all information about the call in-progress while the lower display(s) are the "User Display" and allows the user to interact with XBLUE server features to process calls seamlessly.

XBLUE IP9g and IP11g speakerphones are the latest generation of IP phone and come equipped with highdefinition voice support (G.722), interface and functions for headphones and high-performance echo cancellation. The speakerphone is full duplex for the best possible speakerphone connections. These models support gigabit Ethernet, QoS, encryption transmission, and automatic configuration.

For business users, the XBLUE IP9g and IP11g phones make use easy and customizable. Users can flexibly configure and define the functions of programmable keys, helping them to customize the phone for their own needs. XBLUE servers and IP Phones are configured to optimize the performance of each device for your business.

This manual can be used as a reference guide for the proper use of the XBLUE IP9g & IP11g telephones. Check the XBLUE website under Support for updates of this document.

### **4.2 Hardware Description**

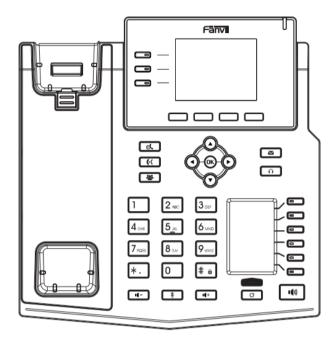
Hardware info of XBLUE series Phone:

| Hardware   | IP9G         | IP11G             |
|------------|--------------|-------------------|
| Screen     | Color-Screen | Color-Screen      |
| Sub-Screen | Yes (6 keys) | Yes – 2 (12 keys) |
| Side key   | Yes          | Yes               |
| USB        | Yes          | Yes               |
| DSSKEY LED | Yes          | Yes               |

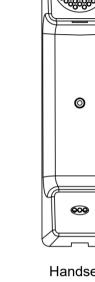
#### Table 1 - Hardware Datasheet

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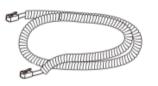
## **4.3 Packing Contents**



Phone



Handset

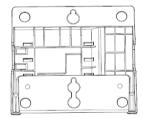


Receiver cable

Stand



Power adapter



Wall mounting kit (Purchased Separately)



Network cable



# **5 Desktop Installation**

### 5.1 PoE and the use of external power adapters

The devices support two power supply modes from external power adapter or over Ethernet (PoE) complied switch.

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.

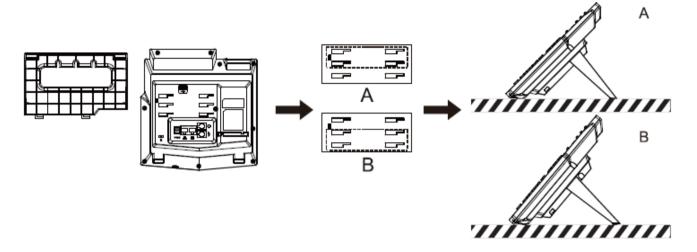
For users who do not have PoE equipment, the traditional power adaptor should be used. If the device is connected to a PoE switch and power adapter at the same time, the power adapter will be used in priority and will switch to PoE power supply once it fails.

Please use the power adapter supplied by XBLUE and the PoE switch meets the specifications to ensure the device works properly.



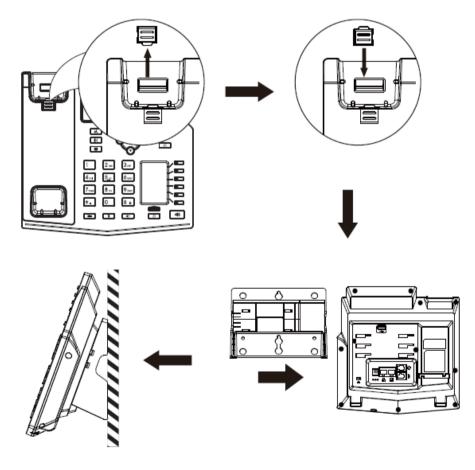
## 5.2 Desktop and wall mounted method

The device supports two installation modes, desktop and wall mounted. If the phone is on the desktop, please follow the instructions in the picture below to install the phone.



Picture 1 - Device installation

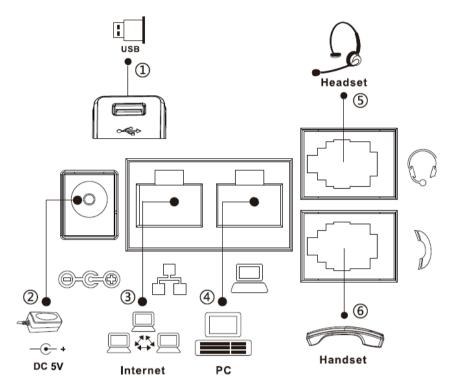
If the phone is mounted on the wall, please follow the instructions below to install it.



Picture 2 - Wall-mounted installation



Connect the power adapter, network, PC, phone, and earphone to the appropriate port as shown in the picture below.



Picture 3 - Connecting to the Device

| Index | Interface     | Description                               |
|-------|---------------|---|
| 1     | USB Port      | Connecting USB Disk and USB WIFI Adapter  |
| 2     | Power Port    | Connecting Power Adapter                  |
| 3     | Network Port  | Connecting to LAN or Internet             |
| 4     | PC Port       | Network Interface for Connecting Computer |
| 5     | Headset Port  | Connecting Headset                        |
| 6     | Receiver Port | Connecting Microphone Receiver            |

Table 2 - Hardware Interface Description



# 6 Appendix Table

# 6.1 Appendix I - Icon

| lcon          | Description                   | Model      |
|---------------|-------------------------------|------------|
| U             | Redial                        | IP9g/IP11g |
| m             | Phone Book                    | IP11g      |
| <b>I(</b> 3)) | Hands-free (HF) speaker       | IP9g/IP11g |
| Æ             | Mute Microphone (During Call) | IP9g/IP11g |
| - <b>I</b> I  | Volume down                   | IP9g/IP11g |
| 4+            | Volume up                     | IP9g/IP11g |
| ¢             | Hold                          | IP9g/IP11g |
| 0             | Headset                       | IP9g/IP11g |
| Ŋ             | MWI                           | IP9g/IP11g |
| 쏭             | Conference                    | IP9g/IP11g |
| <b>(</b> -(   | Transfer                      | IP9g/IP11g |
| ↓†            | Call log                      | IP11g      |
| _             | Next Page Key                 | IP9g/IP11g |

### Table 3 - Keypad Icons

| Screen Icon | Description          |  |
|-------------|----------------------|--|
| >>>>        | Call out             |  |
| ((🛜))       | Call in              |  |
|             | Call Hold            |  |
| <b>"</b> ⊉" | Network Disconnected |  |
| 120         | Open VLAN            |  |
| μ <u>μ</u>  | Open VPN             |  |
| 20          | Keypad Locked        |  |
| (+          | Call forward calls   |  |



| マ              | Outgoing calls                      |  |  |
|----------------|-------------------------------------|--|--|
| と              | Incoming calls                      |  |  |
| <b>۲</b>       | Missed calls                        |  |  |
|                | SMS                                 |  |  |
| 9              | New voice message waiting           |  |  |
| 0              | Do-Not-Disturb inactivated on Phone |  |  |
| C-             | Call forward activated              |  |  |
| P <sub>A</sub> | Auto-answering activated            |  |  |
| <b>F</b>       | Hands-free (HF) Mode                |  |  |
| ¢              | Headphone (HP) Mode                 |  |  |
| 2              | Handset (HS) Mode                   |  |  |
| Ņ              | Mute Microphone                     |  |  |
| 0              | The Voice quality of calling        |  |  |
| Ô              | The Voice encryption of calling     |  |  |
| HD             | Speech High Definition              |  |  |
| ۲              | Record                              |  |  |
| (ŋ)            | SIP Hotspot                         |  |  |
| *              | Bluetooth                           |  |  |
| ((**           | Wi-Fi                               |  |  |



| - | USB Insert   |
|---|--------------|
| - | USB overload |

#### Table 5 - DSSKEY Icon

| DSSKEY Icon | Side key Icon  | Description    |
|-------------|----------------|----------------|
| G           | હ              | BLF/New call   |
| থ           | र              | BLF/XFER       |
| Ś           | e <sup>r</sup> | BLF/AXFER      |
| Ē           | <i>i</i>       | BLF/Conference |
|             | ৻৻             | BLF/DTMF       |
| •           | 2              | Presence       |
| 9           | B              | Voice Message  |
|             | e.             | Speed Dial     |
|             | Ĩ              | Intercom       |
| 0           | ٩              | Call Park      |
| G           | ¢-             | Call Forward   |
| 0           | ğ              | Keyevent       |
| e           | ø              | URI            |
|             | =              | BLF List       |
| C           | <b>A</b>       | MCAST Paging   |



| Ι | None for Memory Key |  |
|---|---------------------|--|
| 2 | None for DSSKEY     |  |
| 2 | Line Key            |  |
|   | DTMF                |  |

Note: The above table side key icons are applicable models: IP9g/IP11g.

## 6.2 Appendix II - Keyboard character query table

| Mode Icon | Text Mode               | Key Button | Characters Of Each Press |
|-----------|-------------------------|------------|--------------------------|
|           |                         | 1          | 1                        |
|           |                         | 2          | 2                        |
|           |                         | 3          | 3                        |
|           |                         | 4          | 4                        |
|           |                         | 5          | 5                        |
| 123       | Numeric                 | 6          | 6                        |
| 10        | Numeric                 | 7          | 7                        |
|           |                         | 8          | 8                        |
|           |                         | 9          | 9                        |
|           |                         | 0          | 0                        |
|           |                         | *          | *.+                      |
|           |                         | #          | #                        |
|           | Lower Case<br>Alphabets | 1          | @:;()<>                  |
|           |                         | 2          | abc                      |
|           |                         | 3          | d e f                    |
|           |                         | 4          | g h i                    |
|           |                         | 5          | jkl                      |
| abc       |                         | 6          | m n o                    |
|           |                         | 7          | pqrs                     |
|           |                         | 8          | tuv                      |
|           |                         | 9          | w x y z                  |
|           |                         | 0          | (space)                  |
|           |                         | *          | .,*/+-:_=                |

### Table 6 - Look-up Table of Characters



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



# Appendix III –LED Definition

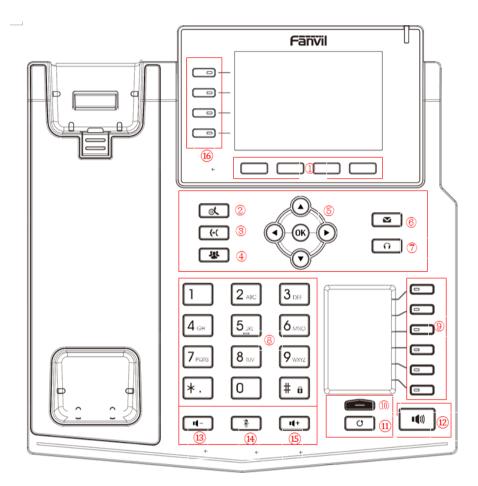
| Туре     | LED Light       | State                               |
|----------|-----------------|-------------------------------------|
|          | Off             | Line inactive                       |
|          | Green On        | Line ready (Registered)             |
|          | Green Blinking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

#### Table 7 - DSS KEY LED State



## 7 Introduction to the User

## 7.1.1 **IP9g**



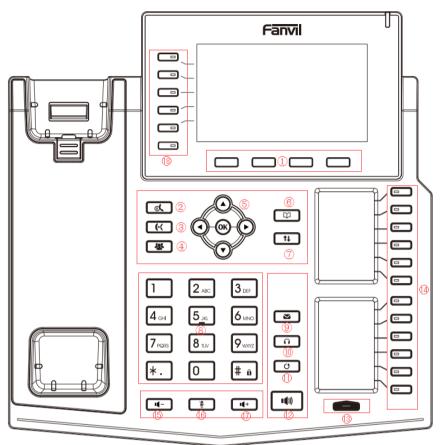
Picture 4 - Instruction of Keypad of IP9G

| Number | The keypad<br>names | Instruction   |
|--------|---------------------|---|
| 1)     | Soft-menu Buttons   | These four buttons provide different functions corresponding to the soft menu displayed on the screen.  |
| 2      | Hold Key            | Press the "Hold" key during the call, the user can hold the call, and press it again to cancel the holding and restore the normal call state. |
| 3      | Transfer Key        | Press the "Transfer" button, the user can transfer the current call to other numbers.   |
| 4      | Conference          | Press the "Conference" button, the user can initiate a three-party conference.  |
| 5      | Navigate/OK Keys    | The user can press the up/down navigation key to change the line or move the cursor in the screen list. On some Settings and text editing     |



|            |                 | pages, the user can press the left/right navigation key to change options  |
|------------|-----------------|--|
|            |                 | or move the cursor in the screen list to the left/right.                   |
|            |                 | OK key: Default is equivalent to soft button confirmation; user can        |
|            |                 | customize the function.  |
| 6          | voice mail      | Press the "voice mail" button, and the user enters the interface of SMS    |
| 0          |                 | and voice mail list.   |
| 7          | Headset Key     | Users can press this key to open the headset                               |
|            |                 | The 12 standard telephone keys provide the same function as standard       |
| 8          | Standard        | telephones, but further to the standard function, some keys also provide   |
| $\odot$    | Telephone Keys  | special function by long pressing the key,                                 |
|            |                 | Key $\#$ - Long-pressed to lock the phone.                                 |
|            | DSS KEY         | Long press DSS key to enter the settings interface and set the required    |
| 9          |                 | functions  |
| $\bigcirc$ | Next Page Key   | Users can switch the second screen page in turn.                           |
|            | Redial          | Press the Redial key to redial the last number dialed                      |
| 12         | Hands-free Key  | The user can press this key to open the audio channel of the speakerphone. |
|            |                 | In the standby state, ring, and ring configuration interface, press this   |
| 13         | Volume Down Key | button to reduce the ring volume; Press this button to lower the volume    |
|            |                 | on the call or volume adjustment screen.                                   |
| 1          | Mute Key        | During a call, the user can press this key to mute the microphone.         |
|            |                 | In the standby state, ring, and ring configuration interface, press this   |
| 15         | Volume Up Key   | button to increase the ring volume; Press this button to increase the      |
|            |                 | volume on the call or volume adjustment screen.                            |
|            |                 | Long press the side key to enter the settings interface and set the        |
| 16         | Side Key        | required functions.  |
| U          | Side Key        | required functions.  |

### 7.1.2 Instruction of Keypad of IP11g



Picture 5 - Keypad of IP11G

Table 9 - Definitions of Keypad of IP11G

| Number  | The keypad<br>names | Instruction  |  |
|---------|---------------------|--|--|
|         | Soft-menu           | These four buttons provide different functions corresponding to the soft       |  |
| (1)     | Buttons             | menu displayed on the screen.  |  |
| 0       | Hold Koy            | Press the "Hold" key during the call, the user can hold the call, and press it |  |
| 2       | Hold Key            | again to cancel the holding and restore the normal call state.                 |  |
| 3       | Transfor Koy        | Press the "Transfer" button, the user can transfer the current call to other   |  |
| $\odot$ | Transfer Key        | numbers.   |  |
| (4)     | Conference          | Press the "Conference" button, the user can initiate a three-party             |  |
| (4)     | Comerence           | conference.  |  |
|         |                     | The user can press the up/down navigation key to change the line or move       |  |
|         | Navigate/OK         | the cursor in the screen list. On some Settings and text editing pages, the    |  |
| 5       |                     | user can press the left/right navigation key to change options or move the     |  |
|         | Keys                | cursor in the screen list to the left/right.                                   |  |
|         |                     | OK key: Default is equivalent to soft button confirmation; user can            |  |



|            |              | customize the function.   |
|------------|--------------|---|
| ß          | Contact Koy  | Press the "Contact" key, the user can enter the address book interface and      |
| 6          | Contact Key  | select the contact person to call.  |
| (7)        | Call Log Key | Press the "Call Log" button and the user can see the incoming/outgoing          |
| $\bigcirc$ |              | calls.  |
|            | Standard     | The 12 standard telephone keys provide the same function as standard            |
| 8          | Telephone    | telephones, but further to the standard function, some keys also provide        |
| 0          | Keys         | special function by long pressing the key,                                      |
|            |              | Key # - Long-pressed to lock the phone.   |
| 9          | Voice Mail   | Press the "voice mail" button, and the user enters the interface of SMS and     |
| 0          |              | voice mail list.  |
| 10         | Headset Key  | Users can press this key to open the headset channel                            |
|            |              |   |
|            | Redial       | Press the Redial key to redial the last number dialed                           |
| 60         | Hands-free   | The user can press this key to open the audio channel of the                    |
| (12) Key   |              | speakerphone.   |
| (3) Next   | Next Page    | Users can switch to the second screen page in turn.                             |
| U)         | Key          |   |
| 14         | DSS KEY      | Long press DSS key to enter the settings interface and set the required         |
|            |              | functions   |
| _          | Volume       | In the standby state, ring, and ring configuration interface, press this button |
| 15         | Down Key     | to reduce the ring volume; Press this button to lower the volume on the call    |
|            | 200000       | or volume adjustment screen.  |
| 16         | Mute Key     | During a call, the user can press this key to mute the microphone.              |
|            |              | In the standby state, ring, and ring configuration interface, press this button |
| (7)        | Volume Up    | to increase the ring volume; Press this button to increase the volume on the    |
| ~          | Key          | call or volume adjustment screen.   |
|            |              | Long press the side key to enter the settings interface and set the required    |
| (18)       | Side Key     | functions.  |

## 7.2 Using Handset / Hands-free Speaker / Headphone

### Using Handset

To talk over handset, users should lift the handset off the device and dial the number, or dial the number first, then lift the handset and the number will be dialed. Users can switch audio channel to handset by lifting the handset when audio channel is turned on in speaker or headphone.



#### Using Hands-free Speaker

To talk over hands-free speaker, users should press the hands-free button then dial the number, or dial the number first then press the hands-free button. Users can switch audio channel to the speaker from handset by pressing the hands-free button when audio channel is opened in handset.

#### Using Headphone

To use headphones, by default, users should headset button which is defined by DSS key to turn on the headphone. Same as handset and hands-free speaker, users can dial the number before or after the headphone is turned on.

#### Using Line Keys (Defined by DSS Key)

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

### 7.3 Idle Screen



Picture 6 - Screen layout/default home screen

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

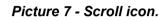
The lower half of the area are the function menu keys, which are also the first layer of function menu keys, through which users can operate the phone.

Users can restore the phone to the default standby screen interface by picking up and dropping the handle. The left and right part of the area shows default configuration of Side keys, which dynamically display the configuration of SIP information, message, headset, etc., which can be customized by users. The icon description is described in 6.1 appendix I.

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

# Kpine

| • | Network    | Phone | Account      | TR069 | Þ |  |
|---|------------|-------|--------------|-------|---|--|
|   | 1. Vlan Id |       | None         |       |   |  |
|   | 2. Mode    |       | DHCP/IPv4    |       |   |  |
|   | 3. IPv4    |       | 192.168.1.15 | 5     |   |  |
|   |            |       |              |       |   |  |
|   |            |       |              |       |   |  |
|   |            |       |              |       |   |  |
|   | Return     |       |              |       |   |  |



## 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 (register / uncommitted / trying / time out)

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

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

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

| Network    | Phone | Account     | TR069 |  |
|------------|-------|-------------|-------|--|
| 1. Vlan Id |       | None        |       |  |
| 2. Mode    |       | DHCP/IPv4   |       |  |
| 3. IPv4    |       | 172.16.7.20 | 9     |  |
|            |       |             |       |  |
|            |       |             |       |  |
|            |       |             |       |  |
| Return     |       |             |       |  |



#### Picture 8 - The Phone status

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

|                                 | Information    | Account   | Configurations | Upgrade        | Auto Provision | Tools | Reboot F |
|---------------------------------|----------------|-----------|----------------|----------------|----------------|-------|----------|
| System                          |                |           |                |                |                |       |          |
|                                 | System Informa | ition     |                |                |                |       |          |
| Network                         | Model:         |           | X6U            |                |                |       |          |
|                                 | Hardware:      |           | V1.0           |                |                |       |          |
| › Line                          | Software:      | Software: |                | 2.2.15         |                |       |          |
|                                 | Uptime:        | Uptime:   |                | : 48           |                |       |          |
| Phone settings                  | MEMInfo:       | MEMInfo:  |                | .9/128(M) RAM: | 27.7/97(M)     |       |          |
|                                 | System time    | 2:        | 2023-7-        | 10 9:42 (SNTP) |                |       |          |
| Phonebook                       | Network        |           |                |                |                |       |          |
| Call logs                       | WAN            |           |                |                |                |       |          |
|                                 | Network mo     | de:       | DHCP           |                |                |       |          |
| Function Key                    | MAC:           |           | 00:a8:5        | 9:ff:e9:53     |                |       |          |
|                                 | IPv4           |           |                |                |                |       |          |
| Application                     | IP:            |           | 192.168        | .1.20          |                |       |          |
| <ul> <li>Application</li> </ul> | Subnet mas     | ke.       | 255.255        | 255.0          |                |       |          |

#### Picture 9 - WEB phone status

### 7.5 Web Management

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

| User:     |           |
|-----------|-----------|
| Password: |           |
| Language: | English 💙 |
|           | Login     |
|           |           |

Picture 10 - Landing page

Users must correctly enter the username and password to log in to the web page. The default username and password are "admin". For the specific details of the operation page, please refer to page <u>11 Web</u> <u>configuration</u>.

### 7.6 Network Configurations

The device relies on IP network connection to provide service. Unlike traditional phone systems based on a



circuit switched wire technology, IP devices are connected to each other over the network and exchange data in packet basis based on the devices' IP address.

To enable this phone, you must first correctly configure the network configuration. To configure the network, users need to find the phone function menu button [Menu] >> [Advanced Settings] >> [Network] >>

#### [Network].

The default password for advanced Settings is "123".

NOTICE! If users see 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 types of networks, IPv4/IPv6/IPv4&IPv6

There are three common IP configuration modes about IPv4.

- Dynamic Host Configuration Protocol (DHCP) This is the automatic configuration mode by getting network configurations from a DHCP server. Users don't need to configure any parameters manually. All configuration parameters will be getting from DHCP server and applied to the device. This is recommended for the most users.
- Static IP Configuration This option allows the user to configure each IP parameters manually, including IP Address, Subnet Mask, Default Gateway, and DNS servers. This is usually used in a technical environment of network users.
- PPPoE This option is often used by users who connect the device to a broadband modem or router. To
  establish a PPPoE connection, the user should configure username and password provided by the
  service provider.

The device is default configured in DHCP mode.

There are three common IP configuration modes about IPv6

- DHCP This is the automatic configuration mode by getting network configurations from a DHCP server.
   Users do not need to configure any parameters manually. All configuration parameters will be getting from the DHCP server and applied to the device. This is recommended for most users.
- Static IP configuration this option allows users to manually configure each IP parameter, including IP address, mask, gateway, and primary and secondary domains. This usually applies to some professional network user environments.

Please see <u>10.7.2.1 network Settings</u> for detailed configuration and use.

### **7.7 SIP Configurations**

A line must be configured properly to be able to provide telephony service. The line configuration is like a virtualized SIM card on a mobile phone which stores the service provider and 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 username, registered password and SIP user 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 key or press the button in the function menu [Menu] >> [Advanced Settings] >> [Accounts] >> [Line n] configuration, click ok to save the configuration.

# NOTICE! User must enter correct PIN code to be able to advance settings to edit line configuration. (The default PIN is 123)

The parameters and screens are listed in the pictures below.

| 2023              | 09                     | 9:45AM |  |  |
|-------------------|------------------------|--------|--|--|
| 1. Registration   | Enabled                | <>     |  |  |
| 2. Server Address | xblue.us1.ympcloud.con | n      |  |  |
| 3. Auth. User     | 2023                   | 2023   |  |  |
| 4. Auth. Password | *****                  |        |  |  |
| 5. SIP User       | 2023                   |        |  |  |
| Return I          | .eft Right             | OK     |  |  |

Picture 11 - Phone line SIP address and account information

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

|                  | SIP SIP Hots                                | pot Dial Plan          | Action Plan Basic Settings   | RTCP-XR        |
|------------------|---|------------------------|------------------------------|----------------|
| › System         |   |                        |                              |                |
| › Network        | Line 2023@SIP <sup>·</sup> ✓                |                        |                              |                |
|                  | Register Settings >>                        |                        |                              |                |
| > Line           | Line Status:                                | Registered             | Activate:                    |                |
|                  | Username:                                   | 2023                   | Authentication User:         | 2023           |
| > Phone settings | Display name:                               | 2023                   | Authentication Password:     | •••••          |
|                  | Realm:                                      |                        | Server Name:                 |                |
| > Phonebook      |   |                        |                              |                |
|                  | SIP Server 1:                               |                        | SIP Server 2:                |                |
| > Call logs      | Server Address:                             | xblue.us1.ympcloud.com | Server Address:              |                |
|                  | Server Port:                                | 5061                   | Server Port:                 | 5060           |
| Function Key     | Transport Protocol:                         | TLS V                  | Transport Protocol:          | UDP V          |
|                  | Registration Expiration:                    | 3600 second(s)         | Registration Expiration:     | 3600 second(s) |
| > Application    | Registration Expiration.                    | second(s)              | Registration Expiration.     | second(s)      |
| Application      | Proxy Server Address:                       |                        | Backup Proxy Server Address: |                |
|                  | Proxy Server Address:<br>Proxy Server Port: |                        |                              | 5060           |
| > Security       | '   | 5061                   | Backup Proxy Server Port:    | 5060           |
|                  | Proxy User:                                 |                        |                              |                |
| > Device Log     | Proxy Password:                             |                        |                              |                |
|                  | Basic Settings >>                           |                        |                              |                |
|                  | Codecs Settings >>                          |                        |                              |                |
|                  | Video Codecs >>                             |                        |                              |                |
|                  | Advanced Settings >>                        |                        |                              |                |

Picture 12 - Web SIP registration

## 8 Basic Function

## 8.1 Making Phone Calls

#### Default Line

The device provides twenty line services. If both lines are configured, users can make or receive phone calls on either line. If the default line is configured by user, there will be a default line to be used for making outgoing call which is indicated on the top left corner. To change the default line, user can press left/right navigator buttons to switch between two lines. Enable or disable default line, user can press [Menu] >> [Features] >> [General] >> [Default Line] or configure from Web Interface (Web / PHONE / Features / Basic Settings).



Picture 13 - Default line

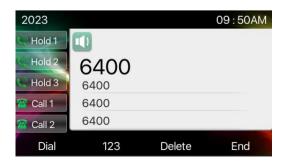
#### Dialing Methods

User can dial a number by,

- Entering the number directly
- Selecting a phone number from phonebook contacts (Refer to <u>10.2.1 Local contacts</u>)
- 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 <u>10.3 Call Log</u>)
- Redialing the last dialed number

#### Dialing Number then Opening Audio

To make a phone call, users can firstly dial a number by one of the above methods. When the dialed number is completed, users can press [**Dial**] button on the soft-menu, or press hand-free button to turn on the speaker or headphone, or lift the handset to call out with the current line, or user can press line key(Configured by DSS Keys) to call out with specified line.





#### Picture 14 - Enable voice channel dialing

#### Opening Audio then Dialing the Number

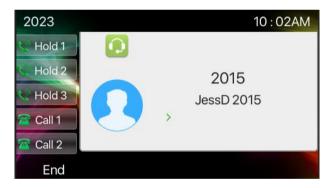
Another alternative is the traditional way to firstly open the audio channel by lifting the handset, then turn on the hands-free speaker or headphone by pressing hands-free button, or line key, and then dial the number with one of the above methods. When completing the number dial, user can press [**Dial**]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

| 2023     |      |        | 09:50AM |
|----------|------|--------|---------|
| Hold 1   |      |        |         |
| Hold 2   | 6400 |        |         |
| 💘 Hold 3 | 6400 |        |         |
| 🖀 Call 1 | 6400 |        |         |
| 🖀 Call 2 | 6400 |        |         |
| Dial     | 123  | Delete | End     |

Picture 15 - Open the voice channel and dial the number

#### Cancel Call

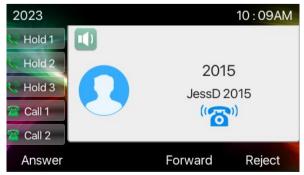
While calling the number, users can stop the audio channel by putting back the handset or pressing the hands-free button to drop the call.



Picture 16 - Call number

### 8.2 Answering Calls

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



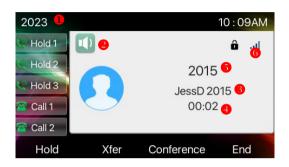


#### Picture 17 - Answering calls.

Users can answer the call by lifting the handset, open headphone, or speaker phone by pressing the handsfree button, or the [Answer] button. To divert the incoming call, users should press the [Divert] button. To reject the incoming call, users should press [**Reject**] button.

### 8.2.1Talking

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



Picture 18 - Talking interface.

#### Table 10 - Talking mode.

| Number | Name            | Description  |
|--------|-----------------|--|
| 1      | Default line    | The line currently used by the phone.                          |
| 2      | Voice channel   | The icon shows the voice channel mode being used.              |
| 3      | Calls to end    | The name or number of the person on the other end of the call. |
| 4      | Call duration   | The duration of a call after it has been established.          |
| 5      | Numbers of line | Shows how many calls are present on the current device         |
| 6      | Speech quality  | Displays the current voice quality of the call.                |
|        | HD audio        | Call using G.722 voice coding calls when displayed HD voice    |
| 7      |                 | icon. (not shown)  |

#### 8.2.2 Make / Receive Second Call

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

#### Second Incoming Call

When there is another incoming call during talking a phone call, this call will be waiting for the user to answer. Users will see the call message in the middle of the current screen. The device will not be ringing but playing call waiting tone in the audio channel of the current call and the LED will be flashing in green. Users can accept or reject the call as same as normal incoming call. When the waiting call is answered, the first call will be held on automatically.



| Fanvil   |          |                | 14 : 15 |
|----------|----------|----------------|---------|
| 🖀 Fanvil | <b>S</b> |                |         |
| 🖀 SIP2   |          | 6545<br>fanvil | 02:51   |
| C SIP3   | Ω        | 99004<br>99004 | ((രാ))  |
| SIP4     |          | 00004          |         |
| Answer   |          | Forward        | Reject  |

Picture 19 - The second call interface

### Second Outgoing Call

To make a second call, user may press [**Xfer**] / [**Conf**] button to make a new call on the default line or press the line key to make new call on specific line. Then dial the number the same way as making a phone call. Another alternative for making a second call is to press DSS Keys or dial out from the configured Keys (BLF/Speed Dial). When the user is making a second call with the above methods, the first call could be held manually or will be held on automatically at second dial.

### Switching between Two Calls

When there are two calls established, user will see a dual calls screen as the following picture.

| Fanvil   | -        |                | 14 : 20 |
|----------|----------|----------------|---------|
| 🖀 Fanvil | <b>S</b> |                |         |
| 🖀 SIP2   | Ω        | 6545<br>fanvil |         |
| 🖀 SIP3   | Ŏ        | 543            | 00.15   |
| 🖀 SIP4   |          | 543            | 00:15   |
| 🖀 SIP5   |          |                |         |
| Hold     | Xfer     | Conference     | End     |

Picture 20 - Two way calling.

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

## Ending One Call

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

# 8.3 End of the Call

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

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

# 8.4 Redial

• Redial the last outgoing number:



When the phone is in standby mode, press the redial button and the phone will call out the last outgoing number.

- Call out any number with the redial key:
   Enter the number, press the redial key, and the phone will call out the number on the dial.
- Press the redial key to enter the call record:

Log in the phone page, enter [**Phone Settings**] >> [**Features**] >> [**Redial Settings**], check **Redial** to enter the call record page, press the redial button when standby to enter the call record page, and press again to call out the current located number.

|                  | Features N  | Media Settings | MCAST                                | Action          | Time/Date      | Time Plan | Tone  |  |
|------------------|---|----------------|--------------------------------------|-----------------|----------------|-----------|-------|--|
| › System         |   |                |                                      |                 |                |           |       |  |
| > Network        | Basic Settings >>   |                |                                      |                 |                |           |       |  |
| › Line           | Tone Settings >> DND Settings >>                          |                |                                      |                 |                |           |       |  |
| • Phone settings | DND Option:<br>Enable DND Tin                             | ner:           | Off                                  |                 |                |           |       |  |
| › Phonebook      | DND Start Time<br>DND End Time:                           |                | 15     ▼     0       17     ▼     30 | *<br>*          |                |           |       |  |
| › Call logs      | Intercom Settings   | >>             |                                      |                 |                |           |       |  |
| › Function Key   | Redial Settings >><br>Enable Call Con<br>Auto Redial Inte | npletion:      |                                      |                 | e Auto Redial: |           | 100)  |  |
| > Application    | Redial Enter Ca   |                | 10 (1~180)                           | )second(s) Auto | Redial Times:  | 5 (1      | ~100) |  |
| › Security       | Response Code Set   |                |                                      |                 |                |           |       |  |

Picture 21 - Redial set.

# 8.5 Dial-up Query

The phone is defaulted to turn on the dial-up inquiry function, dial-out, enter two or more numbers. The dial interface will automatically match the call records and contacts in the number list. Use the navigation key and up and down keys to select the number, press the call out key or wait for time out.

# 8.6 Auto-Answering

User may turn on the auto-answering mode on the device and any incoming call will be automatically answered (not including call waiting). Auto-answering can be enabled on a line basis. The user can start the automatic answer function in the telephone interface or the webpage interface.

• Phone interface:

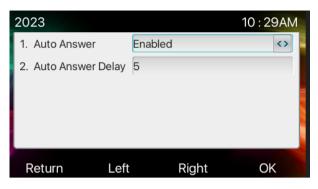
Press [Menu] >> [Features] >> [Auto Answer] button.

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

After completion, press [OK] key to save.

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





Picture 22 - Line 1 enables auto-answering



Picture 23 - The line has enabled auto-answering.

## • WEB interface:

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

|                  | SIP   | SIP Hotspot    | Dial Plan                     | Action Plan     | Basic Settings                                     | RTCP-XR    |                |
|------------------|---|----------------|-------------------------------|-----------------|--|------------|----------------|
| › System         |   |                |                               |                 |  |            |                |
| > Network        | Line 20<br>Register Setting                 | 023@SIP. ✓     |                               |                 |  |            |                |
| > Line           | Basic Settings >                            |                |                               |                 |  |            |                |
| › Phone settings | Enable Auto<br>Call Forward<br>Unconditiona |                |                               | Call Fo         | Answering Delay:<br>prward Number for<br>ditional: | 5 (0       | ~120)second(s) |
| > Phonebook      | Call Forward<br>Call Forward<br>Answer:     |                |                               | Busy:           | orward Number for                                  |            |                |
| → Call logs      | Call Forward<br>Answer:                     | Delay for No 5 | (0~120)s                      | econd(s) Transf | er Timeout:  | 0 se       | cond(s)        |
| > Function Key   | Conference 1                                | Type: Local    | *                             | Serve<br>Numb   | r Conference<br>er:                                |            |                |
| Application      | Subscribe Fo<br>Message:<br>Voice Messag    |                |                               | Voice           | Message Number:                                    | *2         |                |
| > Security       | Period:<br>Hotline Delay                    | (60~9          | 999999)second(s)<br>(0~9)seco |                 | e Hotline:<br>e Number:                            |            |                |
| › Device Log     | Dial Without<br>DTMF Type:                  | RFC2           | 833 🗸                         | DTMF            | e Missed Call Log:<br>SIP INFO Mode:               | Send 10/11 | •              |
|                  | Request With<br>Use STUN:                   | n Port: 🗹      |                               | Enable<br>Use V | e DND:<br>PN:                                      |            |                |
|                  | Enable Failba<br>Failback Inte              | _              | second(s)                     | -               | Failback:<br>Retry Counts:                         | 3 (1       | ~10)           |

Picture 24 - Web page to start auto-answering.



# 8.7 Callback

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

• Set the callback key through the phone interface:

Under standby, press [Menu] >> [Basic Settings] >> [Keyboard Settings] >> [Function key] or [ Keyboard Settings] >> [ Soft function key] choose to set up the function keys, key type, type selection function name select callback function, input the callback key name, press [OK] key to save.



Picture 25 - Set the callback key on the phone.

• Set the callback key through the web interface:

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

|                  | Function Key                      | Side Key             | Softkey             | Advanced       |             |                     |                           |                 |
|------------------|-----------------------------------|----------------------|---------------------|----------------|-------------|---------------------|---------------------------|-----------------|
| > System         |                                   |                      |                     |                |             |                     |                           |                 |
| > Network        | Function Key Se<br>Dsskey Trans   |                      | a New Ca 🗸          | Dsskey Home Pa | ge: None 🗸  |                     |                           |                 |
| › Line           | Dsskey Long                       | Press Edit           | ~                   | Apply          |             |                     |                           |                 |
| > Phone settings | Кеу Туре                          | age2 Page3 P<br>Name | age4 Page5<br>Value | Subtype        | Line        | Delete Ado<br>Media | New Page<br>PickUp Number | Icon Color      |
| > Phonebook      | DSS<br>Key Memory Key<br>1        | ✓ Paul 2013          | 2013                | BLF/AXFER V    | 2023@SIP1 🗸 | DEFAULT V           |                           | Default Green 🗸 |
| › Call logs      | DSS<br>Key Memory Key<br>2        | ✓ Ronnell 2006       | 2006                | BLF/AXFER ¥    | 2023@SIP1 V | DEFAULT             |                           | Default Green 🗸 |
| • Function Key   | DSS<br>Key Memory Key<br>3<br>DSS | Richard 2002         | 2002                | BLF/AXFER ¥    | 2023@SIP1 V | DEFAULT V           |                           | Default Green 🗸 |
| > Application    | Key Memory Key<br>4<br>DSS        | ✓ Jeff 2010          | 2010                | BLF/AXFER V    | 2023@SIP1 V | DEFAULT V           |                           | Default Green 🗸 |
| > Security       | Key Memory Key<br>5               | ✓ Evie 2020          | 2020                | BLF/AXFER V    | 2023@SIP1 V | DEFAULT ¥           |                           | Default Green 🗸 |

Picture 26 - Set the callback key on the web page.

# 8.8 Mute

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



## 8.8.1 Mute the Call

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

2023 10:39AM Hold 1 â ..... Hold 2 6400 Hold 3 6400 Call 1 Q. Call 2 Hold Xfer Conference End

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

Picture 27 - Mute the call.

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

## 8.8.2 Ringing Mute

• Mute: press the mute button when the phone is in standby mode:  $\Psi$ 

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



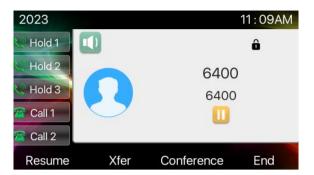
Picture 28 - Ringing mute

Cancel ring tone mute: On the standby or incoming call screen, press the mute button again <sup>1</sup>/<sub>4</sub> or volume up <sup>1</sup>/<sub>4</sub> cancel ring tone mute, no longer shows mute icon in upper right corner after cancel <sup>1</sup>/<sub>4</sub>. The phone mute icon is off.

# 8.9 Call Hold/Resume

The user can press the [Hold] button to maintain the current call, and this button will become the [Resume] button, and the user can press the "resume" button to restore the call.





Picture 29 - Call hold interface

# 8.10 DND

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

Enable/Disable phone all lines DND, the methods as the following :

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



Picture 30 - Enable DND

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

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

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

| DND          |      |       | 10 : 44AM |
|--------------|------|-------|-----------|
| 1. DND Mode  | Line | )     | <         |
| 2. DND Timer | Disa | abled | <>        |
| 3. Line      | SIP  | 1     | <>        |
| 4. State     | Disa | abled | <>        |
|              |      |       |           |
| Return       | Left | Right | OK        |



#### Picture 31 - DND setting interface.

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



Picture 32 - DND timer

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

|                                    | Features Media Settin | ngs MCAST | Action | Time/Date | Time Plan | Tone | Advanced |
|------------------------------------|-----------------------|-----------|--------|-----------|-----------|------|----------|
| › System                           |                       |           |        |           |           |      |          |
| > Network                          | Basic Settings >>     |           |        |           |           |      |          |
| 7 NELWOIK                          | Tone Settings >>      |           |        |           |           |      |          |
| > Line                             | DND Settings >>       |           |        |           |           |      |          |
|                                    | DND Option:           | Off 🗸     |        |           |           |      |          |
| <ul> <li>Phone settings</li> </ul> | Enable DND Timer:     |           |        |           |           |      |          |
|                                    | DND Start Time:       | 15 🗸 0    | ~      |           |           |      |          |
| > Phonebook                        | DND End Time:         | 17 🗸 30   | ~      |           |           |      |          |
|                                    | Intercom Settings >>  |           |        |           |           |      |          |
| › Call logs                        | Redial Settings >>    |           |        |           |           |      |          |
| Eurotion Koy                       |                       |           |        |           |           |      |          |

Picture 33 - DND Settings

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

|                | SIP SIP Hot   | spot Dial Plan Act                       | ion Plan Basic Settings  | RTCP-XR         |
|----------------|---|--|--|-----------------|
| System         |   |  |  |                 |
| Network        | Line 2023@SIP' V<br>Register Settings >>                  | ]  |  |                 |
| Line           | Basic Settings >>   |  |  |                 |
| Phone settings | Enable Auto Answering:<br>Call Forward<br>Unconditional:  |  | Auto Answering Delay:<br>Call Forward Number for<br>Unconditional: | 5 (0~120)second |
| Phonebook      | Call Forward on Busy:<br>Call Forward on No               |  | Call Forward Number for<br>Busy:<br>Call Forward Number for        |                 |
| Call logs      | Answer:<br>Call Forward Delay for N<br>Answer:            | lo 5 (0~120)second(s)                    |  | 0 second(s)     |
| Function Key   | Conference Type:  | Local 🗸                                  | Server Conference<br>Number:                                       |                 |
| Application    | Subscribe For Voice<br>Message:<br>Voice Message Subscrib | e 3600                                   | Voice Message Number:  | *2              |
| Security       | Period:<br>Hotline Delay:                                 | (60~999999)second(s)<br>0 (0~9)second(s) | Enable Hotline:<br>Hotline Number:                                 |                 |
| Device Log     | Dial Without Registered<br>DTMF Type:                     | RFC2833                                  | Enable Missed Call Log:<br>DTMF SIP INFO Mode:                     | Send 10/11      |
|                | Request With Port:<br>Use STUN:                           |  | Enable DND:<br>Use VPN:  |                 |



### Picture 34 - Line DND

# 8.11 Call Forward

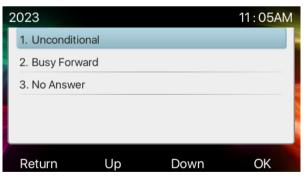
Call forward is also known as 'Call Divert' which is to divert the incoming call to a specific number based on the conditions and configurations. Users can configure the call forward settings of each line. There are three types,

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

| Call Forward |    |      | 11:05AM |
|--------------|----|------|---------|
| 1. 2023      |    |      |         |
| 2. SIP2      |    |      |         |
| 3. SIP3      |    |      |         |
| 4. SIP4      |    |      |         |
| 5. SIP5      |    |      |         |
| Return       | Up | Down | OK      |

Picture 35 - Select the line to set up call forwarding.

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



Picture 36 - Select call forward type.

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



| Unconditional   |       |       | 11:06AM |
|-----------------|-------|-------|---------|
| 1. Unconditiona | l Dis | abled | <>      |
| 2. Forward to   |       |       |         |
| 3. On Code      |       |       |         |
| 4. Off Code     |       |       |         |
|                 |       |       |         |
| Return          | Left  | Right | ОК      |

Picture 37 - Enable call forwarding and configure the call forwarding number.

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

|            | SIP                     | SIP Hotspot          | Dial Plan                     | Action Plan     | Basic Settings                  | RTCP-XR    |                 |
|------------|-------------------------|----------------------|-------------------------------|-----------------|---------------------------------|------------|-----------------|
| System     |                         |                      |                               |                 |                                 |            |                 |
| Network    | Line                    | 2023@SIP 🗸           |                               |                 |                                 |            |                 |
|            | Register Settin         | Register Settings >> |                               |                 |                                 |            |                 |
| Line       | Basic Settings          | >>                   |                               |                 |                                 |            |                 |
|            | -                       | Answering:           |                               | Auto A          | Answering Delay:                | 5          | (0~120)second(s |
| settings   | Call Forwar             |                      |                               | Call F          | orward Number for               |            |                 |
|            | Uncondition             | al:                  |                               |                 | nditional:<br>orward Number for |            |                 |
| k          | Call Forwar             | 0                    |                               | Busy:           |                                 |            |                 |
|            | Call Forwar<br>Answer:  | d on No              |                               | Call F          | orward Number for<br>iswer:     |            |                 |
|            | Call Forwar<br>Answer:  | Delay for No 5       | (0~120)s                      | econd(s) Transf | fer Timeout:                    | 0          | second(s)       |
| ev         | Conference              | Type: Loca           | *                             | Serve<br>Numb   | r Conference                    |            |                 |
| • <b>y</b> |                         |                      |                               | Humb            |                                 |            |                 |
| 1          | Subscribe F<br>Message: | or Voice             |                               | Voice           | Message Number:                 | *2         |                 |
|            | Voice Messa             | ge Subscribe 3600    |                               | Enabl           | e Hotline:                      |            |                 |
|            | Period:<br>Hotline Dela | -                    | 999999)second(s)<br>(0~9)seco | and(c) Hotlin   | e Number:                       |            |                 |
|            |                         | t Registered:        | (0~9)sect                     |                 | e Missed Call Log:              |            |                 |
|            | DTMF Type:              |                      | 833 🗸                         |                 | SIP INFO Mode:                  | Send 10/11 | *               |
|            | Request Wi              |                      |                               |                 | e DND:                          |            | •               |
|            | Use STUN:               |                      |                               | Use V           |                                 |            |                 |
|            | 000 010111              | U                    |                               | 000 1           |                                 | -          |                 |
|            | Enable Failt            | ack: 🗹               |                               | Signal          | l Failback:                     |            |                 |
|            | Failback Int            | erval: 1800          | second(s)                     | Signal          | Retry Counts:                   | 3          | (1~10)          |

Picture 38 - Set call forward.

# 8.12 Call Transfer

When the user is talking with a remote party and wishes to transfer the call to another remote party, there are three way to transfer the call, blind transfer, attended transfer and Semi-Attended transfer.

- Blind transfer: No need to negotiate with the other side, directly transfer the call to the other side.
- Semi-Attended transfer: When you hear the ring back, transfer the call to the other party.
- Attended transfer: When the caller answers the call, transfer the call to the other party.

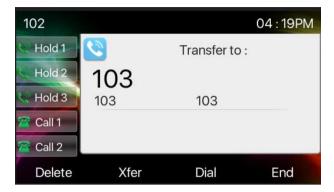
Note! For more transfer Settings, please refer to 12.6 Line >> Dial Plan

## 8.12.1 Blind Transfer

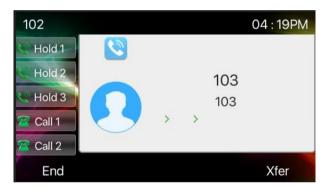
During the call, the user presses the function menu button [Transfer] or the transfer button on the phone



, Enter the number to transfer or press the contact button or the history button to select the number, press the transfer key again or blind transfer to a third party. After the third-party rings, the phone will show that the transfer is successful and hang up.



Picture 39 - Transfer interface

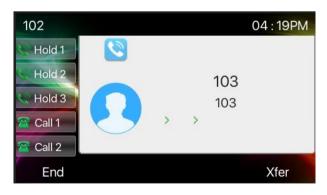


Picture 40 – Transfer Dialing

## 8.12.2 Attended Transfer

Attendance transfer is also known as "courtesy mode", which is to transfer the call by calling the other party and waiting for the other party to answer the call.

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

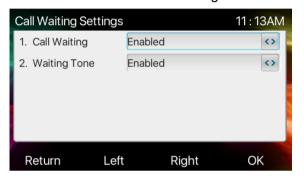


Picture 41 - Attended transfer.



# 8.13 Call Waiting

- Enable call waiting: new calls can be accepted during a call.
- Disable call waiting: new calls will be automatically rejected, and a busy tone will be prompted.
- Enable call waiting tone: when you receive a new call on the line, the tone will beep.
- The user can enable/disable the call waiting function in the phone interface and the web interface.
- Phone interface: Press [Menu] >> [Features] >> [Call waiting], the navigation key and left/right button enable/disable call waiting and call waiting tone. Press [Menu] >> [Features] >> [Call waiting], the navigation key and left/right button enable/disable call waiting and call waiting tone.



Picture 42 - Call waiting setting.

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

|                   | Features Media Setting                            | s MCAST                | Action Time/Date                                    | Time Plan Tone              | Advanced |
|-------------------|---|------------------------|---|-----------------------------|----------|
| → System          |   |                        |   |                             |          |
| > Netwo <b>rk</b> | Basic Settings >><br>Enable Call Waiting:         |                        | Enable Call Transfer:                               |                             |          |
| › Line            | Semi-Attended Transfer:<br>Enable Auto on Hook:   |                        | Enable 3-way Conference<br>Auto HangUp Delay:       | : ✓<br>0<br>(0~30)second(s) |          |
| • Phone settings  | Ring From Headset:<br>Enable Silent Mode:         | Disabled V             | Enable Auto Headset:<br>Disable Mute for Ring:      |                             |          |
| > Phonebook       | Enable Default Line:                              |                        | Enable Auto Switch Line:                            |                             |          |
| › Call logs       | Default Ext Line:<br>Default Ans Mode:            | 2023@SIP1 ¥<br>Audio ¥ | Ban Outgoing:<br>Default Dial Mode:                 | Audio 🗸                     |          |
| › Function Key    | Hide DTMF:<br>Enable Restricted Incoming<br>List: | Disabled V             | Enable CallLog:<br>Enable Allowed Incoming<br>List: | Enable 🗸                    |          |
| Application       | Enable Restricted Outgoing<br>List:               |                        | Enable Country Code:                                |                             |          |

Picture 43 - Web call waiting setting.



|                                    | Features Media Settings                         | MCAST | Action | Time/Date                                 | Time Plan | Tone | Advance |
|------------------------------------|---|-------|--------|---|-----------|------|---------|
| › System                           |   |       |        |   |           |      |         |
| > Network                          | Basic Settings >><br>Tone Settings >>           |       |        |   |           |      |         |
| › Line                             | Enable Holding Tone:<br>Play Dialing DTMF Tone: |       |        | e Call Waiting Tone:<br>alking DTMF Tone: |           |      |         |
| <ul> <li>Phone settings</li> </ul> | DND Settings >>                                 |       |        |   |           |      |         |

Picture 44 - Web call waiting tone setting.

# 8.14 Conference

## 8.14.1 Local Conference

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

| Ď                | SIP  | SIP Hotspot      | Dial Plan | Action Plan     | Basic Settings                                     | RTCP-XR |               |
|------------------|--|------------------|-----------|-----------------|--|---------|---------------|
| › System         |  |                  |           |                 |  |         |               |
| > Network        | Line 2<br>Register Setting                 | 2023@SIP' ✔      |           |                 |  |         |               |
| > Line           | Basic Settings >                           | -                |           |                 |  |         |               |
| › Phone settings | Enable Auto<br>Call Forward<br>Uncondition |                  |           | Call F          | Answering Delay:<br>prward Number for<br>ditional: | 5 (0~1  | 120)second(s) |
| > Phonebook      | Call Forward<br>Call Forward               | . –              |           | Busy:<br>Call F | orward Number for                                  |         |               |
| › Call logs      | Answer:<br>Call Forward<br>Answer:         | d Delay for No 5 | (0~120)s  |                 | er Timeout:  | 0 seco  | ond(s)        |
| › Function Key   | Conference                                 | Type: Loca       | <b>v</b>  | Serve<br>Numb   | r Conference<br>er:                                |         |               |

Picture 45 - Local conference setting

Two ways to create a local conference:

 The device has two channels of communication. Press the conference button below the display, then make the second call. When the 2<sup>nd</sup> party answers, press the conference button again.

| <b>1</b> 03 |      | (       | 04:50PM | <b>\$</b> 103          |            |        | 04:32PM | <b>1</b> 03 |      | 0                        | 4:45PM |
|-------------|------|---------|---------|------------------------|------------|--------|---------|-------------|------|--------------------------|--------|
| Hold 1      |      |         | al      | 💥 Hold 1               | Conference | e to : |         | 🐑 Hold 1    |      |                          | at     |
| Hold 2      | 0    | 9135992 | 2583    | Hold 2                 | 102        |        |         | Hold 2      | 0    | 9135992583<br>9135992583 |        |
| C Hold 3    |      | 9135992 |         | Hold 3                 | 102        | 102    |         | Hold 3      | 0    | 102<br>102               | 00:03  |
| 🖀 Call 1    |      | 00:2    | 7       | 🕿 Call 1               | 102        | 102    |         | 🖀 Call 1    |      | 102                      |        |
| 🖀 Call 2    |      |         |         | 🖀 Call 2               | 102        | 102    |         | 🖀 Call 2    |      |                          |        |
| Hold        | Xfer | Conf    | End     | $\rightarrow$ All Call | Intercom   | Delete | Dial    | → Hold      | Xfer | Conf                     | End    |

Picture 46 - Local conference (1)

2) While connected in a conference and you wish to speak with one of the parties, press **[split]** you will be connected to the last person joined. To select the first person, use up (down) arrow keys and then press

[resume].



| <b>©</b> 103 |            |       | 04:46PM | 1             | I) 103 |      | C                        | )4:45PM |
|--------------|------------|-------|---------|---------------|--------|------|--------------------------|---------|
| Hold 1       | Conf(3)    |       | 00:27   | 2             | Hold 1 |      |                          | at      |
| Hold 2       | 102 913599 | 2583  |         | 2             | Hold 2 | 0    | 9135992583<br>9135992583 |         |
| Hold 3       |            |       |         | ~             | Hold 3 | 0    | 102<br>102               | 00:03   |
| Call 2       |            |       |         | 2             | Call 2 |      |                          |         |
| Hold         | Conf       | Split | End     | $\rightarrow$ | Hold   | Xfer | Conf                     | End     |

Picture 47 - Local conference (2)

## 8.14.2 Network Conference

Users need server support for network conferences.

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

|                  | SIP SIP Hotspot Dial Plan Action Plan Basic Settings RTCP-XR   |
|------------------|--|
| > System         |  |
| › Network        | Line 2023@SIP·   |
| • Line           | Basic Settings >>  |
| › Phone settings | Enable Auto Answering:       Auto Answering Delay:       5       (0~120)second(s         Call Forward       Call Forward Number for Unconditional:       Call Forward Number for Unconditional:       0  |
| > Phonebook      | Call Forward on Busy: Call Forward Number for Busy: Call Forward on No Call Forward Number for Call Fo |
| › Call logs      | Answer: No Answer: No Answer: Call Forward Delay for No 5 (0~120)second(s) Transfer Timeout: 0 second(s)   |
| › Function Key   | Conference Type: Local   Server Conference Number:   |

Picture 48 - Network conference

Method to join a network conference:

- Multi-party call number of network conference room and enter the password then all enter the conference room.
- The two phones have established common calls. Press the conference button to invite new members to the conference. Follow the voice prompt to operate.

Note: the upper limit of the number of participants in the network conference varies according to the server.

# 8.15 Call Park

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

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

Set the call park button:

 Phone interface: long press a function key to enter the function key Settings interface, or through the [Menu] >> [Basic Settings] >> [Keyboard Settings] enter the settings interface of function keys, and set



the key function type as memory and subtypes as call park, reside values for the server calls park number, set up corresponding SIP lines.

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

| D | osskey         |      |           | 11 : 21AM         |
|---|----------------|------|-----------|-------------------|
| · | 1. Side Dsskey | 1-   | 1         | $\langle \rangle$ |
| : | 2. Туре        | M    | emory Key | $\langle \rangle$ |
| 3 | 3. Line        | SI   | P1        | $\langle \rangle$ |
| 4 | 4. Subtype     | Cá   | all Park  | $\langle \rangle$ |
| ٤ | 5. Name        | Но   | old 1     |                   |
|   | Return         | Left | Right     | ОК                |

Picture 49 - Phone set call park

|                  | Function Key                          | Side Key            | Softkey            | Advance     | 1       |            |                   |                               |               |   |
|------------------|---------------------------------------|---------------------|--------------------|-------------|---------|------------|-------------------|-------------------------------|---------------|---|
| > System         |                                       |                     |                    |             |         |            |                   |                               |               |   |
| > Network        | Function Key Settin<br>Dsskey Transfe | -                   | New Cz 🗸           | Dsskey Home | Page: 1 | lone 🗸     |                   |                               |               |   |
| > Line           | Dsskey Long Pr                        | ress Edit           | ~                  | Apply       |         |            |                   |                               |               |   |
| › Phone settings | Page1 Page<br>Key Type                | e2 Page3 Page3 Name | ge4 Page5<br>Value | Subtype     |         | Line       | Delete /<br>Media | Add New Page<br>PickUp Number | Icon Color    |   |
| > Phonebook      | DSS<br>Key None ¥<br>1                | •                   |                    | None        | ▼ AUT   | ) 🗸        | DEFAULT           | /                             | Default Green | ~ |
| › Call logs      | DSS<br>Key Memory Key V<br>2<br>DSS   | •                   | 12345              | Call Park   | ✔ 2023  | @SIP1 ♥    | DEFAULT           | •                             | Default Green | ~ |
| • Function Key   | DSS<br>Key None ✓<br>3<br>DSS         | •                   |                    | None        | ▼ AUT   | ) <b>v</b> | DEFAULT           | /                             | Default Green | ~ |
| > Application    | Key None ¥                            | •                   |                    | None        | ✓ AUT   | > 🗸        | DEFAULT           | /                             | Default Green | ~ |

Picture 50 - WEB set call park

# 8.16 Pick Up

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

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

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

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

WEB interface: Log in the phone webpage, enter the [Function Key] >> [Function Key] page, select a



DSSkey, set the memory key type as memory key, the subtype as BLF/NEW CALL, and set the corresponding SIP line and pick up codes.

| Dsskey        |      |              | 12:08PM           |
|---------------|------|--------------|-------------------|
| 3. Line       |      | SIP1         | $\langle \rangle$ |
| 4. Subtype    |      | BLF/New Call | $\langle \rangle$ |
| 5. Name       |      | Hold 1       |                   |
| 6. Tel        |      | 6901         |                   |
| 7. Pickup Nur | nber | *8           |                   |
| Return        | 123  | Delete       | ОК                |

Picture 51 - Phone pick up setting.

| Ň                | Function Key Softkey Advanced  |                 |
|------------------|--|-----------------|
| › System         |  |                 |
| > Network        | Function Key Settings       Dsskey Transfer Mode     Make a New Cav       Dsskey Home Page:     None v   |                 |
| > Line           | Dsskey Long Press Edit  Apply  |                 |
| > Phone settings | Page1         Page2         Page3         Page4         Page5         Delete         Add New Page           Key         Type         Name         Value         Subtype         Line         Media         PickUp Number   | Icon Color      |
| > Phonebook      | DSS         Memory Key         12345         BLF/NEW CALL         2023@SIP1         DEFAULT         DEFAULT  | Default Green 🗸 |
| › Call logs      | DSS         Key         None         AUTO         DEFAULT         2           2         AUTO         AUTO <th>Default Green 🗸</th>  | Default Green 🗸 |
| Function Key     | DSS         None         AUTO         DEFAULT         Image: Constraint of the | Default Green 🗸 |

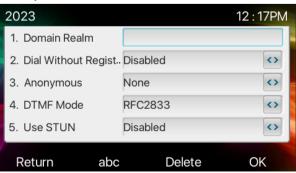
Picture 52 - WEB pick up setting.

# 8.17 Anonymous Call

## 8.17.1 Anonymous Call

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

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





#### Picture 53 - Enable anonymous call.

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

| Enable Session Timer:  |            | Session Timeout:         | 0 second(s)  |
|------------------------|------------|--------------------------|--------------|
| Enable BLF List:       |            | BLF List Number:         |              |
| Response Single Codec: |            | BLF Server:              |              |
| Keep Alive Type:       | UDP 🗸      | Keep Alive Interval:     | 30 second(s) |
| Keep Authentication:   |            | Blocking Anonymous Call: |              |
| RTP Encryption(SRTP):  | Disabled V |                          |              |
|                        |            |                          |              |
| User Agent:            |            | Specific Server Type:    | COMMON 🖌     |
| SIP Version:           | RFC3261 🗸  | Anonymous Call Standard: | None 🗸       |
| Local Port:            | 5060       | Ring Type:               | Type 1 🗸     |
| Enable user=phone:     |            | Use Tel Call:            |              |
| Auto TCP:              |            | Enable PRACK:            |              |
| Enable Rport:          |            |                          |              |
|                        |            |                          |              |

Picture 54 - Enable Anonymous web page call.

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

| • | All         | In Out      | Miss         |
|---|-------------|-------------|--------------|
|   | 👗 anonymous | anonymous   | 31 Jul 18:57 |
|   | 🔇 anonymous | anonymous   | 31 Jul 18:57 |
|   | 🔇 anonymous | anonymous   | 31 Jul 18:55 |
|   | 🔇 anonymous | anonymous   | 31 Jul 18:55 |
|   | 👗 fanvil    | 6545        | 31 Jul 18:53 |
|   | Return Op   | otion Delet | e Dial       |

Picture 55 - Anonymous call log

## 8.17.2 Ban Anonymous Call

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

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

| Ban Anonym | ous Call |        | 12 : 21PM         |
|------------|----------|--------|-------------------|
| 1. Line    | SIP1     |        | $\langle \rangle$ |
| 2. State   | Enat     | bled   | $\langle \rangle$ |
|            |          |        |                   |
|            |          |        |                   |
|            |          |        |                   |
| Return     | Enter    | Switch | ОК                |

Picture 56 - Anonymous calls are not allowed on the phone.



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

| Enable Session Timer:  |            | Session Timeout:         | 0 second(s)  |
|------------------------|------------|--------------------------|--------------|
| Enable BLF List:       |            | BLF List Number:         |              |
| Response Single Codec: |            | BLF Server:              |              |
| Keep Alive Type:       | UDP 🗸      | Keep Alive Interval:     | 30 second(s) |
| Keep Authentication:   |            | Blocking Anonymous Call: |              |
| RTP Encryption(SRTP):  | Disabled V |                          |              |

Picture 57 - Page Settings blocking anonymous call.

# 8.18 Hotline

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

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

| Hot Line |    |      | 12:23PM | 2023              |        |       | 12 : 24PM         |
|----------|----|------|---------|-------------------|--------|-------|-------------------|
| 1. 2023  |    |      |         | 1. Hot Line       | Enable | d     | $\langle \rangle$ |
| 2. SIP2  |    |      |         | 2. Number         |        |       |                   |
| 3. SIP3  |    |      |         | 3. Hot Line Delay | 0      |       |                   |
| 4. SIP4  |    |      |         |                   |        |       |                   |
| 5. SIP5  |    |      |         |                   |        |       |                   |
| Return   | Up | Down | ОК      | Return            | Left   | Right | OK                |

Picture 58 - Phone hotline setting interface.

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



| Line 258@SIP1                        | •                            |   |                      |
|--------------------------------------|------------------------------|---|----------------------|
| Register Settings >>                 |                              |   |                      |
| Basic Settings >>                    |                              |   |                      |
| Enable Auto Answering:               |                              | Auto Answering Delay:                     | 5 (0~120)second(s) 🥝 |
| Call Forward<br>Unconditional:       |                              | Call Forward Number for<br>Unconditional: |                      |
| Call Forward on Busy:                |                              | Call Forward Number for<br>Busy:          |                      |
| Call Forward on No<br>Answer:        |                              | Call Forward Number for<br>No Answer:     |                      |
| Call Forward Delay for<br>No Answer: | 5 (0~120)second(s) 💡         | Transfer Timeout:                         | 0 second(s) 🕜        |
| Conference Type:                     | Local 💌 🖉                    | Server Conference<br>Number:              |                      |
| Subscribe For Voice<br>Message:      |                              | Voice Message Number:                     |                      |
| Voice Message<br>Subscribe Period:   | 3600<br>(60~999999)second(s) | Enable Hotline:                           |                      |
| Hotline Delay:                       | 0 (0~9)second(s)             | Hotline Number:                           |                      |
| Dial Without Registered:             | : 🔲 🕜                        | Enable Missed Call Log:                   |                      |
| DTMF Type:                           | AUTO 🗨 🕜                     | DTMF SIP INFO Mode:                       | Send 10/11 🔍 🥝       |
| Request With Port:                   | ✓                            | Enable DND:                               |                      |
| Use STUN:                            |                              | Use VPN:                                  | ☑ 🥝                  |

Picture 59 - Hotline set up on webpage.

# 8.19 Emergency Call

The emergency call function is used to get the corresponding emergency call number on the phone after enabling the keypad lock. You can also call emergency services when your phone is locked.

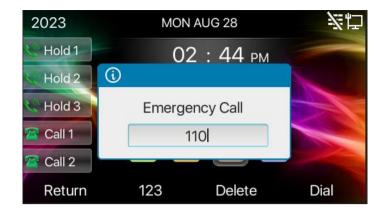
 Configure the emergency call number: log in the phone page, enter the [Phone Settings] >> [Basic Settings] page, set up the emergency call code, if you need to set up more than one emergency call code, please use ", " to separate.

| Allow IP Call:                    |   | P2P IP Prefix:              |            |   |
|-----------------------------------|---|-----------------------------|------------|---|
| Caller Name Priority:             | LocalContact-NetContact-SIP DisplayName | Emergency Call Number:      | 110        | 0 |
| Search path:                      | LDAP 💌 🧭                                | LDAP Search:                | LDAP 1 💌 🕜 |   |
| Caller Display Type:              | Normal 🔍 🕜                              |                             |            |   |
| Restrict Active URI Source<br>IP: |   | Push XML Server:            |            | 0 |
| Enable Pre-Dial:                  | ☑ 🥝                                     | Enable Multi Line:          | ☑ 🕜        |   |
| Line Display Format:              | xxx@SIPn 💌 🕜                            | Contact As White List Type: | NONE 💽 🕜   |   |
| Block XML When Call:              | Enable 💌 🕜                              | SIP Notify:                 | Enable 🗨 🕜 |   |
| Call Number Filter:               |   |                             |            |   |

Picture 60 - Set up an emergency call number.

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

# **K**blue



Picture 61 - Dial the emergency number.



# **9** Advance Function

# 9.1 BLF (Busy Lamp Field)

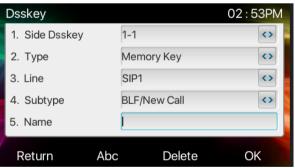
## 9.1.1 Configure the BLF Functionality

Page interface: log in the phone page, enter the [Function key] >> [Function key] page, select a DSS key, set the function key type as memory key, choose subtype among BLF/NEW CALL, BLF/BXFER, BLF/AXFER, BLF/CONF, set BLF/DTMF value as the number to be subscribed, set the corresponding SIP line. The pickup number is provided by the server.\_The specific usage refers to 8.16 Pick up.

|                  | Function Key                 | Side Key              | Softkey             | Advanced       |             |                   |                              |                 |
|------------------|------------------------------|-----------------------|---------------------|----------------|-------------|-------------------|------------------------------|-----------------|
| › System         |                              |                       |                     |                |             |                   |                              |                 |
| › Network        | Function Key S<br>Dsskey Tra |                       | a New Ca 🗸          | Dsskey Home Pa | ge: None 🗸  |                   |                              |                 |
| › Line           | Dsskey Lor                   | g Press Edit          | *                   | Apply          |             |                   |                              |                 |
| › Phone settings | Page1 (<br>Key Type          | Page2 Page3 P<br>Name | age4 Page5<br>Value | Subtype        | Line        | Delete A<br>Media | dd New Page<br>PickUp Number | Icon Color      |
| > Phonebook      | DSS<br>Key Memory Key<br>1   | •                     | 12345               | BLF/NEW CALI 🗸 | 2023@SIP1 V | DEFAULT           | *8                           | Default Green 🗸 |
| › Call logs      | DSS<br>Key<br>2              | •                     |                     | None 🗸         | AUTO 🗸      | DEFAULT           |                              | Default Green 🗸 |
| • Function Key   | DSS<br>Key None<br>3         | •                     |                     | None 🗸         | AUTO 🗸      | DEFAULT           |                              | Default Green 🗸 |

Picture 62 - Web page configuration BLF function key

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



*Picture 63 - Phone configuration BLF function key Table 11 - BLF Function key subtype parameter list* 



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

## 9.1.2 Use the BLF Function

The BLF, also known as a "busy light field," notifies the user of the status of the subscribed object and is used by the server to pick up the call. BLF helps you monitor the other person's status (idle, ringing, talking, off). BLF function:

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

Configuration BLF function keys, when the subscription of the number of the state (idle, ringing, talking) is changed, the LED lights of function key will have corresponding change, see <u>appendix III 6.3 LED</u> to get to know each other under different status LEDs.

2) Call the subscribed number.

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

3) Transfer calls to the subscribed number.

Refer to <u>Table 9.1.1-blf function key</u> subtype parameter list, the BLF key can be used for blind rotation, attention-rotation and semi-attention-rotation of the current call, and also can invite the subscribed number to join the call and send DTMF, etc.

4) Pickup incoming calls from subscribed phones.

When configuring the BLF function key, configure the pickup number.

When the subscription number telephone rings, refer to appendix III 6.3, BLF LED will turn red at this time. At



this point, press the BLF button to answer the incoming call from the subscribed number.

# 9.2 BLF List

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

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

|                   | SIP SIP Hot                           | spot Dial Plan | Action Plan Basic Settings             | RTCP-XR      |
|-------------------|---------------------------------------|----------------|--|--------------|
|                   | Register bettings >>                  |                |  |              |
| › System          | Basic Settings >>                     |                |  |              |
| > Network         | Codecs Settings >>                    |                |  |              |
|                   | Video Codecs >>                       |                |  |              |
| > Line            | Advanced Settings >>                  |                |  |              |
| > Phone settings  | Use Feature Code:                     |                |  |              |
| · Filone settings | Enable DND:                           |                | DND Disabled:                          |              |
| > Phonebook       | Enable Call Forward<br>Unconditional: |                | Disable Call Forward<br>Unconditional: |              |
|                   | Enable Call Forward on<br>Busy:       |                | Disable Call Forward on Busy:          |              |
| > Call logs       | Enable Call Forward on<br>No Answer:  |                | Disable Call Forward on No<br>Answer:  |              |
| Function Key      | Enable Blocking<br>Anonymous Call:    |                | Disable Blocking Anonymous<br>Call:    |              |
| · Function Rey    | Call Waiting On Code:                 |                | Call Waiting Off Code:                 |              |
| > Application     | Send Anonymous On<br>Code:            |                | Send Anonymous Off Code:               |              |
|                   |                                       | _              | Session Timeout                        | 0 second(s)  |
| > Security        | Enable Session Timer:                 |                |  | 0 second(s)  |
|                   | Enable BLF List:                      |                | BLF List Number:                       |              |
| > Device Log      | Response Single Codec:                |                | BLF Server:                            |              |
|                   | Keep Alive Type:                      | UDP 🗸          | Keep Alive Interval:                   | 30 second(s) |
|                   | Keep Authentication:                  |                | Blocking Anonymous Call:               |              |

Picture 64 - Configure the BLF List functionality.

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

|   | Dsskey Transf | er I | Mode Make | a New ( 🔻 | Dsskey H<br>Apply |    | Page: None 🔻 |   |           |               |               |
|---|---------------|------|-----------|-----------|-------------------|----|--------------|---|-----------|---------------|---------------|
|   | Page1 Pag     | je2  |           |           |                   |    |              |   | Delete A  | dd New Page   |               |
| Key   | Туре          |      | Name      | Value     | Subty             | pe | Line         |   | Media     | PickUp Number | Icon Color    |
| oss   |               |      |           |           |                   |    |              |   |           |               |               |
| Key   | BLF List Key  | •    |           |           | None              | •  | 8325@SIP1    | ۳ | DEFAULT V |               | Default Green |
|   |               |      |           |           |                   |    |              |   |           |               |               |
| SS<br>(ey   | None          | •    |           | 7         | None              |    | AUTO         | v | DEFAULT V |               | Default Green |
| ey  | NUTE          | -    |           | J [       | None              | •  | AUTO         | • | DEFAULT V |               | Delauri Green |
| SS  |               |      |           |           |                   |    |              |   |           |               |               |
| (ey   | None          | •    |           |           | None              |    | AUTO         | ۳ | DEFAULT 🔻 |               | Default Green |
|   |               |      |           |           |                   |    |              |   |           |               |               |
| DSS   |               | _    |           |           |                   |    |              |   |           |               |               |
| <ey< td=""><td>None</td><td>•</td><td></td><td></td><td>None</td><td>•</td><td>AUTO</td><td>•</td><td>DEFAULT 🔻</td><td></td><td>Default Green</td></ey<> | None          | •    |           |           | None              | •  | AUTO         | • | DEFAULT 🔻 |               | Default Green |



#### Picture 65 - BLF List number display

## 9.3 Record

The device supports recording during a call.

## 9.3.1 Local Record (USB flash disk A.K.A. Thumb Drive)

Calls at your phone may be recorded to a USB flash drive. IP9g and IP11g both support a USB flash drive for this purpose. This is an optional feature and requires that you obtain a USB drive for the purpose. When selecting a USB Drive obtain one that has a high access rate for the best possible results.

When using local recording, it is necessary to start recording on the phone page [**Application**] >> [**Manage recording**], select the local type and set the voice coding.

The webpage is as follows:

| Record Setting                 |               |           |           |
|--------------------------------|---------------|-----------|-----------|
| Enable Record:<br>Record Type: | ✓             | Y         |           |
| Voice Codec:                   | G729 <b>v</b> | Apply     |           |
| Recording List                 |               |           |           |
|                                | Index         | File Name | File Size |
|                                |               |           | Delete    |

Picture 66 - Local Record

Local recording steps:

● Plug the U disk into the USB port of the phone, open the recording on the web page, and set the recording type as local recording.

● □ Set DSSkey type as key event and type as record in the phone/web interface.

- Set up one line call and press the recording key (set DSSkey).
- $\bullet \Box$  End the recording. End the call.

View local recording:

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

Listen to the record:

- Enter [Menu] >> [Application] >> [USB].
- Enter [**USB**] to view the recording file.

• Select the recording file that you want to listen to and click the "play" button of Soft key to listen to the recording.

#### 9.3.2 Server Record

When using the network server to record, it is necessary to open the recording in the phone web page **[Application]** >> **[Manage recording]**. The type is selected as network, and the address and port of the



recording server are filled in and the voice coding is selected. The web is as follows:

| Reco | ord Setting   |  |            |              |           |        |
|------|---|--|------------|--------------|-----------|--------|
|      | Enable Record:<br>Record Type:<br>Voice Codec:<br>Server Address: | ✓       Network       PCMU       0.0.0.0 | ▼<br>Apply | Server Port: | 10000     |        |
| Reco | ording List   |  |            |              |           |        |
|      |   | Index                                    |            | File Name    | File Size |        |
|      |   |  |            |              |           | )elete |

Picture 67 - Web server recording

Note: to be used with Fanvil recording software.

## 9.3.3 SIP INFO Record

The phone is registered with a server that supports SIP INFO recording. After registering the account, check the recording module of [**Application**] >> [**Manage recording**] to open the recording, and the recording type is SIP INFO.

| Reco | ord Setting                    |            |       |           |           |  |
|------|--------------------------------|------------|-------|-----------|-----------|--|
|      | Enable Record:<br>Record Type: | ✓ Sip Info | •     |           |           |  |
|      |                                |            | Apply |           |           |  |
| Reco | ording List                    |            |       |           |           |  |
|      |                                | Index      |       | File Name | File Size |  |
|      |                                |            |       |           | Delete    |  |

Picture 68 - Web SIP info recording

# 9.4 Agent

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

Configure agent function: set a DSSkey as agent, press the function key or enter the [Menu] >>

[**Features**] >> [**Agent**] to enter the agent page. The SIP server needs to be configured before the account can be configured.



| Agent       |      |       | 03:05PM           |
|-------------|------|-------|-------------------|
| 1. Туре     | Norr | mal   | <>                |
| 2. Number   |      |       |                   |
| 3. User     |      |       |                   |
| 4. Password |      |       |                   |
| 5. Line     | Line | 1     | $\langle \rangle$ |
| Return      | Left | Right | Logon             |

Picture 69 - Configure the agent account in normal mode.

| Agent       |     |             | 03:06PM    |
|-------------|-----|-------------|------------|
| 1. Туре     | н   | lotel Guest | <>         |
| 2. Number   |     |             |            |
| 3. Password |     |             |            |
| 4. Line     | Li  | ine 1       | $\diamond$ |
| 5. CallLog  | S   | ave All     | <>         |
| Return      | 123 | Delete      | Logon      |

Picture 70 - Configure the proxy account-hotel Guest mode.

| Table | 12 - | Agency | mode |
|-------|------|--------|------|
|-------|------|--------|------|

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

Using agent functions:

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



| Agent       |      |        | 03:07PM           |
|-------------|------|--------|-------------------|
| 1. Туре     | Norr | mal    | $\langle \rangle$ |
| 2. Number   | 654  | 3      |                   |
| 3. User     |      |        |                   |
| 4. Password |      |        |                   |
| 5. Line     | Line | 1      | $\mathbf{O}$      |
| Return      | 123  | Delete | Logon             |

Picture 71 - Agent logon page

# 9.5 Intercom

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

|                | Features                     | Media Settings | MCAST                                | Action                        | Time/Date       | Time Plan | Tone |
|----------------|------------------------------|----------------|--------------------------------------|-------------------------------|-----------------|-----------|------|
| › System       |                              |                |                                      |                               |                 |           |      |
| > Network      | Basic Settings >>            | >              |                                      |                               |                 |           |      |
|                | Tone Settings >>             | •              |                                      |                               |                 |           |      |
| > Line         | DND Settings >>              |                |                                      |                               |                 |           |      |
| Phone settings | DND Option:<br>Enable DND 1  |                | Off                                  |                               |                 |           |      |
| > Phonebook    | DND Start Tir<br>DND End Tim |                | 15     ✓     0       17     ✓     30 | <ul><li>✓</li><li>✓</li></ul> |                 |           |      |
| › Call logs    | Intercom Setting             | s >>           |                                      |                               |                 |           |      |
|                | Enable Interc                | om:            | <b>2</b>                             | Enable                        | Intercom Mute:  |           |      |
| › Function Key | Enable Interc                | om Tone:       |                                      | Enable                        | Intercom Barge: |           |      |

## Picture 72 - 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<br>Mute  | Enable mute mode during the intercom call   |
| Enable Intercom<br>Tone  | If the incoming call is intercom call, the phone plays the intercom tone  |
| Enable Intercom<br>Barge | Enable Intercom Barge by selecting it, the phone auto answers the intercom call during a call. If the current call is intercom call, the phone will reject the second intercom call |



# 9.6 MCAST

This feature allows users to make some kind of broadcast call to people who are in multicast groups. Users can configure a multicast DSS Key on the phone, which allows users 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.

|                | Features                        | Media Settings | MCAST | Action | Time/Date | Time Plan | Tone       | Advanced |
|----------------|---------------------------------|----------------|-------|--------|-----------|-----------|------------|----------|
| › System       |                                 |                |       |        |           |           |            |          |
| › Network      | MCAST Listening<br>Priority:    |                | 1     | ~      |           |           |            |          |
| › Line         | Enable Page P<br>Enable Prio Cł | han:           |       |        |           |           |            |          |
| Phone settings | Enable Emer (<br>Index/Prior    |                | Name  |        | Host:port |           | Channel    |          |
| > Phonebook    | 1                               |                |       |        |           |           | 0 <b>v</b> |          |
| > Call logs    | 3                               |                |       |        |           |           | 0 <b>v</b> |          |
| › Function Key | 5<br>6<br>7                     |                |       |        |           |           |            |          |
| Application    | 8                               |                |       |        |           |           |            |          |
| › Security     | 10                              |                | Apply |        |           |           | 0 🗸        |          |
| > Device Log   | MCAST Dynamic<br>Auto Exit Expi | inori          | 60    |        |           |           |            |          |
|                | Auto Exit Expl                  | nes:           | Apply | · ]    |           |           |            |          |

Picture 73 - 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 DSSKY of Multicast Key which you set.
- Receive end will receive multicast call and play multicast automatically.

# **K**blue

# 9.7 SCA (Shared Call Appearance)

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

http://www.fanvil.com/Uploads/Temp/download/20180920/5ba38181e4e4b.pdf

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

| gister Settings >>       | Created SCA accounts   | The user name and pa<br>account created |              |
|--------------------------|------------------------|---|--------------|
| Line Status:             | Registered             | Activate:                               | 2            |
| Username:                | 2023                   | Authentication User:                    | 2023         |
| Display name:            | 2023                   | Authentication Password:                | •••••        |
| Realm:                   |                        | Server Name:                            |              |
| SIP Server 1:            | soft Server address    | SIP Server 2:                           |              |
| Server Address:          | xblue.us1.ympcloud.com | Server Address:                         |              |
| Server Port:             | 5061                   | Server Port:                            | 5060         |
| Transport Protocol:      | TLS 🗸                  | Transport Protocol:                     | UDP 🗸        |
| Registration Expiration: | 3600 second(s)         | Registration Expiration:                | 3600 second( |
| Proxy Server Address:    |                        | Backup Proxy Server Address:            |              |
| Proxy Server Port:       | 5061                   | Backup Proxy Server Port:               | 5060         |
| Proxy User:              |                        |   |              |
| Proxy Password:          |                        |   |              |

Picture 74 - Register BroadSoft account

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

| SIP Encryption:        |             | RTP Encryption(SRTP):    | Disabled 💌 🕜   |
|------------------------|-------------|--------------------------|----------------|
| Enable Session Timer:  |             | Session Timeout:         | 0 second(s) 🥝  |
| Enable BLF List:       |             | BLF List Number:         | 0              |
| Response Single Codec: |             | BLF Server:              | 0              |
| Keep Alive Type:       | UDP 💌 🧭     | Keep Alive Interval:     | 30 second(s) 🥝 |
| Keep Authentication:   |             | Blocking Anonymous Call: |                |
|                        | _           |                          |                |
| User Agent:            |             | Specific Server Type:    | BroadSoft 🗨 🕜  |
| SIP Version:           | RFC3261 💌 🕜 | Anonymous Call Standard: | None 💌 🔇       |
| Local Port:            | 5060        | Ring Type:               | Default 🗨 🕜    |
| Enable user=phone:     |             | Use Tel Call:            |                |
| Auto TCP:              |             | Enable PRACK:            |                |
| Enable Rport:          |             |                          |                |
|                        |             |                          |                |

Picture 75 - Set BroadSoft server

 If an XBLUEphone needs to enable the SCA function. Specifically, log in to the webpage of the phone set, choose [Line] >> [SIP] >> [Advanced Settings], and select Enable SCA. If SCA is not enabled, the



#### registered line is the private line.

| DNS Mode:                      |                                   | Fachle Long Contacts                  |                                   |
|--------------------------------|-----------------------------------|---------------------------------------|-----------------------------------|
| DINS Mode:                     | Α 💌 🥝                             | Enable Long Contact:                  |                                   |
| Enable Strict Proxy:           | ✓                                 | Convert URI:                          |                                   |
| Use Quote in Display<br>Name:  |                                   | Enable GRUU:                          |                                   |
| Sync Clock Time:               |                                   | Enable Use Inactive Hold:             |                                   |
| Caller ID Header:              | PAI-RPID-Ff 🗸 🕜                   | Use 182 Response for Call<br>waiting: |                                   |
| Enable Feature Sync:           |                                   | Enable SCA:                           |                                   |
| CallPark Number:               |                                   | Server Expire:                        | V (2)                             |
| TLS Version:                   | TLS 1.0 💌 🕜                       | uaCSTA Number:                        |                                   |
| Enable Click To Talk:          |                                   | Enable ChangePort:                    |                                   |
| Flash Mode:                    | Normal 💌                          | Flash Info Content-Type:              |                                   |
| Flash Info Content-<br>Body:   |                                   | PickUp Number:                        |                                   |
| JoinCall Number:               |                                   | Intercom Number:                      |                                   |
| Unregister On Boot:            |                                   | Enable MAC Header:                    |                                   |
| Enable Register MAC<br>Header: |                                   | BLF Dialog Strict Match:              |                                   |
| PTime(ms):                     | Disabled 💌                        | Enable Deal 180:                      |                                   |
| Session Timer T1:              | 500<br>(500~10000)millisecond 🕜   | Session Timer T2:                     | 4000<br>(2000~40000)millisecond 🕜 |
| Session Timer T4:              | 5000<br>(2500~60000)millisecond 🕜 |                                       |                                   |

## Picture 76 - Enable SCA

After an account is configured and successfully registered, you can configure lines whose DSS Key is Shared Call Appearance on the Function Key page to facilitate viewing the call status of the group. Each line key represents a call appearance. Understand the call status by referring to <u>6.3 Appendix III –LED</u>. To facilitate private hold, configure keys whose DSS Key is Private Hold on the Function Key page. Pay

attention that the public hold key is the softkey-hold key during a call.

| Fund            | ction Key Setti | ngs         |           |                      |       |        |     |        |   |               |                 |
|-----------------|-----------------|-------------|-----------|----------------------|-------|--------|-----|--------|---|---------------|-----------------|
|                 | Dsskey Transfer | Mode Make a | a New C 🔻 | Dsskey Home<br>Apply | Page: | None 🔻 | ]   |        |   |               |                 |
|                 | Page1 Page      | 2           |           |                      |       |        |     | Delete | A | dd New Page   |                 |
| Кеу             | Туре            | Name        | Value     | Subtype              |       | Line   |     | Media  |   | PickUp Number | Icon Color      |
| DSS<br>Key<br>1 | Key Event 🔻     | ]           |           | Private Hold         | 8325  | @SIP1  | • D | EFAULT | ¥ |               | Default Green 🔻 |
| DSS<br>Key<br>2 | None 🔻          |             |           | None                 | AUT   | 0 1    | • D | EFAULT | • |               | Default Green 🔻 |
| DSS<br>Key<br>3 | None 🔻          | ]           |           | None                 | AUT   | 0 1    | • D | EFAULT | T |               | Default Green 🔻 |
| DSS<br>Key<br>4 | None 🔻          | ]           |           | None                 | AUT   | 0 1    | v D | EFAULT | ¥ |               | Default Green 🔻 |

#### Picture 77 - Set Private Hold Function Key

- Each phone registered with the BroadSoft server should be configured as above, then the SCA function can be used.
- 2) LED Status



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

| State & Direction           | Local                | Remote              |
|-----------------------------|----------------------|---------------------|
| ldle                        | 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          |

#### Table 15 - LED Status of SCA

### 3) Shared Call Appearance (SCA)

The following lists a couple of instances to facilitate understanding.

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

Scenario 1: When this account receives an incoming call, the phone sets of both the manager and the secretary will receive the call and ring. If the manager is busy, the manager can reject the call and the manager's phone set stops ringing but the secretary's phone set keeps ringing until the secretary rejects/answers the call or the call times out.

Scenario 2: When this account receives an incoming call, if the secretary answers the call first and the manager is required to answer the call, the secretary can press the Public Hold key to hold this call and notify the manager. The manager can press the line key corresponding to the SCA to answer the call. Scenario 3: The manager is on 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 on a call with a customer and requires the secretary to join the call to make records. The secretary can press the corresponding SCA line key to barge in this call.

# 9.8 Message

## 9.8.1 **SMS**

If the service of the line supports the function of the short message, when the other end sends a text message to the number, the user will receive the notification of the short message and display the icon of the new SMS on the standby screen interface.

# **K**blue



Picture 78 - SMS icon

Send messages:

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

View SMS:

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

### Reply to SMS:

- Use the navigation keys to select the standby icon [Message].
- After selecting, press the navigation key [**OK**] to enter the SMS inbox interface.
- Select the message you want to reply to, select Softkey's [**Reply**], edit it, and click Send.

## 9.8.2 MWI (Message Waiting Indicator)

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



Picture 79 - New Voice Message Notification

#### ••• Voice message icon

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

When the phone is in the default standby state,

• The Side Key is pre-installed with a voice message shortcut key - [MWI] key.



- Press [**MWI**] to open the voice message configuration interface and select the line to be configured by pressing the up/down navigation buttons.
- Press the [Edit] button to edit the voice message number. When finished, press the [OK] button to save the configuration.
- In the following picture, Line 2023 shows (0/9) with 0 representing the missed messaged while 9 represents the total number of voice messages.

| Voice Messag  | e    | 03:16PM |
|---------------|------|---------|
| 1. 2023 (0/9) |      |         |
| 2. SIP2 (0/0) |      |         |
| 3. SIP3 (0/0) |      |         |
| 4. SIP4 (0/0) |      |         |
| 5. SIP5 (0/0) |      |         |
| Return        | Edit | Play    |

Picture 80 - Voice message interface

| 2023          |      |       | 03 : 17PM |
|---------------|------|-------|-----------|
| 1. Voice Mail | Enal | oled  | <         |
| 2. Number     | *2   |       |           |
|               |      |       |           |
|               |      |       |           |
|               |      |       |           |
|               |      |       |           |
| Return        | Left | Right | OK        |

Picture 81 - Configure voicemail number.

# 9.9 SIP Hotspot

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

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

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



| Line 258@SIP1            | •              |   |                              |                  |   |
|--------------------------|----------------|---|------------------------------|------------------|---|
| Register Settings >>     |                |   |                              |                  |   |
| Line Status:             | Registered     |   | Activate:                    | ☑ 🕜              |   |
| Username:                | 258            | 0 | Authentication User:         | 0                | • |
| Display name:            | 258            | 0 | Authentication Password:     | 0                | • |
| Realm:                   |                | 0 | Server Name:                 | 0                | • |
|                          |                |   |                              |                  |   |
| SIP Server 1:            |                |   | SIP Server 2:                |                  |   |
| Server Address:          | 172.16.1.2     | 0 | Server Address:              | 0                | ) |
| Server Port:             | 5060           | 0 | Server Port:                 | 5060             | • |
| Transport Protocol:      | UDP 🖵 🕜        |   | Transport Protocol:          | UDP 💌 🕜          |   |
| Registration Expiration: | 3600 second(s) | 0 | Registration Expiration:     | 3600 second(s) 🕜 | ) |
|                          |                |   |                              |                  |   |
| Proxy Server Address:    |                | 0 | Backup Proxy Server Address: | ()               | ) |
| Proxy Server Port:       | 5060           | 0 | Backup Proxy Server Port:    | 5060             | ) |
| Proxy User:              |                | 0 |                              |                  |   |
| Proxy Password:          |                | 0 |                              |                  |   |

## Picture 82 - Register SIP account

## Table 16 - 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 will be   |
| Mode            | a "SIP hotspot Client"   |
|                 | Either the Multicast or Broadcast is ok. If you want to limit the broadcast packets, |
| Monitor Type    | 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:



|                |                     | SIP Hotspot Dial Plan | Action Plan | Basic Settings | RTCP-XR |
|----------------|---------------------|-----------------------|-------------|----------------|---------|
|                |                     |                       |             |                |         |
| > System       |                     |                       |             |                |         |
| > Network      | No Registration     |                       |             |                |         |
|                | SIP Hotspot Setting | 15                    |             |                |         |
| ÷ Line         | Enable Hotspot:     | Disabled V            |             |                |         |
|                | Mode:               | Client 🗸              |             |                |         |
| Phone settings | Monitor Type:       | Broadcast 🗸           | ]           |                |         |
|                | Monitor Address     | 224.0.2.0             |             |                |         |
| > Phonebook    | Local Port:         | 16360                 |             |                |         |
|                | Name:               | SIP Hotspot           |             |                |         |
| > Call logs    | Line Settings       |                       |             |                |         |
|                | Line 1:             |                       | Enable      | ed 🗸           |         |
| > Function Key | Line 2:             |                       | Enable      | ed 🗸           |         |

Picture 83 - SIP hotspot server configuration

#### Configure SIP hotspot client:

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

|                | SIP             | SIP Hotspot | Dial Plan   | Action Plan   | Basic Settings | RTCP-XR      |      |
|----------------|-----------------|-------------|-------------|---------------|----------------|--------------|------|
| › System       |                 |             |             |               |                |              |      |
|                | Hotspot Table   |             |             |               |                |              |      |
| > Network      | IP              | Se          | rver name   | Online Status | Connection 9   | Status Alias | Line |
| • Line         | SIP Hotspot Set | tings       |             |               |                |              |      |
|                | Enable Hots     | pot:        | Enabled V   |               |                |              |      |
| Phone settings | Mode:           |             | Client 🗸    |               |                |              |      |
|                | Monitor Typ     | e:          | Broadcast 🗸 |               |                |              |      |
| > Phonebook    | Monitor Add     | ress:       | 224.0.2.0   |               |                |              |      |
|                | Local Port:     |             | 16360       |               |                |              |      |
| > Call logs    | Name:           |             | SIP Hotspot |               |                |              |      |
|                | Line Settings   |             |             |               |                |              |      |
| > Function Key | Line 1:         |             |             | Enable        | d 🗸            |              |      |
|                | Line 2:         |             |             | Enable        |                |              |      |
| Application    |                 |             |             |               |                |              |      |

#### Picture 84 - SIP hotspot client configuration

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

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



# **10 Phone Settings**

## **10.1 Basic Settings**

## 10.1.1 Language

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

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

| L | angu       | age      |    |      | 03:27PM |
|---|------------|----------|----|------|---------|
|   | 0          | English  |    |      |         |
|   | $\bigcirc$ | 简体中文     |    |      |         |
|   | $\bigcirc$ | 繁體中文     |    |      |         |
|   | $\bigcirc$ | Русский  |    |      |         |
|   | $\bigcirc$ | Italiano |    |      |         |
|   | Retu       | Irn      | Up | Down | ОК      |

Picture 85 - 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:

| Kolue Pils       |                                 |                |         |                |       |              | Default password is in use. Please chang | e English V<br>English<br>中文<br>筆醋中文   |
|------------------|---------------------------------|----------------|---------|----------------|-------|--------------|--|--|
|                  | Information Account             | Configurations | Upgrade | Auto Provision | Tools | Reboot Phone |  | Русский<br>Italiano<br>Deutsch         |
| > System         |                                 |                |         |                |       |              |  | Français<br>עברית<br>Español<br>Català |
| › Network        | Syslog<br>Enable Syslog:        |                |         |                |       |              |  | Euskera<br>Galego<br>Türkçe            |
| › Line           | Server Address:<br>Server Port: | 0.0.0.0        |         |                |       |              |  | Slovenian<br>česká<br>Nederlands       |
| › Phone settings | APP Log Level:<br>Export Log:   | Information    | ~       |                |       |              |  | 한국어<br>Українська<br>Português         |
| > Phonebook      |                                 | Apply          |         |                |       |              |  |  |

#### Picture 86 - Language setting on Web page

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

## 10.1.2 Time & Date

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

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



| Time & Date       | 03:2                         | 9PM               |
|-------------------|------------------------------|-------------------|
| 1. Mode           | SNTP                         | <>                |
| 2. SNTP Server    | us.pool.ntp.org              |                   |
| 3. Time Zone      | (UTC-6) Manitoba, Easter Isl |                   |
| 4. Format         | WW MMM DD                    | $\langle \rangle$ |
| 5. 12 Hours Clock | Enabled                      | <>                |
| Return Left       | Right Of                     | <                 |

Picture 87 - Set time & date on phone.

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

|                | Features Media Settings       | MCAST A                 | ction Time/Date     | Time Plan | Tone | Advanced |
|----------------|-------------------------------|-------------------------|---------------------|-----------|------|----------|
| > System       |                               |                         |                     |           |      |          |
| › Network      | Network Time Server Settings  |                         |                     |           |      |          |
| > Network      | Time Synchronized via SNTP    |                         |                     |           |      |          |
|                | Time Synchronized via DHCP    |                         |                     |           |      |          |
| › Line         | Time Synchronized via DHCPv6  |                         |                     |           |      |          |
|                | Primary Time Server           | us.pool.ntp.org         |                     |           |      |          |
| Phone settings | Secondary Time Server         | time.nist.gov           |                     |           |      |          |
|                | Time zone                     | (UTC-6) Manitoba,East   | ter Islands,Mexic 🗸 |           |      |          |
| Phonebook      | Resync Period                 | 60                      | second(s)           |           |      |          |
| > Call logs    | Time/Date Format              |                         |                     |           |      |          |
| / Call logs    | 12-hour clock                 |                         |                     |           |      |          |
| Function Key   | Time/Date Format              | WW MMM DD               | MON JUL 10          |           |      |          |
| > Application  |                               |                         |                     |           |      |          |
|                | Daylight Saving Time Settings |                         |                     |           |      |          |
| Security       | Location                      | United States(Central 1 | īme) 🗸              |           |      |          |
|                | DST Set Type                  | Automatic               | <b>v</b>            |           |      |          |
| > Device Log   | Fixed Type                    | By Date                 | ¥                   |           |      |          |
|                | Offset                        | 60                      | Minute              |           |      |          |
|                |                               | Start                   | End                 |           |      |          |
|                | Month                         | March                   | ✓ November          | ~         |      |          |
|                | Month day                     | 1                       | ▼ 1                 | ~         |      |          |
|                | Hour(s)                       | 2                       | ♥ 2                 | ~         |      |          |
|                |                               | Apply                   |                     |           |      |          |

Picture 88 - Set time & date on webpage.

Table 17 - Time Settings Parameters

| Parameters  | Description   |  |  |  |  |
|-------------|---|--|--|--|--|
|             | Auto/Manual   |  |  |  |  |
| Mode        | Auto: Enable network time synchronization via SNTP protocol, default enabled. |  |  |  |  |
|             | Manual: User can modify data manually.  |  |  |  |  |
| SNTP Server | SNTP server address   |  |  |  |  |
| Time zone   | Select the time zone  |  |  |  |  |
|             | Select time format from one of the followings:                                |  |  |  |  |
| Time format | ■ 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 set the phone screen parameters through both of the phone interface and web interface.

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

| Screen Setting        |         | 03:31PM           |
|-----------------------|---------|-------------------|
| 1. ht Active Level    | 15      | <                 |
| 2. Backlight Inactive | 4       | <>                |
| 3. Backlight Time     | 60      | $\langle \rangle$ |
| 4. Screensaver        | Enabled | $\langle \rangle$ |
| 5. Timeout to Screen  | 7200    | $\bigcirc$        |
| Return Left           | Right   | OK                |

Picture 89 - Set screen parameters on phone.

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

#### 10.1.3.1 Brightness and backlight

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

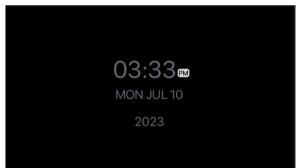
# **K**blue

| Screen Configuration      |                     |
|---------------------------|---------------------|
| Backlight Active Level:   | 12 (1~16)           |
| Backlight Inactive Level: | 4 (0~16)            |
| Backlight Time:           | 45 (0~120)second(s) |
| Screensaver               | Disabled 💌          |
|                           |                     |
|                           | Apply               |

Picture 90 - Page screen Settings

## 10.1.3.2 Screen Saver

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



Picture 91 - Phone screen saver

## 10.1.4 **Ring**

When the device is in the default standby mode,

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

## 10.1.5 Voice Volume

When the device is in the default standby mode,

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

# **K**blue

## **10.1.6 Greeting Words**

When the device is in the default standby mode,

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

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

## 10.1.7 **Reboot**

When the device is in the default standby mode,

- Press soft-button [Menu] till you find the [Basic] item.
- Enter [**Basic**] item till you find [**Reboot**] item.
- Press [OK] a prompt message, "restart now," prompts the user.
- Press [OK] to restart the phone or [Cancel].
   The phone is in standby mode,
- The configurable [**OK**] key is the restart key. Press [**OK**], a prompt message, "restart now" prompts the user.
- Press [OK] to restart the phone or [Cancel] to exit.

# 10.2 Phone Book

## **10.2.1 Local Contact**

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

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

| Contact         |        |      | 03:35PM |
|-----------------|--------|------|---------|
| 1. Local Cont   | tacts  |      |         |
| 2. Black list ( | 0)     |      |         |
| 3. White List   | (0)    |      |         |
| 4. Cloud Cor    | ntacts |      |         |
| 5. LDAP         |        |      |         |
| Return          | Up     | Down | OK      |

Picture 92 - Phone book screen

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



| Local Contacts      |           | 03:36PM |
|---------------------|-----------|---------|
| 1. All Contacts (0) |           |         |
|                     |           |         |
|                     |           |         |
|                     |           |         |
|                     |           |         |
| Return              | Add Group | ОК      |

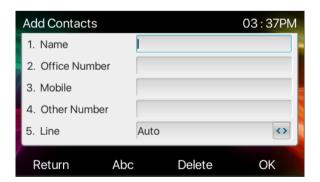
Picture 93 - Local Phone book

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

## 10.2.1.1 Add / Edit / Delete Contact

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

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



Picture 94 - Add New Contact

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

To delete a contact, user should move the record indicator to the position of the contact to be deleted, press [**Option**] >> [**Delete**] button and confirm with [**OK**].

#### 10.2.1.2 Add / Edit / Delete Group

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



contacts in the group, and delete a group.

- To add a group, press [Add Group] button.
- To delete a group, press [**Option**] >> [**Delete**] button.
- To edit a group, press [Edit] button.
- The Number behind the group name means the total contacts number of selected groups.

| Local Contacts      |           | 03:36PM |
|---------------------|-----------|---------|
| 1. All Contacts (0) |           |         |
|                     |           |         |
|                     |           |         |
|                     |           |         |
|                     |           |         |
|                     |           |         |
| Return              | Add Group | OK      |

Picture 95 - Group List

#### 10.2.1.3 Browse and Add / Remove Contacts in Group

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

|     | Contacts |        |     | •    |
|-----|----------|--------|-----|------|
|     | 123      |        |     |      |
| •   | 456      |        |     |      |
|     |          |        |     |      |
|     |          |        |     |      |
|     |          |        |     |      |
| Ret | turn     | Option | Add | Dial |

Picture 96 - Browsing Contacts in a Group

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

| Add Contacts     |      |        | 03:37PM      |
|------------------|------|--------|--------------|
| 1. Name          | I    |        |              |
| 2. Office Number |      |        |              |
| 3. Mobile        |      |        |              |
| 4. Other Number  |      |        |              |
| 5. Line          | Auto |        | $\mathbf{O}$ |
| Return A         | \bc  | Delete | ОК           |

Picture 97 - Add Contacts in a Group

## 10.2.2 Blacklist

The device Support 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 X210 device. It can be added directly on [Menu] >> [Contact] >> [Blacklist].
- Select any number in the phone book (both local and network) for configuration addition.
- Select any number in the call log for configuration addition.

| Black list |        |     | 03:39PM |
|------------|--------|-----|---------|
| 1. 123     |        |     |         |
| 2. 124     |        |     |         |
|            |        |     |         |
|            |        |     |         |
|            |        |     |         |
| Return     | Option | Add | Dial    |

Picture 98 - 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.

| Resti | ricted Incoming Calls | Add           | Delete Delete All |
|-------|-----------------------|---------------|-------------------|
|       |                       | Caller Number | Line              |
|       |                       | 123           | ALL               |
|       |                       | 135           | ALL               |

#### Picture 99 - Web Blacklist

## 10.2.3 Cloud Phone Book

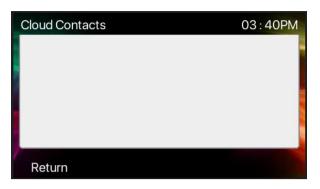
#### **10.2.3.1** Configure Cloud Phone book

Cloud phonebook allows user to configure the device by downloading a phonebook from a cloud server. This is convenient for office users to use the phonebook from a single source and save the effort to create and maintain the contact list individually. It is also a useful tool to synchronize his/her phonebook from a personal mobile phone to the device with 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] >> [PhoneBook] >> [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 100 - Cloud phone book list

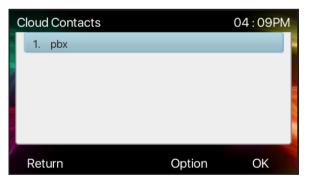
#### 10.2.3.2 Downloading Cloud Phone book

In cloud phone book screen, users can open a cloud phone book by pressing [**OK**] / [**Enter**] button. The device will start downloading the phone book. The user will be prompted with a warning message if the download fails,

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



Picture 101 - Downloading Cloud Phone book.



Picture 102 - Browsing Contacts in Cloud Phone book.

# 10.3 Call Log

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



In the call logs interface, users may browse the call logs with up/down navigator keys.

Each call log record is presented with 'call type' and 'call party number / name'. Users can check further call log detail by pressing [OK] button and dial the number with [Dial] button or add the call log number to phonebook with pressing [Option] >> [Add to Contact].

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

| 4 | All             | In        | Out        | Miss          |  |
|---|-----------------|-----------|------------|---------------|--|
|   | 🤇 6400          | 640       | 0 10       | ) Jul 11:09AM |  |
|   | 🤇 6400          | 640       | 0 10       | ) Jul 10:39AM |  |
|   | 🔇 JessD 2       | 015 2015  | 5 10       | ) Jul 10:09AM |  |
|   | 🔇 JessD 2       | 015 2015  | 5 10       | ) Jul 10:02AM |  |
|   | <b>V</b> 913599 | 2583 9135 | 5992583 10 | ) Jul 10:01AM |  |
|   | Return          | Option    | Delete     | Dial          |  |

Picture 103 - 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  |               |            |
| F - Forward Call Log |               |            |
|                      | ▲ All         | In Out     |
|                      | 9135992583    | 9135992583 |
|                      | 6400          | 6400       |
|                      | 6400          | 6400       |
|                      | 🔇 JessD 2015  | 2015       |
|                      | \$ 9135992583 | 9135992583 |
|                      | Return Op     | tion Delet |

Picture 104 - Filter call record types

Miss

10 Jul 04:10PM

10 Jul 11:09AM 10 Jul 10:39AM 10 Jul 10:02AM 10 Jul 10:01AM

Dial

Delete

#### **Function Key** 10.4

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



| Dsskey  |      |         | 04 : 12PM         |
|---|------|---------|-------------------|
| 1. Side Dsskey                                | 1-1  |         | <>                |
| <ol> <li>Side Dsskey</li> <li>Type</li> </ol> | Key  | y Event | <>                |
| 3. Key  | Cal  | ll Back | $\langle \rangle$ |
| 4. Name                                       |      |         |                   |
| 5. Dss Theme                                  | Gre  | een     | <>                |
| Return  | Left | Right   | OK                |

Picture 105 - DSS LCD key Page Configuration Screen

The DSS Key could be configured as followings,

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

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

| Fund                                | Function Key Settings |       |                          |         |             |           |               |                 |
|-------------------------------------|-----------------------|-------|--------------------------|---------|-------------|-----------|---------------|-----------------|
| Dsskey Transfer Mode Make a New C 🔻 |                       | · · · | Dsskey Home Page: None 🔻 |         |             |           |               |                 |
|                                     |                       |       |                          | Apply   |             | Dalata    | dd New Dava   |                 |
|                                     | Page1 Page2           | 2     |                          |         |             | Delete    | dd New Page   |                 |
| Кеу                                 | Туре                  | Name  | Value                    | Subtype | Line        | Media     | PickUp Number | Icon Color      |
| DSS                                 |                       |       |                          |         |             |           |               |                 |
| Key                                 | Line v                |       |                          | None 🔻  | 8325@SIP1 • | DEFAULT V |               | Default Green 🔻 |
| 1<br>DSS                            |                       |       |                          |         |             |           |               |                 |
| Key                                 | Line v                |       |                          | None 🔻  | SIP2 V      | DEFAULT V |               | Default Green 🔻 |
| 2                                   |                       |       |                          |         |             |           |               |                 |
| DSS                                 |                       |       |                          |         |             |           |               |                 |
| Key                                 | None v                |       |                          | None 🔻  | AUTO 🔻      | DEFAULT 🔻 |               | Default Green 🔻 |
| 3                                   |                       |       |                          |         |             |           |               |                 |
| DSS<br>Key                          | None 🔻                |       | 1                        | None 🔻  | AUTO 🔻      | DEFAULT V |               | Default Green 🔻 |
| 4                                   | NUIG                  |       |                          | None    | 1010        | DEFAULT V |               | Delaur Oreen +  |

#### Picture 106 - DSS settings

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

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



# 10.5 Wi-Fi

The device supports wireless Internet access and requires the use of a USB wi-fi adapter specified by location; Therefore, the device needs to support U disk. Please refer to <u>4.2 hardware description</u> for the supported model.

When the device is in the default standby mode,

- Press soft-button [Menu] till you find the [Basic] item.
- Press [WLAN] to enter the setting interface.
- Select the wireless network and use the left and right keys to activate it. Enable the device to search the current wireless network automatically.
- Select to the available network, enter the username and password to connect successfully.

Tip: if no wireless USB dongle is inserted, the prompt "wireless adapter has been removed" will appear. If a USB dongle is plugged in, the wireless network will be a priority network even if the network cable is plugged in.

| WLAN             |               | 03:28PM    | 102      | WED            | SEP 27 | (î~     |
|------------------|---------------|------------|----------|----------------|--------|---------|
| 1. WLAN          | Enabled       | <>         |          |                | 03     | 28 рм   |
| 2. WLAN Status   | Connected     |            | C Hold 1 |                | 00     | 20 Pivi |
| 3. Known Netw    | 1 Known Net   | work       | Hold 2   | -              | ~      |         |
| 4. Available Net | 3 Available N | letwork(s) |          |                |        |         |
|                  |               |            | Hold 3   | 6 <sup>1</sup> |        |         |
|                  |               |            |          |                |        |         |
| Return           | Scan          | OK         | VMail    | Menu           | CFwd   | More    |

Picture 107 - WIFI settings

## **10.6 Inputting Password for Wi-Fi / Special Characters**

Inputting characters is simple using the dial pad keys. However various special characters are accessible with certain key combinations. While inputting characters the 2<sup>nd</sup> soft key under the Call Display (LCD Screen) may be 123, abc, ABC, Abc, or 2aB.

| Keys | Softkey 2  | Special Characters/Symbols                  |
|------|------------|---|
|      |            | (For each sequential press of the key)      |
| 1    | 2aB / 123  | 1   |
| 2    | abc / ABC: | All Upper or lowercase for alpha characters |
|      | Abc:       | First letter capital on each word           |
|      | 2aB:       | 2, a, b, c, A, B, C                         |
|      | 123:       | Number only                                 |
| 3    | abc / ABC: | All Upper or lowercase for alpha characters |
|      | Abc:       | First letter capital on each word           |



|   | 2aB:                        | 3, a, b, c, A, B, C       |
|---|-----------------------------|---------------------------|
|   | 123:                        | Number only               |
| 4 | Same as above               |                           |
| 5 | Same as above               |                           |
| 6 | Same as above               |                           |
| 7 | Same as above               |                           |
| 8 | Same as above               |                           |
| 9 | Same as above               |                           |
| 0 | Same as above               |                           |
| 1 | abc / ABC / Abc             | @:;()<>[]{}               |
| * | abc / ABC / Abc / 2aB / 123 | . , * / + - : _ = ' ? \ " |
| # | abc / ABC / Abc / 2aB / 123 | #^!&\$%£¥¤~;¿§            |

# 10.7 Headset

## **10.7.1 Wired Headset**

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

| Ň              | Features Media Setting  | IS MCAST    | Action | Time/Date               | Time Plan          | Tone | Advanced |
|----------------|-------------------------|-------------|--------|-------------------------|--------------------|------|----------|
| › System       |                         |             |        |                         |                    |      |          |
| > Network      | Basic Settings >>       |             |        |                         |                    |      |          |
| > Network      | Enable Call Waiting:    |             |        | Enable Call Transfer:   |                    |      |          |
| > Line         | Semi-Attended Transfer: |             |        | Enable 3-way Conferen   | ce: 🗹              |      |          |
| / Line         | Enable Auto on Hook:    |             |        | Auto HangUp Delay:      | 0<br>(0or30)second |      |          |
| Phone settings | Ring From Headset:      | Disabled 🗸  |        | Enable Auto Headset:    |                    | ()   |          |
|                | Enable Silent Mode:     |             |        | Disable Muterior King.  |                    |      |          |
| > Phonebook    |                         |             |        |                         |                    |      |          |
|                | Enable Default Line:    | <b>~</b>    |        | Enable Auto Switch Line | e: 🔽               |      |          |
| > Call logs    | Default Ext Line:       | 2023@SIP1 ¥ |        | Ban Outgoing:           |                    |      |          |
|                | Default Ans Meder       | Audio az    |        | Default Dial Moder      | Audio ad           |      |          |

Picture 108 - Headset function settings

## 10.7.2 EHS Headset

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



| EHS     |      |      | 04 : 18PM         |
|---------|------|------|-------------------|
| 1. EHS  | Enal | oled | $\langle \rangle$ |
| I. LING |      | loca |                   |
|         |      |      |                   |
|         |      |      |                   |
|         |      |      |                   |
|         |      |      |                   |
|         |      |      |                   |
|         |      |      |                   |

Picture 109 - EHS Headset setting

## **10.7.3 Bluetooth Headset**

The device supports Bluetooth application and can be compatible with Bluetooth headsets with CSR 4.0 chip. It needs to use USB Bluetooth adapter specified by location. Therefore, the device needs to support U disk. Please refer to 4.2 hardware description for the supported model.

When the device is in the default standby mode,

- Press soft-button [Menu] till you find the [Basic] item.
- Press [**Bluetooth**] to enter the setup interface.
- Select Bluetooth and use the left and right keys to enable Bluetooth. Select Paired Device. If no paired is displayed, press [Scan] key to search and select the scanned device to connect.

| Bluetooth        |                   | 04 : 19PM | Searching      | 04 : 20PM         |
|------------------|-------------------|-----------|----------------|-------------------|
| 1. Bluetooth     | Enabled           | <>        | 1. 🎧 VIZIO V51 | 80:30:49:F0:37:21 |
| 2. Paired Device | No Paired         |           |                |                   |
| 3. My Dev Name   | Fanvil X6U        |           |                |                   |
| 4. My Dev Mac    | 00:A8:59:FF:E9:54 |           |                |                   |
|                  |                   |           |                |                   |
| Return Clea      | r Scan            | OK        | Return         | Link Cancel       |

Picture 110 - 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.

## 10.8 Advanced

## **10.8.1 Line Configurations**

|   | 2023             |      | 04                     | :24PM |
|---|------------------|------|------------------------|-------|
|   | 1. Registration  |      | Enabled                | <>    |
|   | 2. Server Addres | S    | xblue.us1.ympcloud.com |       |
| 1 | 3. Auth. User    |      | 2023                   |       |
|   | 4. Auth. Passwor | d    | *****                  |       |
|   | 5. SIP User      |      | 2023                   |       |
|   | Dut              | 0    | Disks                  | 01/   |
|   | Return           | Left | Right                  | OK    |

Picture 111 - SIP address and account information

Save the adjustment by pressing [OK] when done.

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

| 2023        |    |      | 04:25PM |
|-------------|----|------|---------|
| 1. Basic    |    |      |         |
| 2. Advanced |    |      |         |
|             |    |      |         |
|             |    |      |         |
|             |    |      |         |
| Return      | Up | Down | ОК      |

Picture 112 - Configure Advanced Line Options

## 10.8.2 Network Settings

## 10.8.2.1 Network Settings

#### IP Mode

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

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



| WAN Port   |    |      | 02 : 57PM |
|------------|----|------|-----------|
| 1. IP Mode |    |      |           |
| 2. IPv4    |    |      |           |
| 3. IPv6    |    |      |           |
|            |    |      |           |
|            |    |      |           |
|            |    | 5    | 01/       |
| Return     | Up | Down | OK        |

Picture 113 - Network mode Settings

#### ■ IPv4

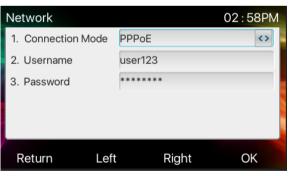
In IPv4 mode, there are 3 connection mode options: DHCP, PPPoE and Static IP.

| Network            |          | 02:57PM |
|--------------------|----------|---------|
| 1. Connection Mode | DHCP     | <       |
| 2. Use DHCP DNS    | Enabled  | <>      |
| 3. Use DHCP Time   | Disabled | <>      |
|                    |          |         |
|                    |          |         |
| Return Lef         | t Right  | ОК      |

Picture 114 - DHCP network mode

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

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



Picture 115 - PPPoE network mode

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

- Username: PPPoE username.
- Password: PPPoE password.



| Network            |               | 02 : 59PM |
|--------------------|---------------|-----------|
| 1. Connection Mode | e Static IP   | <>        |
| 2. IP Address      | 192.168.1.179 |           |
| 3. Mask            | 255.255.255.0 |           |
| 4. Gateway         | 192.168.1.1   |           |
| 5. Primary DNS     | 8.8.8.8       |           |
| Return Le          | eft Right     | ОК        |

Picture 116 - Static IP network mode

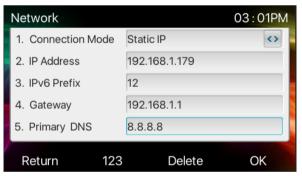
When using Static IP mode, users must configure the IP address manually.

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

#### ■ IPv6

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

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



Picture 117 - IPv6 Static IP network mode

## 10.8.2.2 QoS & VLAN

#### LLDP

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

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

#### ■ CDP

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



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

Table 18 - QoS & VLAN

#### Note: QoS & VLAN details refer to

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

#### 10.8.2.3 VPN

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

For some users, especially enterprise users, a VPN connection might be required to be established before activating 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 webpage [**Network**] >> [**VPN**]. In VPN Mode, check the "Enable VPN" option and select "L2TP", then fill in the L2TP server address, Authentication Username, and Authentication Password in the L2TP section. Press "Apply" then the device will try to connect to the L2TP server.

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

OpenVPN



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

| OpenVPN Configuration file: | client.ovpn |
|-----------------------------|-------------|
| CA Root Certification:      | ca.crt      |
| Client Certification:       | client.crt  |
| Client Key:                 | client.key  |

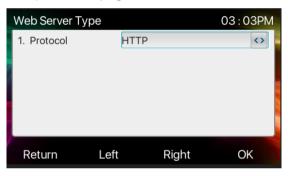
User then upload these files to the device in the web page [**Network**] >> [**VPN**], select OpenVPN Files. Then user should check "Enable VPN" and select "OpenVPN" in VPN Mode and click "Apply" to enable OpenVPN connection.

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

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

## 10.8.2.4 Web Server Type

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



Picture 118 - The phone configures the web server type.

## **10.8.3 Set The Secret Key**

When the device is in the default standby mode,

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

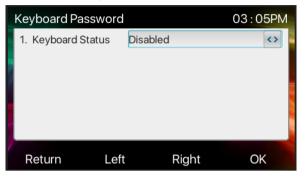
| Menu Password   |        |        | 03:04PM |
|-----------------|--------|--------|---------|
| 1. Current pas  | ssword |        |         |
| 2. New password |        |        |         |
| 3. Confirm pa   | ssword |        |         |
|                 |        |        |         |
|                 |        |        |         |
| Return          | 123    | Delete | OK      |

Picture 119 - Keypad lock password

The menu password is the permission for accessing the advanced setting.



- [Current password] is the password user configured before. If there is no configuration before, the default password is 123.
- [New password] is the new password user to use.
- After configuring the menu password, it will work immediately.
- Keyboard password is used to unlock the phone once it's locked.



Picture 120 - Set keyboard lock password.

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

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



Picture 121 - Phone keypad lock password input interface

| Keyboard Lock Settings |       |
|------------------------|-------|
| Keyboard Password:     | •••   |
| Keyboard Time:         | 0     |
| Enable Keyboard Lock:  |       |
|                        | Apply |

Picture 122 - Web keyboard lock password Settings



## 10.8.4 Maintenance

| • System       |  |                                 |
|----------------|--|---------------------------------|
| System         |  |                                 |
| > Network      | Basic Settings                             |                                 |
| , HELWOIK      | CPE Serial Number:                         | 00100400FV02001000000a859ffe953 |
| › Line         | Authentication Name:                       |                                 |
| > Line         | Authentication Password:                   |                                 |
|                | Configuration File Encryption Key:         |                                 |
| Phone settings | General Configuration File Encryption Key: |                                 |
|                | Download Fail Check Times:                 | 1                               |
| > Phonebook    | Update Contact Interval:                   | 0 (0,>=5)minute(s)              |
|                | Save Auto Provision Information:           |                                 |
| › Call logs    | Download CommonConfig enabled:             |                                 |
|                | Enable Server Digest:                      |                                 |
| > Function Key | Display Provision Prompt:                  | Disable All Provision Prompt    |
| > Application  | DHCP Option >>                             |                                 |
|                | DHCPv6 Option >>                           |                                 |
| > Security     | SIP Plug and Play (PnP) >>                 |                                 |
| › Device Log   | Static Provisioning Server >>              |                                 |
| 7 Device Log   | Autoprovision Now >>                       |                                 |
|                | TR069 >>                                   |                                 |

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

#### Picture 123 - Page auto provision Settings

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

| V | laintenance    |      |      | 04:30PM |
|---|----------------|------|------|---------|
|   | 1. Auto Provis | sion |      |         |
|   | 2. TR069       |      |      |         |
|   |                |      |      |         |
|   |                |      |      |         |
|   |                |      |      |         |
| 1 | Return         | Up   | Down | OK      |

Picture 124 - Phone auto provision settings

XBLUE 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 **XBLUE Auto Provision in** 

| Table 19 - A | uto Provision |
|--------------|---------------|
|--------------|---------------|

| Parameters          | Description                      |
|---------------------|----------------------------------|
| Basic settings      |                                  |
| CPE Serial Number   | Display the device SN            |
| Authentication Name | The username of provision server |



| Authentication Password    | The password of provision server   |  |  |
|----------------------------|--|--|--|
| Configuration File         | If the device configuration file is encrypted, user should add the encryption  |  |  |
| Encryption Key             | key here   |  |  |
| General Configuration File |  |  |  |
| Encryption Key             | 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 username and password. If the provision URL            |  |  |
| Information                | is kept, the information will be kept.   |  |  |
| Download Common            |  |  |  |
| Config enabled             | Whether phone will download the common configuration file.                     |  |  |
| Frakla Camara Dinast       | When the feature is enabled, if the configuration of server is changed, the    |  |  |
| Enable Server Digest       | phone will download and update.  |  |  |
| DHCP Option                |  |  |  |
|                            | Configure DHCP option, DHCP option supports DHCP custom option                 |  |  |
| Option Value               | DHCP option 66   DHCP option 43, 3 methods to get the provision URL.           |  |  |
|                            | The default is Option 66.  |  |  |
|                            | Custom Option value is allowed from 128 to 254. The option value must be       |  |  |
| Custom Option Value        | same as server define.   |  |  |
| Enable DHCP Option 120     | Use Option120 to get the SIP server address from DHCP server.                  |  |  |
| SIP Plug and Play (PnP)    |  |  |  |
|                            | Whether PnP is enabled or not. If PnP is enabled, the phone will send a SIP    |  |  |
|                            | SUBSCRIBE message with broadcast method. Any server that can support           |  |  |
| Enable SIP PnP             | the feature will respond and send a Notify with URL to phone. Phone could      |  |  |
|                            | get the configuration file with the URL.                                       |  |  |
| Server Address             | Broadcast address. As default, it is 224.0.0.0.                                |  |  |
| Server Port                | PnP port   |  |  |
| Transport Protocol         | PnP protocol, TCP or UDP.  |  |  |
| Update Interval            | PnP message interval.  |  |  |
| Static Provisioning Server |  |  |  |
| Server Address             | Provisioning server address. Support both IP address and domain address.       |  |  |
|                            | The configuration file name. If it is empty, the phone will request the        |  |  |
|                            | common file and device file which is named as its MAC address.                 |  |  |
| Configuration File Name    | The file name could be a common name, \$mac.cfg, \$input.cfg. The file         |  |  |
|                            | format supports CFG/TXT/XML.   |  |  |
| Protocol Type              | Transferring protocol type , supports FTP、TFTP、HTTP and HTTPS                  |  |  |
|                            |  |  |  |



| Update Interval       | Configuration file update interval time. As default it is 1, means the phone |  |
|-----------------------|--|--|
|                       | will check the update every 1 hour.  |  |
|                       | Provision Mode.  |  |
| Lindata Mada          | 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  |  |  |
| Tone                  | If TR069 is enabled, there will be a prompt tone when connecting.            |  |
| TLS Version           | TLS version (TLS 1.0, TLS 1.1, TLS 1.2)                                      |  |
| INFORM Sending Period | INFORM signal interval time. It ranges from 1s to 999s                       |  |
| STUN Server Address   | Configure STUN server address  |  |
| STUN Enable           | To enable STUN server for TR069  |  |

## 10.8.5 Factory Reset

- 1) The phone is in default standby mode.
- Press [Menu] to find [Advanced Settings], and press [OK].
- Press [Advanced Settings] to enter the password (default password is 123) to enter the interface.
- Press the [Restore factory Settings] 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.
- 2) In standby, press and hold the [OK] button for 6S to perform the reset operation



# **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 username and password to log in.

# 11.2 System >> Information

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

- Model
- Hardware Version
- Software Version
- Uptime

And summarization of network status,

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

Besides, summarization of SIP account status,

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

## 11.3 System >> Account

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

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

# 11.4 System >> Configurations

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

#### Clear Configurations

Select the module in the configuration file to clear.

SIP: account configuration.

AUTOPROVISION: automatically upgrades the configuration.

TR069:TR069 related configuration

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

DSS Key: DSS Key configuration

# Kplue

## Clear Data 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 managers 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 <u>13 Trouble</u> <u>Shooting</u> for more detail.

# 11.8 System >> Reboot Phone

This page can restart the phone.



# 12 Network >> Basic

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

## 12.1 Network >> Service Port

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

| Service Port Settings |                  |   |
|-----------------------|------------------|---|
| Web Server Type:      | HTTP 💌           | 0 |
| Web Logon Timeout:    | 15 (10~30)Minute | 0 |
| web auto login:       |                  |   |
| HTTP Port:            | 80               | 0 |
| HTTPS Port:           | 443              | 0 |
| RTP Port Range Start: | 10000            | 0 |
| RTP Port Quantity :   | 1000             | 0 |
|                       | Apply            |   |

Picture 125 - Service Port Settings

#### Table 20 - Service port

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

## 12.2 Network >> VPN

Users can configure a VPN connection on this page. See <u>10.7.2.3 VPN</u> for more details.



# 12.3 Network >> Advanced

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

# 12.4 Line >> SIP

Configure the Line service configuration on this 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      | Enter the ID or EODN address of the baskup provides of the                  |  |  |  |  |
| 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           |   |  |  |  |  |

Table 21 - Line configuration on the web page



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



| 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 Do-not-disturb, any incoming call to this line will be rejected          |  |  |  |  |  |
| Enable DND                           | automatically   |  |  |  |  |  |
|                                      | Enable the device to subscribe a voice message waiting notification, if         |  |  |  |  |  |
| Subscribe For Voice                  | enabled, the device will receive notification from the server if there is voice |  |  |  |  |  |
| Message                              | message waiting on the server   |  |  |  |  |  |
| Use VPN                              | Set the line to use VPN restrict route  |  |  |  |  |  |
| Use STUN                             | Set the line to use STUN for NAT traversal                                      |  |  |  |  |  |
| Enable Failback                      | Whether to switch to the primary server when it is available.                   |  |  |  |  |  |
|                                      | A Register message is used to periodically detect the time interval for the     |  |  |  |  |  |
| Failback Interval                    | availability of the main Proxy.   |  |  |  |  |  |
|                                      | Multiple proxy cases, whether to allow the invite/register request to also      |  |  |  |  |  |
| Signal Failback                      | execute failback.   |  |  |  |  |  |
|                                      | The number of attempts that the SIP Request considers proxy unavailable         |  |  |  |  |  |
| Signal Retry Counts                  | under multiple proxy scenarios.   |  |  |  |  |  |
|                                      | Set the priority and availability of the codecs by adding or remove them        |  |  |  |  |  |
| Codecs Settings                      | from the list.  |  |  |  |  |  |
| Video Codecs                         | Select video code to preview video.   |  |  |  |  |  |
| Advanced Settings                    |   |  |  |  |  |  |
|                                      | When this setting is enabled, the features in this section will not be          |  |  |  |  |  |
| Use Feature Code                     | handled by the device itself but by the server instead. To control the          |  |  |  |  |  |
| Use realure Code                     | enabling of the features, the device will send feature code to the server by    |  |  |  |  |  |
|                                      | dialing the number specified in each feature code field.                        |  |  |  |  |  |
| Enable DND                           | Set the feature code to dial to the server                                      |  |  |  |  |  |
| Disable DND                          | Set the feature code to dial to the server                                      |  |  |  |  |  |
| Enable Call Forward<br>Unconditional | Set the feature code to dial to the server                                      |  |  |  |  |  |
| Disable Call Forward                 | Set the feature and to dial to the server                                       |  |  |  |  |  |
| Unconditional                        | Set the feature code to dial to the server                                      |  |  |  |  |  |
| Enable Call Forward on               | Set the feature and to dial to the conver                                       |  |  |  |  |  |
| Busy                                 | Set the feature code to dial to the server                                      |  |  |  |  |  |
| Disable Call Forward on              | Set the feature ends to dial to the conver                                      |  |  |  |  |  |
| Busy                                 | Set the feature code to dial to the server                                      |  |  |  |  |  |
| Enable Call Forward on               | Cattles facture and to dial to the compare                                      |  |  |  |  |  |
| No Answer                            | Set the feature code to dial to the server                                      |  |  |  |  |  |
| Disable Call Forward on              | Cattles facture and to dial to the compare                                      |  |  |  |  |  |
|                                      | 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         |  |  |  |  |  |
|                         | Set the line to enable call ending by session timer refreshment. The call  |  |  |  |  |  |
| Enable Session Timer    | session will be ended if there is not new session timer event update       |  |  |  |  |  |
|                         | received after the timeout period  |  |  |  |  |  |
| Session Timeout         | Set the session timer timeout period                                       |  |  |  |  |  |
| Enable BLF List         | Enable/Disable BLF List  |  |  |  |  |  |
|                         | BLF List allows one BLF key to monitor the status of a group. Multiple BLF |  |  |  |  |  |
| BLF List Number         | lists are supported.   |  |  |  |  |  |
|                         | If setting enabled, the device would use single codec in response to an    |  |  |  |  |  |
| Response Single Codec   | incoming call request  |  |  |  |  |  |
|                         | The registered server will receive the subscription package from an        |  |  |  |  |  |
| BLF Server              | ordinary application of BLF phone.   |  |  |  |  |  |
| DLF Server              | Please enter the BLF server, if the sever does not support subscription    |  |  |  |  |  |
|                         | package, the registered server and subscription server will be separated.  |  |  |  |  |  |
| Keen Alive Type         | Set the line to use dummy UDP or SIP OPTION packet to keep NAT             |  |  |  |  |  |
| Keep Alive Type         | pinhole opened   |  |  |  |  |  |
| Keep Alive Interval     | Set the keep alive packet transmitting interval                            |  |  |  |  |  |
| Keep Authentication     | Keep the authentication parameters from previous authentication            |  |  |  |  |  |
| Blocking Anonymous Call | Reject any incoming call without presenting caller ID                      |  |  |  |  |  |
| User Agent              | Set the user agent, the default is Model with Software Version.            |  |  |  |  |  |
| Specific Server Type    | Set the line to collaborate with specific server type                      |  |  |  |  |  |
| SIP Version             | Set the SIP version  |  |  |  |  |  |
| Anonymous Call          | Set the standard to be used for anonymous                                  |  |  |  |  |  |
| Standard                |  |  |  |  |  |  |
| 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   |  |  |  |  |
|-------------------------|--|--|--|--|--|
|                         | Using TCP protocol to guarantee usability of transport for SIP messages      |  |  |  |  |
| Auto TCP                | 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 Drown     | Enables the use of strict routing. When the phone receives packets from      |  |  |  |  |
| Enable Strict Proxy     | 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    | Whather to add much in display name is "White" up White                      |  |  |  |  |
| Name                    | Whether to add quote in display name, i.e. "Xblue" vs Xblue                  |  |  |  |  |
| 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    | Set the device to use 182 response code at call waiting response             |  |  |  |  |
| Call waiting            |  |  |  |  |  |
| Enable Feature Sync     | Feature Sync with server   |  |  |  |  |
| Enable SCA              | Enable/Disable SCA (Shared Call Appearance)                                  |  |  |  |  |
| CallPark Number         | Set the CallPark number.   |  |  |  |  |
| Server Expire           | Set the timeout to use the server.   |  |  |  |  |
| TLS Version             | Choose TLS Version.  |  |  |  |  |
| uaCSTA Number           | Set uaCSTA Number.   |  |  |  |  |
| Enable Click To Talk    | With the use of special server, click to call out directly after enabling.   |  |  |  |  |
| Flash mode              | Chose Flash mode, normal or SIP info.  |  |  |  |  |
| Flash Info Content-Type | Set the SIP info content type.   |  |  |  |  |
| Flash Info Content-Body | Set the SIP info content body.   |  |  |  |  |
| PickUp Number           | Set the scramble number when the Pickup is enabled.                          |  |  |  |  |
| JoinCall Number         | Set JoinCall Number.   |  |  |  |  |
| Intercom Number         | Set Intercom Number.   |  |  |  |  |
| Unregister On Boot      | Whether to enable logout function.   |  |  |  |  |
| Enable MAC Header       | When opening the registration, are IP package and user agent with MAC.       |  |  |  |  |
| Enable Register MAC     | When opening the registration, is user agent with MAC.                       |  |  |  |  |
| Header                  |  |  |  |  |  |
| BLF Dialog Strict Match | Whether to enable accurate matching of BLF sessions.                         |  |  |  |  |



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

# 12.5 Line >> SIP Hotspot

Please refer to 9.9 SIP Hotspot.

# 12.6 Line >> Dial Plan

#### **Basic Settings**

| Press # to invoke dialing              |
|--|
| Dial Fixed Length 11 to Send           |
| Send after10 second(s)(3~30)           |
| Press # to Do Blind Transfer           |
| Blind Transfer on Onhook               |
| Attended Transfer on Onhook            |
| Attended Transfer on Conference Onhook |
| Enable E.164                           |
| Apply                                  |
|  |

## Picture 126 - Dial plan settings

## Table 22 - Phone 7 dialing methods

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

## Add dialing rules:

| l Plan Add   |                   |         |              |          |          |   |         |        |
|--------------|-------------------|---------|--------------|----------|----------|---|---------|--------|
| Digit Map:   |                   |         | 0            |          |          |   |         |        |
| Apply to C   | all: Outgoing C   | all 💌 🕜 | Mato<br>Seno |          | No 💌 🕜   |   |         |        |
| Line:        | SIP DIALPE        | er 💽 🕜  | Dest         | ination: |          | 0 | Port:   | 0      |
| Alias(Opti   | onal): No Alias 🗖 | . 🕜     | Phor<br>Num  |          |          | 0 | Length: | 0      |
| Suffix:      |                   |         | 0            |          |          |   |         |        |
|              |                   |         |              | A        | dd       |   |         |        |
| l Plan Optic | on 🕜              |         |              |          |          |   |         |        |
| •            |                   |         |              | Delete   | Modify   |   |         |        |
| er-defined [ | )ial Plan Table   | 0       |              |          |          |   |         |        |
|              |                   |         |              |          | Alias Ty |   |         | Suffix |

Picture 127 - Custom setting of dial - up rules

Table 23 - Dial - up rule configuration table

| Parameters                                | Description  |  |  |  |  |
|---|--|--|--|--|--|
|   | There are two types of matching: Full Matching or Prefix Matching. In Full           |  |  |  |  |
|   | matching, the entire phone number is entered and then mapped per the Dial            |  |  |  |  |
| Dial rule                                 | Peer rules.  |  |  |  |  |
| Diai Tule                                 | In prefix matching, only part of the number is entered followed by T. The            |  |  |  |  |
|   | mapping will then take place whenever these digits are dialed. Prefix mode           |  |  |  |  |
|   | supports a maximum of 30 digits.   |  |  |  |  |
| Note: Two differen                        | t special characters are used.   |  |  |  |  |
| x Matches                                 | x Matches any single digit that is dialed.   |  |  |  |  |
| ■ [] Specifie                             | ■ [] 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.                                |  |  |  |  |
| Alice                                     | Set the Alias. This is the text to be added, replaced, or deleted. It is an optional |  |  |  |  |
| Alias                                     | 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 |   |
|---|---|
|   | Set the number of characters to be deleted. For example, if this is set to 3, the |
| Length  | 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 dial rules. The examples below will show how this can be used.

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

| User | -define | d Dial Pla | n Tab | le 🕜          |                                |                           |        |         |
|------|---------|------------|-------|---------------|--------------------------------|---------------------------|--------|---------|
|      | Index   | Digit Map  | Call  | Match to Send | Line                           | Alias Type:Number(length) | Suffix | Media   |
|      | 1       | "123"      | Out   | No            | SIP DIALPEER(172.16.1.15:5560) |                           |        | Default |

Picture 128 - 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.

| User | defined | Dial Plan Ta | ble 🕜 |               |             |                           |        |         |
|------|---------|--------------|-------|---------------|-------------|---------------------------|--------|---------|
|      | Index   | Digit Map    | Call  | Match to Send | Line        | Alias Type:Number(length) | Suffix | Media   |
|      | 1       | "1T"         | Out   | No            | Fanvil@SIP1 | rep:010(1)                |        | Default |
|      |         |              |       |               |             |                           |        |         |

#### Picture 129 - Dial rules table (2)

**Example 3**: Addition -- Two examples are shown. In the first case, it is assumed that 0 must be dialed before any 11-digit number beginning with 13. In the second case, it is assumed that 0 must be dialed before any 11-digit number beginning with 135, 136, 137, 138, or 139. Two different special characters are used.

x -- Matches any single digit that is dialed.

[] -- Specifies a range of numbers to be matched. It may be a range, a list of ranges separated by commas, or a list of digits.

## 12.7 Line >> Action Plan

1. When a IP phone calls a phone, the bound IP camera synchronously transmits video to the other phone (video is supported); This feature is only supported by IP11G.

2. When SIP calls, multicast calls or intercom calls are made, the device converts calls that conform to the number rules into group calls.



| 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 username of the IP camera.                  |  |
| Password   | Bind IP camera password.                             |  |
| URL        | Video streaming information;Mcast Address            |  |
| UKL        | (mcast://IP:port)                                    |  |
| User Agent | Set user agent information                           |  |

#### Table 24 - IP camera

# 12.8 Line >> Basic Settings

Set up the register global configuration.

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

# 12.9 Line >> RTCP-XR

RTCP-XR mode is based on RFC3611 (RTP Control Extended Report), which can measure and evaluate network packet loss, delay, and voice quality by sending RTCP-XR packets.

| Table 26 - | <ul> <li>VQ RTCP-XR Settin</li> </ul> | ngs |
|------------|---------------------------------------|-----|
|------------|---------------------------------------|-----|

| Parameters                | Description  |  |
|---------------------------|--|--|
| VQ RTCP-XR Settings       |  |  |
| VQ RTCP-XR Session Report | VQ report on whether session mode is enabled or not. |  |



| VQ RTCP-XR Interval Report              | Whether to turn on Interval mode for VQ report sending.        |  |  |
|---|--|--|--|
| Period for Interval Report(5~99)        | The time interval at which VQ reports are sent periodically.   |  |  |
| Marning threshold for Mostg(15, 40)     | When the phone calculated the Moslq value x10 below the        |  |  |
| Warning threshold for Moslq(15~40)      | set threshold, a warning was issued.                           |  |  |
| Critical threshold for Meals(15, 40)    | When the phone calculates the Moslq value x10 below the        |  |  |
| Critical threshold for Moslq(15~40)     | set threshold, the critical report is issued.                  |  |  |
| Warning Threshold for Doloy(10, 2000)   | When the one-way delay of the phone is greater than the        |  |  |
| Warning Threshold for Delay(10~2000)    | set threshold, warning is issued.                              |  |  |
| Critical Threshold for Dalay (10, 2000) | When the phone computes that the one-way delay is              |  |  |
| Critical Threshold for Delay(10~2000)   | greater than the set threshold, the critical report is issued. |  |  |
| Dianlay Report Options on web           | Whether to display the VQ report data for the last call        |  |  |
| Display Report Options on web           | through the web page.  |  |  |

Note: the above functions are supported by IP9G&IP11G

# **12.10** Phone settings >> Features

Configuration phone features.

| 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 |  |
| Enable Auto Onnook      | mode  |  |
|                         | Specify Auto Onhook time, the phone will hang up and return to the idle   |  |
| Auto Onhook Time        | automatically after Auto Hand down time at hands-free mode, and play      |  |
|                         | dial tone Auto Onhook time at handset mode                                |  |
| Ring for Headset        | Enable Ring for Handset by selecting it, the phone plays ring tone from   |  |
|                         | handset.  |  |
| Auto Headset            | Enable this feature, headset plugged in the phone, user press 'answer'    |  |
| Auto neausel            | 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  |  |

## Table 27 - General function Settings



|                                    | 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<br>List | Whether to enable restricted call list.  |  |  |
| Enable Allowed Incoming<br>List    | Whether to enable the allowed call list.   |  |  |
| Enable Restricted Outgoing<br>List | Whether to enable the restricted allocation list.  |  |  |
| Enable Country Code                | Whether the country code is enabled.   |  |  |
| Country Code                       | Fill in the country code.  |  |  |
| Area Code                          | Fill in the area code.   |  |  |
| Enable Number Privacy              | Whether to enable number privacy.  |  |  |
| Match Direction                    | Matching direction, there are two kinds of rules from right to left and from left to right.  |  |  |
| Start Position                     | Open number privacy after the start of the hidden location.  |  |  |
| Hide Digits                        | Turn on number privacy to hide the number of digits.   |  |  |
| Allow IP Call                      | If enabled, user can dial out with IP address  |  |  |
| P2P IP Prefix                      | Prefix a point-to-point IP call.   |  |  |
| Caller Name Priority               | Change caller ID display priority.   |  |  |
| Emergency Call Number              | Set Emergency Call Number  |  |  |
| Search path                        | Select the search path.  |  |  |
| LDAP Search                        | Select from with one LDAP for search   |  |  |
| Emergency Call Number              | Configure the Emergency Call Number. Despite the keyboard is locked, you can dial the emergency call number  |  |  |
| Restrict Active URI Source         | Set the device to accept Active URI command from specific IP address.  |  |  |
| 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<br>automatically.<br>Enable the feature, user enter the number without opening audio<br>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 DTMF tone on the device when user pressed a phone digits at                               |  |  |
| Play Dialing DTMF Tone     | dialing, default enabled.  |  |  |
|                            | Play DTMF tone on the device when user pressed a phone digits during                           |  |  |
| Play Talking DTMF Tone     | taking, default enabled.   |  |  |
| DND Settings               |  |  |  |
| DND Option                 | Select to take effect on the line or on the phone or close.                                    |  |  |
|                            | Enable DND Timer, If enabled, the DND is automatically turned on from                          |  |  |
| Enable DND Timer           | the start time to the off time.  |  |  |
| DND Start Time             | Set DND Start Time   |  |  |
| DND End Time               | Set DND End Time   |  |  |
| Intercom Settings          |  |  |  |
| Ŭ                          | When intercom is enabled, the device will accept the incoming call                             |  |  |
| Enable Intercom            | request with a SIP header of Alert-Info instruction to automatically answer                    |  |  |
|                            | the call after specific delay.   |  |  |
| Enable Intercom Mute       | Enable mute mode during the intercom call  |  |  |
| Enable Intercom Tone       | If the incoming call is intercom call, the phone plays the intercom tone                       |  |  |
|                            | Enable Intercom Barge by selecting it, the phone auto answers the                              |  |  |
| Enable Intercom Barge      | intercom call during a call. If the current call is intercom call, the phone                   |  |  |
| C C                        | will reject the second intercom call   |  |  |
| Response Code Settings     |  |  |  |
| DND Response Code          | Set the SIP response code on call rejection on DND   |  |  |
| Busy Response Code         | Set the SIP response code on line busy   |  |  |
| Reject Response Code       | Set the SIP response code on call rejection  |  |  |
| Password Dial Settings     |  |  |  |
|                            | Enable Password Dial by selecting it, when number entered is beginning                         |  |  |
|                            | with the password prefix, the following N numbers after the password                           |  |  |
|                            |  |  |  |
| Enable Password Dial       | prefix will be hidden as *, N stand for the value which you enter in the                       |  |  |



|                           | enter the Password Length is 2, then you enter the number 34567, it will      |  |  |
|---------------------------|---|--|--|
|                           | display 3**67 on the phone.   |  |  |
| Encryption Number Length  | Configure the Encryption Number length  |  |  |
| Password Dial Prefix      | Configure the prefix of the password call number                              |  |  |
| Power LED                 |   |  |  |
| Common                    | Standby power lamp state, off when off, open is always bright red. Off by     |  |  |
| Common                    | default.  |  |  |
| SMS/MWI                   | The status of power lamp when there is unread short message/voice             |  |  |
| 51015/101001              | message, including off/on/slow flash/quick flash, default slow flash.         |  |  |
| Missod                    | The state of the power lamp when there is a missed call, including            |  |  |
| Missed                    | off/on/slow flash/quick flash, the default slow flash.                        |  |  |
|                           | In the talk/dial state, the power lamp state, off is off, on is always red    |  |  |
| Talk/Dial                 | bright, the default is off.   |  |  |
|                           | Power lamp status when there is an incoming call, including off/on/slow       |  |  |
| Ringing                   | flash/quick flash, default flash.   |  |  |
|                           | Power lamp status in mute mode, including off/on/slow flash/quick flash,      |  |  |
| Mute                      | off by default.   |  |  |
|                           | The power lamp state, including off/on/slow flash/quick flash, is turned off  |  |  |
| Hold/Held                 | by default when left/retained.  |  |  |
| Notification Popups       |   |  |  |
|                           | No incoming call popup prompt after opening, no popup prompt when             |  |  |
| Display Missed Call Popup | closing, open by default.   |  |  |
|                           | Voice message popup prompt is not answered after opening, and it is           |  |  |
| Display MWI Popup         | opened by default if there is no popup prompt when closing.                   |  |  |
| Display Device Connect    | There is a popup prompt when the WIFI adapter is connected. There is          |  |  |
| Popup                     | no popup prompt when the WIFI adapter is closed. It is on by default.         |  |  |
| Disalar OMO D             | There is a popup prompt for unread messages after opening, and there is       |  |  |
| Display SMS Popup         | no popup prompt when closing. It is opened by default.                        |  |  |
|                           | When the handle is not hung back after opening, registration fails, IP        |  |  |
|                           | acquisition fails, Tr069 connection fails and other abnormalities, there will |  |  |
| Display Other Popup       | be popup prompt when it is opened; otherwise, there will be no prompt         |  |  |
|                           | when it is closed, and it will be opened by default.                          |  |  |
|                           |   |  |  |

# **12.11** Phone settings >> Media Settings

Change voice Settings.

Table 28 - Voice settings



| Parameters                 | Description  |  |  |
|----------------------------|--|--|--|
|                            | Select enable or disable voice encoding:                                   |  |  |
| Codecs Settings            | G.711A/U,G.722,G.729, G.726-16,G726-24,G726-32,G.726-40,                   |  |  |
|                            | ILBC, Opus   |  |  |
| Audio Settings             |  |  |  |
| Handset Volume             | Set the Handset volume, the value must be 1~9                              |  |  |
| Default Ring Type          | Configure default ringtones. If no special ringtone is set for the phone   |  |  |
|                            | number, the default ringtone will be used.                                 |  |  |
| Speakerphone Volume        | Set the hands-free volume to 1-9.  |  |  |
| Headset Ring Volume        | Set the volume of the earphone ringtone to 1~9.                            |  |  |
| Headset Volume             | Set the volume of the headset to 1~9.                                      |  |  |
| Speakerphone Ring Volume   | Set the volume of hands-free ringtone to 1~9.                              |  |  |
| G.723.1 Bit Rate           | 5.3kb/s or 6.3kb/s is available.   |  |  |
| DTMF Payload Type          | Enter the DTMF payload type, the value must be 96~127.                     |  |  |
| AMR Payload Type           | Set AMR load type, range 96~127.   |  |  |
| Headset Mic Gain           | Set the earphone's radio volume gain to fit different models of earphones. |  |  |
| Opus playload type         | Set Opus load type, range 96~127.  |  |  |
| OPUS Sample Rate           | Set Opus sampling rate, including opus-nb (8KHz) and opus-wb (16KHz).      |  |  |
| ILBC Payload Type          | Set the ILBC Payload Type, the value must be 96~127.                       |  |  |
| ILBC Payload Length        | Set the ILBC Payload Length  |  |  |
| Enable MWI Tone            | When there is a new voice message message, the phone will start a          |  |  |
|                            | special dial tone.   |  |  |
| Enable VAD                 | Whether voice activity detection is enabled.                               |  |  |
| Onhook Time                | Configure a minimum response time, which defaults to 200ms                 |  |  |
| EHS Type                   | EHS headset is available after enabling.                                   |  |  |
| RTP Control Protocol(RTCP) | Settings   |  |  |
| CNAME user                 | Set CNAME user   |  |  |
| CNAME host                 | Set CNAME host   |  |  |
| RTP Settings               |  |  |  |
| RTP keep alive             | Hold the call and send the packet after 30s                                |  |  |
| Alert Info Ring Settings   |  |  |  |
| Value                      | Set the value to specify the ring type.                                    |  |  |
| Ring Type                  | Туре1-Туре9  |  |  |

# 12.12 Phone settings >> MCAST

This feature allows users to make some kind of broadcast call to people who are in multicast groups. Users



can configure a multicast DSS Key on the phone, which allows users to send a Real Time Transport Protocol (RTP) stream to the pre-configured multicast address without involving SIP signaling. You can also configure the phone to receive an RTP stream from pre-configured multicast listening address without involving SIP signaling. You can specify up to 10 multicast listening addresses.

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

#### Table 29 - Multicast parameters

## 12.13 Phone settings >> Action

# 12.14 Phone settings >> Time/Date

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

| Table 30 – Time & Date Settings |   |  |  |  |
|---------------------------------|---|--|--|--|
| Parameters Description          |   |  |  |  |
| Network Time Server Settings    |   |  |  |  |
| Time Synchronized via SNTP      | Enable time-sync through SNTP protocol                                |  |  |  |
| Time Synchronized via DHCP      | Enable time-sync through DHCP protocol                                |  |  |  |
| Primary Time Server             | Set primary time server address                                       |  |  |  |
|                                 | Set secondary time server address, when primary server is not         |  |  |  |
| Secondary Time Server           | reachable, the device will try to connect to secondary time server to |  |  |  |
|                                 | get time synchronization.   |  |  |  |
| Time Zone                       | Select the time zone  |  |  |  |
| Resync Period                   | Time of re-synchronization with time server                           |  |  |  |
| 12-Hour Clock                   | Set the time display in 12-hour mode                                  |  |  |  |
| Date Format                     | Select the time/date display format                                   |  |  |  |
| Daylight Saving Time Settings   |   |  |  |  |
| Local                           | Choose your local, phone will set daylight saving time automatically  |  |  |  |
| Local                           | based on the local  |  |  |  |
| DST Set Type                    | Choose DST Set Type, if Manual, you need to set the start time and    |  |  |  |
| от осттуре                      | end time.   |  |  |  |
| Fixed Type                      | Daylight saving time rules are based on specific dates or relative    |  |  |  |

#### Table 30 – Time & Date settings



|                      | rule dates for conversion. Display in read-only mode in automatic |  |  |
|----------------------|---|--|--|
|                      | mode.   |  |  |
| Offset               | The offset minutes when DST started                               |  |  |
| Month Start          | The DST start month   |  |  |
| Week Start           | The DST start week  |  |  |
| Weekday Start        | The DST start weekday   |  |  |
| Hour Start           | The DST start hour  |  |  |
| Minute Start         | The DST start minute  |  |  |
| Month End            | The DST end month   |  |  |
| Week End             | The DST end week  |  |  |
| Weekday End          | The DST end weekday   |  |  |
| Hour End             | The DST end hour  |  |  |
| Minute End           | The DST end minute  |  |  |
| Manual Time Settings | You can set your time manually                                    |  |  |

## 12.15 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.

| Select Your Tone:         | United States   |  |
|---------------------------|---|--|
| Dial Tone:                | 350+440/0   |  |
| Ring Back Tone:           | 440+480/2000,0/4000   |  |
| Busy Tone:                | 480+620/500,0/500   |  |
| Congestion Tone:          |   |  |
| Call waiting Tone:        | 440/300,0/10000,440/300,0/10000,0/0                             |  |
| Holding Tone:             |   |  |
| Error Tone:               |   |  |
| Stutter Tone:             |   |  |
| Information Tone:         |   |  |
| Dial Recall Tone:         | 350+440/100,0/100,350+440/100,0/100,350+440/100,0/100,350+440/0 |  |
| Measage Tone:             |   |  |
| Howler Tone:              |   |  |
| Number Unobtainable Tone: | 400/500,0/6000  |  |
| Warning Tone:             | 1400/500,0/0  |  |
| Record Tone:              | 440/500,0/5000  |  |
| Auto Answer Tone:         |   |  |

Picture 130 - Tone settings on the web

# Kblue

# 12.16 Phone settings >> Advanced

Users can configure the advanced configuration settings on this page.

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

The password is 123 by default.

- Keyboard Lock Settings.
- Configure Greeting Words

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

## 12.17 Phonebook >> Contact

Users can add, delete, or edit contacts in the phonebook on this page. Users can browse the phonebook and sort 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 while 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, users can select multiple users and add them into blacklist by click "Add to Blacklist" button.

# 12.18 Phonebook >> Cloud phonebook

#### **Cloud Phonebook**

Users 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, users must configure the username and password. To configure a cloud phonebook, the following information should be entered,

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

#### LDAP Settings

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



Users must configure the LDAP Server information and Search Base to be able to use it on the device. If the LDAP server requests authentication, users 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)

#### 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.

|                  | Contact  | s Cloud phoneb        | ook Call List       | Web             | Dial           | Advanced           |                            |
|------------------|--|-----------------------|---------------------|-----------------|----------------|--------------------|----------------------------|
| › System         | claud aba  |                       |                     |                 |                |                    |                            |
| > Network        | Cloud pho  |                       | KML3 XML4 BACK      |                 |                |                    |                            |
| › Line           | Add to pho                                       | nebook Add to Blackli | st Add to Whitelist |                 |                | Previ              | ous Page: V Next           |
| › Phone settings |  | Index Na              | me Phone            |                 |                | ione1              | Phone2                     |
| > Phonebook      | 10 ✓ Entries per page<br>Manage Cloud Phonebooks |                       |                     |                 |                |                    |                            |
| › Call logs      | Index Clo  | ud phonebook name     | Cloud phonebook URL | Calling<br>Line | Search<br>Line | Authentication Nar | ne Authentication Password |
|                  | 1  |                       |                     | AUTO 🗸          | AUTO 🗸         |                    |                            |
| Function Key     | 2  |                       |                     | AUTO 🗸          | AUTO 🗸         |                    |                            |
|                  | 3  |                       |                     | AUTO 🗸          | AUTO 🗸         |                    |                            |
|                  | 4  |                       |                     | AUTO 🗸          | AUTO 🗸         |                    |                            |
| > Application    | Apply  |                       |                     |                 | Apply          |                    |                            |

#### Picture 131 - Web cloud phone book Settings

## 12.19 Phonebook >> Call List

Restricted Incoming Calls:

It is similar to 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.

# Kblue

## 12.20 Phonebook >> Web Dial

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

### 12.21 Phonebook >> Advanced

Users can export the local phone book in XML, CSV, and VCF format and save it on the local computer. Users can also import contacts into the phone book in XML, CSV, and VCF formats.

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

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

## 12.22 Call Log

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

The user can also save the number in the call record to his/her phone book or add it to the blacklist/whitelist. Users can also dial the web page by clicking on the number in the call log.

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

## 12.23 Function Key >> Function Key

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

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

| Parameters | Description   |  |  |
|------------|---|--|--|
|            | BLF (New Call/BXFE /AXFER): It is used to prompt users the state of the subscribed        |  |  |
|            | extension, and it can also pick up the subscribed number, which helps user monitor        |  |  |
|            | the state of subscribe extension (idle, ringing, a call). There are 3 types for one-touch |  |  |
|            | BLF transfer method.  |  |  |
|            | p.s. Users should enter the pick-up number for specific BLF key to fulfill the pick-up    |  |  |
| Memory Key | operation.  |  |  |
|            | Presence: Compared to BLF, the Presence is also able to view whether the user is          |  |  |
|            | online.   |  |  |
|            | Note: You cannot subscribe to 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    |  |  |

#### Table 31 - Function Key configuration



|  | 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 can make a call by pressing Line Key.        |  |
| Kov Event  | User can select a key event as a shortcut to trigger.                                 |  |
| Key Event  | For example: MWI / DND / Release / Headset / Hold / etc.                              |  |
| DTMF   | It allows users 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 |  |
| wullcast   | multicast.  |  |
| Action URL   | The user can use a specific URL to make basic calls to the phone.                     |  |
| XML browser  | Users can set the DSS Key for specific URL download and other operations.             |  |
|  |   |  |

# 12.24 Function Key >> Side Key

Side Key is a Key on both sides of the screen that functions as a shortcut Key. The default configuration is line Key, which can be customized on the webpage. For Side Key function and Settings, please refer to <u>12.23</u> <u>Function Key</u> Settings.

# 12.25 Function Key >> Softkey

The User Settings mode and display style, display page.

| 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 Contacts/Pickup/Call |  |  |
| Call Dialer           | Log/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                               |  |  |
|                       | Call Log/Menu/Local Contacts/DND/Prev Account/Next Account/Blacklist/Call |  |  |
| Dockton               | Back/Call Forward/Locked/Memo/  |  |  |
| Desktop               | Missed/MWI/Dialed/Reboot/Redial/Remote XML/SMS/                           |  |  |
|                       | Headset/Status/DSS Key/In   |  |  |
| Divert Dialed         | Redial/2aB/Delete/Exit/Forward/Local Contacts/Call Log                    |  |  |

#### Table 32 - Softkey configuration



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

## 12.26 Function Key >> Advanced

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

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

#### Global Key Settings

| Global Key Settings      |          |
|--------------------------|----------|
| Select MemoryKey Action: | None 🔍 🕜 |

Picture 132 - Global Key Settings

#### Programmable key Settings

Please refer to the <u>Table 25 Softkey configuration</u>

# 12.27 Application >> Manage Recording

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



# 12.28 Security >> Web Filter

segment IP access.

|                  | Web Filter Trust Certificates Devi | ce Certificates Firewall |        |
|------------------|------------------------------------|--------------------------|--------|
| › System         |                                    |                          |        |
| > Network        | Web Filter Table                   |                          |        |
| 7 Network        | Start IP Address                   | End IP Address           | Option |
| › Line           | Web Filter Table Settings          |                          |        |
| › Phone settings | Start IP Address                   | End IP Address           | Add    |
| > Phonebook      | Web Filter Setting                 |                          |        |
|                  | Enable Web Filter 🗆                | Apply                    |        |
| > Call logs      |                                    |                          |        |
| › Function Key   |                                    |                          |        |
| Application      |                                    |                          |        |
| • Security       |                                    |                          |        |

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

Picture 133 - Web Filter settings

| Web | b Filter Table 🕜 |                 |                  |
|-----|------------------|-----------------|------------------|
|     | Start IP Address | End IP Address  | Option           |
|     | 192.168.1.1      | 192.168.254.254 | Modify<br>Delete |

Picture 134 - Web Filter Table

Adding and removing IP segments are accessible. Configure the starting IP address within the start IP, end the IP address within the end IP, and click [**Add**] to submit to take effect. A large network segment can be set, or it can be divided into several network segments to add. If the user wants to delete, select the initial IP of the network segment to be deleted from the drop-down menu, and then click [**Delete**] to take effect. Enable web page filtering: configure enable/disable web page access filtering; Click the "apply" button to take effect.

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

## 12.29 Security >> Trust Certificates

Set whether to open license certificate and general name validation, select certificate module. You can upload and delete uploaded certificates.



|                  | Web Filter             | Trust Certificates            | Device Certificates | Firewall                      |         |            |           |
|------------------|------------------------|-------------------------------|---------------------|-------------------------------|---------|------------|-----------|
| › System         |                        |                               |                     |                               |         |            |           |
| › Network        | Permission Cer         | tificate                      |                     |                               |         |            |           |
| › Line           | Permission<br>Common N | Certificate<br>ame Validation | Disabled Disabled   | <ul><li>✓</li><li>✓</li></ul> |         |            |           |
| > Phone settings | Certificate            | mode                          | All Certificates    | ~                             |         |            |           |
| > Phonebook      | Import Certific        | ates                          | Apply               |                               |         |            |           |
| › Call logs      | Load Serve             | r File                        |                     | Select                        | Upload  |            |           |
| › Function Key   | Certificates Lis       |                               |                     |                               |         |            |           |
| > Application    | Index                  | File Name                     | Issued To           | Iss                           | sued By | Expiration | File Size |
| • Security       |                        |                               |                     |                               |         |            |           |

Picture 135 - Certificate of settings

# 12.30 Security >> Device Certificates

Select the device certificate as the default and custom certificate.

You can upload and delete uploaded certificates.

| Device Certificat  | es 🕜   |   |               |            |           |
|--------------------|--------|---|---------------|------------|-----------|
| Device Certif      | icates | Default Certificates<br>Default Certificates<br>Custom Certificates | ✓ (existence) |            |           |
| Import Certificat  | es 🕜   |   |               |            |           |
| Load Server        | File   |   | Select Upload |            |           |
| Certification File | 0      |   |               |            |           |
| File               | Name   | Issued To   | Issued By     | Expiration | File Size |
|                    |        |   |               |            | Delete    |

Picture 136 - Device certificate setting



# 12.31 Security >> Firewall

|                  | Web Filter Trust Certificates Device Certificates Firewall  |
|------------------|---|
| › System         |   |
| › Network        | Firewall Type Enable Input Rules:  Enable Output Rules:  Enable Output Rules:   |
| › Line           | Apply   |
| › Phone settings | Firewall Input Rule Table Index Deny/Permit Protocol Src Address Src Mask Src Port Range Dst Address Dst Mask Dst Port Rang |
| Phonebook        | Firewall Output Rule Table  |
| Call logs        | Index Deny/Permit Protocol Src Address Src Mask Src Port Range Dst Address Dst Mask Dst Port Rang                           |
| Function Key     | Firewall Settings       Input/Output     Input v       Src Address   Dst Address  |
| Application      | Deny/Permit Deny V Src Mask Dst Mask Add  |
| Security         | Protocol UDP  Src Port Range Dst Port Range   |
| Device Log       | Input/Output     Input Y     Index To Be Deleted  |

Picture 137 - Network firewall Settings

The user can set whether to enable the input through this page, output firewall and set the firewall input and output rules. Using these Settings can prevent some malicious network access or restrict internal users access to some resources of the external network, which can improve security.

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

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

| Parameter           | Description  |  |  |  |
|---------------------|--|--|--|--|
| Enable Input Rules  | Indicates that the input rule application is enabled.                      |  |  |  |
| Enable Output Rules | Indicates that the output rule application is enabled.                     |  |  |  |
| Input/Output        | To select whether the currently added rule is an input or output rule.     |  |  |  |
| Deny/Permit         | To select whether the current rule configuration is disabled or allowed;   |  |  |  |
| Protocol            | There are four types of filtering protocols: TCP   UDP   ICMP   IP.        |  |  |  |
| Src Port Range      | Filter port range  |  |  |  |
|                     | Source address can be host address, network address, or all addresses      |  |  |  |
| Src Address         | 0.0.0.0; It can also be a network address similar to *.*.*.0, such as:     |  |  |  |
|                     | 192.168.1.0.   |  |  |  |
|                     | The destination address can be either the specific IP address or the full  |  |  |  |
| Dst Address         | 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         |  |  |  |
| SICIVIASK           | means that the host is specific. When set as 255.255.255.0, it means that  |  |  |  |

Table 33 - Network Firewall



|          | a network segment is filtered.  |
|----------|---|
|          | Is the destination address mask. When configured as 255.255.255.255, it |
| Dst Mask | means the specific host. When set as 255.255.255.0, it means that a     |
|          | network segment is filtered.  |

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

| Fire | wall Inp | out Rule Ta | ble 🕜    |             |               |                |               |               |                |
|------|----------|-------------|----------|-------------|---------------|----------------|---------------|---------------|----------------|
|      | Index D  | eny/Permit  | Protocol | Src Address | Src Mask      | Src Port Range | Dst Address   | Dst Mask      | Dst Port Range |
|      | 1        | deny        | udp      | 192.168.1.0 | 192.168.1.154 | 0-9            | 255.255.255.0 | 255.255.255.0 | 0-9            |
|      |          |             |          |             |               |                |               |               |                |

Picture 138 - Firewall Input rule table

Then select and click the button [Apply].

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

| Rule Delete Option 🥝 |         |                     |        |
|----------------------|---------|---------------------|--------|
| Input/Output         | Input 🔻 | Index To Be Deleted | Delete |

Picture 139 - Delete firewall rules.

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

# 12.32 Device Log >> Device Log

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



# **13 Trouble Shooting**

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

# **13.1 Get Device System Information**

Users can get information by pressing the [**Menu**] >> [**Status**] option in the phone.The following information will be provided:

The network information

Equipment information (model, software and hardware version), etc.

### **13.2 Reboot Device**

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

## **13.3 Reset Device to Factory Default**

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

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

### 13.4 Screenshot

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



|                  | Information                   | Account | Configurations | Upgrade | Auto Provision | Tools | Reboot Phor |
|------------------|-------------------------------|---------|----------------|---------|----------------|-------|-------------|
| • System         |                               |         |                |         |                |       |             |
| > Network        | <b>Syslog</b><br>Enable Syslo | og:     |                |         |                |       |             |
| › Line           | Server Addr<br>Server Port:   |         | 0.0.0<br>514   |         |                |       |             |
| › Phone settings | APP Log Lev<br>Export Log:    | el:     | Information    | ~       |                |       |             |
| > Phonebook      | WLAN Log                      |         | Apply          |         |                |       |             |
| › Call logs      | Enable WL                     | AN Log: | Export Log     | 3       |                |       |             |
| › Function Key   | Packet Capture                |         | Apply          |         |                |       |             |
| › Application    | Start                         |         | stop           |         |                |       |             |
| Security         | Screenshot<br>Main Screen     | :       | Save BMP       |         |                |       |             |
| > Device Log     | Sub Screen:                   |         | Save BMP       |         |                |       |             |
|                  | Watch Dog<br>Enable Watc      | h Dog:  | Apply          |         |                |       |             |

Picture 140 - Screenshot

## 13.5 Network Packets Capture

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

|                  | Information     | Account  | Configurations | Upgrade | Auto Provision | Tools | Reboot Phone |
|------------------|-----------------|----------|----------------|---------|----------------|-------|--------------|
| > System         |                 |          |                |         |                |       |              |
| › Network        | Syslog          |          |                |         |                |       |              |
|                  | Enable Sysle    |          |                |         |                |       |              |
| › Line           | Server Addr     |          | 0.0.0.0        |         |                |       |              |
|                  | Server Port:    |          | 514            |         |                |       |              |
| Phone settings   | APP Log Lev     |          | Information    | ~       |                |       |              |
| 7 Phone sectings | Export Log:     |          |                |         |                |       |              |
|                  |                 |          | Apply          | ]       |                |       |              |
| > Phonebook      | WLAN Log        |          |                |         |                |       |              |
|                  | Enable WL       | AN Log:  |                |         |                |       |              |
| > Call logs      |                 | All Log. | Export Lo      | a       |                |       |              |
|                  |                 |          | Apply          | 9       |                |       |              |
| › Function Key   |                 |          | Срру           | J       |                |       |              |
|                  | Packet Capture  |          |                |         |                |       |              |
| Application      | Start           |          | stop           | ]       |                |       |              |
|                  | Pluotooth Cantu | uro.     |                |         |                |       |              |

Picture 141 - Web capture

Users may examine the packets with a packet analyzer.



# 13.6 Get Log Information

Log information is helpful when encountering an exception problem. To get the log information of the phone, the user can log into 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.

# 13.7 Common Trouble Cases

| Trouble Case                   | So | lution  |
|--------------------------------|----|---|
|                                | 1. | The device is powered by external power supply via power adapter or               |
|                                |    | PoE switch. Please use a standard power adapter provided by the                   |
|                                |    | manufacturer or PoE switch met with the specification requirements                |
| Device could not boot up       |    | and check if device is well connected to power source.                            |
|                                | 2. | If you saw "POST MODE" on the device screen, the device system                    |
|                                |    | image has been damaged. Please contact location technical support to              |
|                                |    | help you restore the phone system.  |
|                                | 1. | Please check if the device is well connected to the network. The                  |
|                                |    | network Ethernet cable should be connected to the 💼 [Network]                     |
|                                |    | port NOT the 💻 [PC] port. If the cable is not well connected to the               |
|                                |    | network icon [WAN disconnected] will be flashing in the middle                    |
|                                |    | of the screen.  |
| Device could not register to a | 2. | Please check if the device has an IP address. Check the system                    |
| service provider               |    | information, if the IP displays "Negotiating", the device does not have           |
|                                |    | an IP address. Please check if the network configurations are correct.            |
|                                | 3. | If the network connection is fine, please check your line configurations.         |
|                                |    | If all configurations are correct, please contact your service provider to        |
|                                |    | get support, or follow the instructions in " <u>13.5 Network Packet Capture</u> " |
|                                |    | to get the network packet capture of registration process and send it             |
|                                |    | to manufacturer support to analyze manufacturer issue.                            |
|                                | 1. | Please check if Handset is connected to the correct Handset ( ) port              |
| No Audio or Poor Audio in      |    | NOT Headphone ( ) port.   |
| Handset                        | 2. | The network bandwidth and delay may be not suitable for audio call at             |
|                                |    | the moment.   |
| Poor Audio or Low Volume in    | 1. | There are two Headphone wire sequences in the market. Please use                  |
| Headphone                      |    | the Headphone provided by manufacturer or consult manufacturer wire               |
|                                |    | sequence if you wish to use a third-party headphone.                              |

#### Table 34 - Trouble Cases



|  | 2. The network bandwidth and delay may be not suitable for audio call at |
|--|--|
|  | the moment.  |
| Audio is chopping at far-end<br>in Hands-free speaker mode | This is usually due to loud volume feedback from speaker to microphone.  |
|  | Please lower down the speaker volume a little bit, the chopping will be  |
|  | gone.  |