



## **VP-R48G User Manual**

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# 1 Welcome

Thank you for purchasing Akuvox VP-R48G Multimedia VoIP Phone. The VP-R48G is an innovative smart desk phone loaded with tremendous value for business communications as well as unprecedented power for advanced custom business applications development and personalization. Featuring Android 5.1 system, a 7 inch capacitive touch screen TFT LCD, a 1.3M CMOS sensor camera, Bluetooth, integrated PoE and Wireless, VP-R48G provides excellent user experiences such as high quality video phone, smooth internet surfing, various 3rd party applications and daily information. Built with advanced security protection for privacy, this Multimedia VoIP Phone also features broad interoperability with most 3<sup>rd</sup> party SIP based devices, IPPBX and major IMS platforms. The VP-R48G represents the future multimedia terminal in modern Internet age.

This user manual is designed to help you understand how to configure and manage the VP-R48G Multimedia VoIP Phone. Besides demonstrating how to install this unit with ease, this manual will explain how to fully utilize the phone's voice calling features as well as explore all the built-in feature-rich applications.



Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

**Note:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful

interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: —Reorient or relocate the receiving antenna. —Increase the separation between the equipment and receiver. —Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. —Consult the dealer or an experienced radio/TV technician for help.

**FCC Radiation Exposure Statement:**

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment .

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

## ***2 Product Overview***

### **2.1 Instruction**

VP-R48G is an Android-based multimedia terminal with a 7 inch touch screen and a 1.3M CMOS sensor camera. It supports H.264/H.263 codecs with adaptive bandwidth adjustment. The 7 inch touch screen offers excellent user experiences such as high quality videophone, smooth internet surfing, various Android Apps and daily information.

VP-R48G provides 2 Ethernet ports, 1USB, 1HDMI, and one 3.5mm headset/audio port.



## 2.2 Technical Specification

| Model               | VP-R48G                                                                                                                                                                                                                                                                                      |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Graphic Display     | <ul style="list-style-type: none"> <li>● 7 inch capacitive touch screen TFT LCD, 1024x600 pixels, 16:9 wide screen aspect ratio</li> </ul>                                                                                                                                                   |
| Camera              | <ul style="list-style-type: none"> <li>● 1.3 mega pixels CMOS camera, free rotation</li> </ul>                                                                                                                                                                                               |
| Network Protocol    | <ul style="list-style-type: none"> <li>● SIP RFC3261,TCP/UDP/IP,PPPOE,RTP/RTCP</li> </ul>                                                                                                                                                                                                    |
| Operation System    | <ul style="list-style-type: none"> <li>● Android 5.1</li> </ul>                                                                                                                                                                                                                              |
| Voice Codec         | <ul style="list-style-type: none"> <li>● G.711A/U, G.729, G.722,</li> <li>● AMR-NB, AMR-WB, OPUS</li> </ul>                                                                                                                                                                                  |
| Video Codec         | <ul style="list-style-type: none"> <li>● H.263, H.264</li> </ul>                                                                                                                                                                                                                             |
| DTMF Modes          | <ul style="list-style-type: none"> <li>● Inband, RFC2833, SIP INFO</li> </ul>                                                                                                                                                                                                                |
| Audio Features      | <ul style="list-style-type: none"> <li>● VAD, CNG, Echo Canceller G.165/G.168</li> </ul>                                                                                                                                                                                                     |
| Video Features      | <ul style="list-style-type: none"> <li>● QCIF, CIF, 4CIF, VGA,720P</li> <li>● Video bitrate: 64kbps~2Mbps</li> <li>● PIP</li> <li>● Full Screen</li> <li>● local video ON/OFF control</li> <li>● Image Codec: JPEG,GIF,PNG,BMP</li> </ul>                                                    |
| Others              | <ul style="list-style-type: none"> <li>● Download content from the specified server</li> <li>● Information receiving, storing, and rendering capabilities</li> <li>● Web browser</li> <li>● Contacts and Call records management</li> <li>● Support playing local or online video</li> </ul> |
| Network Interface   | <ul style="list-style-type: none"> <li>● Dual switched 10/100/1000Mbps port,supporting IEEE802.az Energy Efficient Ethernet; optional PoE</li> </ul>                                                                                                                                         |
| Wi-Fi               | <ul style="list-style-type: none"> <li>● IEEE802.11 b/g/n</li> </ul>                                                                                                                                                                                                                         |
| Expansion Interface | <ul style="list-style-type: none"> <li>● USB 2.0, 3.5mm headset jack, HDMI</li> </ul>                                                                                                                                                                                                        |
| IP assignment       | <ul style="list-style-type: none"> <li>● Static IP, DHCP, PPPoE</li> </ul>                                                                                                                                                                                                                   |
| Management          | <ul style="list-style-type: none"> <li>● LCD Menu Configuration,TR069, WebUI</li> </ul>                                                                                                                                                                                                      |
| Dimension           | <ul style="list-style-type: none"> <li>● 240×192×106mm</li> </ul>                                                                                                                                                                                                                            |

## 2.3 Equipment Appearance And Interface Description

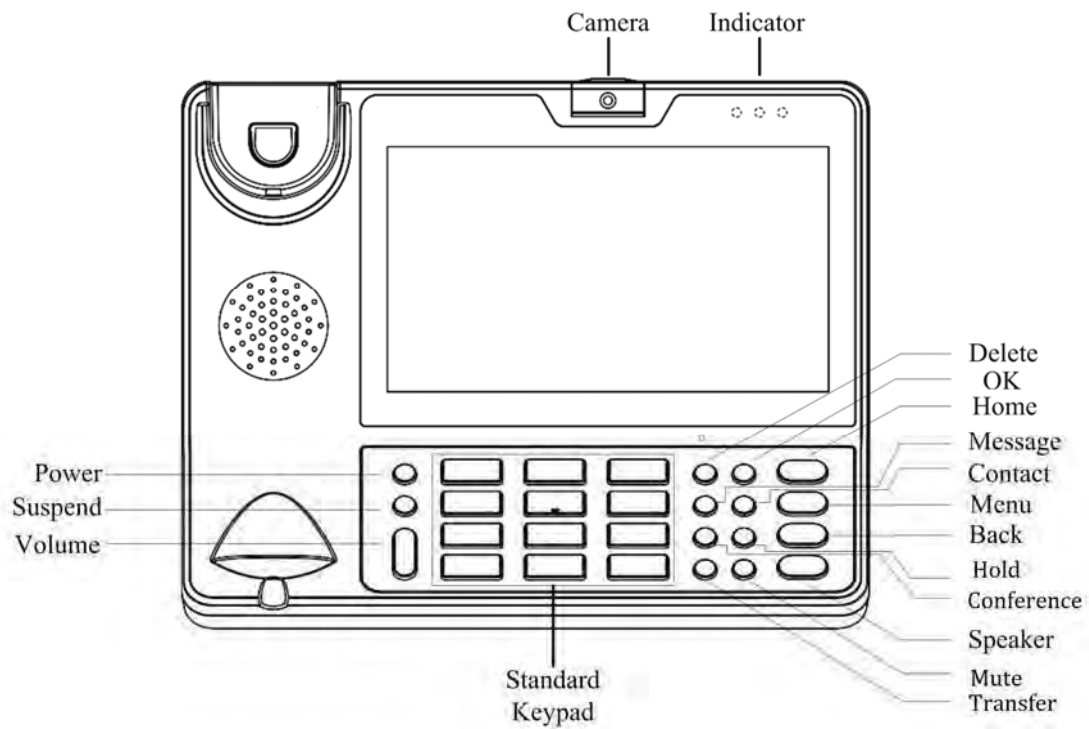


Figure 1-1 R48G Front View

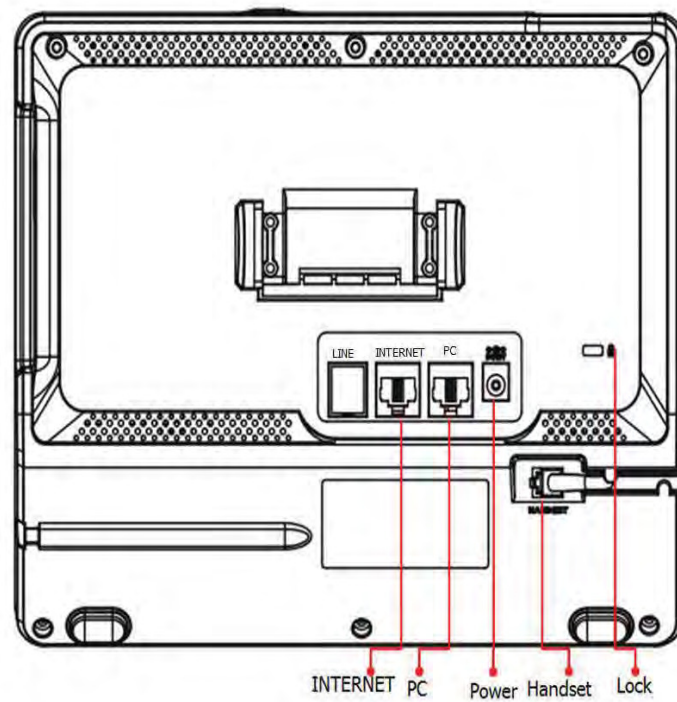


Figure 1-2 R48G Rear View

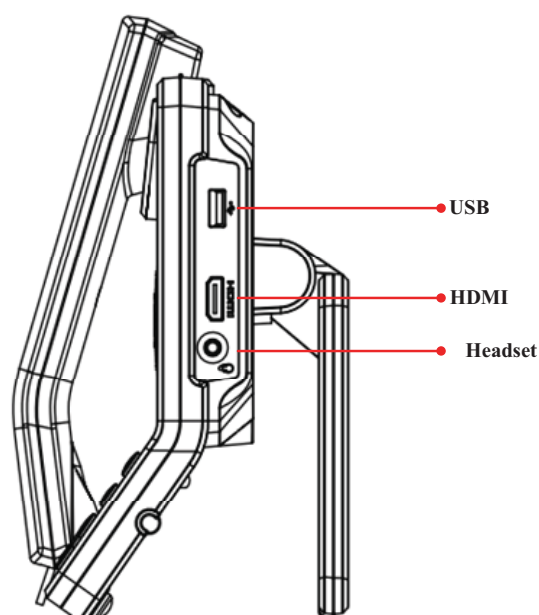


Figure 1-3 R48G Profile View

### 2.3.1 Interface Description

| Interface     | Description                                                                                                                      |
|---------------|----------------------------------------------------------------------------------------------------------------------------------|
| Camera        | Adjustable camera shooting angle, rotate down the camera to "off" angle.                                                         |
| USB interface | External USB storage device                                                                                                      |
| Headset       | Connect to 3.5mm stereo headphone, headset device                                                                                |
| HDMI          | Use HDMI cable to output the video to a TV screen                                                                                |
| LAN           | Network interface can be connected to a hub, switch or other network access devices. It also supports POE(Power over Ethernet) . |
| PC            | Share the network access from LAN port, and for PC and other equipment connection                                                |
| Power         | Connect to 12V adapter, Power supply                                                                                             |
| Handset       | Connect to handset                                                                                                               |
| Lock          | Lock the video phone with a Laptop lock                                                                                          |

**Note:** If Power over Ethernet is being used, do not plug in the AC adapter.

### 2.3.2 Keypad Description

| Interface | Description                              |
|-----------|------------------------------------------|
| Power     | Turn on/off the LCD, Reboot, Silent mode |
| Suspend   | Turn on/off the LCD, Reboot, Silent mode |

|                 |                                                                                     |                                                                                                                                     |
|-----------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Volume          | Press + or – for the phone volume adjustment                                        |                                                                                                                                     |
| Standard Keypad | Input the number or symbol                                                          |                                                                                                                                     |
| Function Key    | Delete                                                                              | Delete a character before the cursor                                                                                                |
|                 | OK                                                                                  | Same function with soft keyboard "Enter" key                                                                                        |
|                 | Message                                                                             | Optional                                                                                                                            |
|                 | Contact                                                                             | Enter Into the contacts list, you can view the local contact                                                                        |
|                 | Conference                                                                          | The first party is held in the case, according to a conference key, the first party can be combined to achieve a tripartite meeting |
|                 | Hold                                                                                | To hold a call during the call                                                                                                      |
|                 | Transfer                                                                            | To transfer the current call to the third party                                                                                     |
|                 | Mute                                                                                | The other party cannot heard the voice during the call                                                                              |
| Home            |    | Return to the main screen, and long press, it will display recently used applications                                               |
| Menu            |    | To call up the System or program setup menu                                                                                         |
| Back            |   | Return to the previous menu                                                                                                         |
| Speaker         |  | Speaker                                                                                                                             |

## 2.4 Indicators

| Indicator Name     | Icon                                                                                | Status   | Description                           |
|--------------------|-------------------------------------------------------------------------------------|----------|---------------------------------------|
| Power              |  | ON       | System is under working               |
|                    |                                                                                     | OFF      | System is not working                 |
| Network Connection |  | ON       | Network ( LAN Port ) is connected     |
|                    |                                                                                     | OFF      | Network ( LAN Port ) is disconnected  |
| Information        |  | Flashing | Contains Miss Calls or Unread Message |
|                    |                                                                                     | OFF      | Normal status                         |

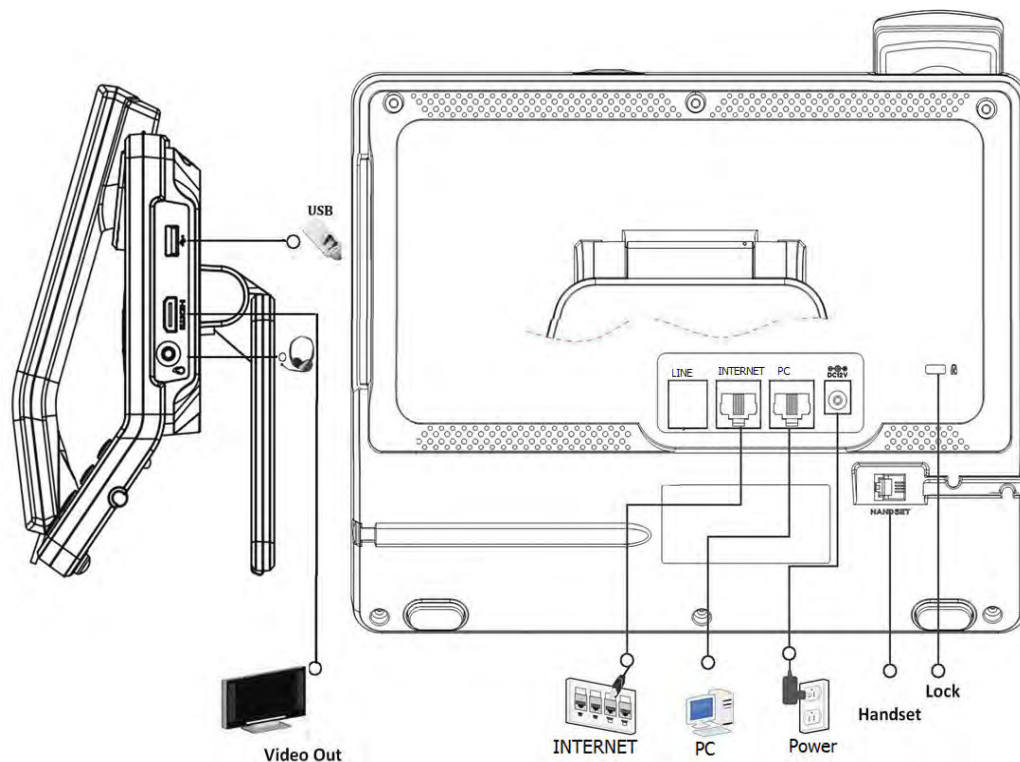
## 3 Installation

### 3.1 Equipment Packaging

| Name              | Quantity |
|-------------------|----------|
| Main Case         | 1        |
| Handset           | 1        |
| Phone Cord        | 1        |
| Power Adapter     | 1        |
| Ethernet Cable    | 1        |
| Quick Start Guide | 1        |

### 3.2 Connecting Video Phone

- Connection diagram



- **Connecting to Network**

Use the matched network cable to connect the LAN Port of the video phone to the Router or Switch. Viewing the top right corner of the screen, if the indicator light  is on, network cable is connected properly.

- **Connecting to PC**

Use the matched network cable to connect the PC Port of the video phone to the PC. The PC can access to the internet network via PC Port of the video phone.

### **3.3 Installation Considerations**

This product is a desktop product, and here are some safety recommendations about the installation and the usage:

- Do not use this product near water, such as: bath, washbasin, kitchen sink and other damp places and so on;
- Place the device in a place away from heat;
- Place the device away from traffic areas to prevent collisions;
- Please use the equipment with the matching power adapter or POE;

# 4 Getting Started

## 4.1 Basic Operation

### 4.1.1 Main Screen Instruction



- Status bar, at the top of the screen, displaying the status of system information.
- Shortcuts, at the bottom of the screen, user can drag a shortcut to this region to achieve the replacement of the shortcut. Supports max four shortcuts.

### 4.1.2 Status And Notifications Instruction

The status bar in main screen is divided into two zones, notification area and status area, as shown below:



#### Status Area

| Icon                                                                              | Description               |
|-----------------------------------------------------------------------------------|---------------------------|
|  | Network is connected      |
|  | Slide mode (Sound is off) |
|  | Alarm clock is set        |
|  | Bluetooth is opened       |

#### Notification Area

| Icon                                                                                | Description                 |
|-------------------------------------------------------------------------------------|-----------------------------|
|    | SIP account is unregistered |
|    | SIP account is registered   |
|  | Missed call                 |
|  | uploading                   |

### 4.1.3 Using The Touchscreen

- **Tap**

To select items on the screen (e.g., setting options, apps); to press onscreen buttons; to type letters and symbols using the onscreen keyboard.

- **Touch and Hold**

Touch the item on the screen and hold it without lifting your finger from the screen till an action occurs.

For example, touch and hold on a picture to bring up operation options.

- **Drag**

Touch and hold an item for a few seconds first. Once the item has a red frame activated, or a move option shows up, keep your finger on the screen and move it until the target position is reached. Then lift your finger up to release.

- **Slide**

Move your finger fast across the screen to slide. To view different idle screens or menu pages, slide left or right; to view the status bar on top of the screen, place your finger on the bar and slide it down. If your finger stays on the screen for too long, the item may be selected and sliding won't occur.

- **Double-click**

Click on the screen twice in quick succession, for example, when user surfs in browser, you can quickly click twice on the page, the page can be enlarged.

- **Pinch**

Place two fingers on the screen, then pinch them together (zoom out) or spread them apart (zoom in). This could be used in a picture.

#### **4.1.4 Startup And Shutdown**

- **Startup**

Connect to the power supply, the system automatically starts up.

- **Shutdown**

If you do not use the device, directly remove the power supply, to save electricity.

- **Reboot**

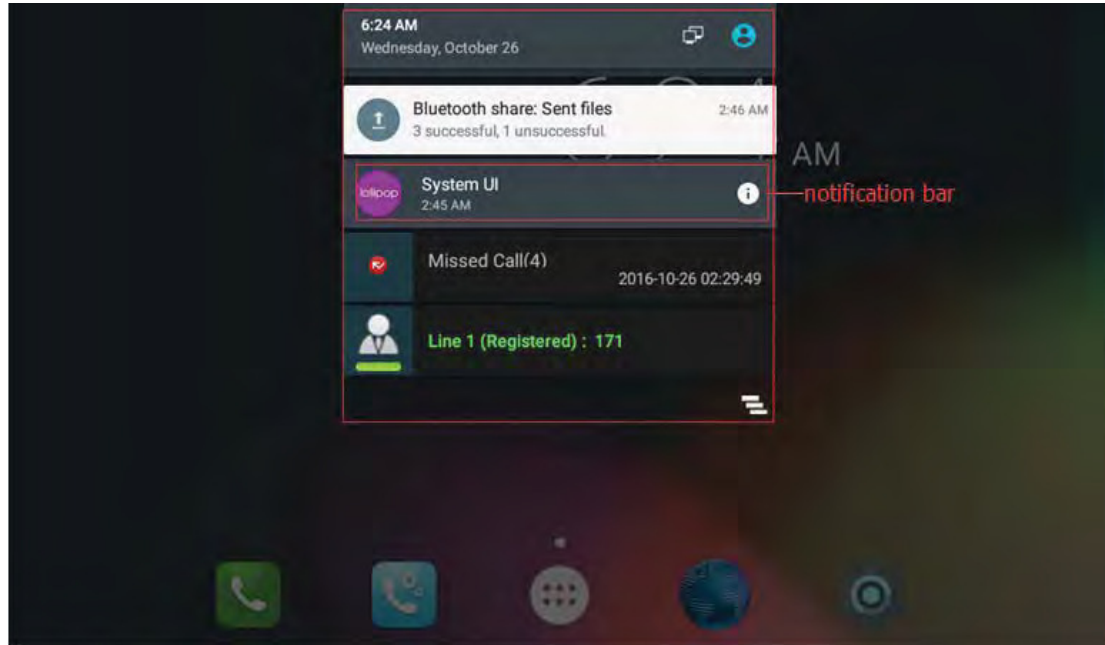
If you need to restart the device, according to the following steps:

- 1) Press and hold the "Power" button until the pop-up "Options" menu.
- 2) Click the "Reboot"

#### **4.1.5 View / Turn Off Notifications**

- To view notifications, drag down the status bar, then click the each notification bar to view the detail notification.
- Touch and hold one of notifications bar until the icon  appear, tap the icon  to enter the priority setting interface.

- To turn off notifications, simply drag down the middle of the idle screen to display notifications, click on the icon  to clear up the notice. As shown below.



## 4.2 Connecting To Network And Wi-Fi

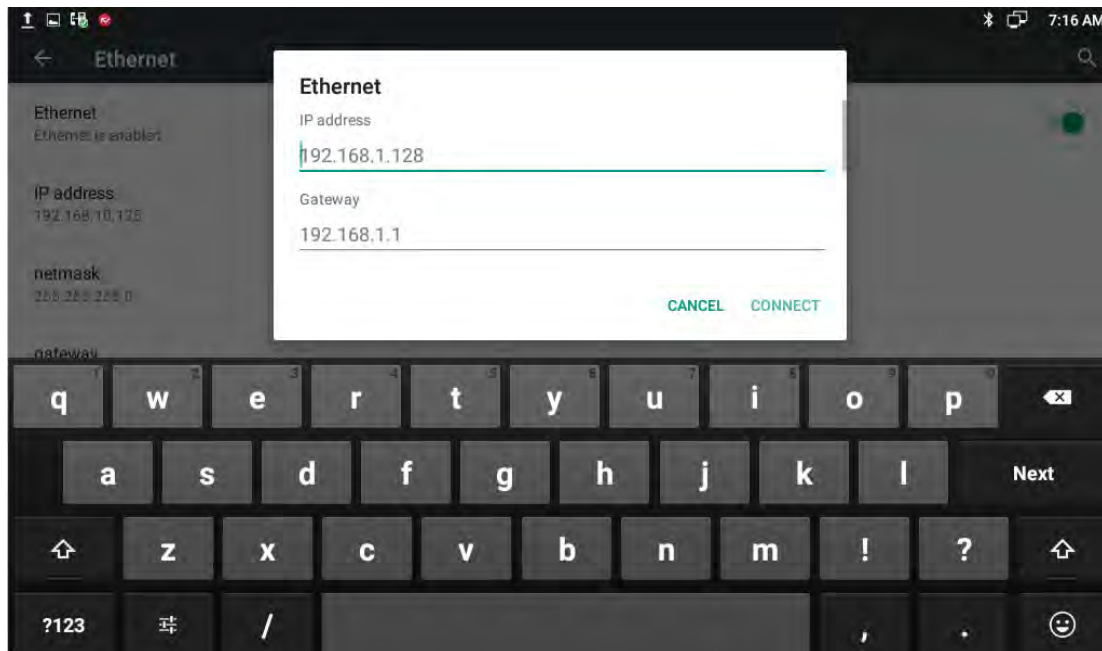
VP-R48G supports a variety of network connections (Ethernet, Wireless) and the device Network connections includes three modes, Static IP, DHCP, Wi-Fi access. DHCP is the default configuration. The device connections include EHS headset, USB and Bluetooth device.

### 4.2.1 Configuring Static IP

You can select one of the following methods to enter the static IP configuration interface:

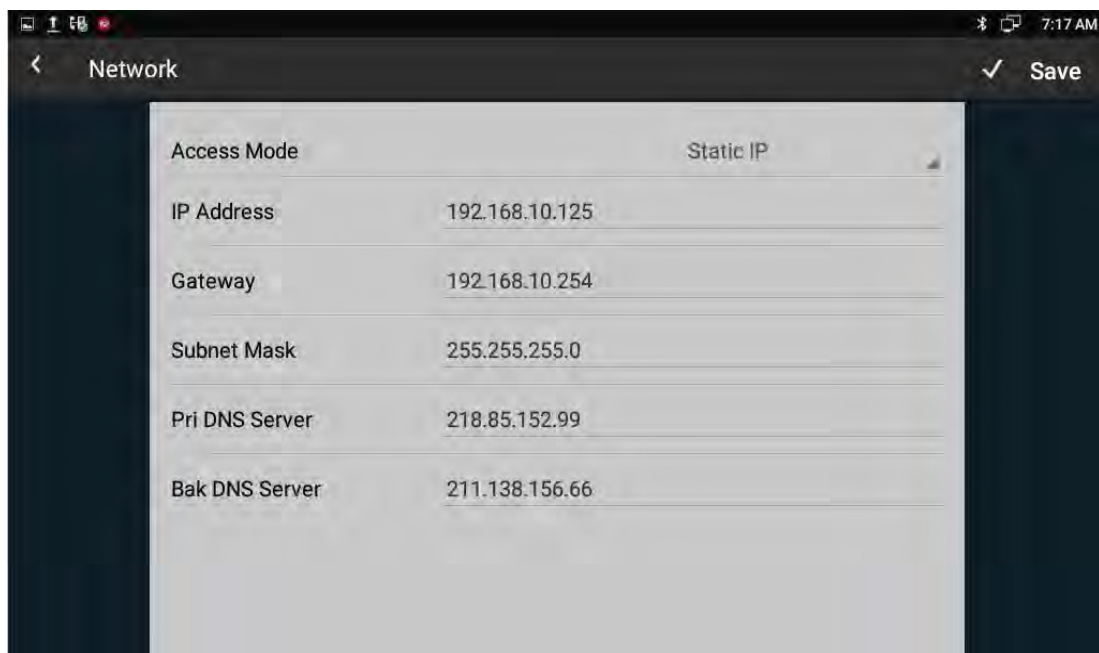
- Mode 1: In the main screen, tap icon  -> Settings  -> Wireless & Networks-> More-> Ethernet -> Ethernet Ip mode -> check static.

Configuration page is shown as below:



- Mode 2: In the main screen, tap icon  -> Network Settings -> LAN Type->Access Mode->chose Static IP.

Configuration page is shown as below:



Configuration parameter specification:

| Parameter       | Specification                     |
|-----------------|-----------------------------------|
| IP address      | set the IP address of the device  |
| Subnet Mask     | set the subnet mask of the device |
| Default Gateway | set the default gateway           |

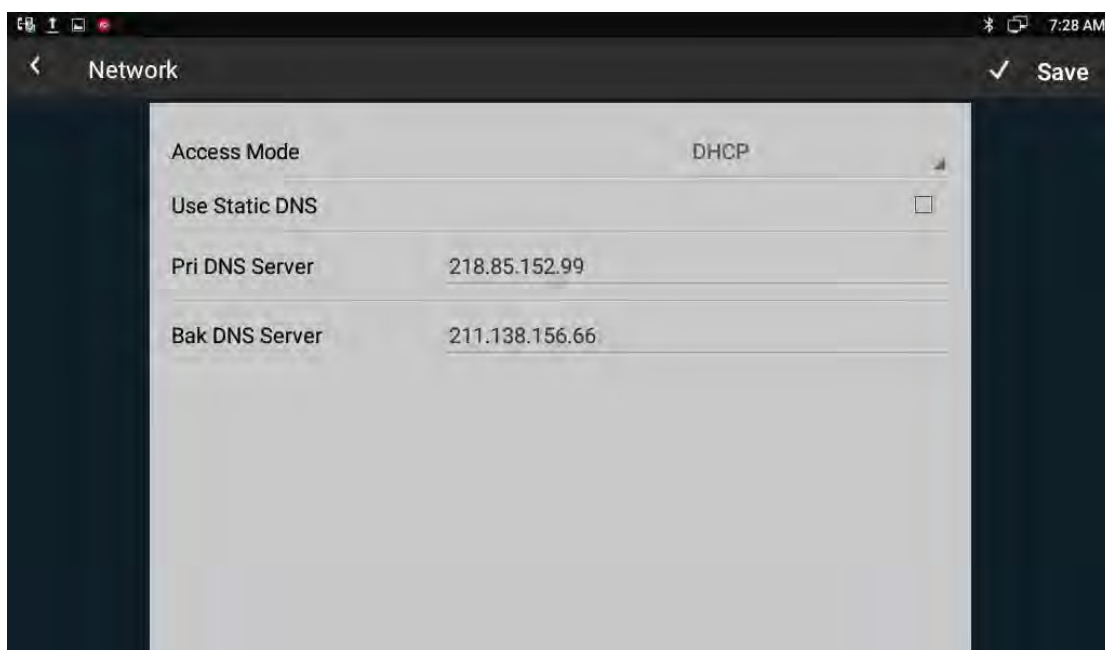
|                        |                            |
|------------------------|----------------------------|
| DNS Server             | set the DNS address        |
| Alternative DNS Server | set the backup DNS address |

### 4.2.2 Configuring DHCP

You can select one of the following methods to enter the DHCP configuration interface:

- Mode 1: In the main screen, tap icon  -> Settings  -> Wireless & Networks->More->Ethernet -> Ethernet Ip mode->check dhcp.
- Mode 2: In the main screen, tap icon  ->Network Settings->Network Management->LAN Type->Access Mode-> chose DHCP.

Configuration page is shown as below:



**Note:**

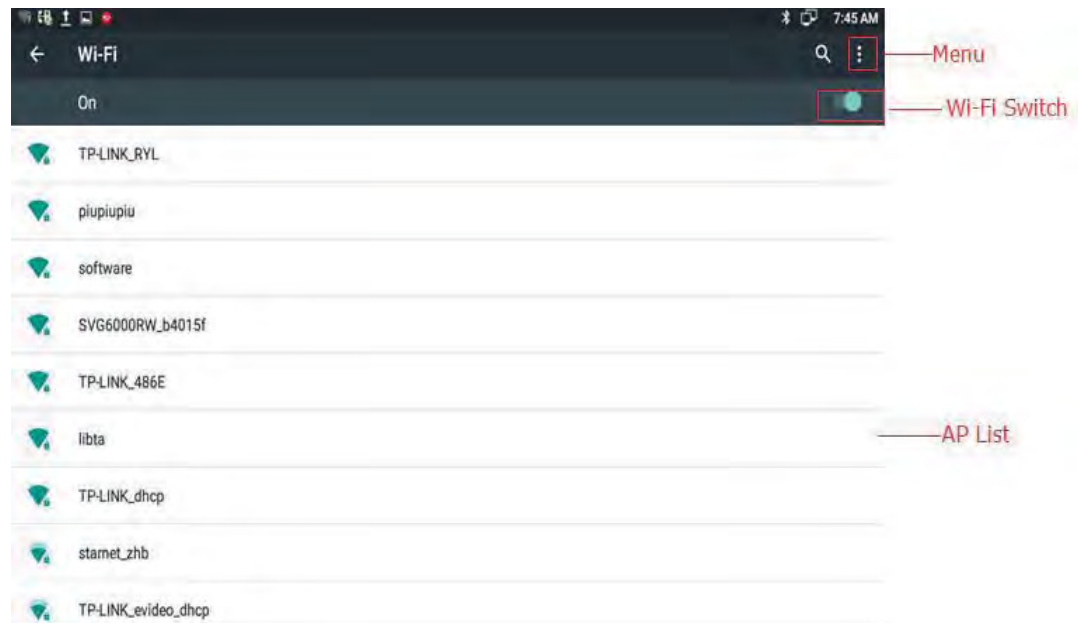
- 1) There is a item of Use static DNS at the second bar, when checked, you can modify the primary DNS address and Secondary DNS address.
- 2) If DHCP is failed, the IP address will show as: 0.0.0.0.

### 4.2.3 Configuring Wi-Fi

You can select one of the following methods to enter the Wi-Fi configuration:

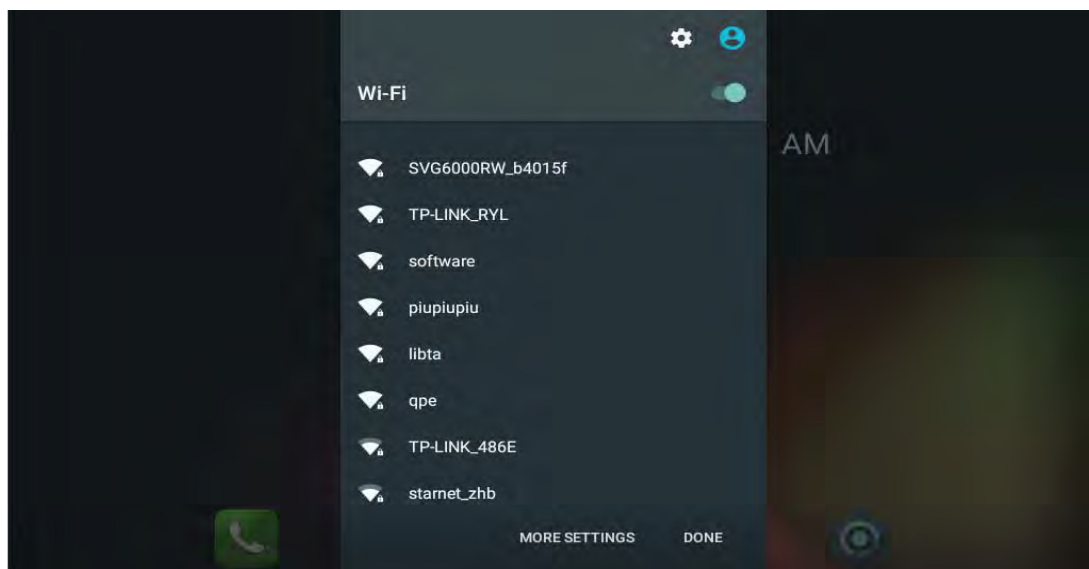
- Mode 1: In the main screen, tap icon  -> Settings  -> Wireless & Networks-> Wi-Fi.

Configuration page is shown as below:

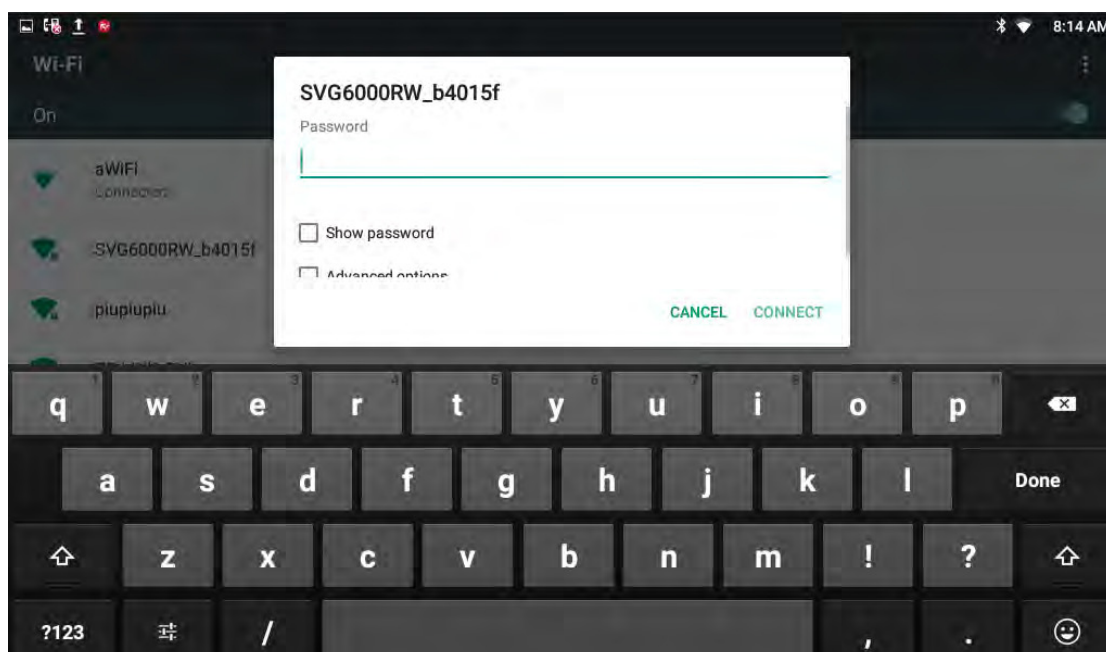


- Mode 2: In the main screen, drag down the middle of the idle screen to display notifications-> tap icon  -> tap Wi-Fi.

Configuration page is shown as below:

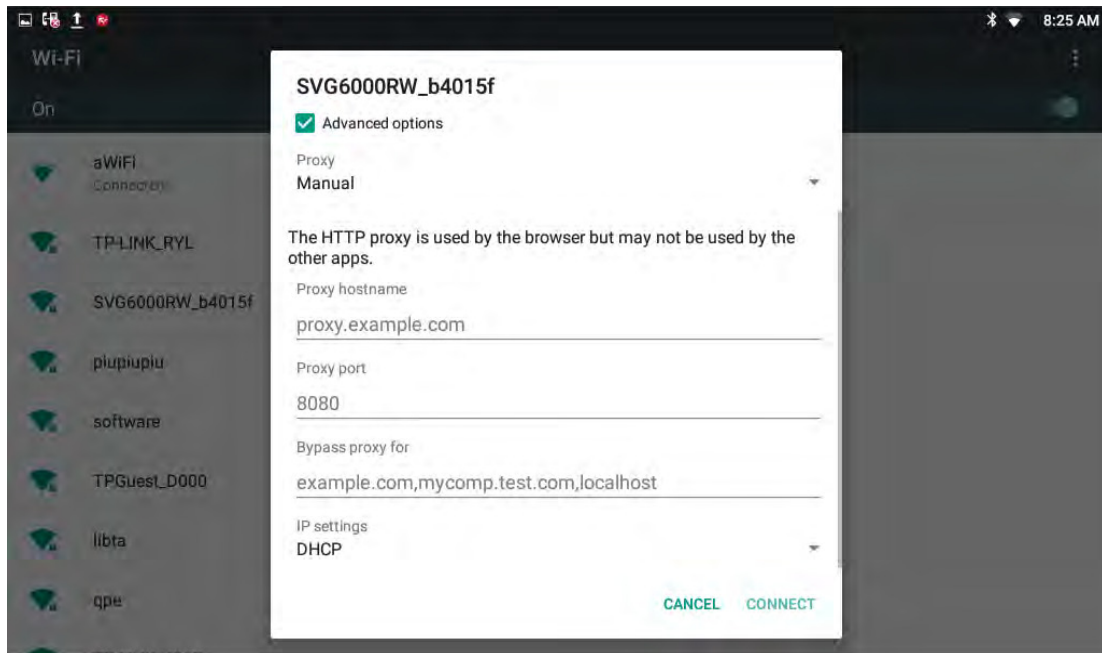


- 1) When the Wi-Fi switch is turned on, the video phone can list and display all Wi-Fi AP searched in the environment.
- 2) When connects to available AP in the environment, if a Wi-Fi AP is without password protection, there is no lock icon on Wi-Fi signal, it will automatically connect when clicked.
- 3) If a Wi-Fi AP is encryption, Wi-Fi signal will be added the lock icon, and when checked, it will pop up a dialog box to enter a password. If the password is incorrect, the connection will not be successful. As shown below:

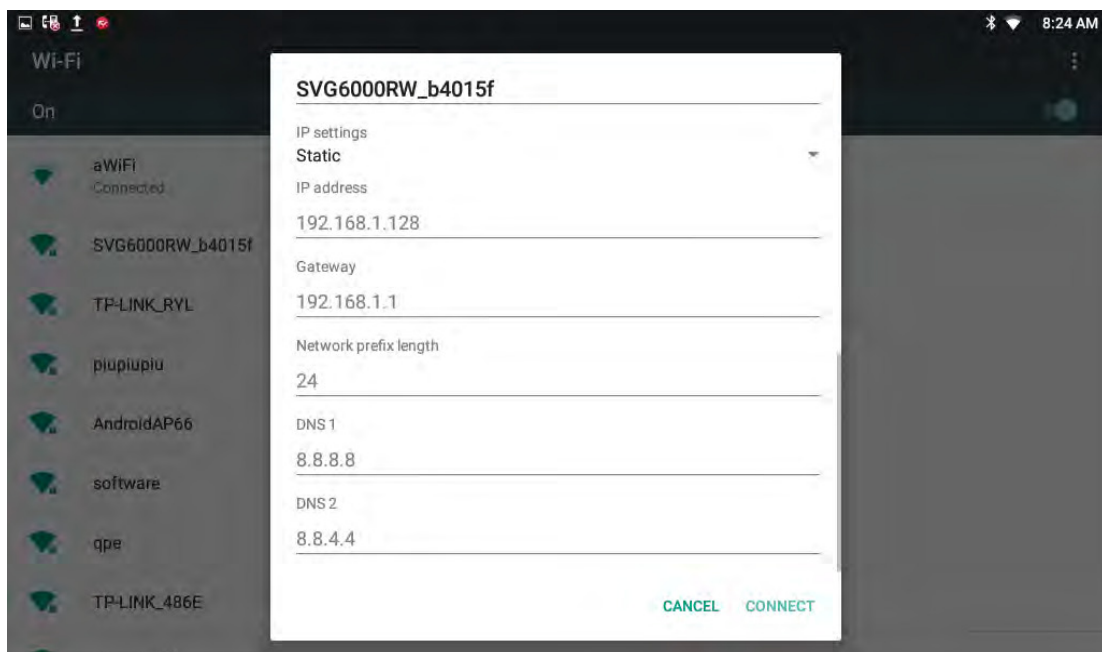


- 4) check Show advanced options, drag up to the modify Proxy server and IP mode.

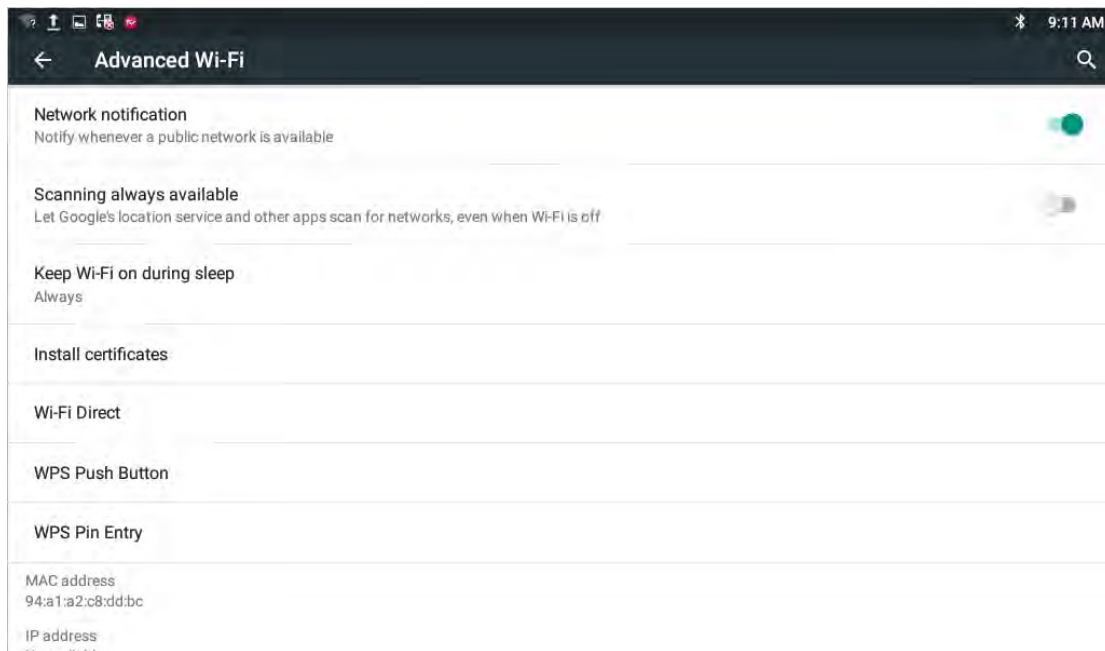
Proxy Settings



IP settings(Static IP):



- 5) Tap the connected Wi-Fi AP, it will pop-up a dialog box, you can forget the network or modify the network. Touch and hold on the non-connected Wi-Fi AP, it will pop up a dialog box, and you can click and connect to network.
- 6) Click Menu, you can do the operations such as: add network setting, refresh the Wi-Fi AP list and Advanced setting.
- 7) In Advanced Menu, shown as below:



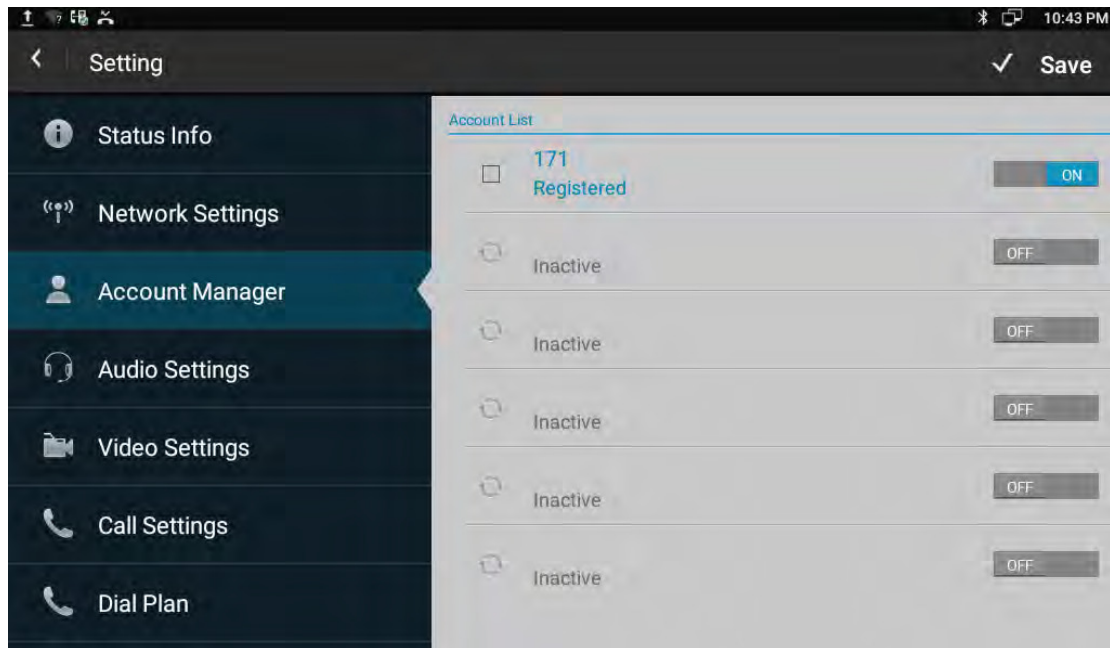
- a. Check Network notification, it will notify you when an open network is available;
- b. Check Scanning always available, let google's location service and other apps scan for networks, even when Wi-Fi is off.
- c. View the Wi-Fi Mac address and IP address;

### 4.3 SIP Account Configuration

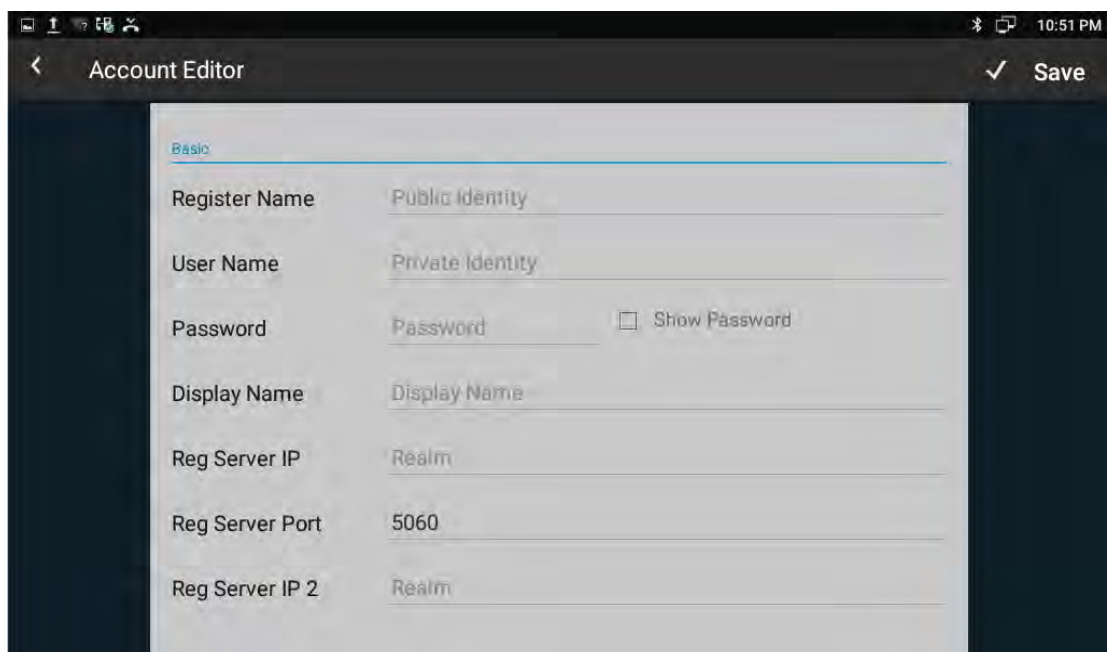
You can select one of the following methods to enter the SIP account configuration:

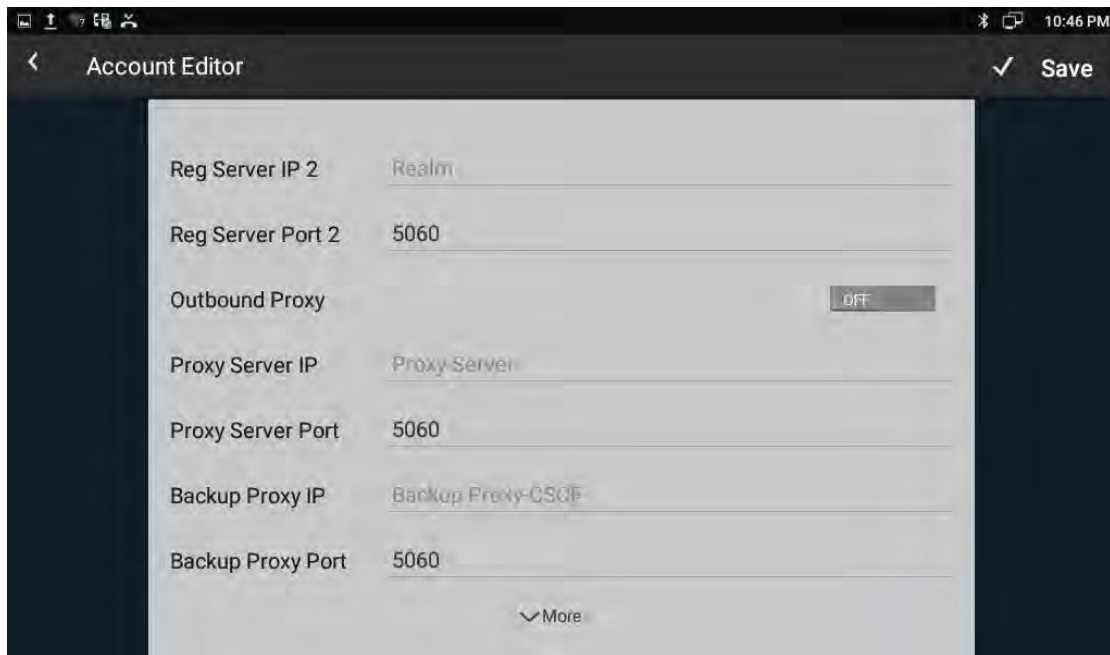
- Mode 1: In the main screen, tap icon  -> click  -> click Account Manager.
- Mode 2: In the main screen, tap  -> click  -> click  -> click Account Manager.
- Mode 3: Directly pick up the handset or press Speaker button  -> click  -> click Account Manager.
- Mode 4: Click Browser icon , input IP address to enter login interface. Input username and password( default:admin;admin), click Login label. Go to the path: Account->Basic.

### 4.3.1 Add Account



Click an account to enter Account Editor interface.





Configuration parameters are described as follows:

| Parameter         | Specification                                                       |
|-------------------|---------------------------------------------------------------------|
| Register Name     | SIP Account ID provided by ISP                                      |
| User Name         | SIP User Name provided by ISP                                       |
| Password          | SIP Password provided by ISP                                        |
| Display Name      | SIP Display name                                                    |
| Reg Server IP     | SIP Register Server, format: domain/IP, for example: 194.168.1.2    |
| Reg Server Port   | The default port is 5060.                                           |
| Proxy Server IP   | SIP Proxy Server, format: domain/IP, for example: 194.168.1.2       |
| Proxy Server Port | The default port is 5060.                                           |
| Backup Proxy IP   | SIP Backup Proxy Server, format: domain/IP,for example: 194.168.1.2 |
| Backup Proxy Port | The default port is 5060.                                           |

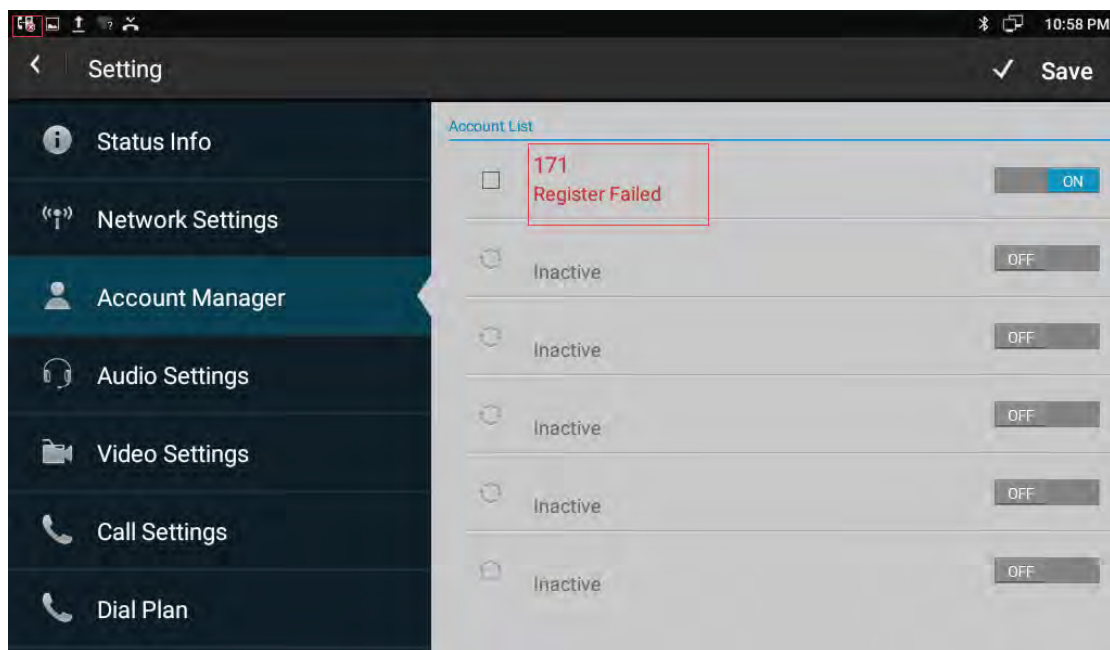
After all the parameters are configured, Click "save" button to save the configurations, then the sip account is added successfully. Then active the account.

### 4.3.2 SIP Account ON/OFF

After SIP account is configured and registered successfully, it will display the prompt "Registered" in the Account Manager, and the icon  will be displayed on the status bar.

If you want to disable the registered account, tap the icon  to change the account status, the icon  will be shown on the status bar.

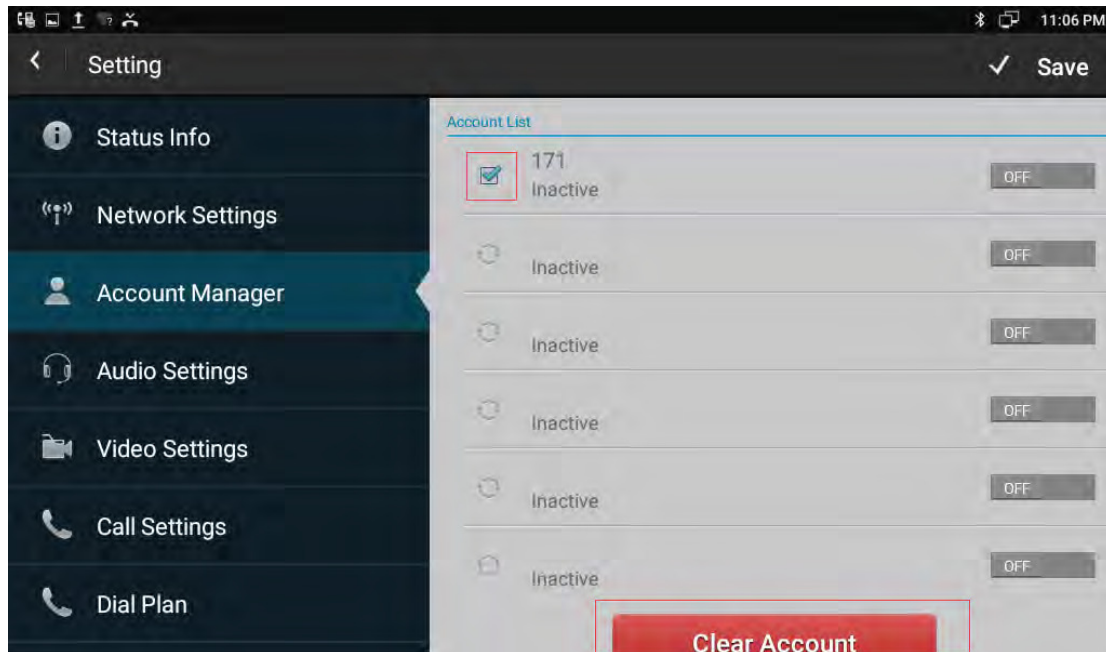
If the sip account is failed to register, the failure code will be displayed under the account, and then you can check with the account configuration or network connection. The icon  will be shown on the status bar. As shown below:



### 4.3.3 Modify/Remove SIP Account

- 1) Modify the sip account: Directly click the account to modify.

- 2) Remove the sip account: Click the box of the account which you want to delete, then on the bottom of the account list will display the label “Clear Account”, tap this label to remove the selected account.

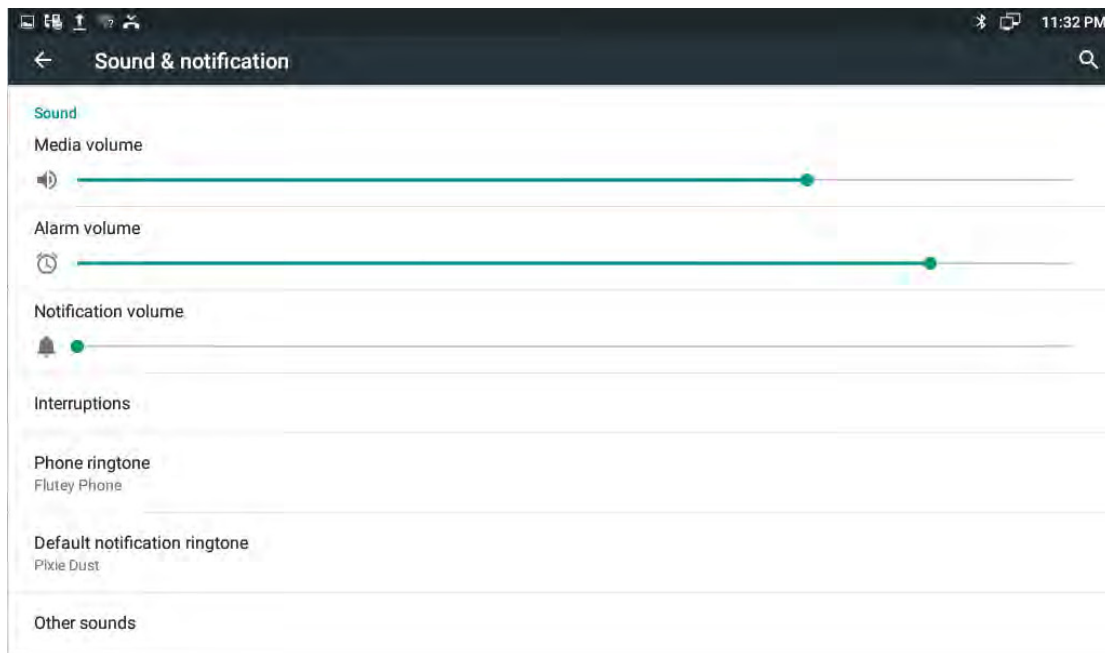


## 4.4 Sound & notification

You can select one of the following methods to enter the Sound configuration:

- Mode 1: In the main screen, tap shortcut icon  -> Device-> Sound & notification.
- Mode 2: In the main screen, click  -> Settings  -> Device-> Sound & notification.
- Mode 3: Drag down the status bar, click the icon  on the status bar -> tap icon  -> Device-> Sound & notification.

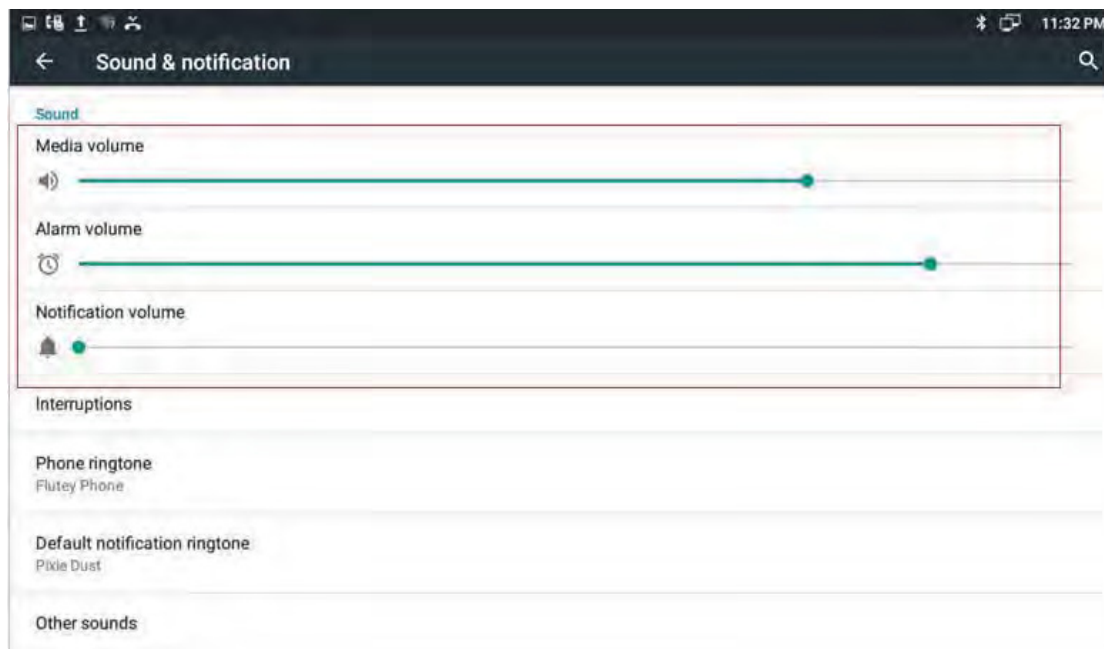
Configuration page is shown as below:



Including Volume, Ringtone and Notification.

#### 4.4.1 Volumes

In Sound & notification page, the volume configure is shown as below:

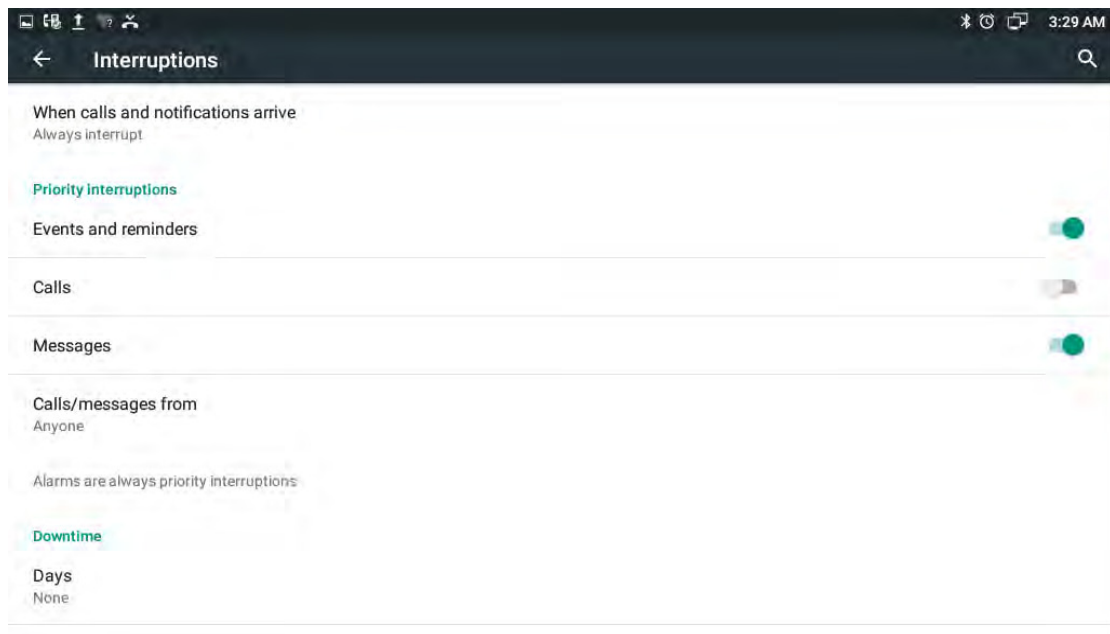


- Volume options include Media, Alarm clock, Notification.
- You can directly click a volume location to adjust the volume.
- The volume settings, you can also press the keyboard volume button "+" or "-" to increase or decrease the volume. Usually, volume button is

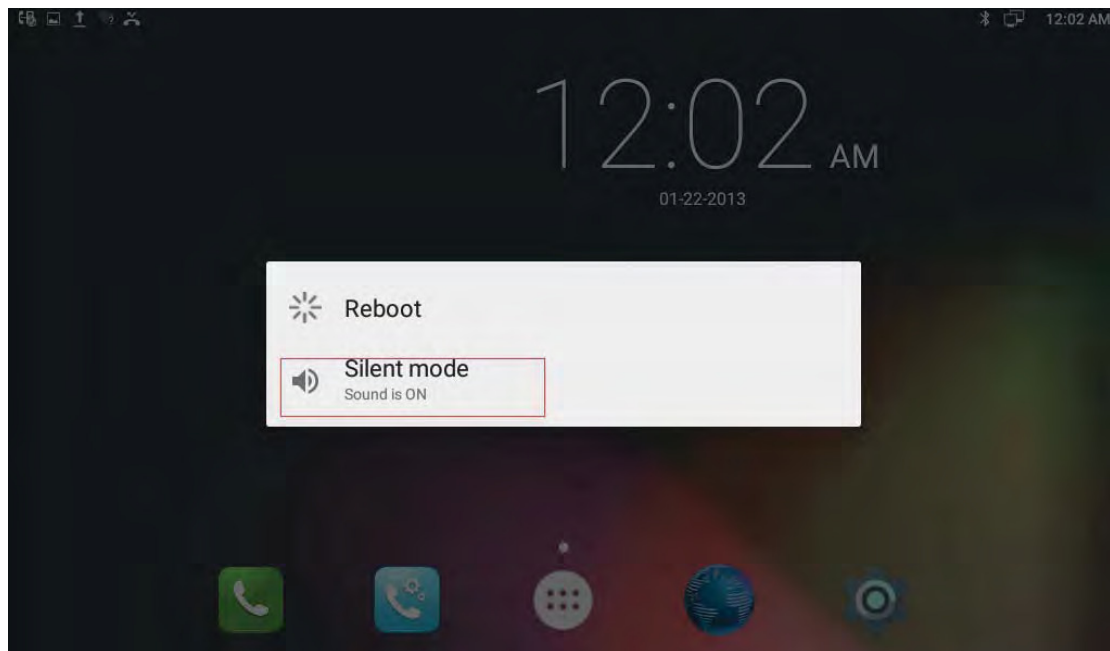
to adjust for ringtone or notification volume, but in the broadcast media, pressing volume button is to adjust for media volume.

#### 4.4.2 Interruptions

In the Sound & notification interface, click the Interruptions bar, enter the interruptions setting interface. If the user open the Silent mode, can enter the interruption interface to set priority event or priority time allow interrupt.

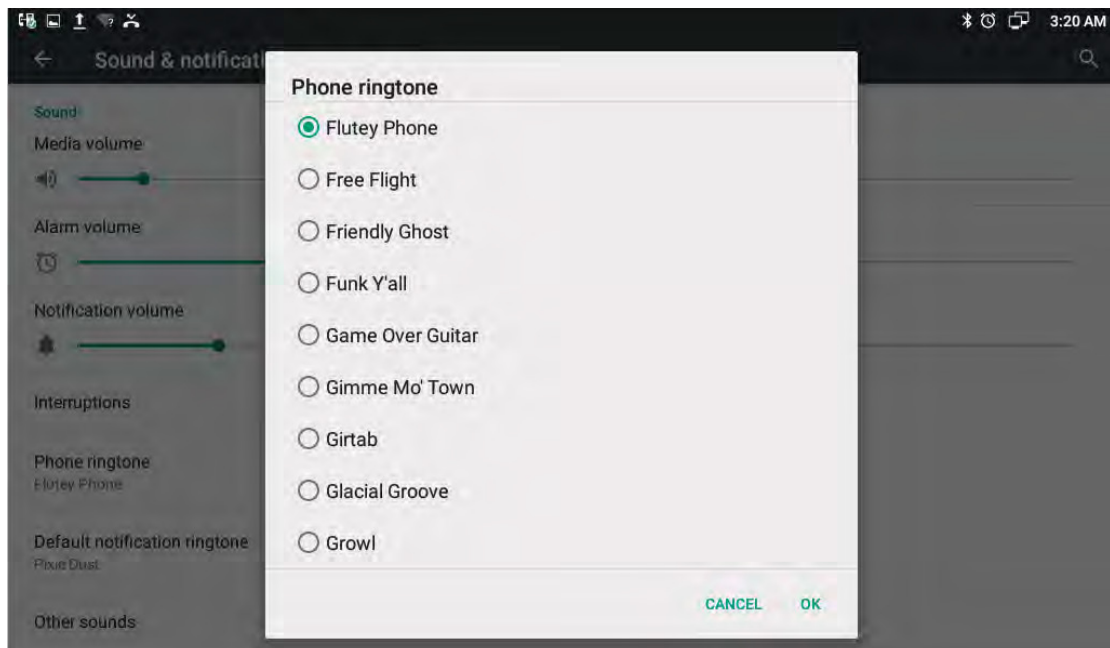


Touch and hold the Power button, tap the Silent mode bar in the pop-up menu to change the status. The silent mode icon  will be displayed on the right side of the status bar. As shown in the picture below:



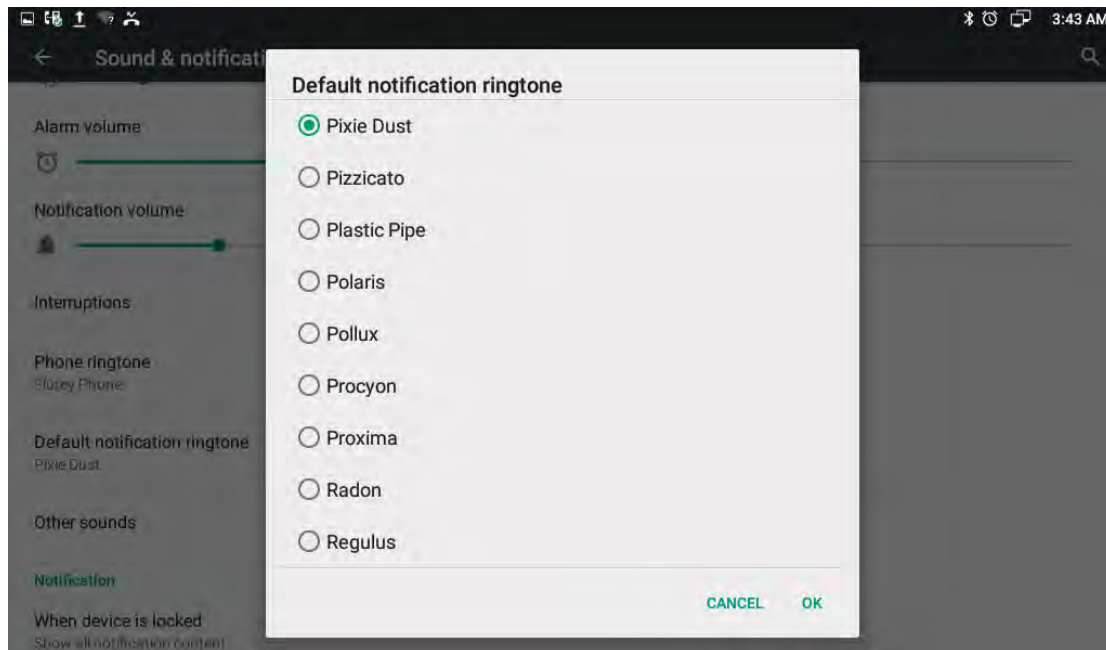
#### 4.4.3 Phone ringtone

In the Sound & notification interface, click the Phone ringtone bar to pop up default ringtone setting interface. Click the ringtone you want to set, after the selection, it will ring a short time. Finally, click "OK". Setting interface shown as below:



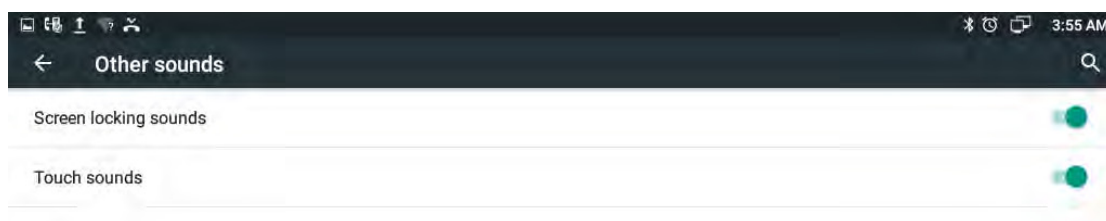
#### 4.4.4 Default notification ringtone

In the Sound & notification interface, click the Default notification ringtone bar to pop up the phone default notification ringtone setting interface. Click the ringtone you want to set, after the selection, it will ring a short time. Finally, click "OK". Setting interface shown as below.



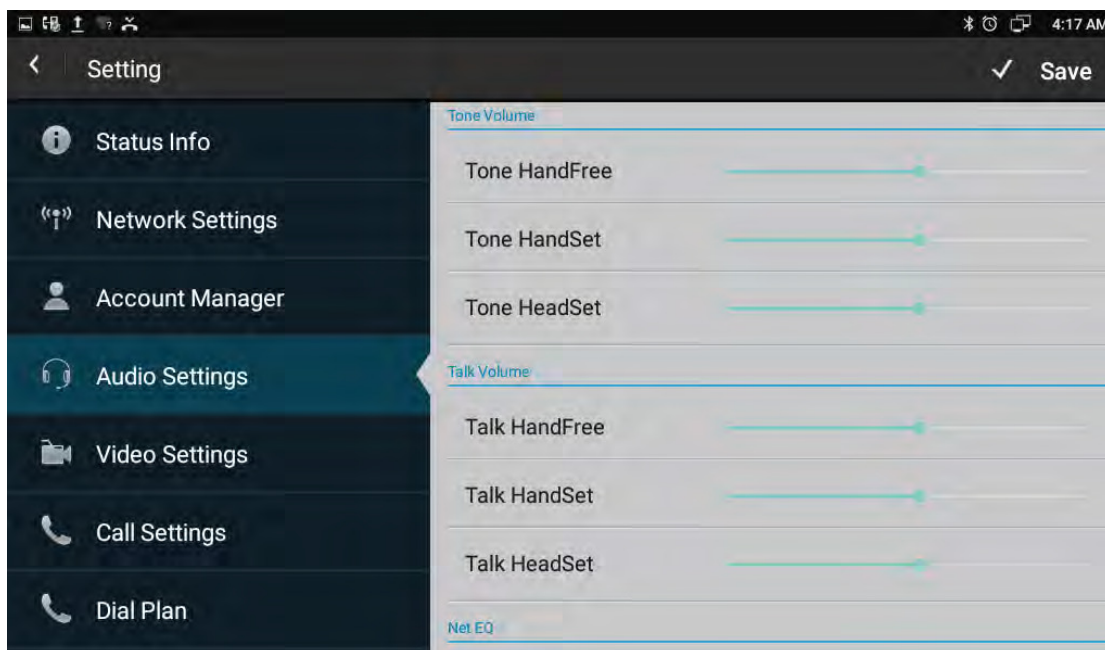
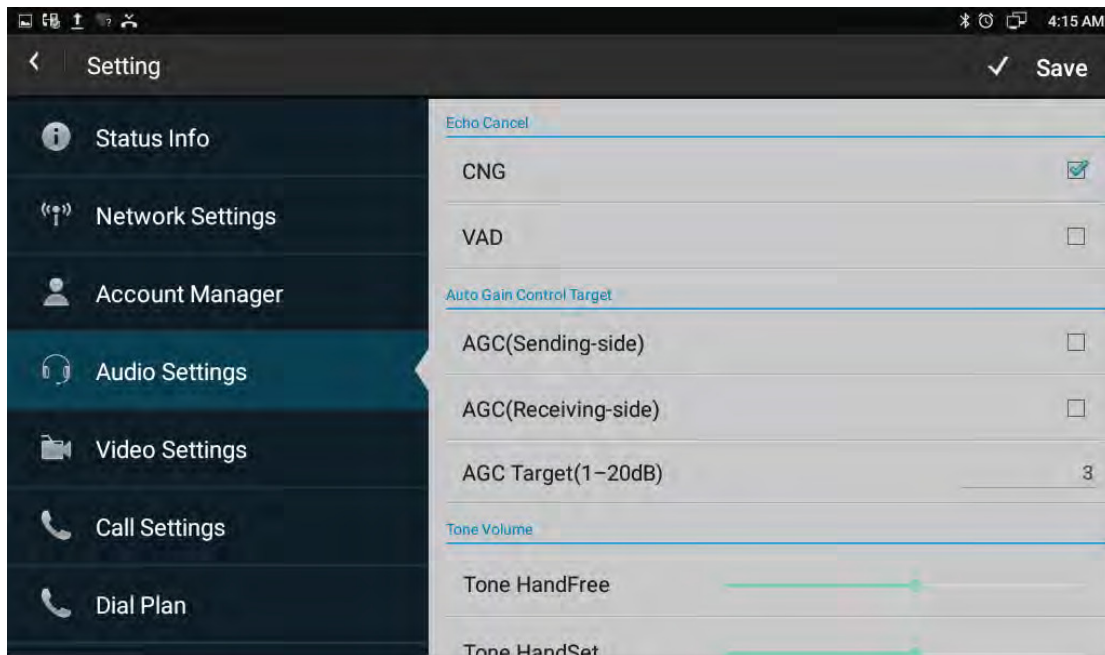
#### 4.4.5 Other Sounds

If you want to enable Screen locking sounds and Touch sounds, please go to Other Sounds configuration page to click the correspond sound. Screen locking sounds and Touch sounds are enabled in default configuration. Shown as below.



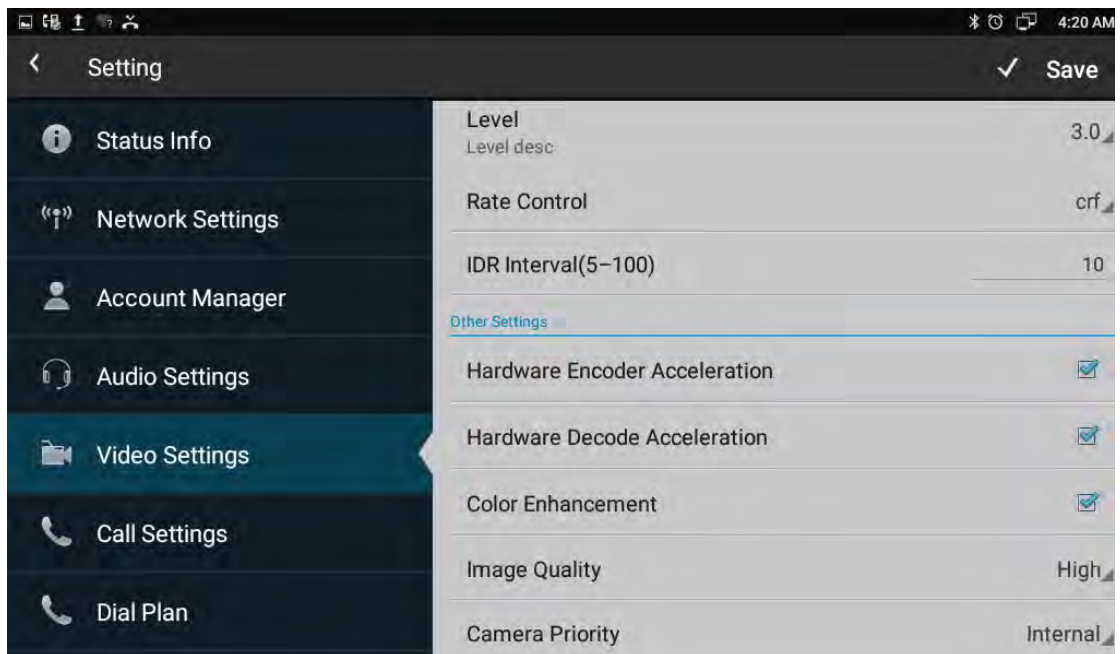
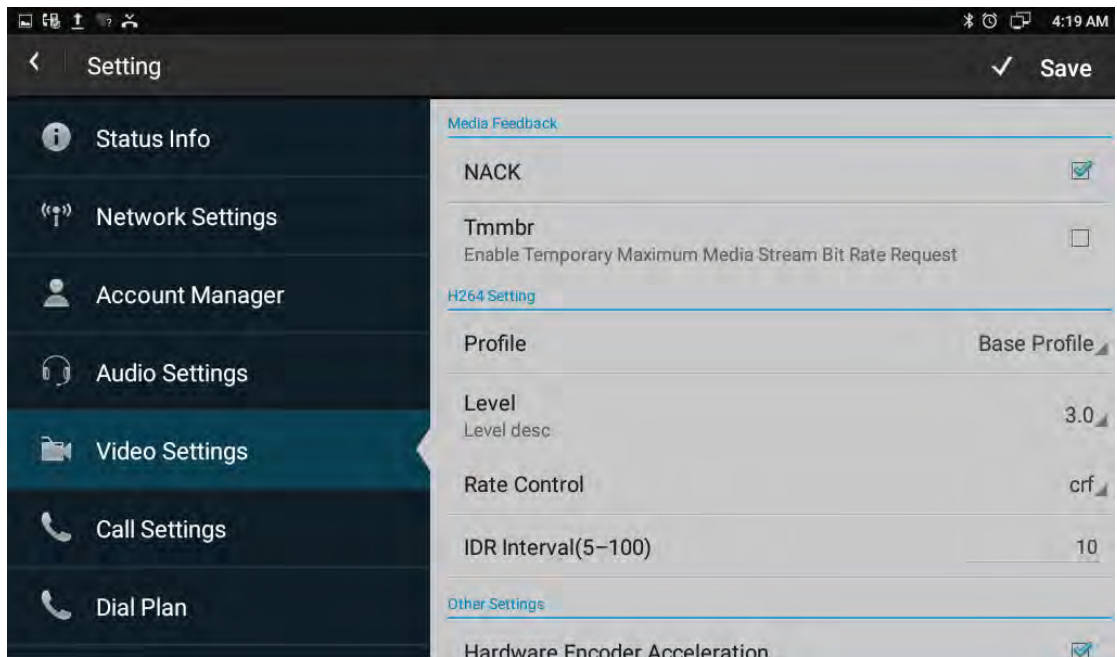
### 4.5 Audio Settings

To setup the corresponding audio parameters and Volume.

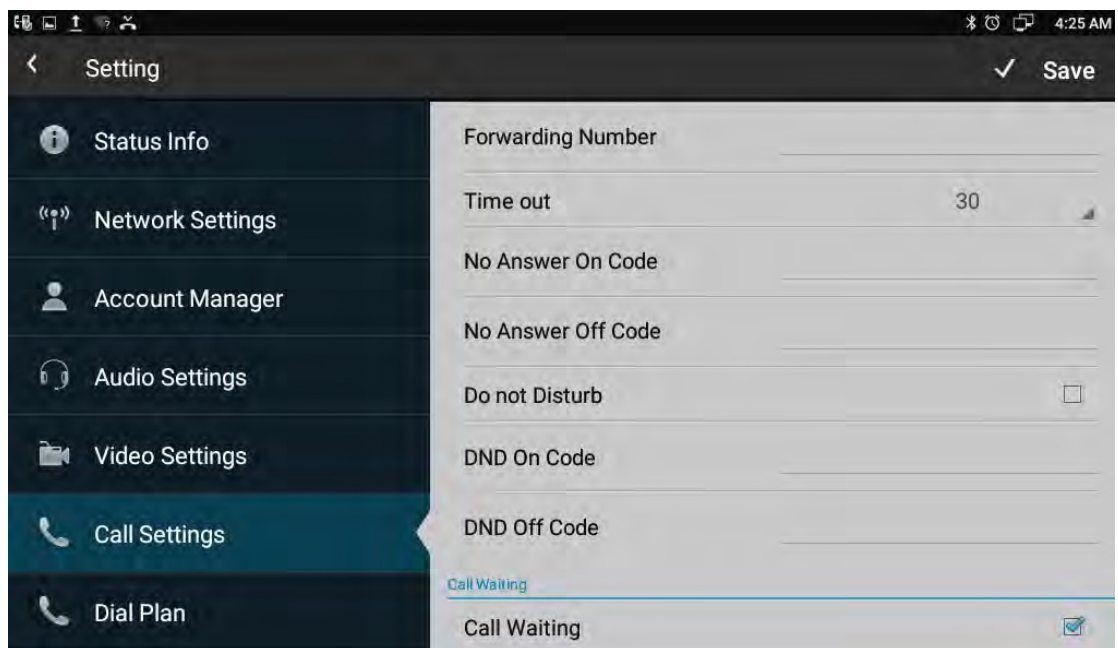
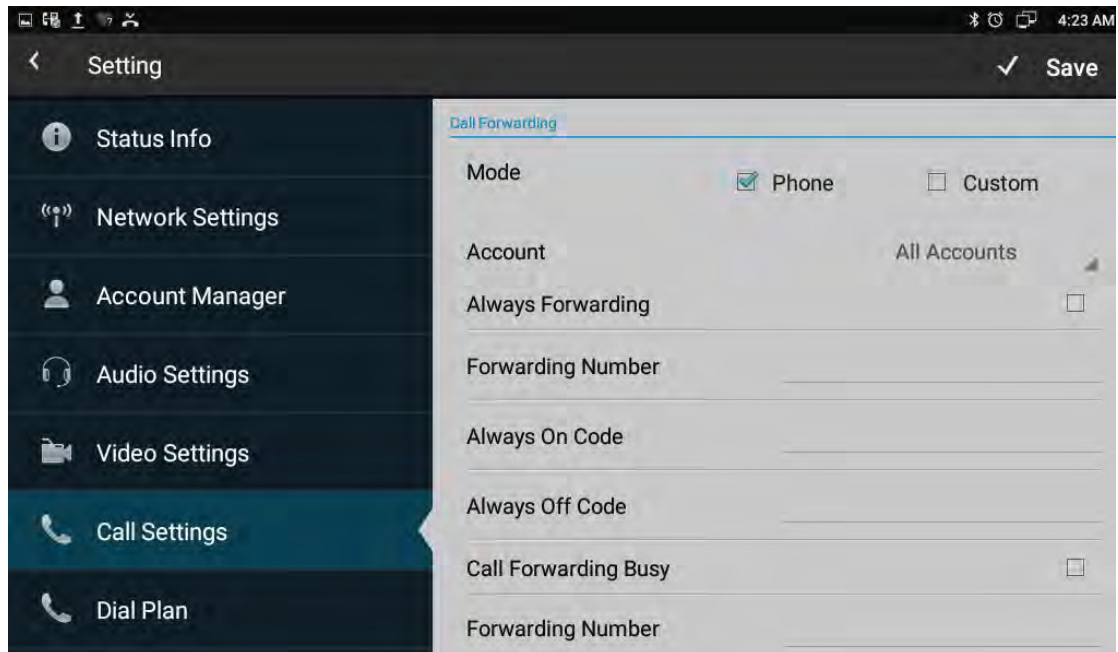


## 4.6 Video Settings

To configure the video corresponding parameters.



## 4.7 Call Settings



### 4.7.1 Always forwarding & Forwarding Number

All the incoming calls will be forwarded unconditionally to specified number.

Configuration on the phone:

1. Phone Settings -> Call Settings -> Call Forwarding -> Always Forwarding
2. Select the desired account on the Account bar.
3. Check to enable Always Forwarding feature.
4. Input the forward number into the Forwarding Number bar.

#### **4.7.2 Call forwarding busy & Forwarding Number**

The incoming calls will be forwarded to specified number when the phone is busy.

Configuration on the phone:

1. Phone Settings->Call Settings->Call Forwarding->Call Forwarding Busy
2. Select the desired account on the Account bar.
3. Check to enable Call Forwarding Busy feature.
4. Input the forward number into the Forwarding Number bar.

#### **4.7.3 No Answer Forwarding & Forwarding Number**

The incoming calls will be forward to the specified number when the ringtone is time out without answer.

Configuration on the phone:

1. Phone Settings->Call Settings->Call Forwarding->No Answer Forwarding
2. Select the desired account on the Account bar.
3. Check to enable No Answer Forwarding feature.
4. Input the forward number into the Forwarding Number bar.

#### **4.7.4 Time out**

Set up the no answer forwarding time. When the call is beyond the time (the default is 30 seconds) without answer ,it will forward to the target number. The range value is 0 to 120 second.

#### **4.7.5 Do Not Disturb**

DND function is to prevent foreign phone from disturbing, If open DND, external phone call is unable to call in, turned off by default.

Configuration on the phone:

1. Phone Settings-> Call Settings-> Do not Disturb
2. Select the desired account on the Account bar.
3. Check to enable Do not Disturb feature.

#### **4.7.6 Call Waiting**

If enable call waiting feature, after establishment of a conversation, there is a third party call in, then video phone will have a new call tips, the incoming call will be displayed on the conversation interface, user can choose to answer or reject the call. If disable the call waiting feature, the third party will prompt a busy tone. Call waiting feature enable by default.

Configuration on the phone:

1. Phone Settings->Call Settings->Call Waiting
2. Enable Call Waiting feature.

#### **4.7.7 Playtone**

The caller will hear the tone when waiting. Different SIP server supports different playtone.

#### **4.7.8 Intercom**

It is used to answer the incoming call automatically after users set up the intercom function. In default situation, the phone will answer the intercom call automatically, the speaker's voice can be heard by intercom originator. User can set the phone to

enable silent mode when auto-answer the intercom call and the intercom originator will not hear speaker's voice.

#### **4.7.9 Hotline**

Enable the Hotline feature allows the phone to call out a defined number automatically, without input any number by manual in dial-up interface. Hotline Delay Time is to set the call out delay value. The range value is 0 to 5 second.

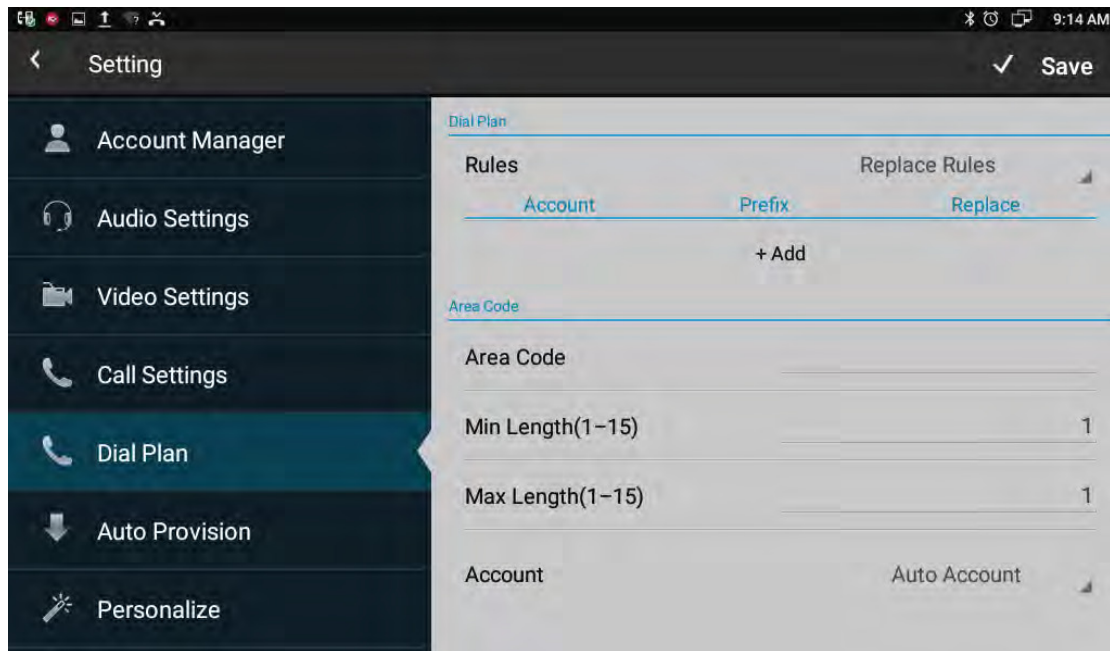
### **4.8 Dial Plan**

**Rules:** Allow user to select Replace Rules or Dial Now to display or edit.

**Rules Modify:** Allow user to modify selected rules information, for replace rule, you can modify related accounts, prefix number and replace number.

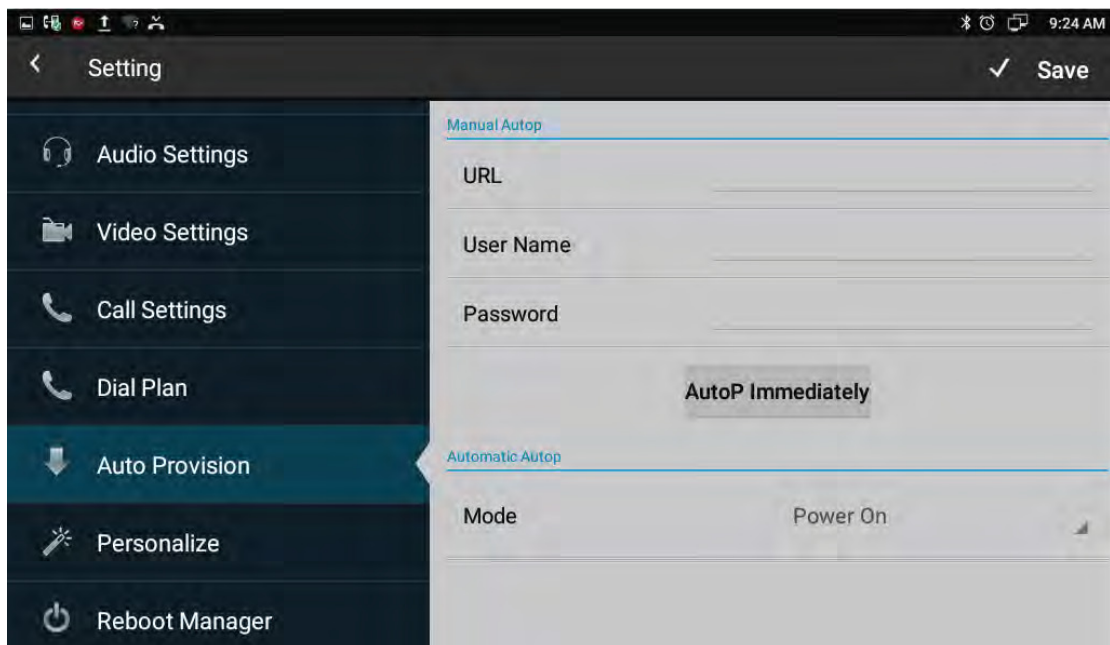
**Area Code:** Area codes are also known as NPAs (Numbering Plan Areas). They usually indicate different geographical areas within one country. If entered numbers match the predefined area code rule, the IP phone will automatically prefix outgoing number with area code.

**Note:** There is only one area code rule supported.

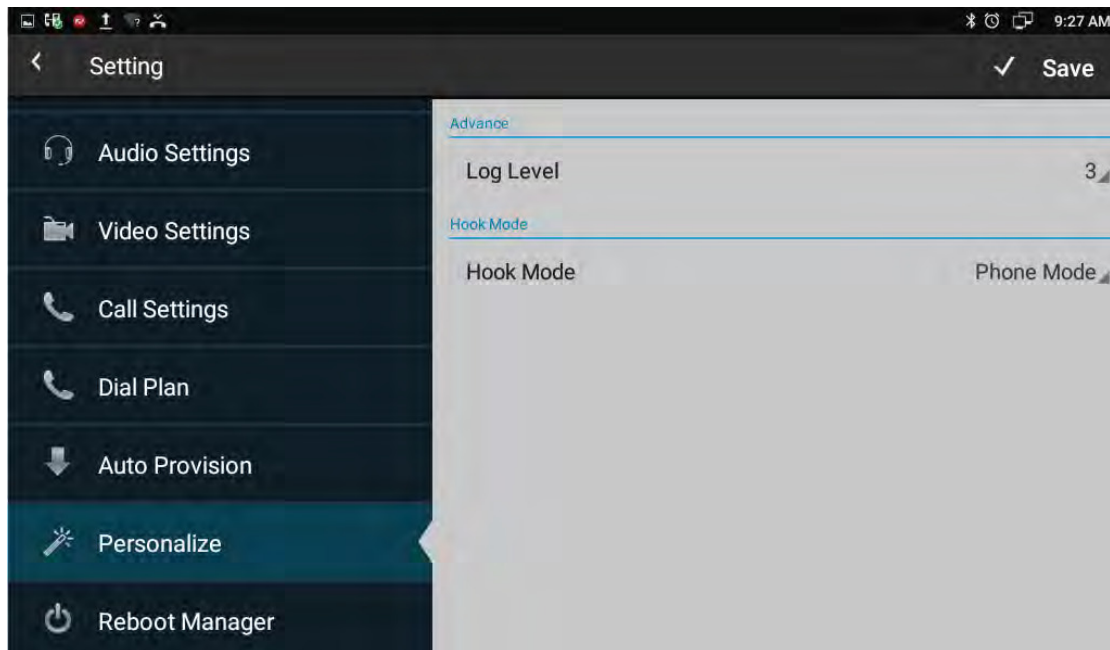


## 4.9 Auto Provision

Phone can be configured to resynchronize its internal configuration state to match a remote profile periodically and on power up by contacting a normal provisioning server (NPS) or an access control server (ACS).



## 4.10 Personalize



### 4.10.1 Log Level

The Log level is divided into seven levels: EMERG, ALERT, CRIT, ERR, WARNING, NOTICE, INFO, DEBUG, log class is from low to high. The default setting is EMERG, which is the lowest grade log.

### 4.10.2 Hook Mode

Hook Mode is divided into Phone Mode, Disable, App Mode, Auto Mode. The default mode is Phone Mode.

## 4.11 Reboot Manager

### 4.11.1 Reboot time

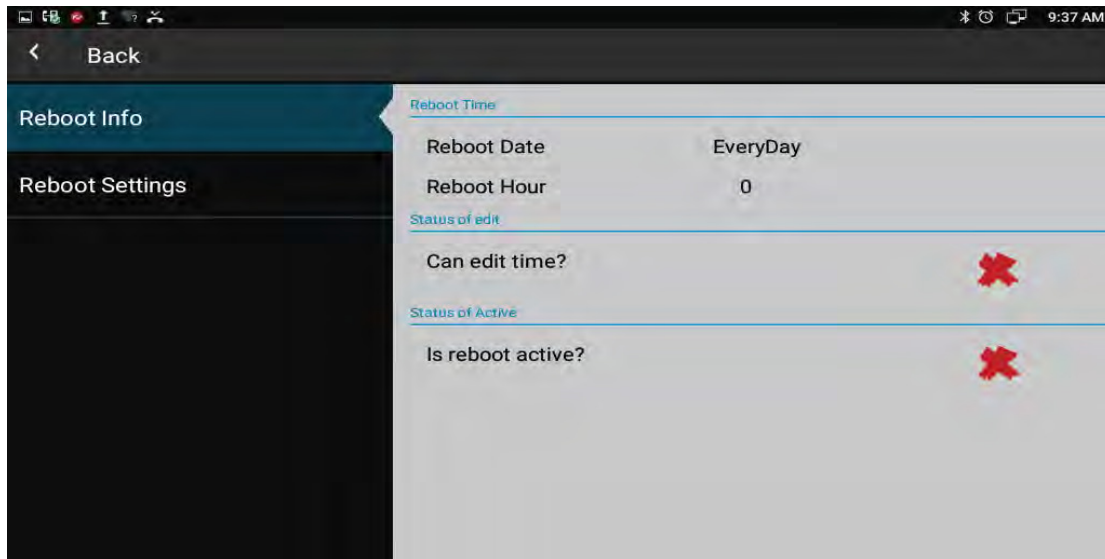
User can setup the reboot date and hour you want .

### 4.11.2 Status of time

If the status is enable ,users can edit the reboot time you want.

### 4.11.3 Status of active

Enable/disable the reboot function



### 4.11.4 Reboot settings

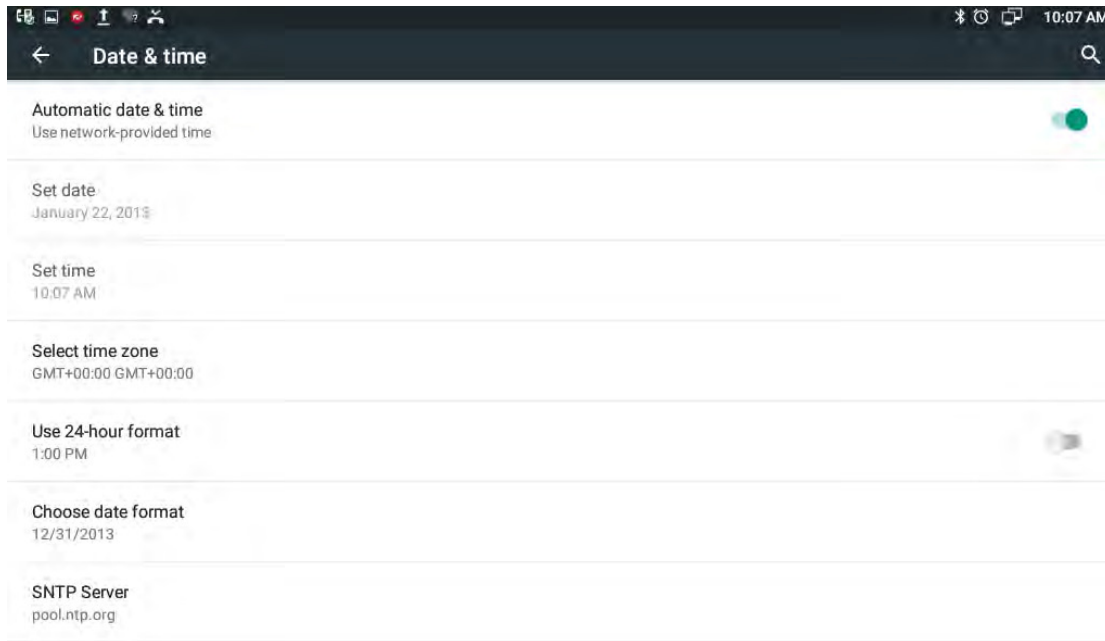
Set the reboot time. Disable this feature by default.

## 4.12 Date & Time

You can select one of the following methods to enter Date & Time configuration:

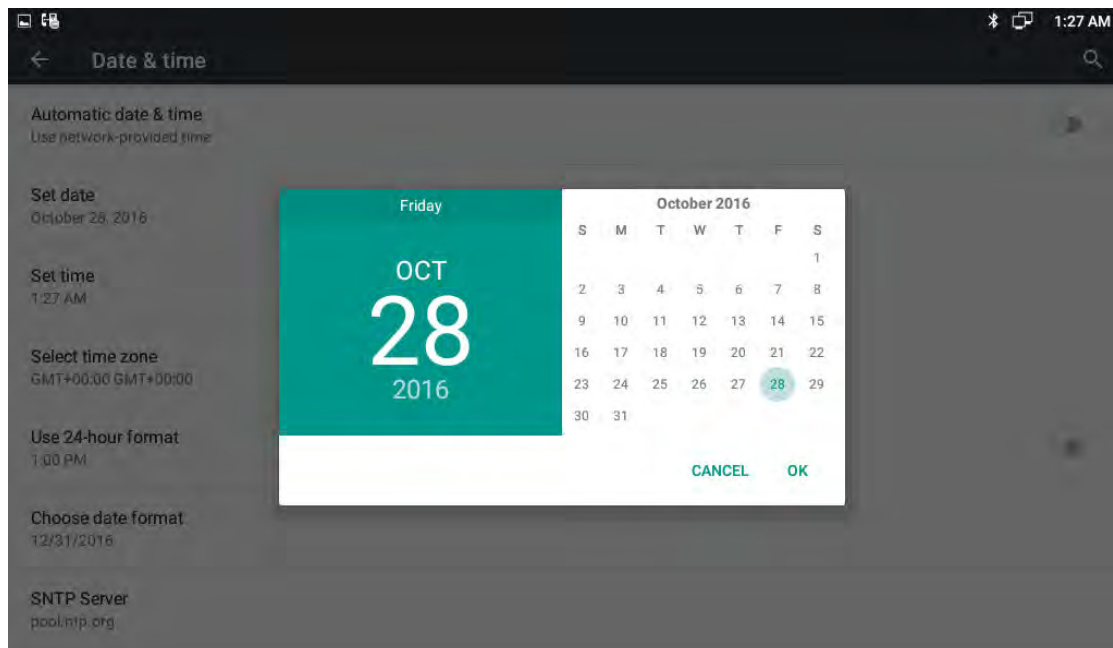
- Mode 1: In the main screen, tap  -> Settings  -> System -> Date & time.
- Mode 2: Drag down the status bar, click icon  on the status bar -> tap icon  -> System -> Date & time

The configuration page is shown as below.

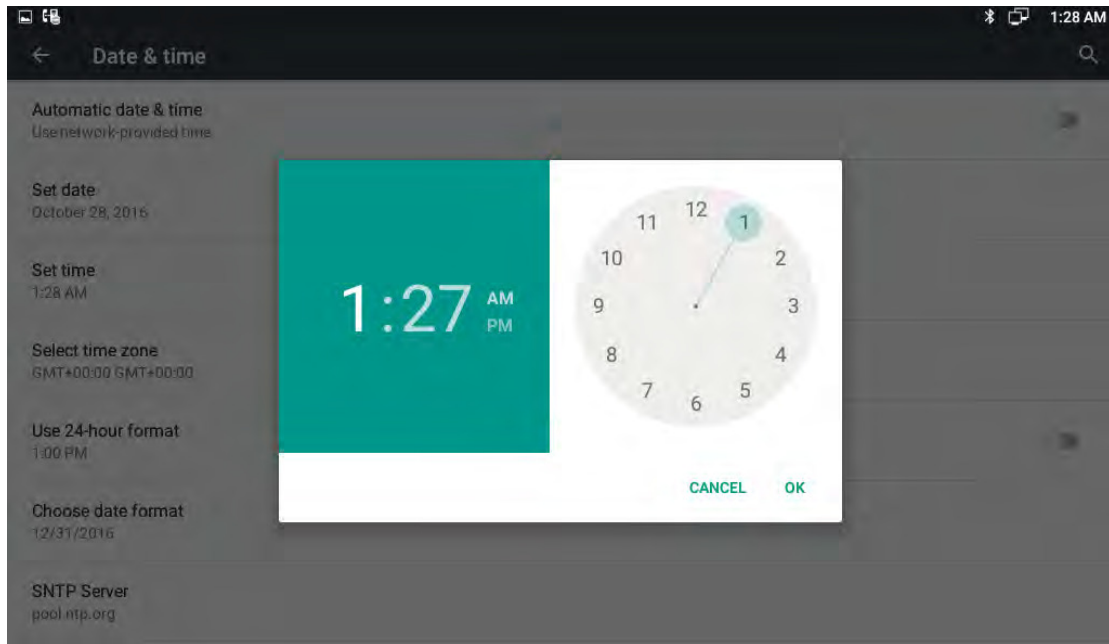


If user want to manually set the date and time, firstly, tap Automatic data & time bar to disable status, and then set the date, time, select a time zone.

Tap Set date bar to pop-up date set interface. As shown below.

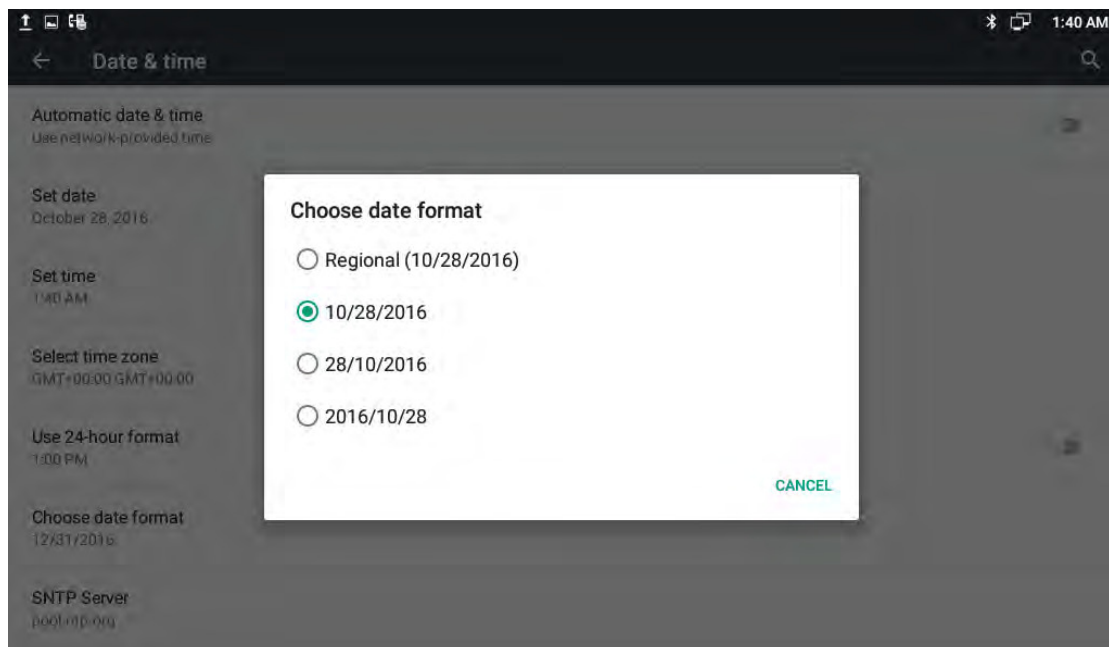


Tap Set time. Time settings as shown below.



Tap the Use 24-hour format bar to change the hour format displayed, 1:00 PM format by default.

Tap the Choose date format bar to pop up the date format selection interface. Month/day/year date format by default. Shown as below.



## 4.13 Personalization Settings

According to personalized settings, user can set the equipment more characteristic.

### 4.13.1 Wallpaper

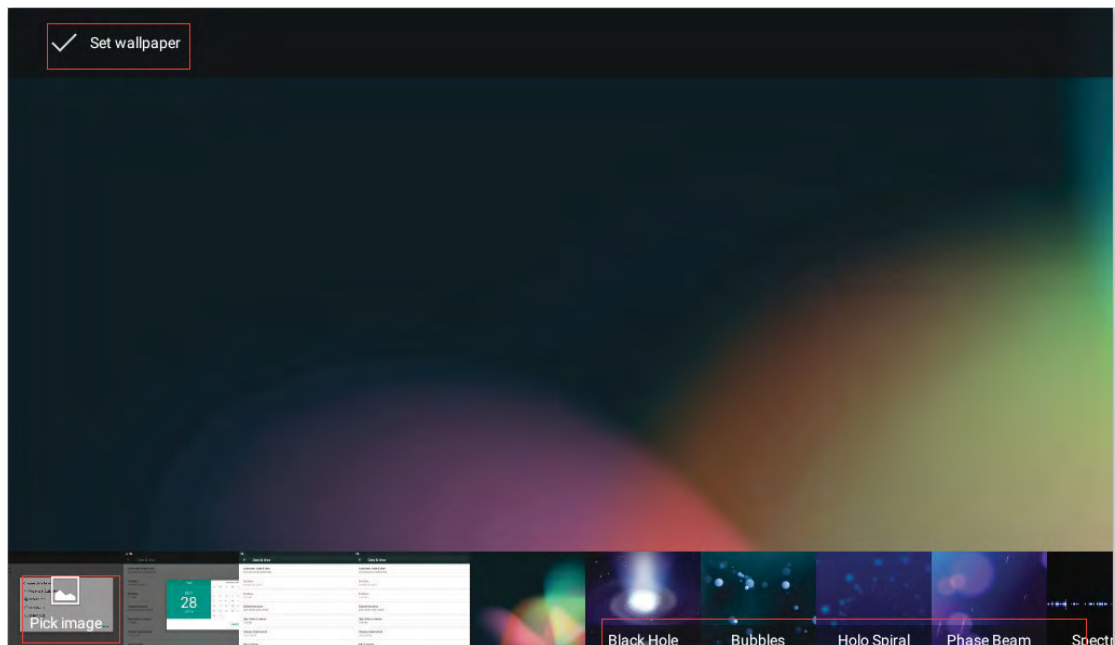
User can use the following ways to set the favorite wallpaper.

Mode 1: In the main screen, Press Menu button  on the keyboard-> tap WALLPAPERS icon.

Mode 2: In the main screen, touch and hold on the blank part of desktop-> tap WALLPAPERS icon.

On the bottom of the screen displayed the default wallpapers, tap Pick image can enter the gallery to select the picture. Click the Set wallpaper to save the change.

Configuration interface shown as below.



### 4.13.2 Widgets

Widgets can be convenient for user use, user can select from the available options.

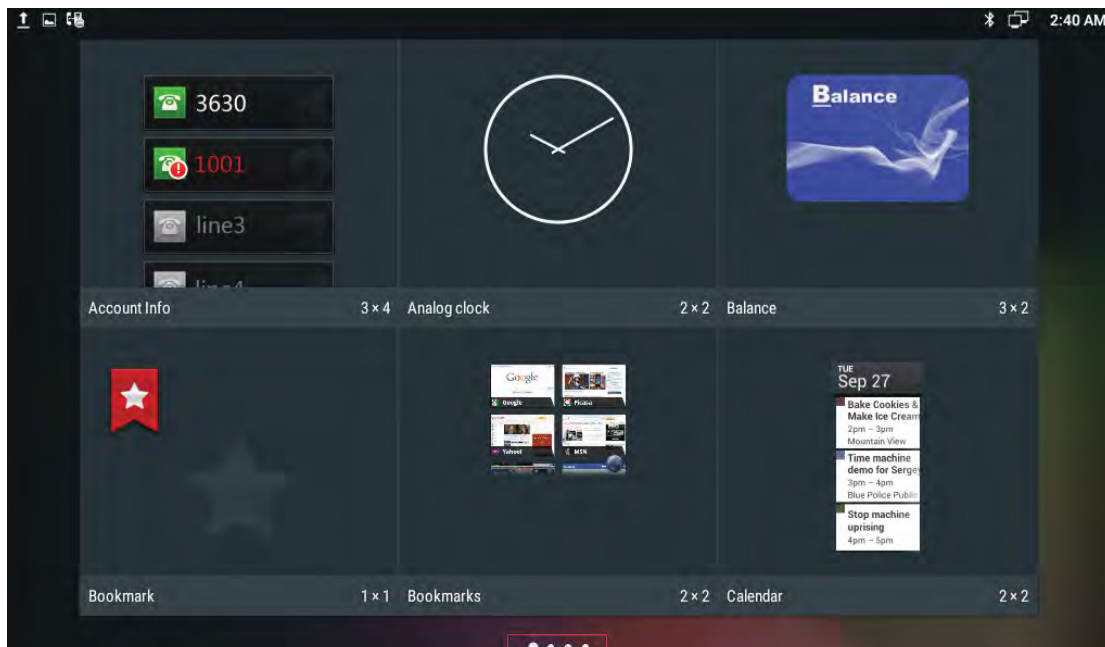
#### 4.13.2.1 Add A Widget

User can use the following ways to add the widgets.

**Mode 1:** In the main screen, Press Menu button  on the keyboard-> tap the WIDGETS icon.

**Mode 2:** In the main screen, touch and hold on the blank part of desktop-> tap WIDGETS icon.

Each widget has indicated the name and the location, touch and hold to pick up a widget, move it to the designated location on the desktop, then move fingers away from the screen. Slide right/left to change the extended screen. Shown as below.

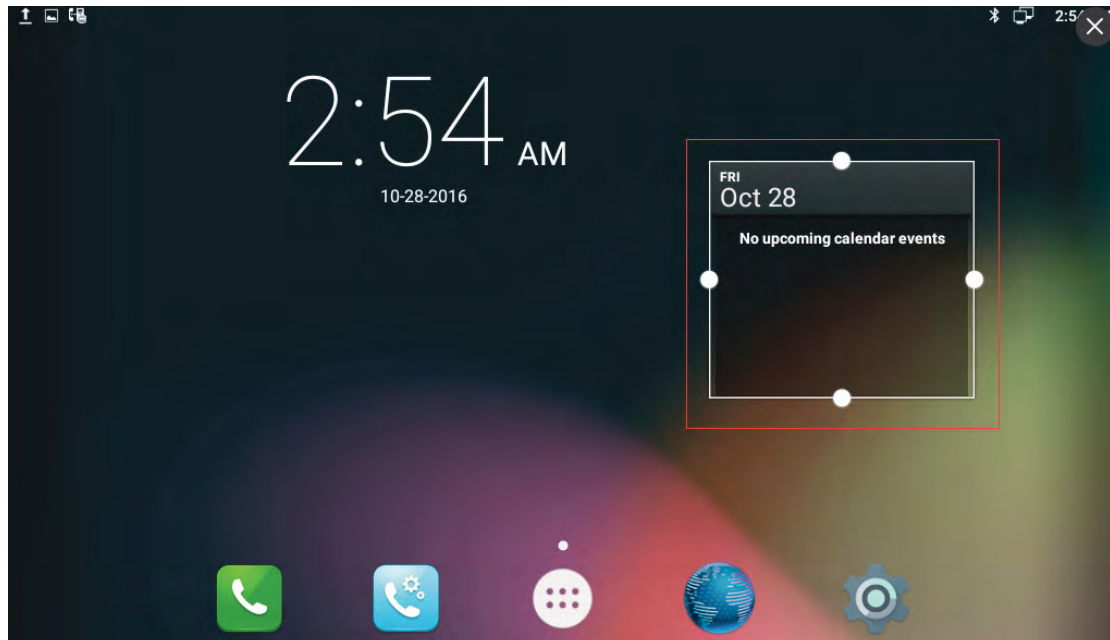


#### 4.13.2.2 Modify An Added Widget

If user want to modify the location of added widgets on the desktop, touch and hold the widget until the icon  appears on the upper left corner of the screen, drag the widget to the corresponding position of the desktop.

If user want to change the space size of added widgets on the desktop, touch and hold the widget until the icon  appears on the upper left corner of the screen, then move fingers away from the screen, the widget will appear frame border. User

can control the white point to drag the border to change the size of the widget frame. And then only need to press Back button on the keyboard to save the change. As shown below:



#### 4.13.2.3 Delete A Widget

Touch and hold the widget until the icon  appears on the upper left corner of the screen, drag the widget to  location until the widget turn red, then move fingers away to delete the widget.

### 4.13.3 Shortcuts

User can add the shortcuts such as Application, Webpage bookmarks and the other applications to the main screen desktop.

#### 4.13.3.1 Add A Shortcut

In the main screen, click icon , touch and hold a shortcut, put it to the designated location on the desktop, then move fingers away the main screen.

#### 4.13.3.2 Modify A Shortcut

If user want to modify the location of shortcut on the desktop, hold the shortcut until the icon  appears on the upper left corner of the screen, you can drag the shortcut to the corresponding position of the desktop.

#### 4.13.3.3 Delete A Shortcut

Touch and hold the shortcut until the icon  appears on the upper left corner of the screen, drag the shortcut to  location until the shortcut turn red, then move fingers away to delete the shortcut.

#### 4.13.4 Modify Extended Bar

user can modify the quick start program on the extended bar at the bottom of the screen. The default extended bar as shown below:



In the main screen, hold the shortcut until the icon  appears on the upper left corner of the screen, drag the shortcut to  location to delete the shortcut. Also can replace the default shortcut with another shortcut.

#### 4.13.5 Ringtone

User can select the ringtone provided by phone default, can download music from the Internet, and then set the favorite music as a ringtone.

If user choose the ringtone provided by phone default, please refer to Sound &

notification settings.

If user choose the music downloaded from the Internet as a ringtone, please follow the below steps:

- 1) Click  -> Music icon .
- 2) View the music list in App, touch and hold a music, and then In the pop-up menu options, click Use as phone ringtone.

#### **4.14 Backup & Reset**

- 1) Click Setting .
- 2) Personal->Tap Backup & reset.
- 3) Personal data-> click Factory data reset.
- 4) Check Erase SD card-> click RESET DEVICE label-> tap ERASE EVERYTHING label.

# 5 Function

## 5.1 Call Function

R48G phone supports audio calls and video calls. User can use the SIP account to make a call, also can use IP direct make a call. SIP account configuration refers to chapter 4.3

### 5.1.1 Make A Call

User can directly dial from the keypad, select from the contact list or from call records to call out the number.

User can choose one of the following steps to enter into the dialing interface.

**Mode 1:** Directly pick up the handset.

**Mode 2:** Press Speaker button on the keypad.

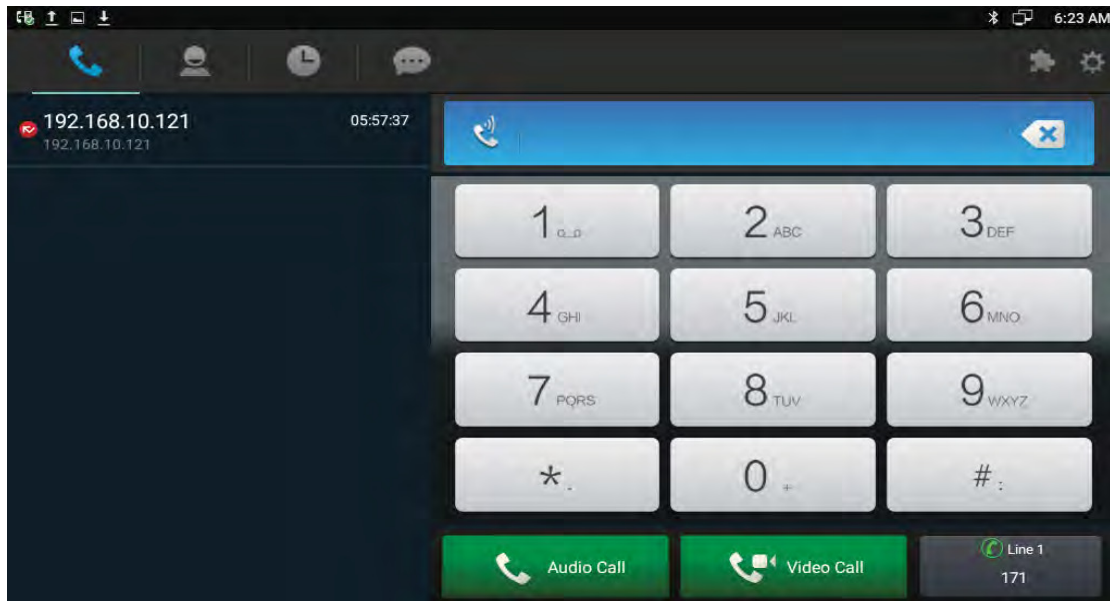
**Mode 3:** In the main screen, Click icon .

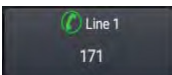
**Mode 4:** In the main screen, select icon  -> tap icon .

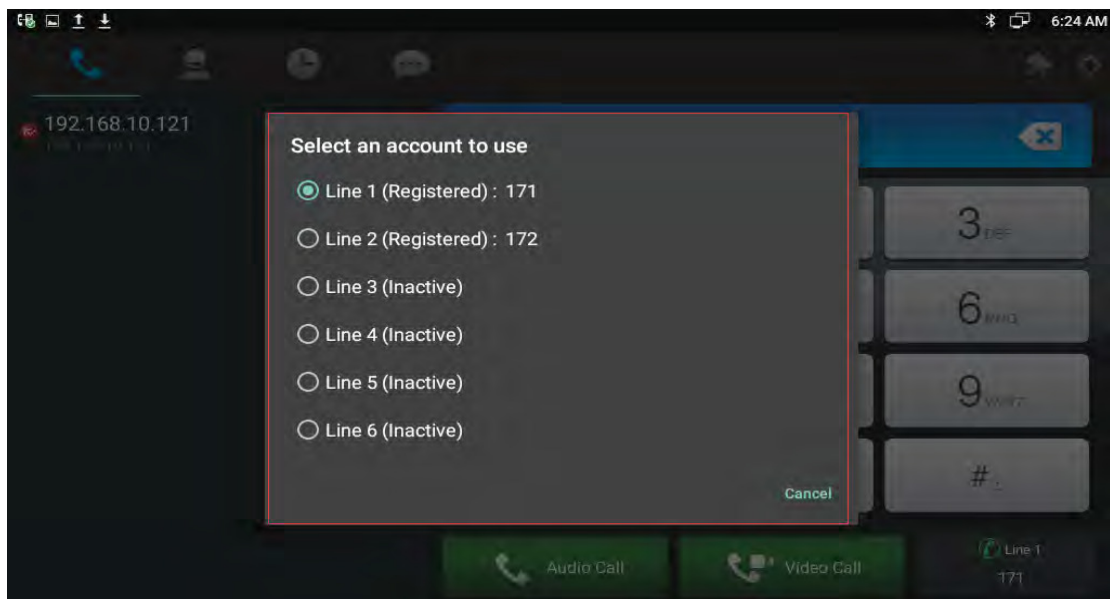
#### 5.1.1.1 Dial Out Directly

- 1) By pressing the number keys on the dial interface or directly pressing the number on keypad. To delete a number, press the icon  on the dial interface, or press Delete button on the keypad.
- 2) If you want to make an audio call, click Audio Call label. If users want to make a video call, click Video Call label.

Dialing interface is shown as below:



- 3) If registered multiple available SIP accounts, when finishing dialing, user can click line  label to choose the outgoing account for the number, as shown below.

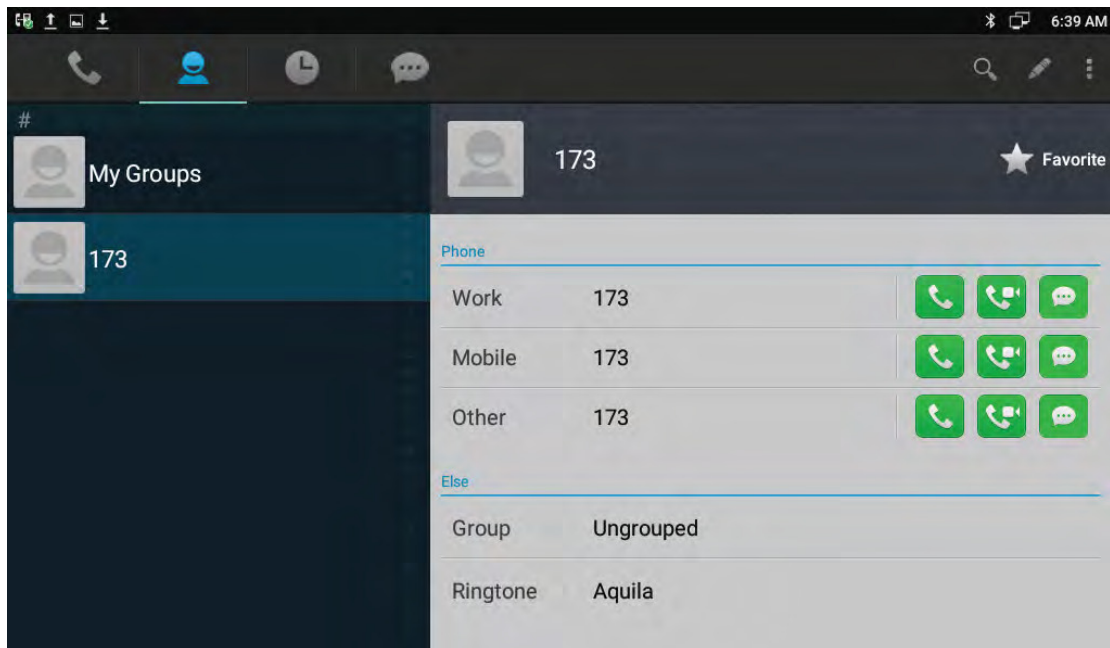


### 5.1.2 Dialing Out From Contact List

- 1) Tap icon  ->Click the icon  -> Label Phone Book->All Contacts.
- 2) Click  label to make an audio call, click  label to make a video call, or

click  label to send the message.

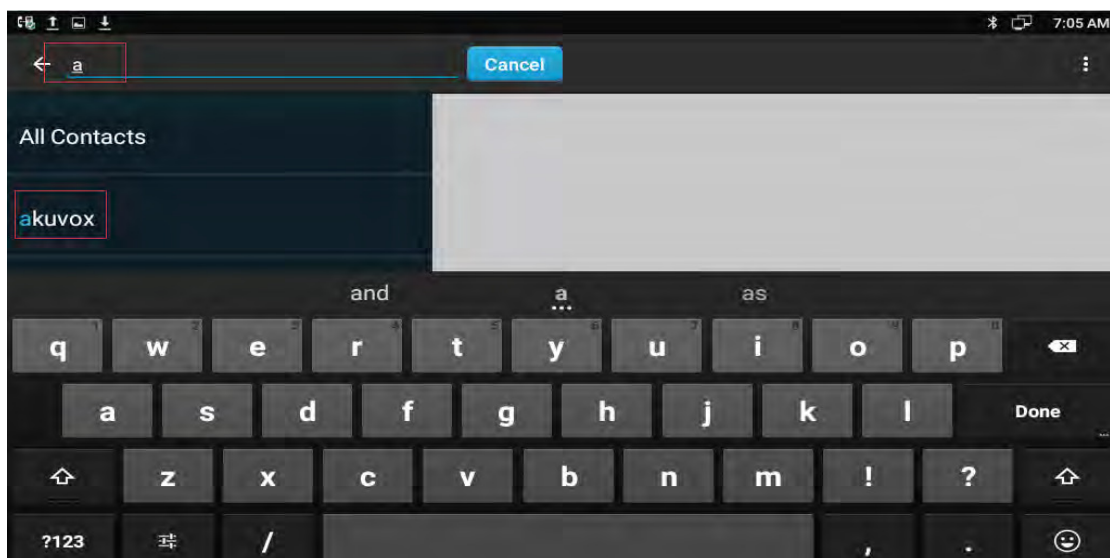
Contact is shown as below:



#### 5.1.2.1 Contacts Fuzzy Matching Query

Phone supports contacts fuzzy matching queried, intuitive, concise dialing interface for the intelligent input, greatly reducing the number of buttons, achieve rapid, effective positioning search, avoid duplication of invalid operation, saving time.

Tap search icon  to enter the search interface. Enter the key symbol or number to search the contact. The result will be displayed on the left list. Shown as below.



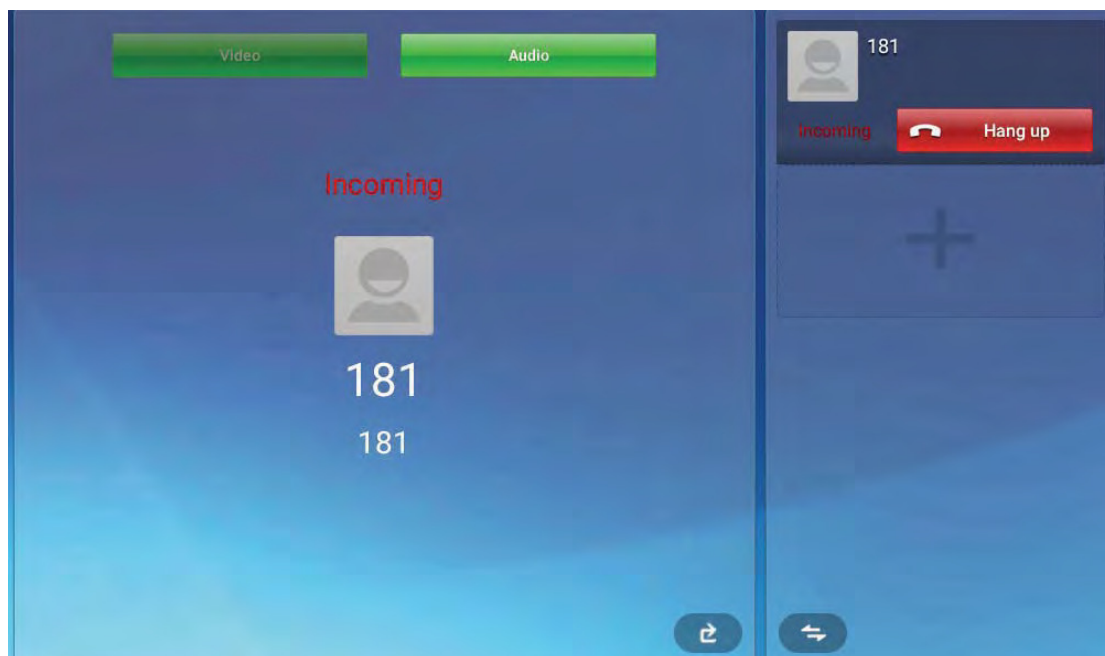
### 5.1.3 Receive A Call

Incoming calls include audio and video calls. If the caller has been stored in the contacts, it will show the contact name, otherwise the caller number will be displayed.

#### 5.1.3.1 Answer A Call

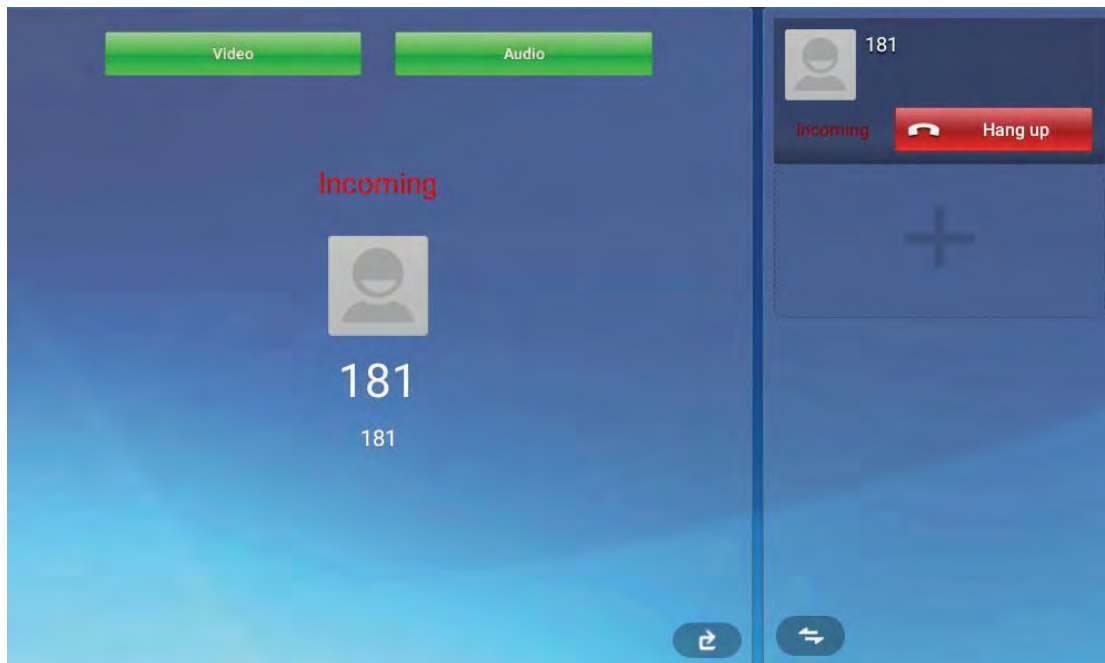
##### 1) Answer an audio call

When receiving an audio call, click Audio label or pick up the handset or press speaker button on the keypad to answer. As shown below:



##### 2) Answer a video call

When receiving an video call, click Audio label to establish the audio call, click Video label to establish the video call. As shown below:



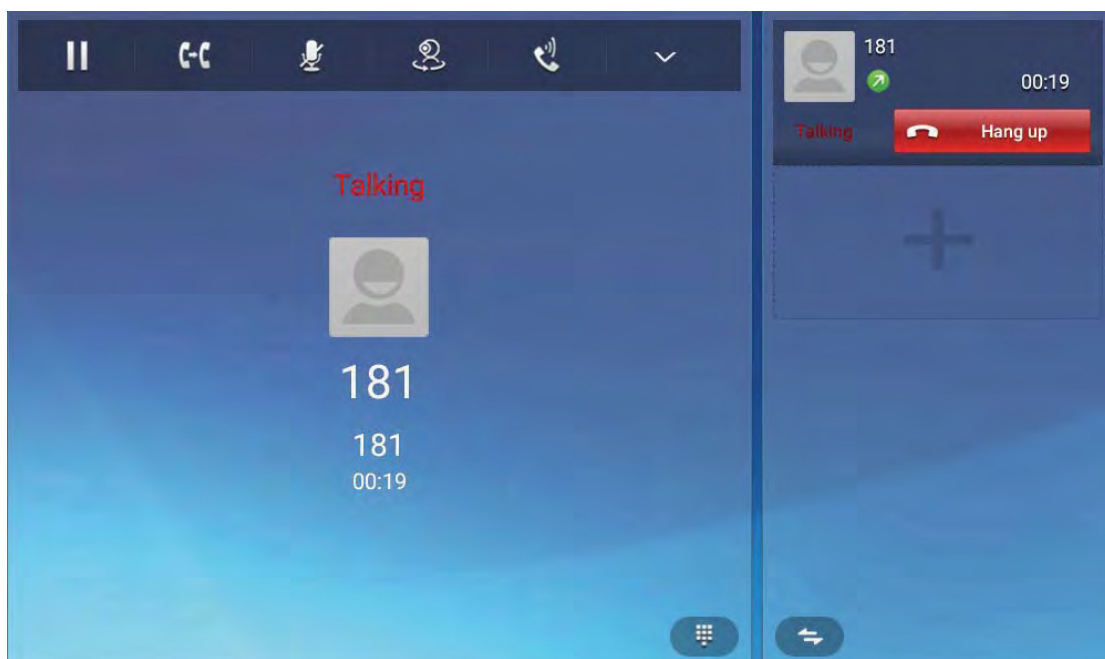
#### 5.1.3.2 Reject A Call

If user want to reject a call, click  label in calling interface.

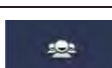
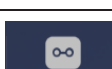
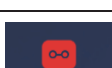
If user want to reject a call from a number, you can add the number to the blacklist.

#### 5.1.4 Call Options

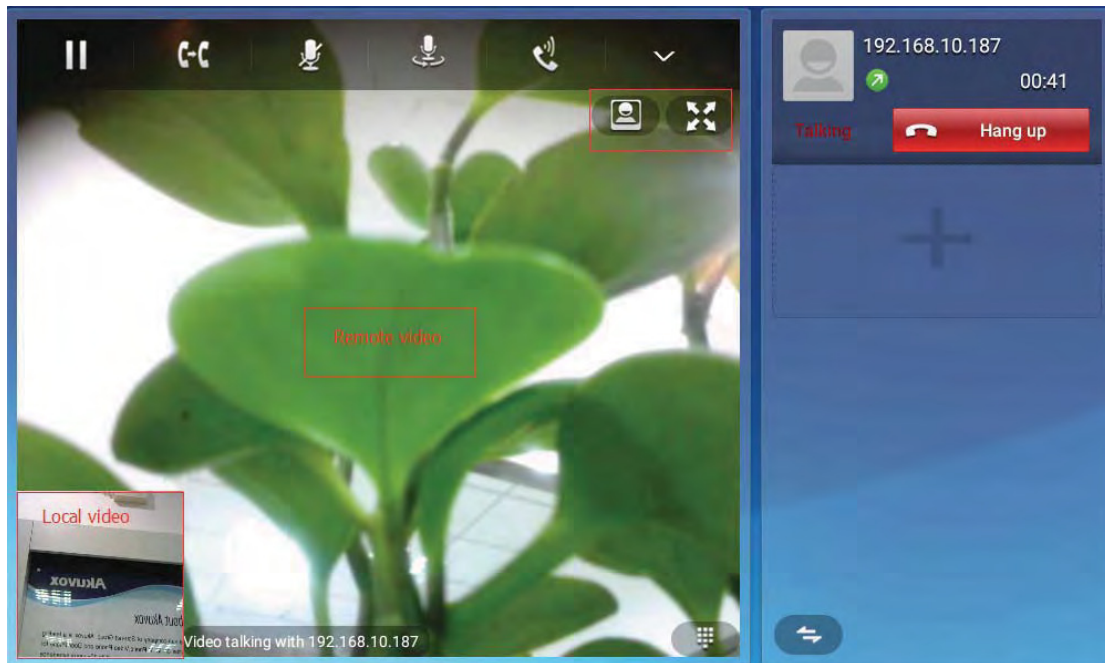
During the audio conversation, the default call options shown as below.



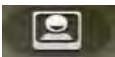
Call options are described as below.

|                                                                                     |                                                              |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------|
|    | Click the button to hold the current call.                   |
|    | Click the button to resume the current call.                 |
|    | Click the button to enter the establish transfer interface   |
|    | Click the button to mute                                     |
|    | Click the button to resume mute                              |
|    | Click the button to send a video request/close the video     |
|    | Handset mode                                                 |
|    | Speaker mode                                                 |
|    | Headset mode                                                 |
|  | Click the button to open the extended icons                  |
|  | Click the button to close the extended icons                 |
|  | Click the button to enter the establish conference interface |
|  | Click the button to start record                             |
|  | Click the button to stop record                              |

During the audio conversation, the default call options shown as below.

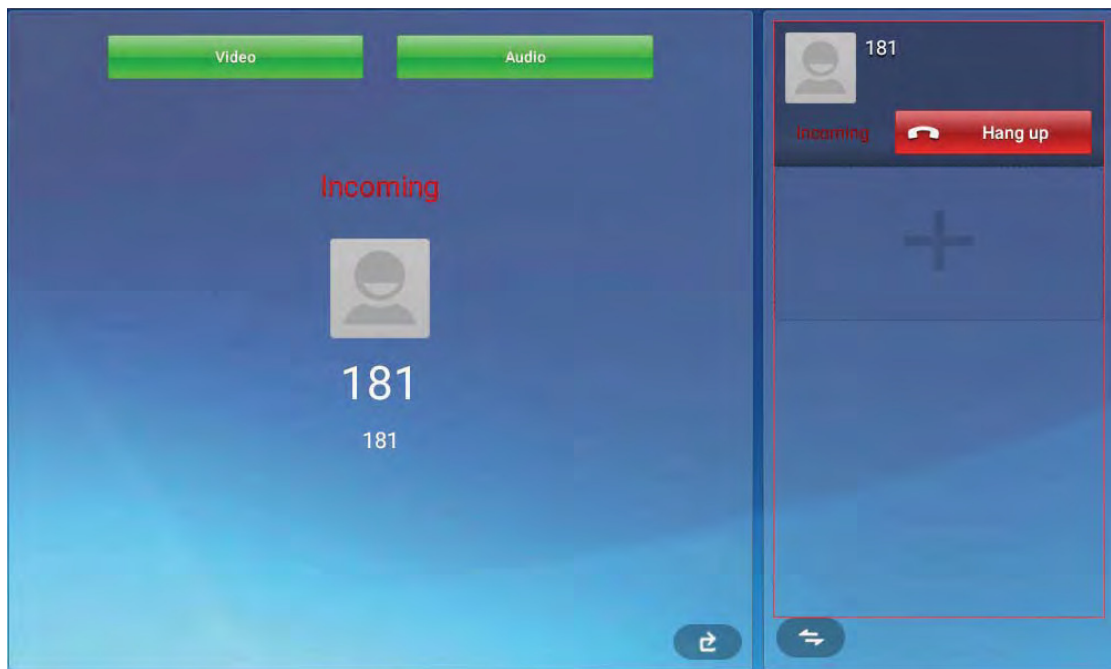


Video options are described as below.

|                                                                                     |                                             |
|-------------------------------------------------------------------------------------|---------------------------------------------|
|   | Support local and remote video displayed    |
|  | Support remote video displayed              |
|  | Click to open full screen/ exit full screen |

#### 5.1.4.1 Multiple Calls

- The Phone supports more than 3 line calls. The line information is on the right side of call interface.
- During a call, user can click on the icon  to add a new call. And when click on this button, the current call will be hold.
- During a call, user can click on any line in the list to resume the call.



## 5.1.5 Call Records

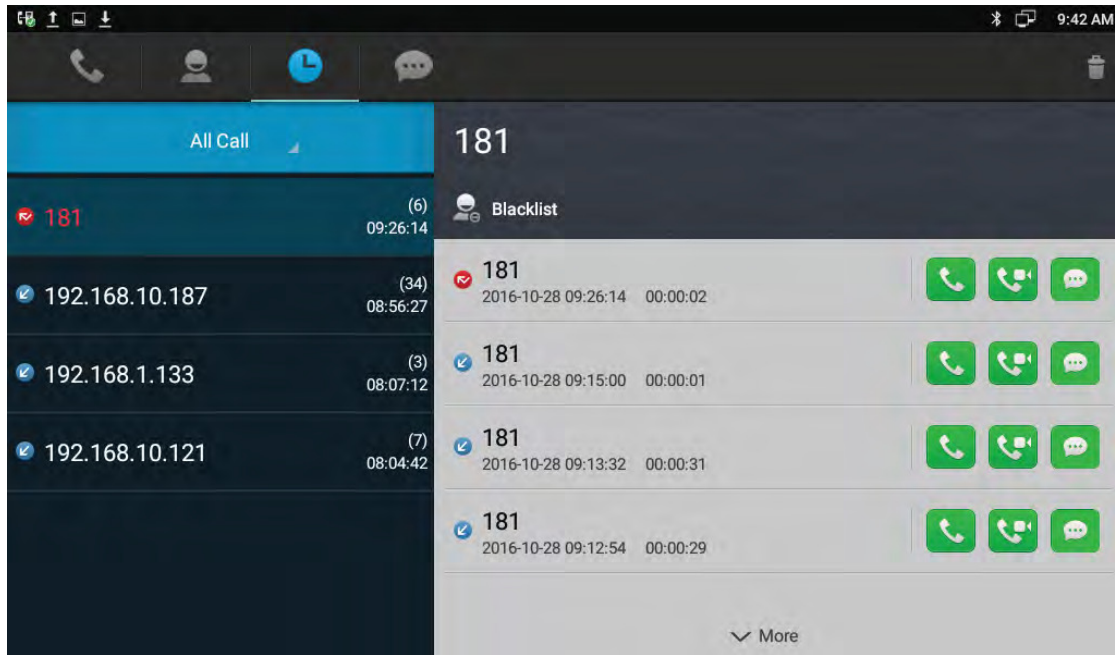
### 5.1.5.1 View Call Records

When got a missed call, the screen will display the missed call notification  in above status bar. User can drag down to open the notification list, then click the missed call notification to view call records.

User can also directly through the dialing interface to view call records:

- 1) In the main screen, click 
- 2) Click icon .

Shown as below.



- 3) User can click the drop-down list  to choose the call record types, it supports for All Call, Missed Call, Received Call, Dialed Call and Forwarded Call five types of call information.
- 4) Call records are shown on the left. Click the number or contact, and user can view all the call records details on the right.

#### 5.1.5.2 Call From Call Records

In All Call, Missed Call, Received Call, Dialed Call or Forwarded Call interface, user can Following the below steps to initiate a call.

- 1) Click a contact or a number on the left list.
- 2) If you want to initiate an audio call directly, click the icon  in call records.
- 3) If you want to initiate an audio call directly, click the icon  in call records.
- 4) If you want to send a message directly, click the icon  in call records.

#### 5.1.5.3 Delete Call Records

- To delete one call record, steps as below:

- 1) Long press the call record you want to delete.
- 2) Pop-up a menu, press Confirm label to confirm the deletion.

- To delete multiple call records, steps as below:

- 1) Press the icon  on the top right corner of the screen.
- 2) Check the records on the left list.
- 3) Click icon .

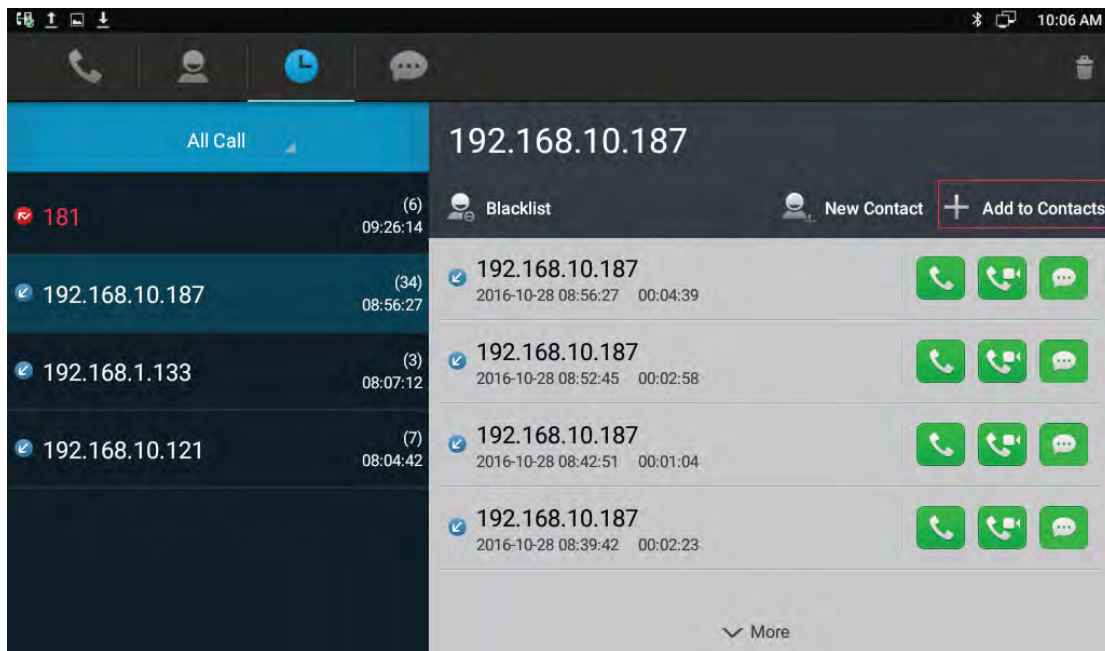
- To delete all call records, steps as below.

- 1) Press the icon  on the top right corner of the screen.
- 2) Tap  on the bottom left of the screen.
- 3) Click icon .

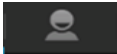
#### 5.1.5.4 Add A Contact From Call Records

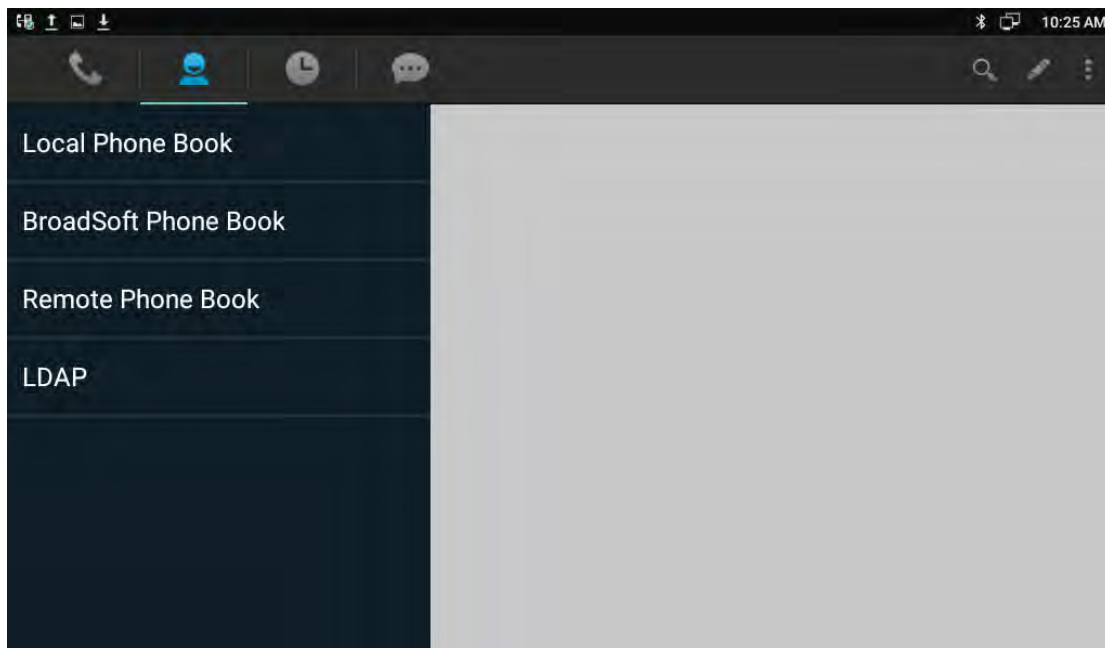
To save a number from the call records, or merge the number into the existing contact number list. Do the following operations.

- 1) Click the number on the call records list.
- 2) To add a new contact, click icon , a new contact edit page will pop up. Click icon .
- 3) To merge the number into the existing contact number list, click icon , select the existing contact and then click Confirm label to save. Will enter the contact edit page, click icon .



## 5.2 Contacts

Following method to enter into Contacts interface. Enter the dialing interface, and then click the icon  .

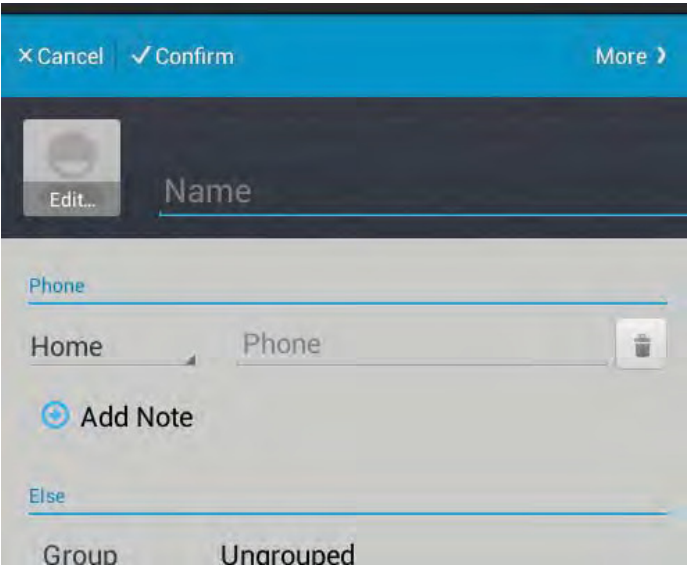


5.2.1 Local Phone Book

User can view, audio call, video call, add, edit, delete the Local contacts.

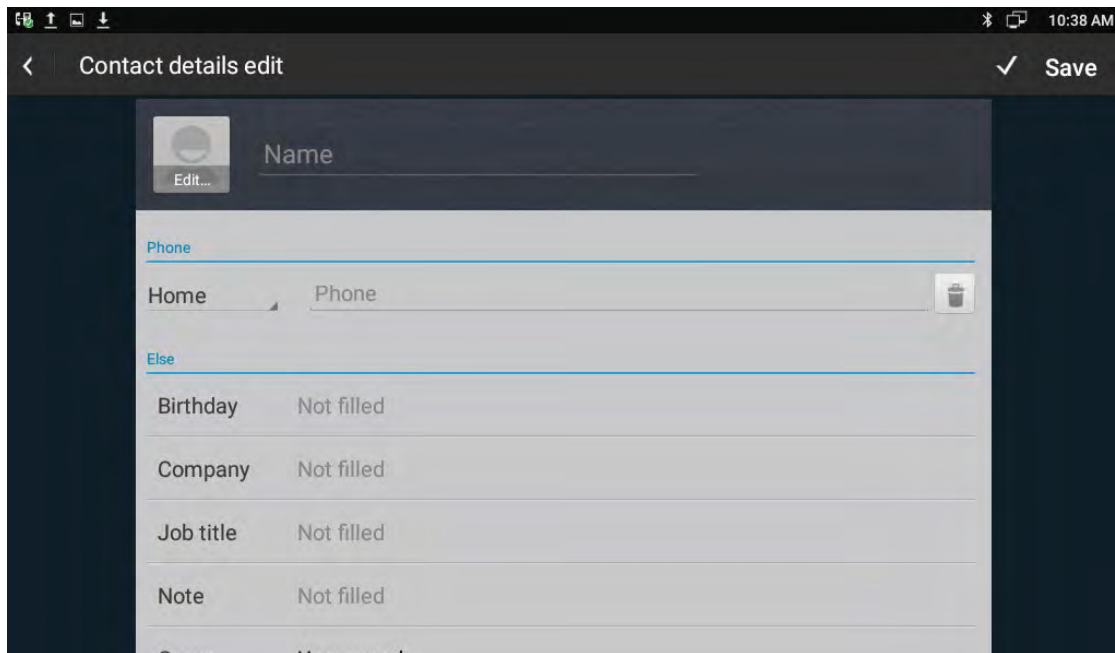
5.2.1.1 Add A New Contact

Click the icon  on the top right corner, and click New Contact label in the drop-down window. The new contact interface is as shown:



|                                                                                     |                                                                                           |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
|  | Edit the contact photo, Browse the image from “Take Photo” or “Choose photo from Gallery” |
|  | Delete the note                                                                           |
|  | Cancel the edit                                                                           |
|  | Save the modify                                                                           |
|  | Click the label show more information to edit                                             |

To add some more information, click , pop up the page of contact details, click  to save. As below shown.



#### 5.2.1.2 Modify The Contact

- 1) Select the contact need to modify in the contact list.
- 2) Click icon .
- 3) Enter into contact edit page, edit the contact information.

#### 5.2.1.3 Delete The Contact

Following methods to delete the contacts.

- Touch and hold the contact need to delete from contact list, and tap Confirm label in the pop-up Remove Contact dialog box.
- Select the contact, click icon , select Remove label, check the contact and click Confirm label to delete.

### 5.2.2 Broadsoft Phone Book

To setup Broadsoft contact. For Broadsoft PhoneBook's server address, port, username and password, user need to consult the Broadsoft service provider for

further information.

### **5.2.3 Remote Phone Book**

Access the remote phone book, add the contacts to the local phone book from the remote phone book or make calls from the remote phone book. 5 URLs of remote phone book is available to set.

- Set the remote phone book via web interface.
  - 1) Access Phone Book-> Remote Phone Book.
  - 2) Input URL of phone book.
  - 3) Input the phone book name.
  - 4) Click the Submit key to save.
  
- Enter the remote phone book via phone interface.
  - 1) Access contact setting interface-> click Remote phone book.
  - 2) Select the relevant Remote Group and press the Enter softkey. The phone will load the remote group information, and the LCD will display the contacts of this remote group.

### **5.2.4 LDAP**

To setup LDAP contact. It often use OpenLDAP server to get the contact. For setting details, please consult with your system administrator for further information.

### **5.2.5 Group**

Group, it will be convenient for you to have contact group management. Contacts should at least belong to a group, the default is no group.

#### 5.2.5.1 Add A New Group

- 1) Access contact setting interface-> Local Phone Book-> tap icon  on the upper right of the screen. Select New Group label.
- 2) Input a new group name in pop-up dialog box.
- 3) Click Confirm label to save. The group will be displayed on the left list.

#### 5.2.5.2 Rename A Group

- 1) Click the group want to rename-> click icon  to enter edit page.
- 2) Input the new name directly.
- 3) Click Confirm label to save.

#### 5.2.5.3 Remove A Group

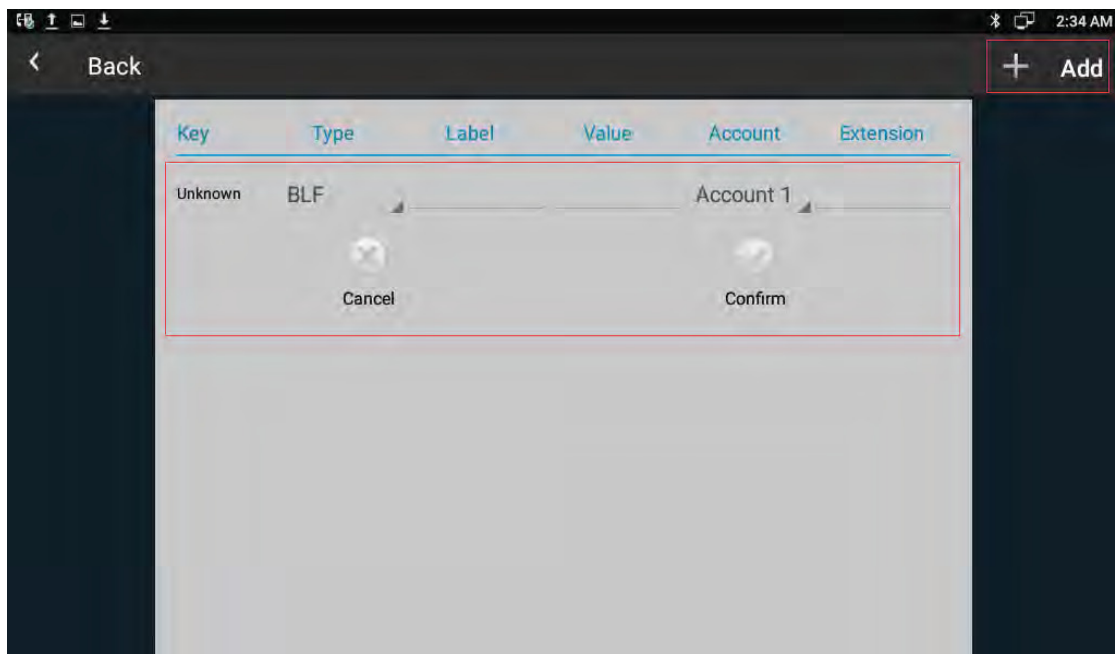
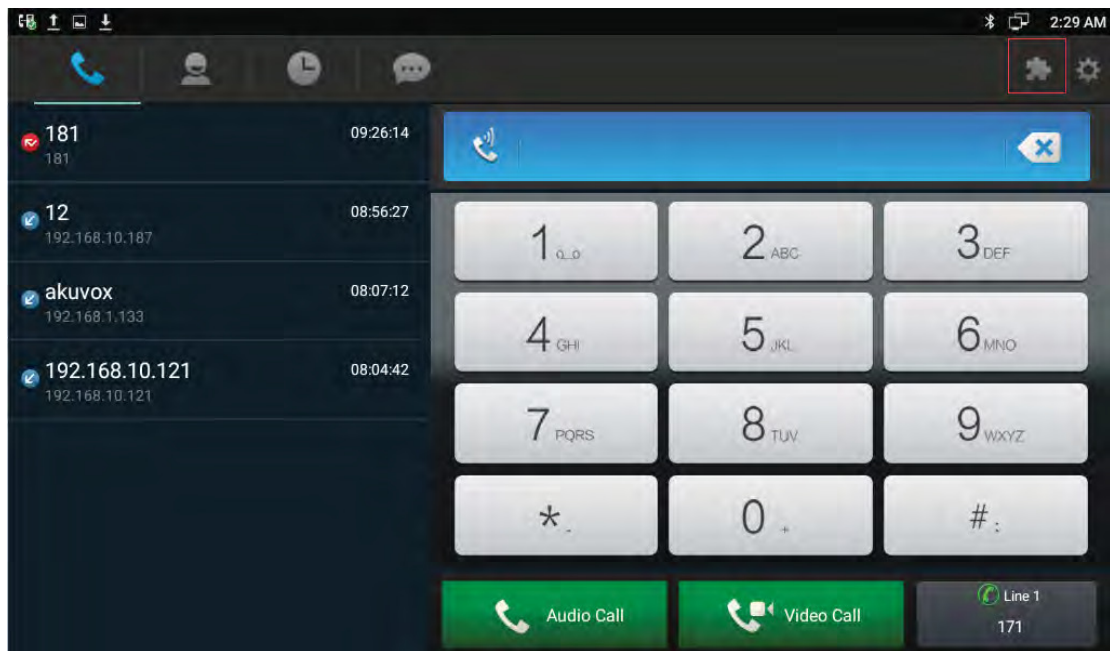
- 1) Touch and hold the group-> click Confirm label in pop-up dialog box.  
(**Note:** the system default group cannot be deleted)

#### 5.2.5.4 Edit A Group

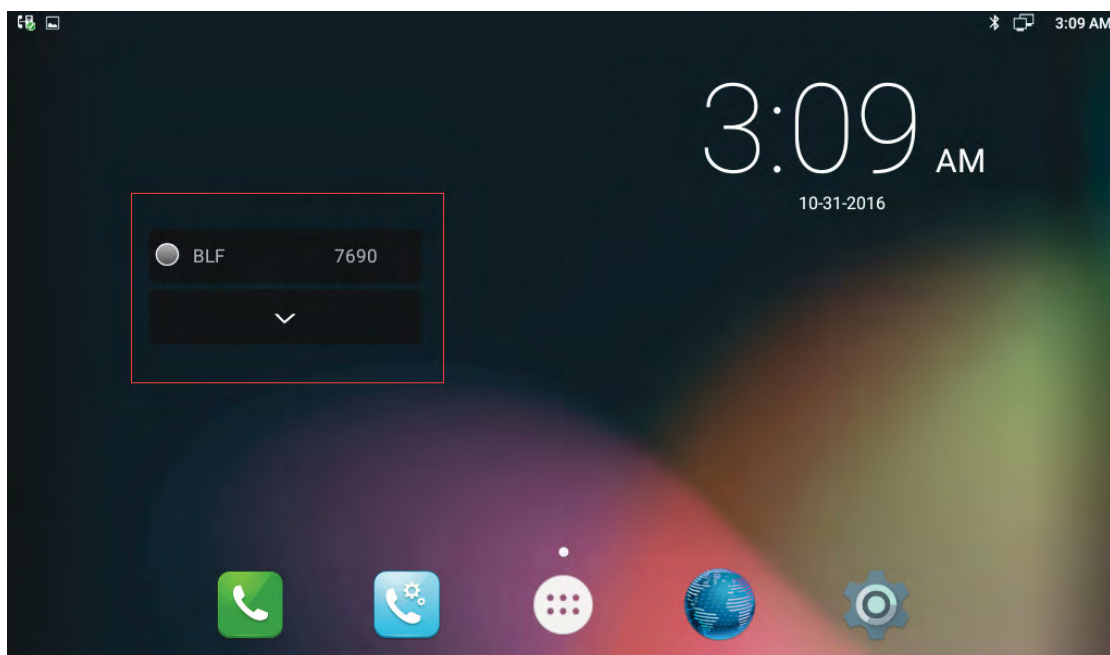
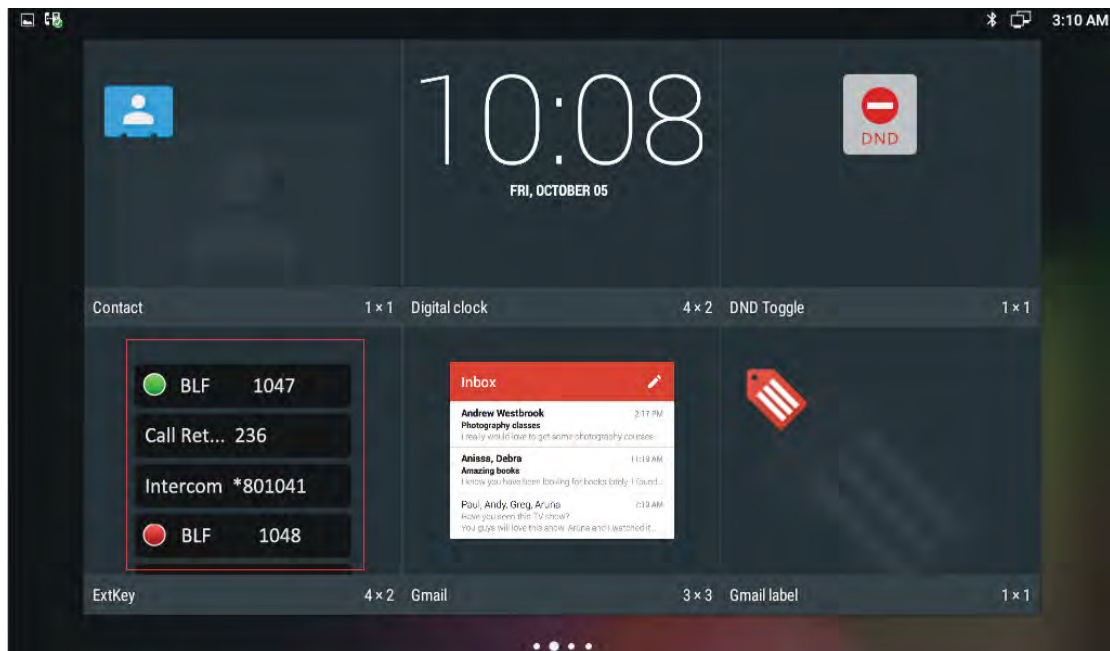
- 1) Click the group to enter edit page.
- 2) Click Edit Member->check the member-> tap Confirm label to delete, or touch and hold the existed member, it will pop up a prompt to delete the member.

### 5.3 BLF

Busy Lamp Field (BLF) is used to monitor a specific user for status changes on IP phones. For example, user can configure a BLF key on a supervisor's phone to monitor the phone user status (busy or idle). When the monitored user places a call, a busy indicator on the supervisor's phone indicates that the user's phone is in use. Enter the dial interface, click BLF button.



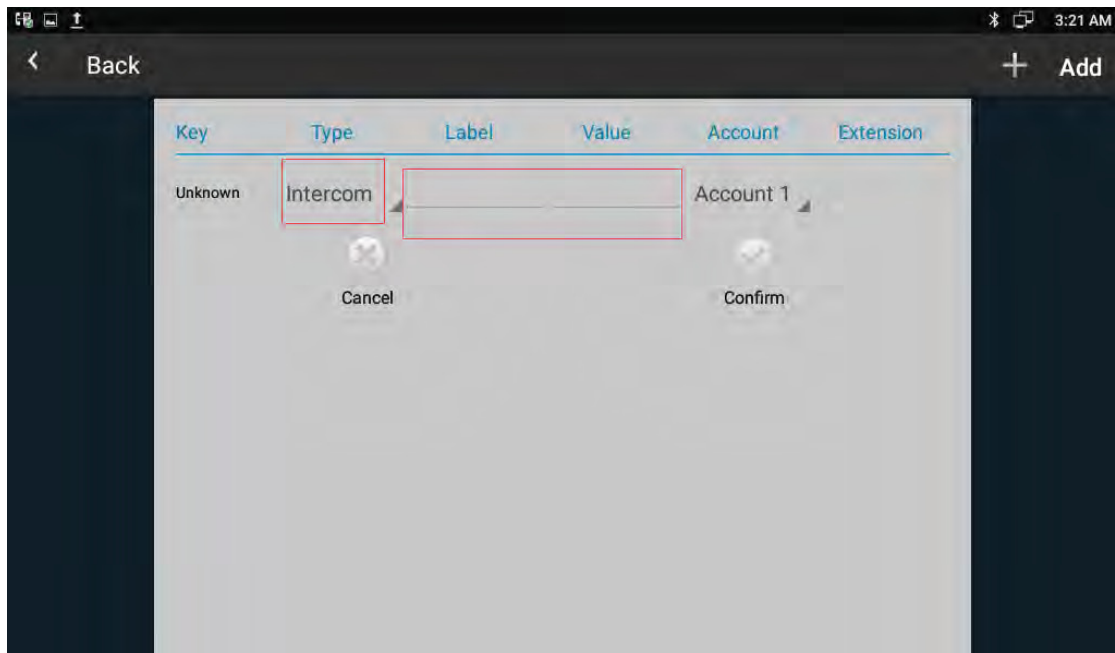
**Note:** After finish BLF Key configuration, drag ExtKey from the WIDGETS to the main interface. As shown below.



## 5.4 Intercom

Select Type as Intercom, enter intercom code in Value. Choose the availed account. To click Confirm to save.

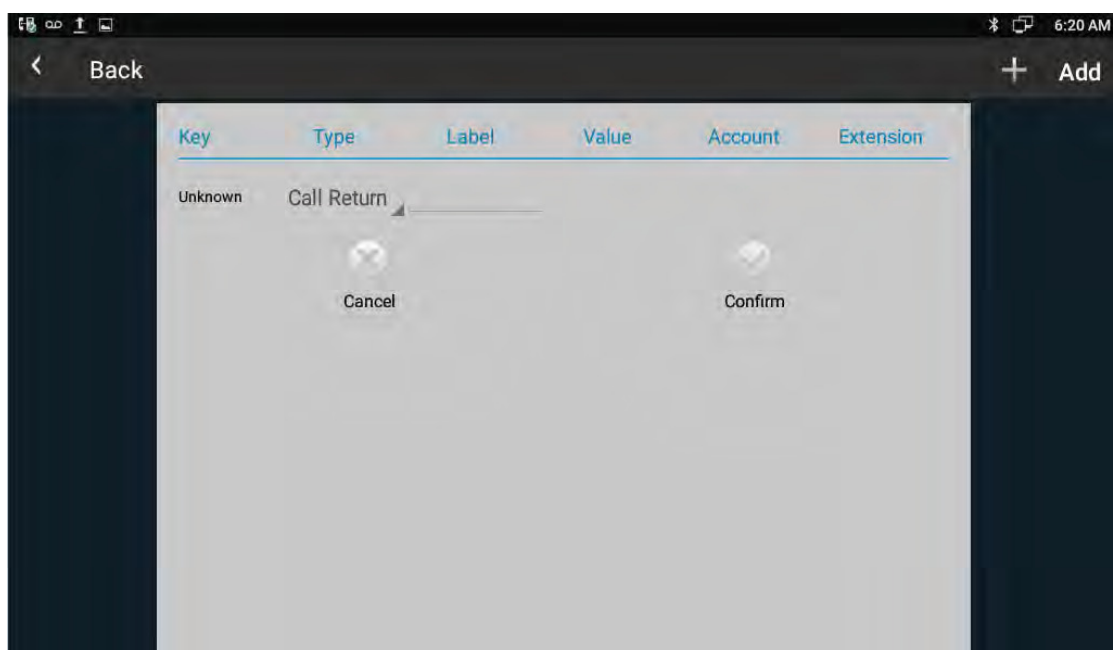
**Note:** Different SIP server has different codes.



1. Press the Intercom key when the phone is available. The phone will connect the extension number of remote user automatically.
2. The phone enable silent mode when picking up the intercom call so that the other will not hear you.

## 5.5 Call Return

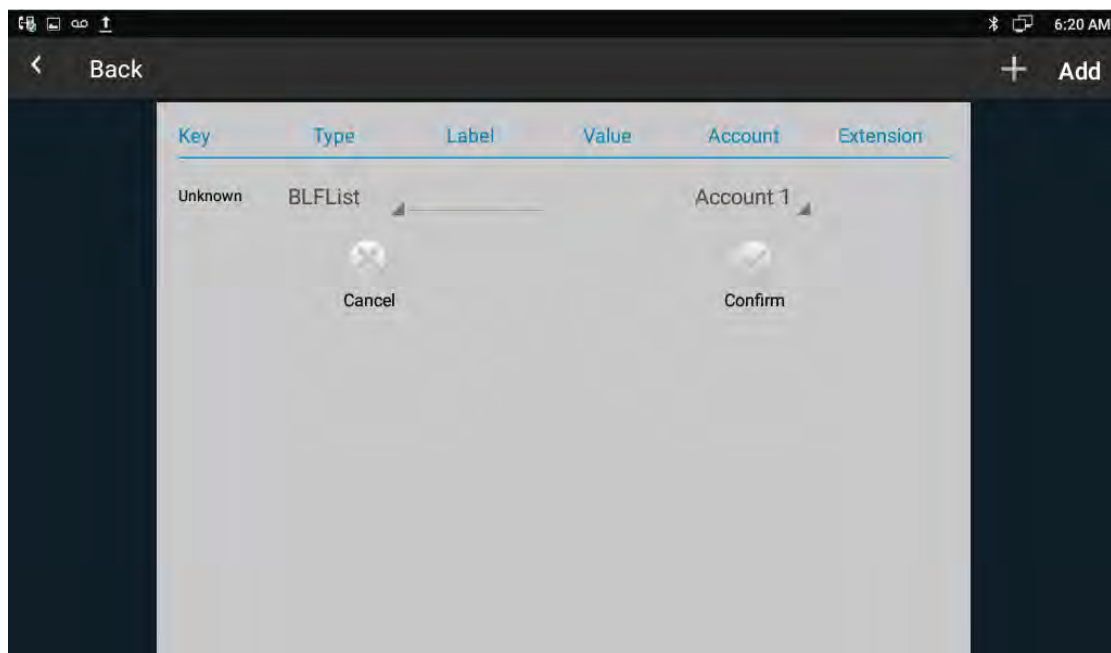
This function can be used to call the latest dialed call record automatically.



## 5.6 BLFList

**BLF List:** While using BroadSoft platform, the accounts which are monitored by the sip phone will reply the subscribe news in the form of xml list to improve efficiency.

**BLF List Code:** While using BroadSoft platform, configure the BLF LIST CODE, can Pick up call or Barge in call.



**Note:** BLFListCode is supported by Broadsoft platform, Please consult your administrator further information.

## 5.7 Pickup & Group Pickup

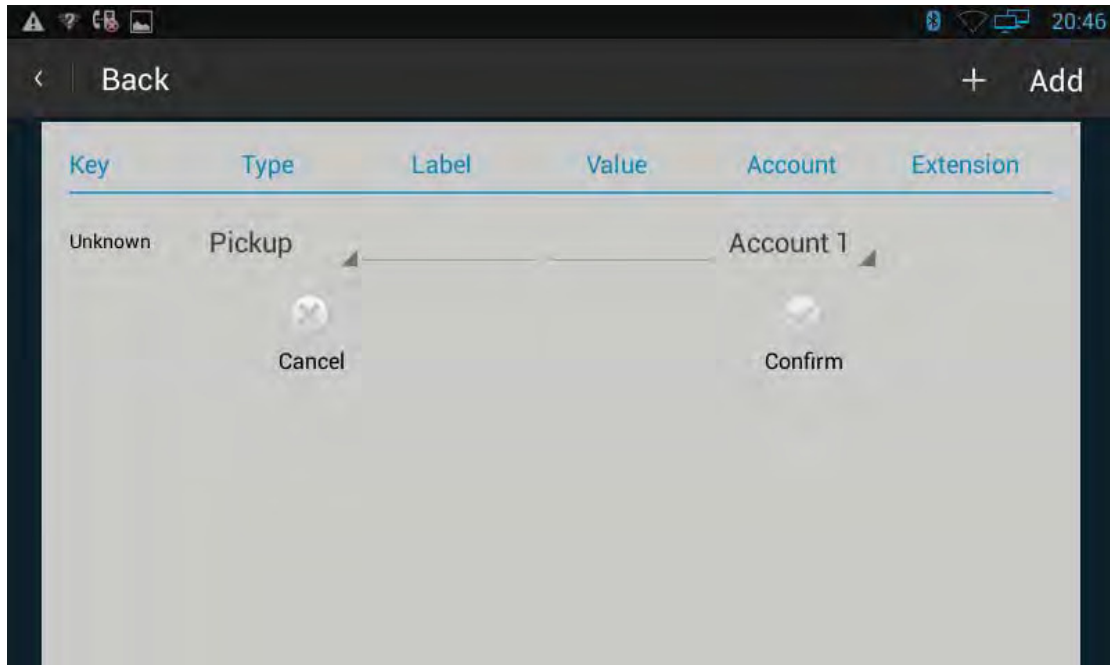
User can use pickup to answer other users' incoming call. The phone Akuvox R48G supports specified pickup and group pickup.

- Specified pickup

Specified pickup can answer specified user's incoming calls. When the user of specified pickup number is off or busy, user can press the pickup key to answer incoming call instead of the specified number.

- Group pickup

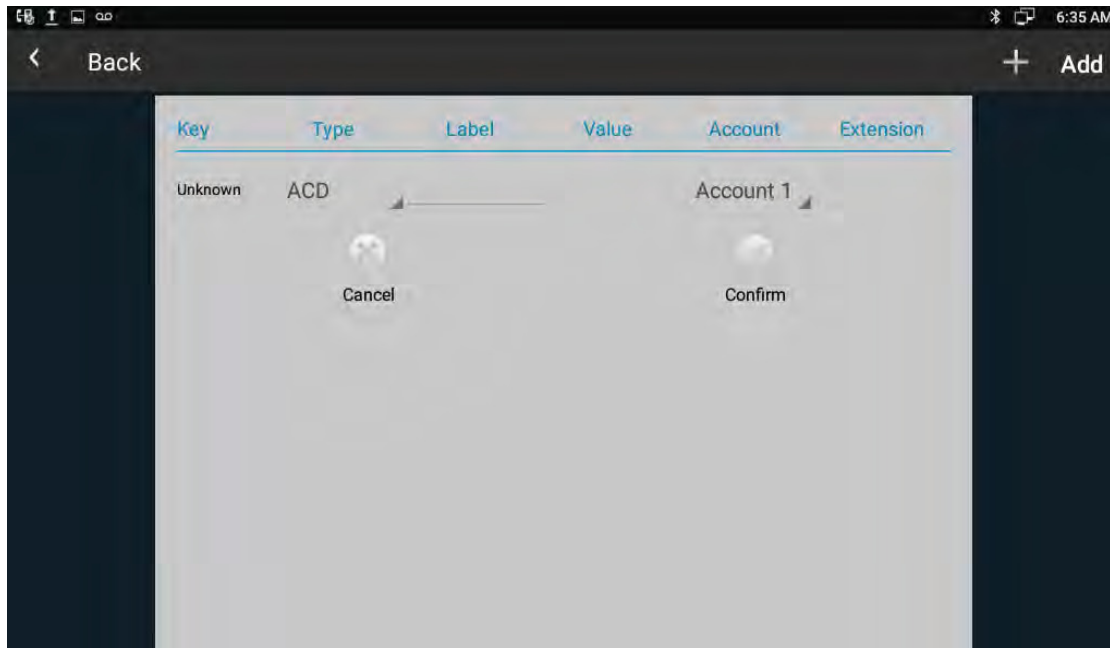
Group pickup can answer group's user incoming calls. When anyone in group receives an incoming call, user can press the group pickup key to answer.



**Note:** Press the group pickup only to answer line 1 incoming call if there are many lines incoming calls in group.

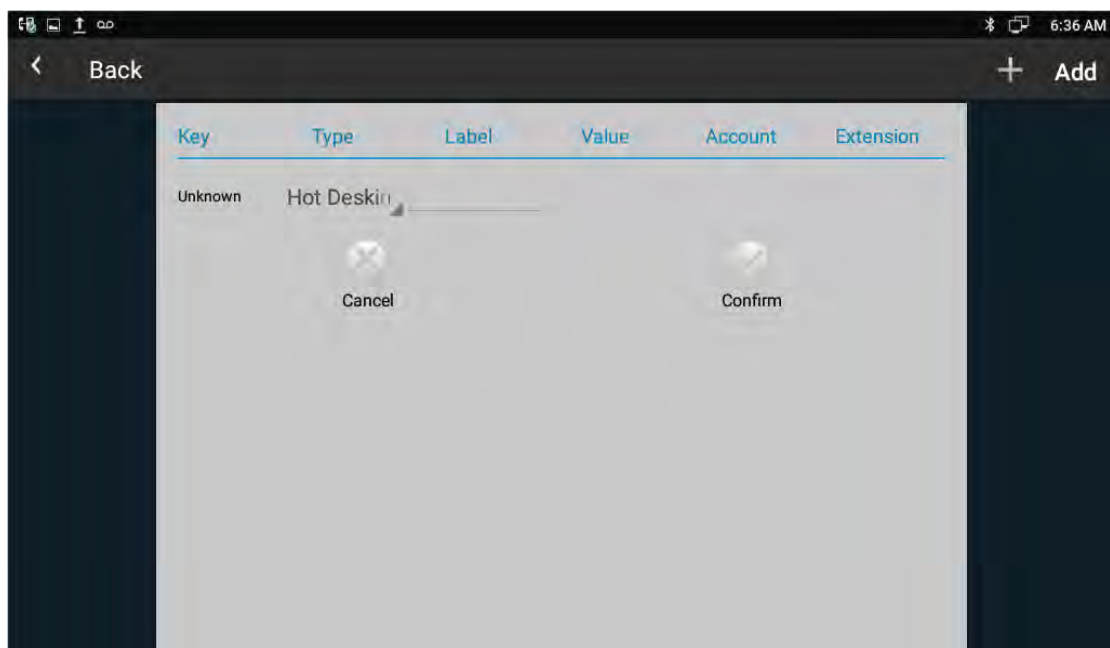
## 5.8 ACD

Automatic Call Distribution (ACD) enables organizations to manage a large number of phone calls on an individual basis. ACD enables the use of IP phones in a call-center role by automatically distributing incoming calls to available users, or agents. ACD depends on support from a SIP server. ACD is disabled on the phone by default. User need to enable it on a per-line basis before logging into the ACD system.



## 5.9 Hot Desking

In some working place, the people are always walking around. HotDesking feature will make the staffs login his account on any computer in the company. In some public places, the working people is not fixed, anyone can use HotDesking for logging his account, and setting the phones to the familiar mode, such as the remote function of the computer.

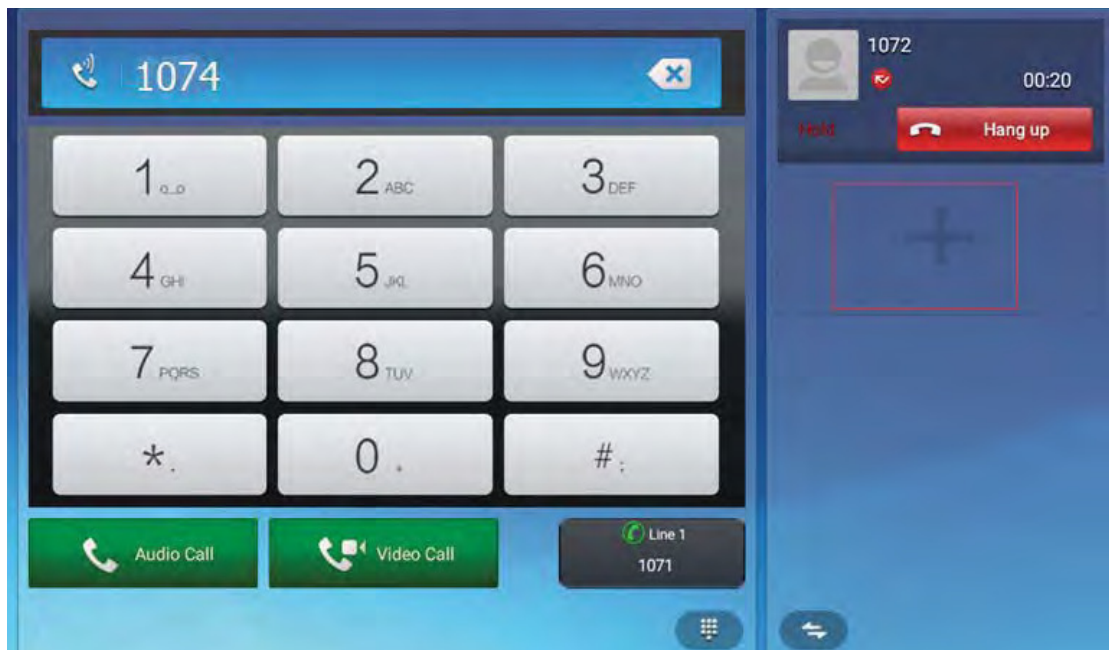


## 5.10 Conference

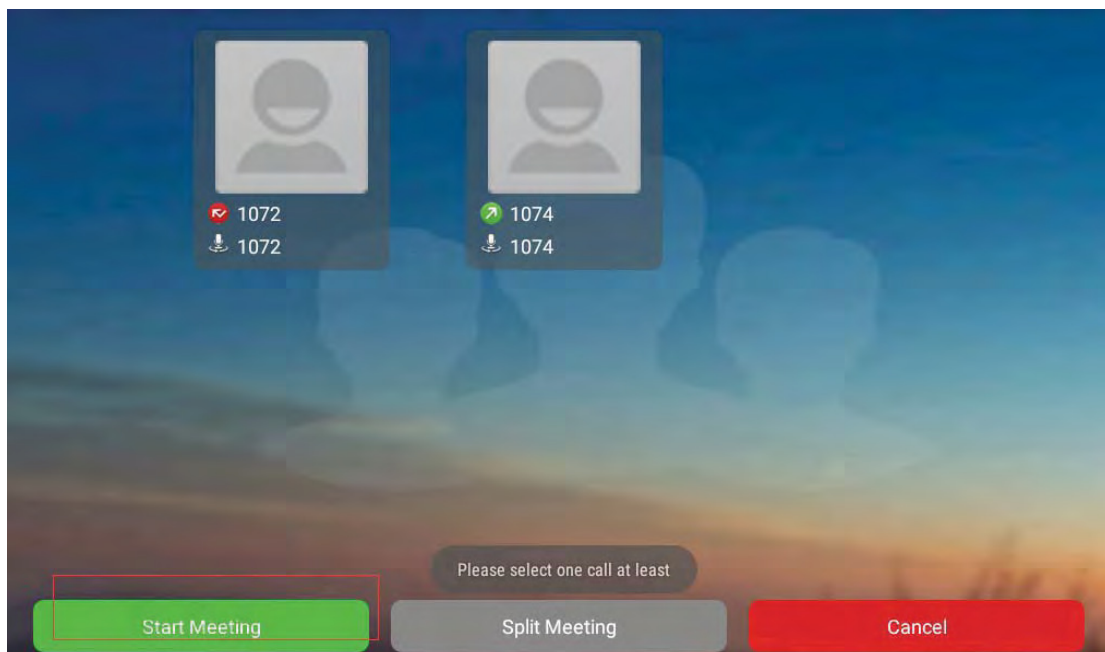
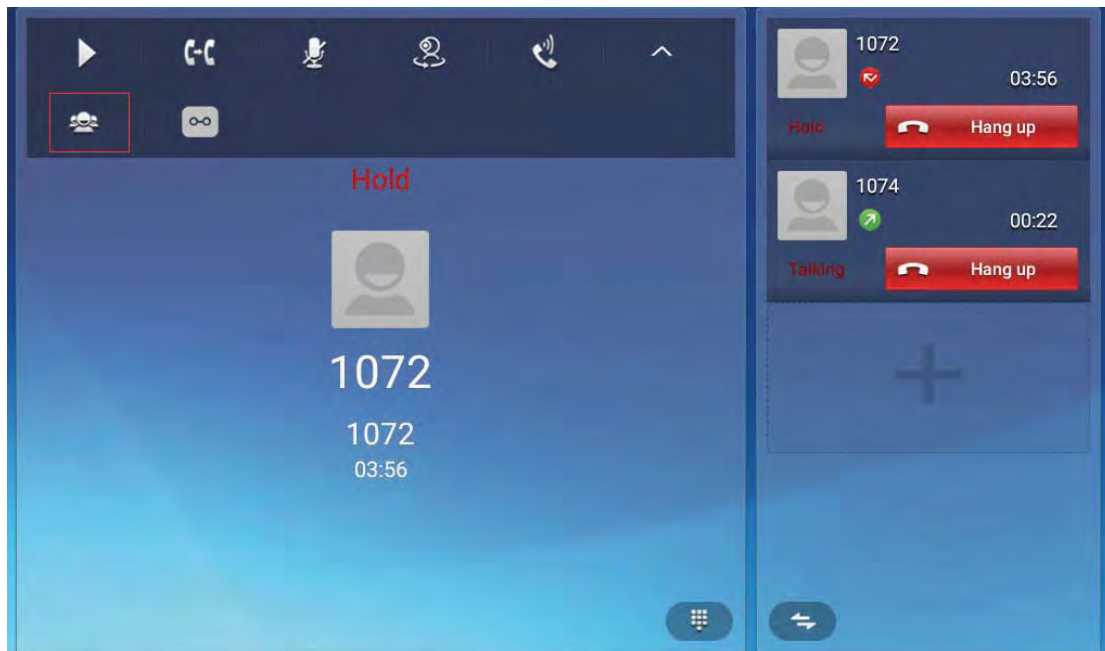
User can use the conference feature to hold a 3-way conference by pressing the Conference soft key to invite the current talking and one line talking held to attend conference.

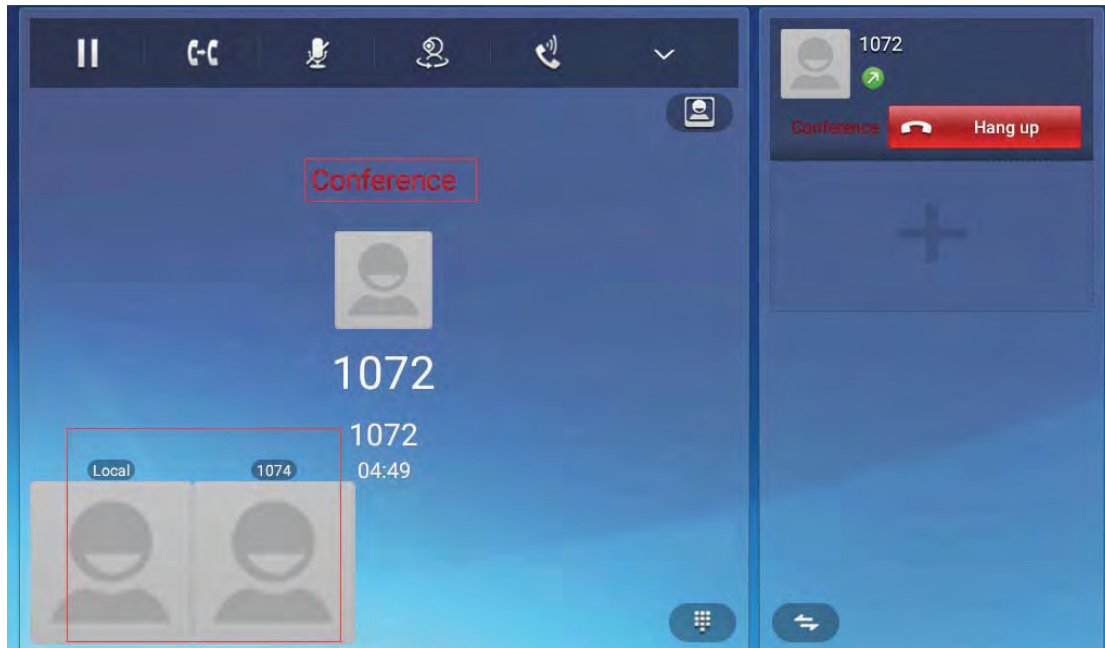
### 5.10.1 Create 3-way conference

1. Create talking with first party;
2. Press  to create a new talking;
3. Input the number of second party and press the Video Call or Audio Call to make a call;



4. When the second party answers the call, press the Conference softkey or the Conference key on the keypad to start 3-way conference.





## 5.11 Transfer

### 5.11.1 Blind Transfer

When the IP phone blind transfers a call.

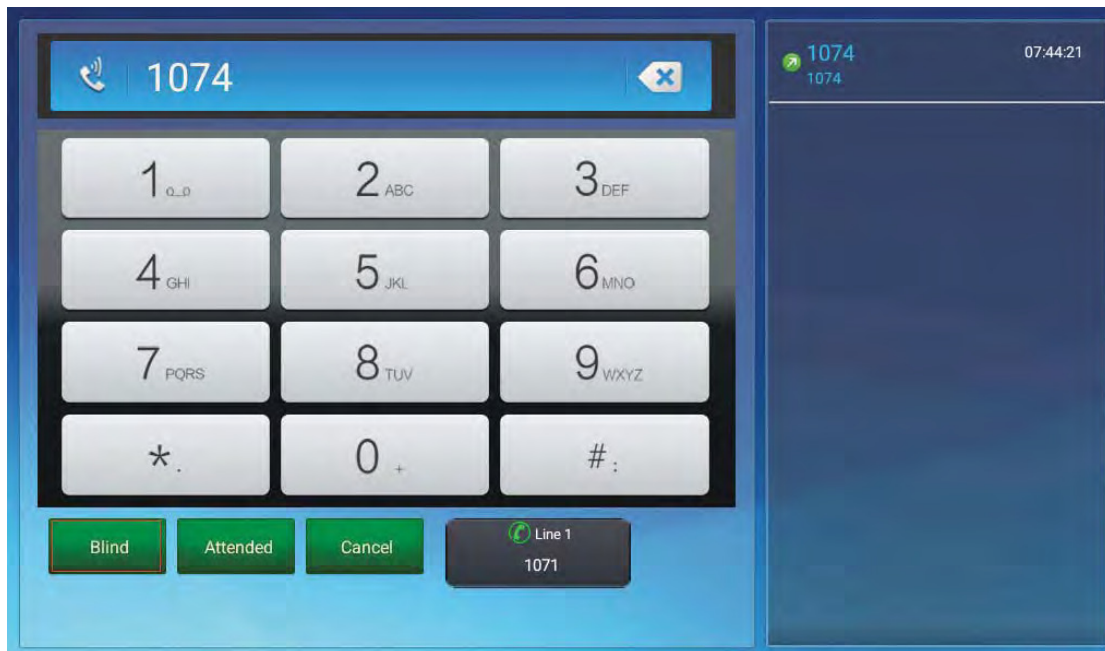
1. During the first way conversation, press transfer key on the keypad or click



enter the configuration interface.

2. Enter the transfer number, then click Blind label to transfer the number.

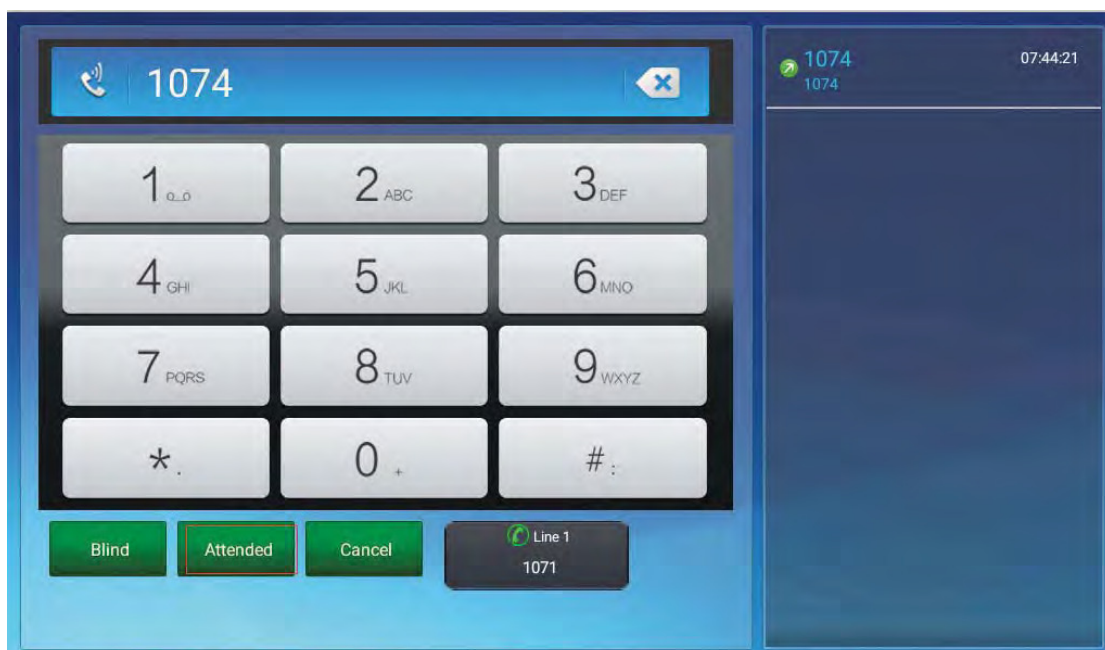
Configuration interface shown as below.

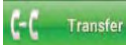


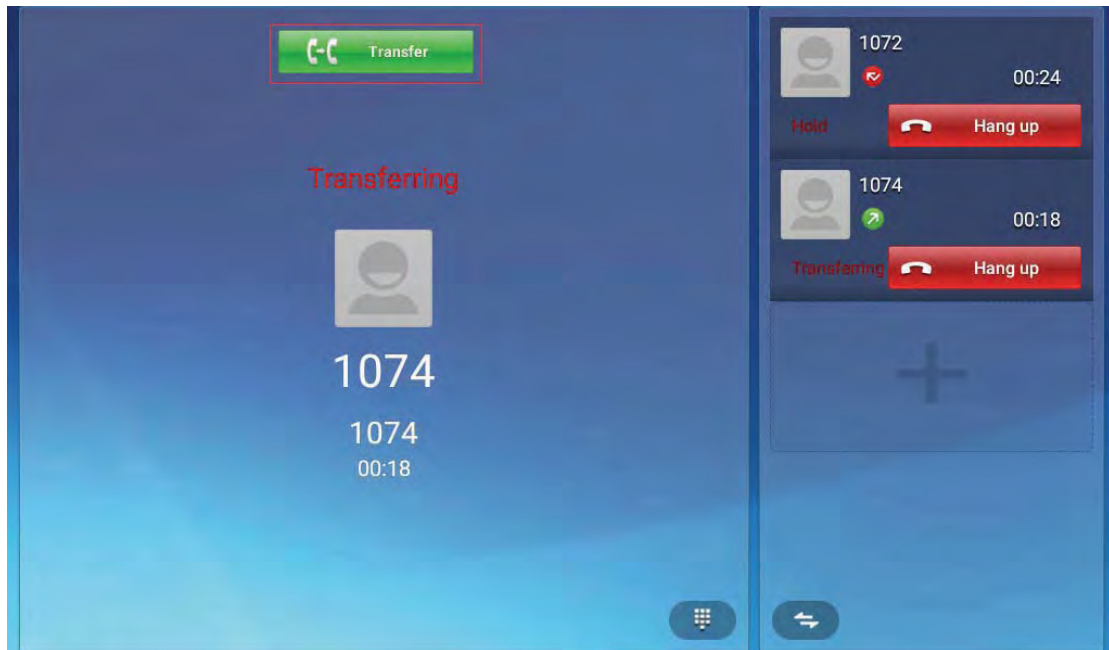
### 5.11.2 Attended Transfer

1. During the first way conversation, press transfer key on the keypad or click  enter the configuration intserface.
2. Enter the transfer number, then click Attended label to transfer the number.

Configuration interface shown as below.



- When the third party answered, press  to confirm the transfer. Shown as below.



## 5.12 Keypad Input

Only numbers, \* and # can be input by keypad. The default Input method is Android keyboard. User can also download the preferred input method from the internet.

## 5.13 Webpage Browser

This section describes the default web browser in the video phone, and user can also download the preferred browser through the internet.

User can use one of the following methods to run the browser:

- Mode 1: In the main screen, click  .
- Mode 2: In the main screen, click  ->  .

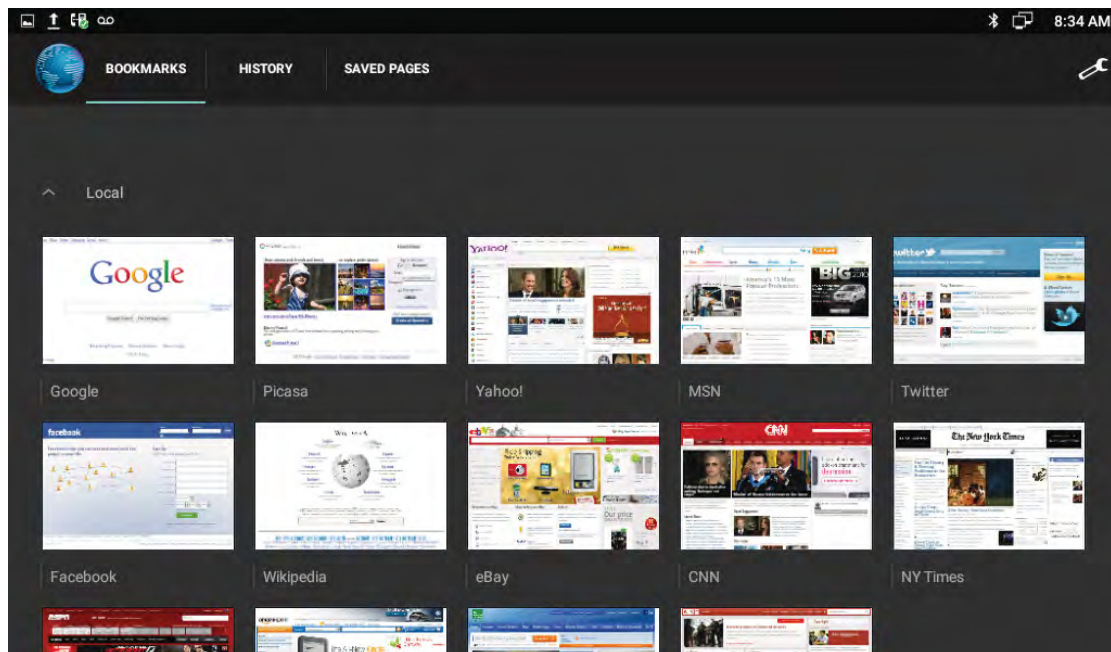
## 5.13.1 Open The Webpage

### 5.13.1.1 Browser Address Bar

Run the browser, enter the URL in the address bar or direct input the information to search. After the input, user can click “Go” on the soft keyboard to complete.

### 5.13.1.2 Bookmark And Browsing History

Run the browser, click  to view the bookmark & history & saved pages.



Icon description shown as below.

|                                                                                     |                                        |
|-------------------------------------------------------------------------------------|----------------------------------------|
|  | Add a new webpage                      |
|  | View the bookmark and browsing history |
|  | Others                                 |

5.14 Camera

- 1. In the main screen, click  -> .
- 2. Slide right on the screen, view the photos and videos in “Gallery”.

5.14.1 Photograph Mode

Turn on the camera, and the default mode is photograph mode.

5.14.1.1 Basic Setting

Click on the right upper corner  pop up the menu on the right list.

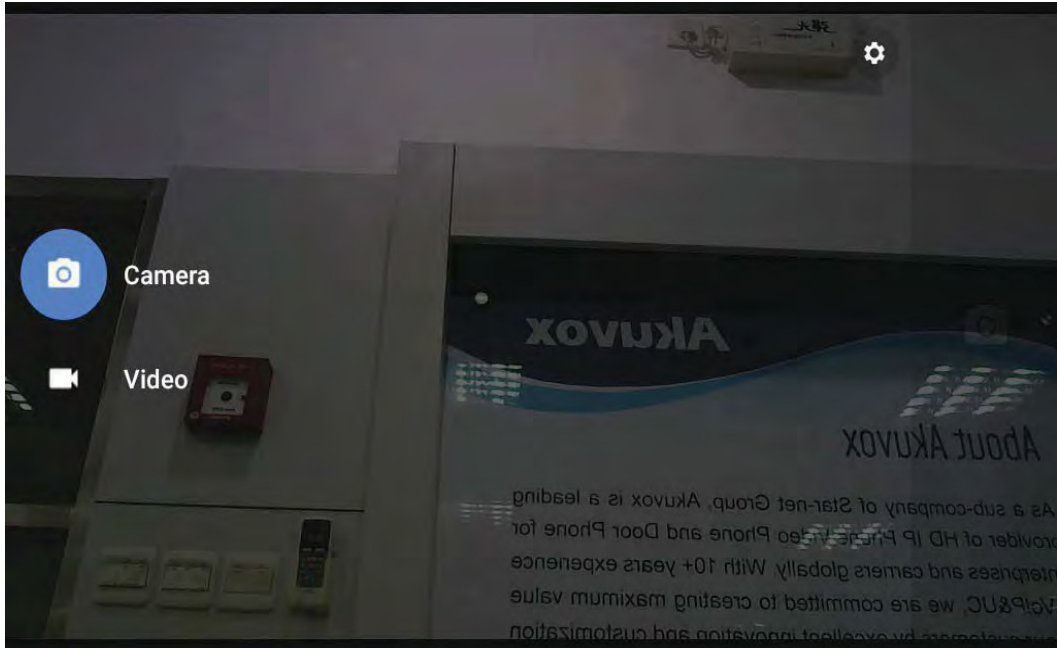
|                                                                                     |                                               |
|-------------------------------------------------------------------------------------|-----------------------------------------------|
|    | nonsupport                                    |
|   | Click to enable/disable the reference grid    |
|  | Click to set the delay shutter to take photos |

5.14.1.2 Mode Switch

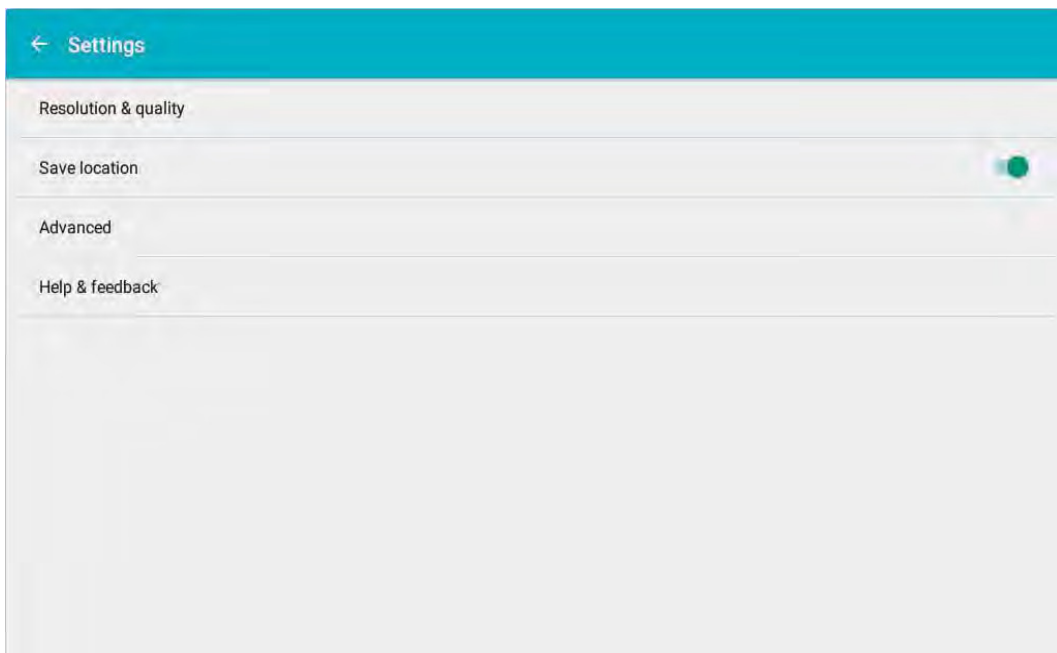
Slide right on the screen to switch the mode.

|                                                                                     |            |
|-------------------------------------------------------------------------------------|------------|
|  | Video mode |
|  | Photo mode |

Click icon  on the right upper corner to enter the related parameters setting interface.



User can enter to set the resolution & quality to set the camera & video parameter.



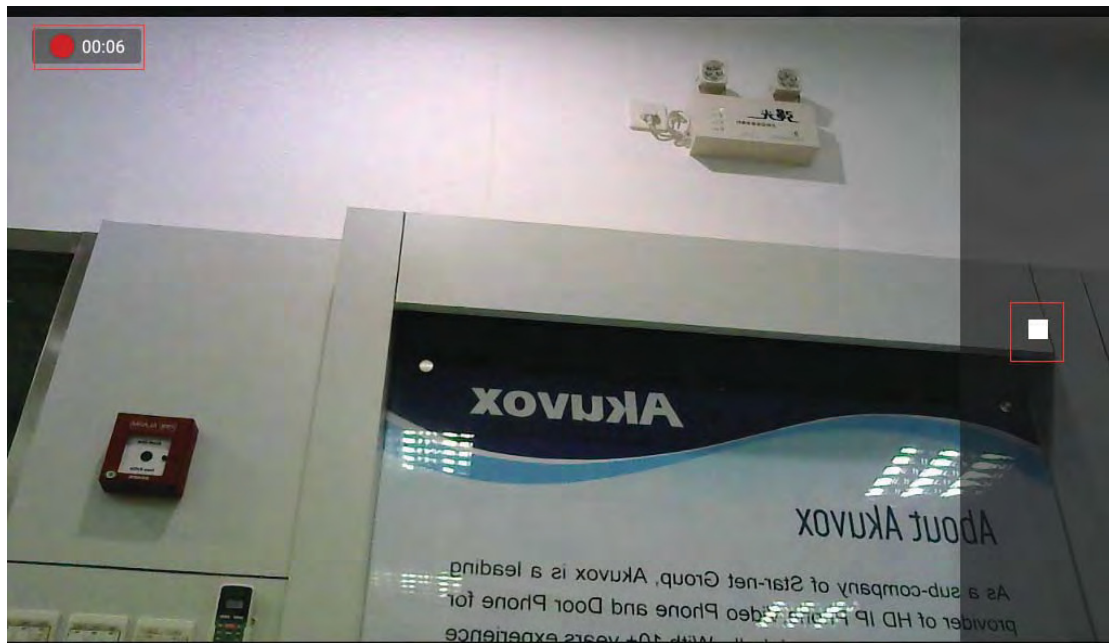
#### 5.14.1.3 Take A Photograph

User can click the button  on the right side to take pictures. If user want to adjust the focal length, use two fingers to press on the screen, shrinkage or expansion to adjust the focal length.

#### 5.14.1.4 Take A Video

Slide right on the screen to switch the mode. Click icon  to switch to video mode.

Click  on the right side, video starts when the icon turns to . And click  to stop the video recording and save. Shown as below.



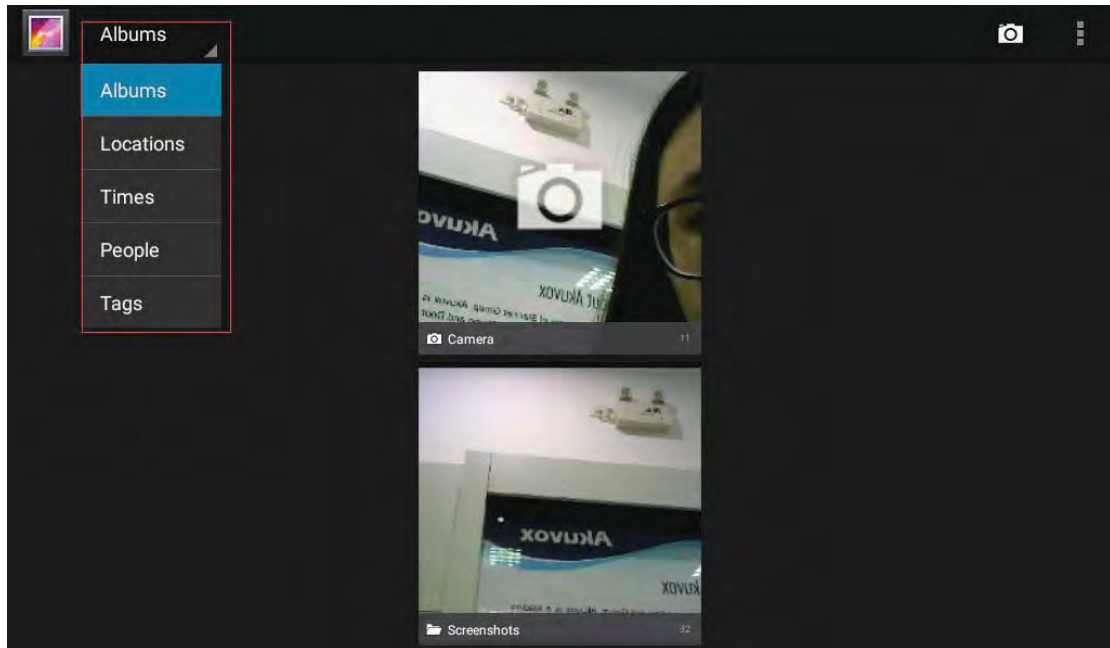
### 5.15 Gallery

User can use Gallery to view photos or videos, and user can also view the picture or video downloaded from the Internet. user can edit the photo or picture and set it as wallpaper.

In the main screen, click icon  -> click icon .

#### 5.15.1 View Photo & Picture & Video

Enter the gallery, user can view all photos, pictures in the device, as shown below.



Click the icon  on the upper left corner, can view photos and videos in groups in the drop-down list. Click on the folder to view all the photos.

While viewing photos, user can use two fingers to press on the screen, shrinkage or expansion to shrink or enlarge the image.

## 5.16 Bluetooth

Bluetooth is a proprietary, open wireless technology standard for exchanging data over short distances from fixed and mobile devices, creating personal area networks with high levels of security. On VP-R48G, users could use Bluetooth to transfer files, share contact information with other Bluetooth portable devices by installing Bluetooth Application, or use Bluetooth headset for making calls.

To connect to a Bluetooth device, turn on VP-R48G's Bluetooth radio first. The first time when using a new Bluetooth device with the VP-R48G, "pair" the device with VP-R48G so that both devices know how to connect securely to each other. After that, users could simply connect to a paired device. Turn off Bluetooth if it's not used.

Bluetooth related settings are under VP-R48G's Settings application → Wireless & networks.

### 5.16.1 Turning Bluetooth On /Off

- Press on screen  -> click icon .
- Click on Wireless & Networks.
- Click or untick the option for Bluetooth.

### 5.16.2 Changing Bluetooth Device Name

The VP-R48G uses “VP-R48G” as Bluetooth device name by default. The device name will be visible to other devices when connecting them. Follow the steps below to change the name:

- Press on screen  -> click icon .
- Click on Wireless & Networks.
- Click on Bluetooth.
- Click on Bluetooth settings icon , pop up a drag-down box select Rename this device to enter a new name. Once done, click RENAME label to save.

### 5.16.3 Paring VP-R48G With A Bluetooth Device

Before connecting VP-R48G with other Bluetooth device, users must pair them first. They will stay paired afterwards unless they are unpaired.

- Press on screen  -> click icon .
- Click on Wireless & Networks.
- Click on Bluetooth.
- Open the Bluetooth. The VP-R48G scans and displays the IDs of all available Bluetooth devices in range. If the device user would like to pair with does not show up in the list, ensure that the other device is turned on and set to be discoverable.

- If the VP-R48G stops scanning before the other device is ready, turn off the R48G Bluetooth, then turn on again.
- The discovered device will show in the available devices list with device ID. Make sure the Bluetooth device is active in pairing mode. Then tap on the device ID on the VP-R48G to pair them. Confirm the passkey in the prompted message (if any). Or if PIN is required, please refer to the device's documentation or other procedures to obtain the PIN.

#### 5.16.4 Un-pairing A Bluetooth Device

After successfully paired, the VP-R48G will show in Paired devices bar with paired device name.

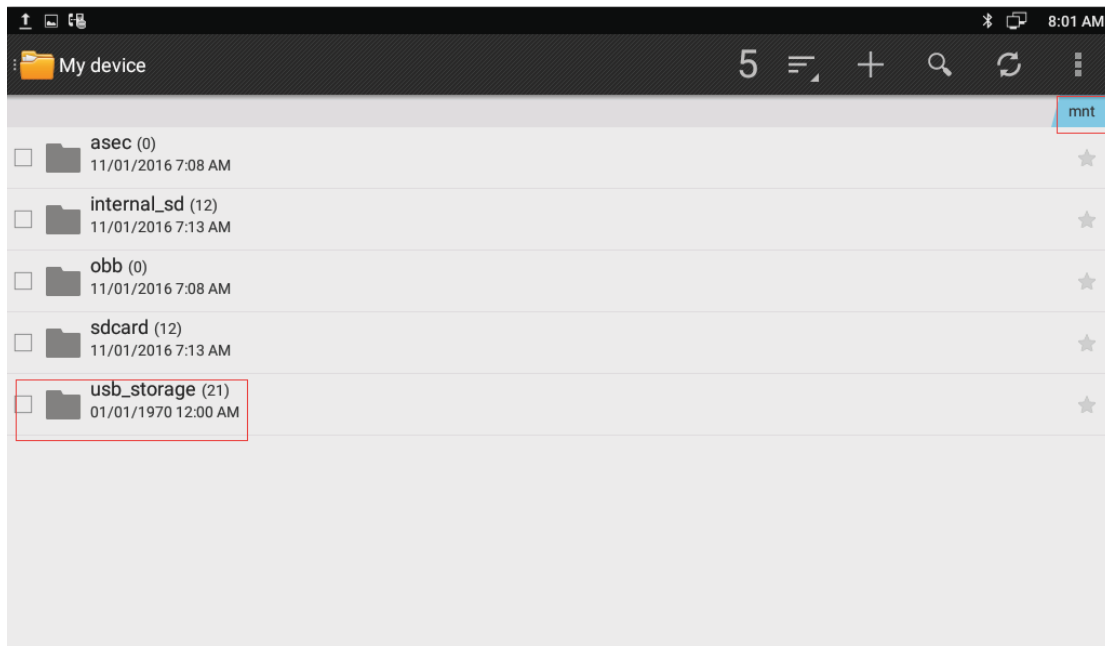
Once it's connected, users can tap icon , then click FORGET to unpair the connected device.

### 5.17 USB

The video phone supports USB connection for keyboard and USB storage devices. To use USB keyboard, simply plug it into the USB port on the right side of the video phone and it will be ready to use.

To connect and access USB storage device:

- Insert USB storage device into USB port at the right side of video phone.
- It will take a few seconds for the video phone to prepare the connection.
- To access USB storage, click on the main screen  -> click Explorer icon  -> click mnt on the right upper corner->click usb\_storage, to access and manage your data. Shown as below.

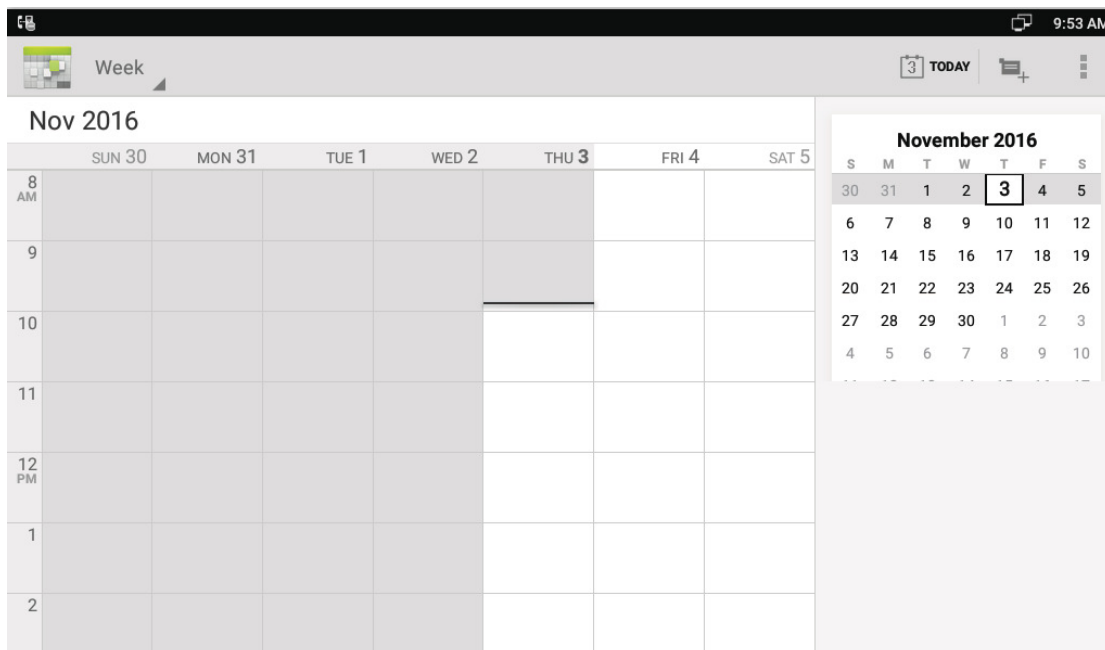


## 5.18 Calendar

To start the calendar:

- In the main screen, click icon  -> Calendar .

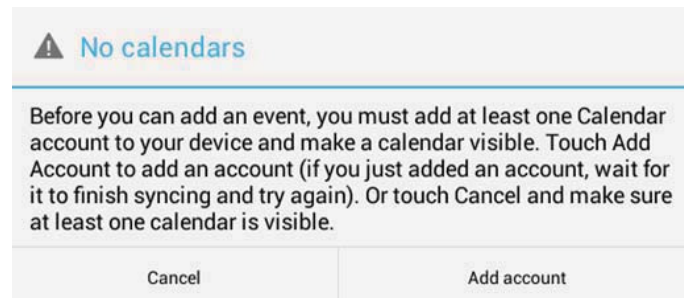
As shown below:



If one day has activity, color will appear on the calendar to remind.

### 5.18.1 Add An Account

While using the calendar at the first time, it will remind you to add an account.

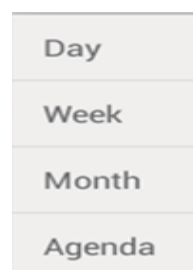


Click "Add account" to add an account, and then synchronize all the schedules of the account to the calendar.

### 5.18.2 View Calendar

The calendar will display weekly by default, and you can slide the calendar up and down to view the different weeks. In order to view the activities or create the new activities, you can also make the calendar display daily or monthly. While using daily or monthly displaying, you can slide the calendar left and right to view the different day or month.

Click the date on the upper left corner, it will display the drop-down list



, Calendar displaying mode can be selected as daily, weekly or monthly.

### 5.18.3 New Activities

While Calendar is displaying as daily or weekly, you can use the following methods to

create a the new activity:

- Click on the date, and then click on the time period;
  - Click on  ;
- 1) Input the details of the activity,
  - 2) Click “Done” to finish.

#### 5.18.4 Edit Activities

You can click on schedule needed to be modified to edit the schedule.

#### 5.18.5 Delete Activities

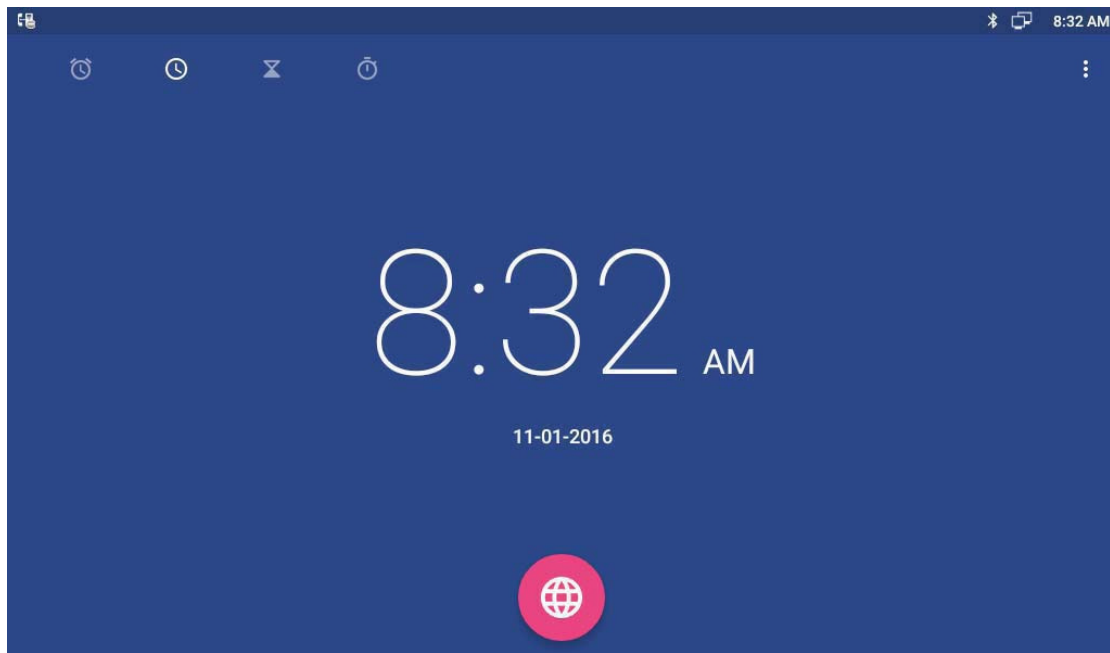
While viewing the activity, you can click “DELETE” on the upper right corner to delete the activity.

### 5.19Clock

Enter the Clock:

- In the main screen, click  -> Clock icon  .

As shown below.



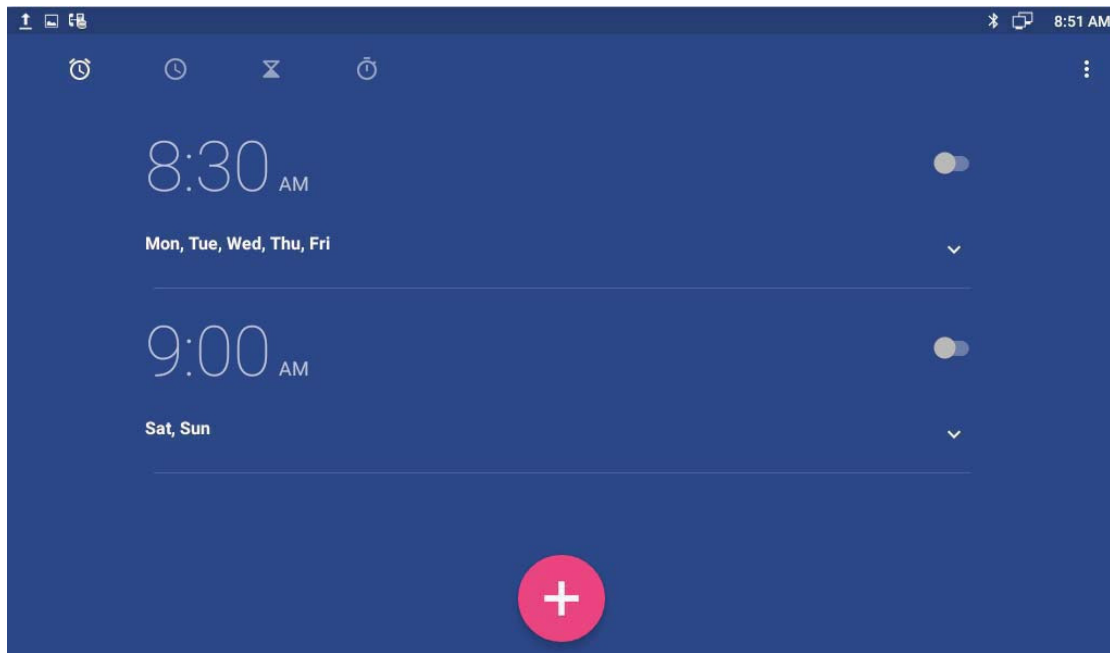
Description:

|                                                                                     |                   |
|-------------------------------------------------------------------------------------|-------------------|
|    | Alarm             |
|  | Default real time |
|  | Countdown timer   |
|  | Stopwatch         |
|  | Time zone Others  |
|  | Others setting    |

### 5.19.1 Alarm

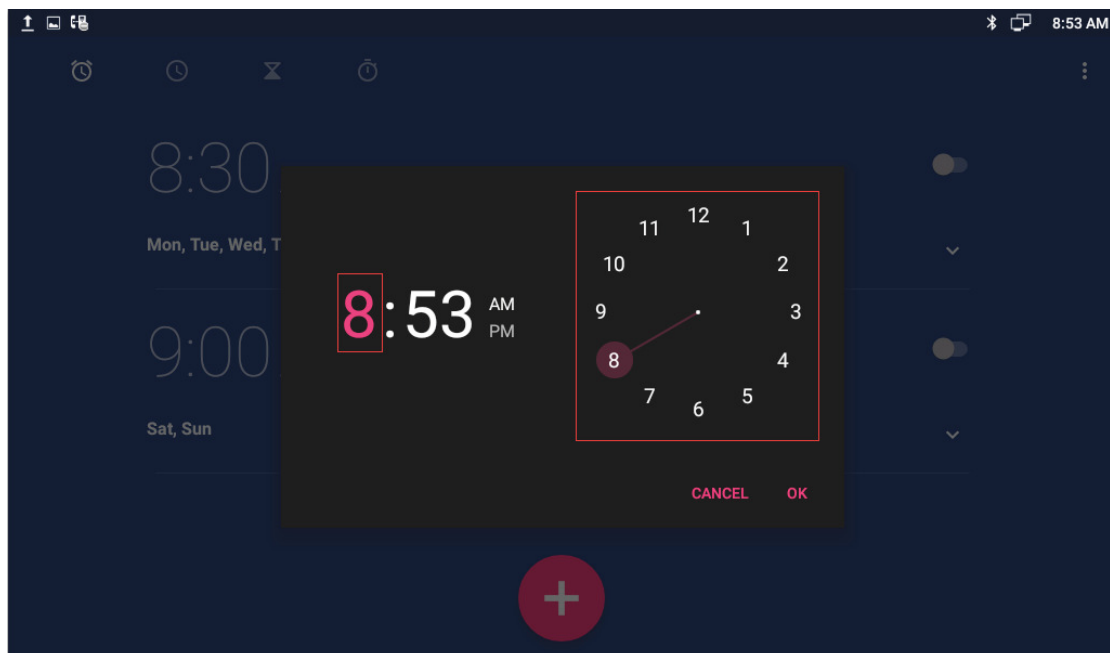
User can add one or multiple alarms:

- 1) Click .



2) Click icon .

3) To set the hour and minute, click the digit on the right side to set hour and minute.



4) Then user can select enable or disable repeat the alarm in some days of a week, select the ringtone of the alarm and edit display label. If not modify, will present tomorrow as default.

#### 5.19.1.1 Enable/Disable Alarm

User can click icon  to enable or disable the alarm.

**Note:** If power off the phone, the alarm will also be off.

#### 5.19.1.2 Modify Alarm

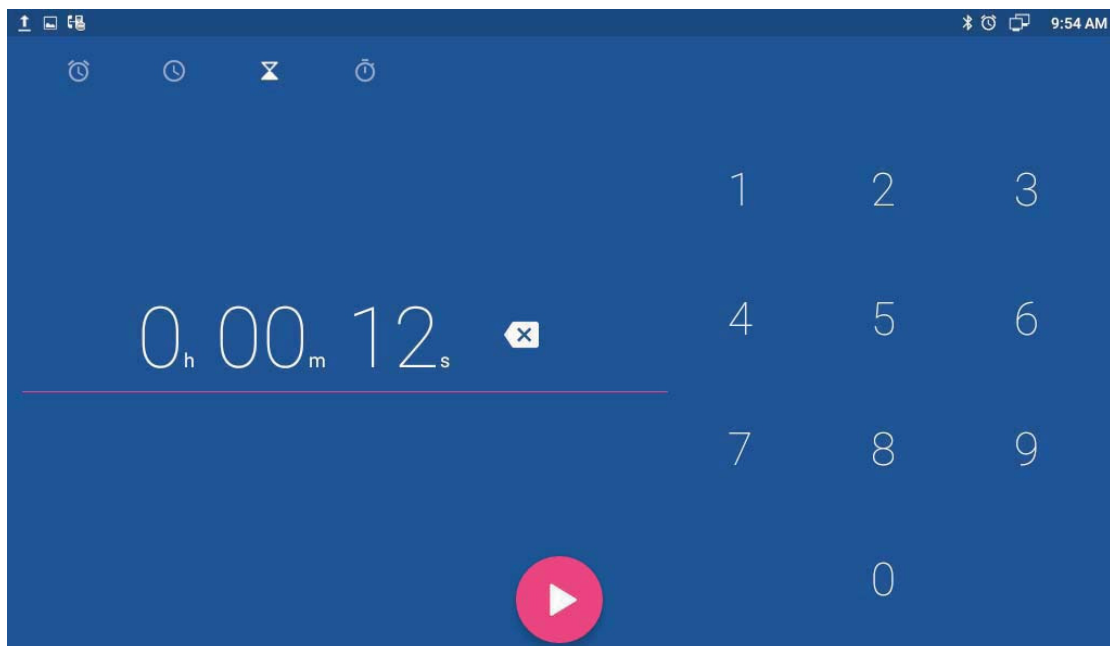
If user want to modify the status of the alarm, including time, repeat data, alarm ringtone, can directly click on the alarm.

#### 5.19.1.3 Delete Alarm

In Alarm page, user click the alarm, after pop-up the dialog box, select  to delete the alarm.

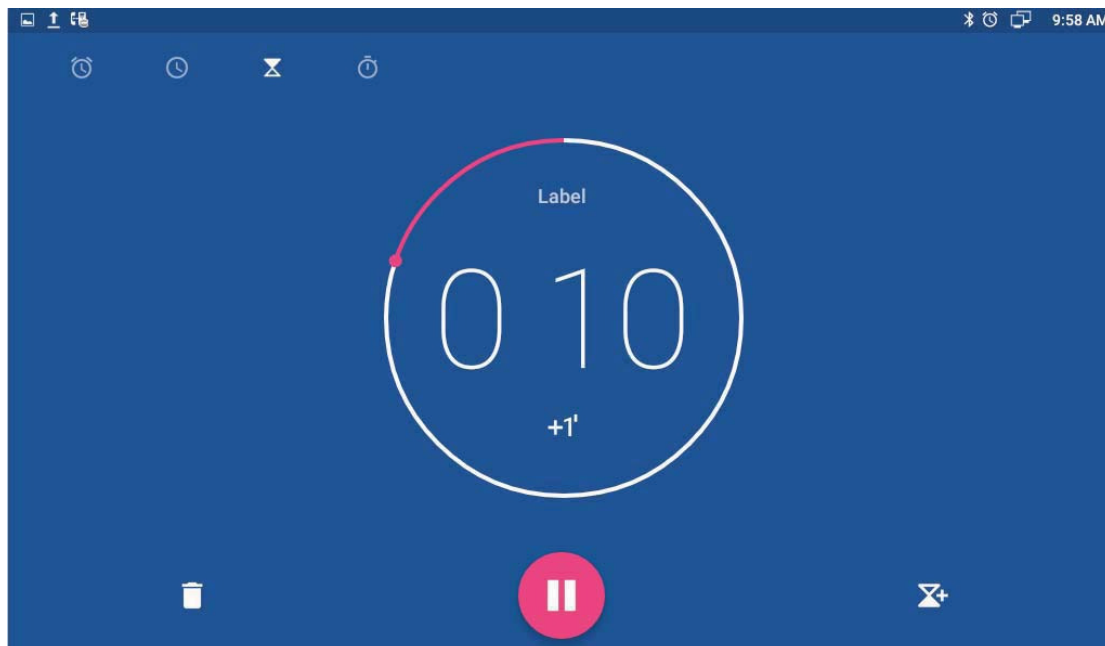
### 5.19.2 Countdown Timer

1) Click . Click the digit on the right side. Show as below.



2) Click  to delete the digits.

- 3) Click icon  to start the countdown timer. Click  to stop the time.

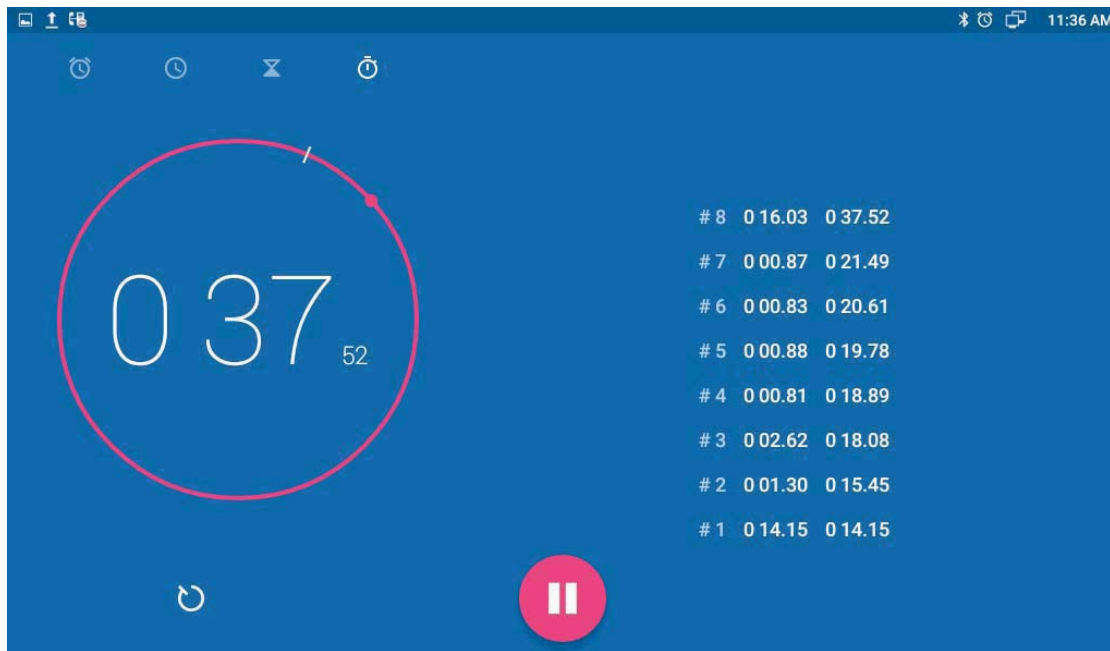


The other buttons are described as followed.

|                                                                                     |                                             |
|-------------------------------------------------------------------------------------|---------------------------------------------|
|  | Click to add one minute to countdown timer  |
|  | Click to delete the current countdown timer |
|  | Click to add another countdown timer        |
|  | Click to reset the countdown timer          |

### 5.19.3 Stopwatch

- 1) Click icon .
- 2) Click icon  to start the time. Click  to stop the time.
- 3) In normal, click icon  to remember the corresponding time.
- 4) When the time is on hold, click icon  to reset the timer.



## 5.20 Gmail

Email Application can let you use POP3 or IMAP service to send and receive e-mail.

Start Email:

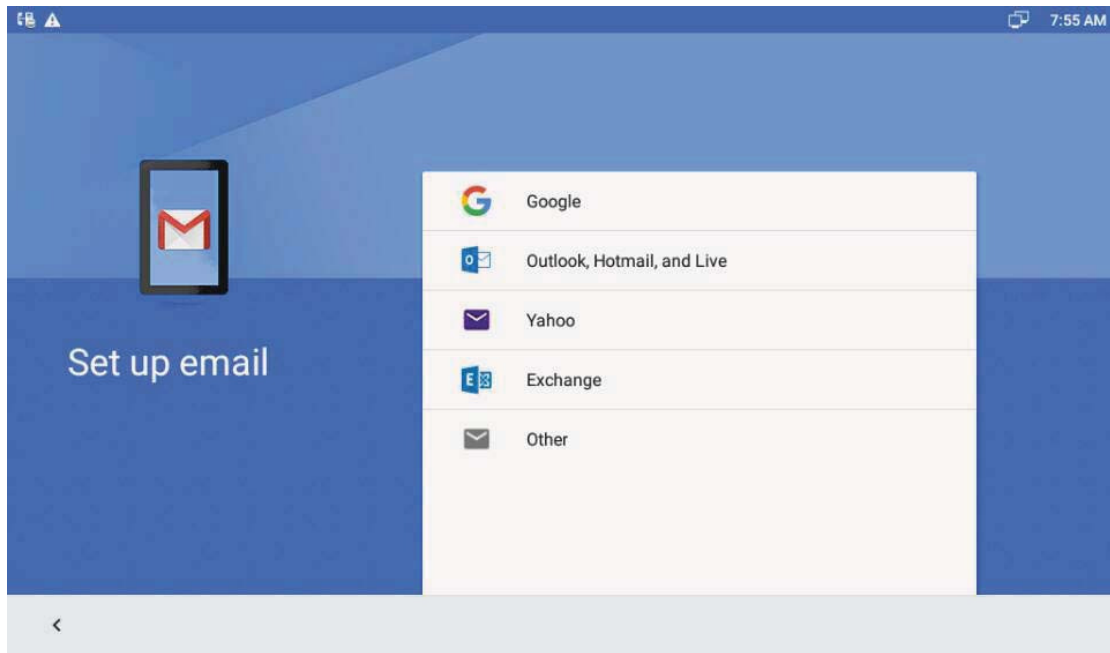
- In the main screen, click  ->Email

### 5.20.1 Add A New Gmail Account

Make sure the email account has enabled POP3 or IMAP service, and you can add many accounts.

Please choose one of the following methods to start:

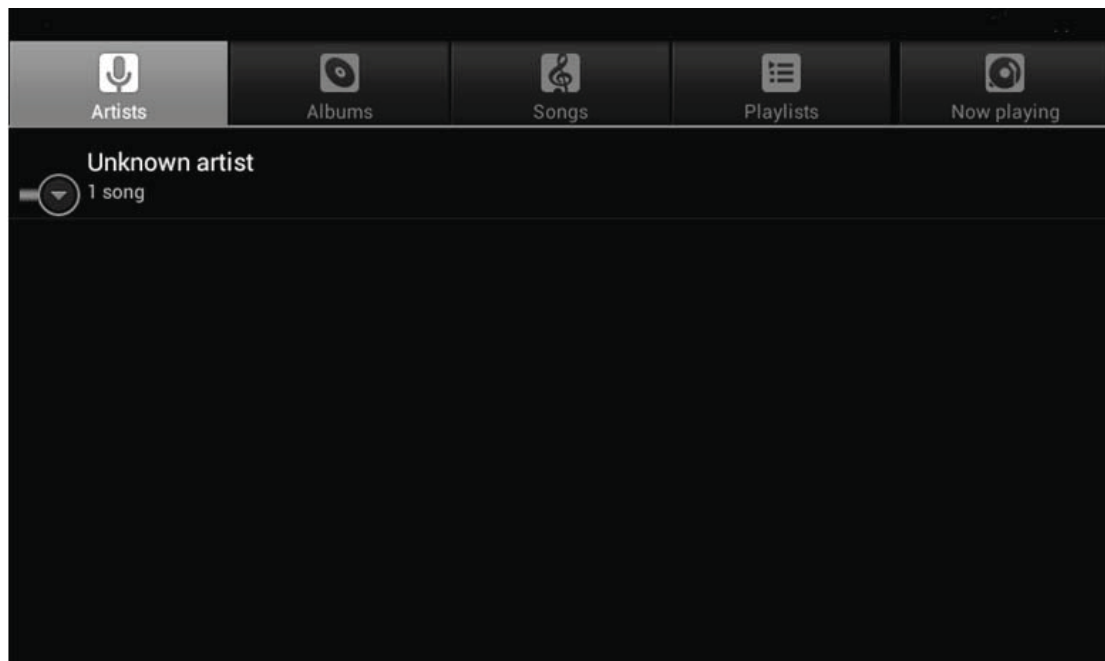
- If you haven't added an e-mail account yet, while starting the e-mail application, you will be asked to set up your account, as shown below



- If you have already set up an email account, In the main Email page, Press “Menu” button, and then click “Account”, and last press “Menu” to “Add Account”.
  1. Input the email account and password, and then click “Next”;
  2. If there is no account type in the equipment database you want to set, the device will require you to enter more detailed information (the receiving server settings and outgoing server settings).
  3. Input the account name and your name, click OK.

## 5.21 Music

In the main screen, click icon  -> Music icon  .  
The music page is shown as below.



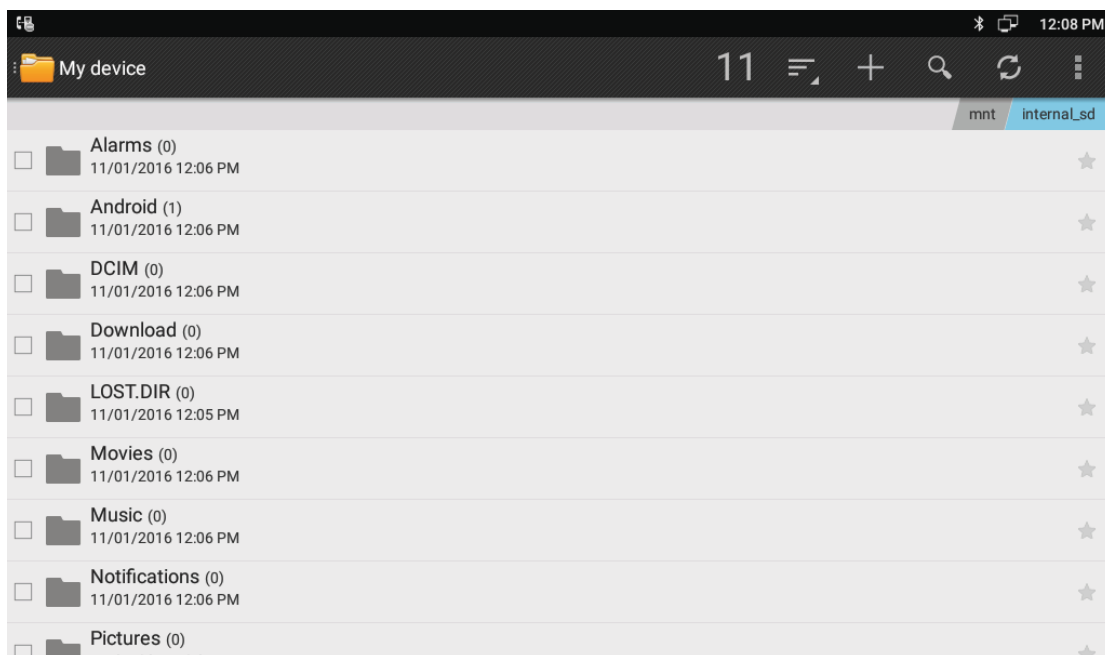
User can click the labels of Artists, Albums or Songs to view all songs, view or play the songs from the playlists.

To view the currently playing song, click the Now playing label to view .

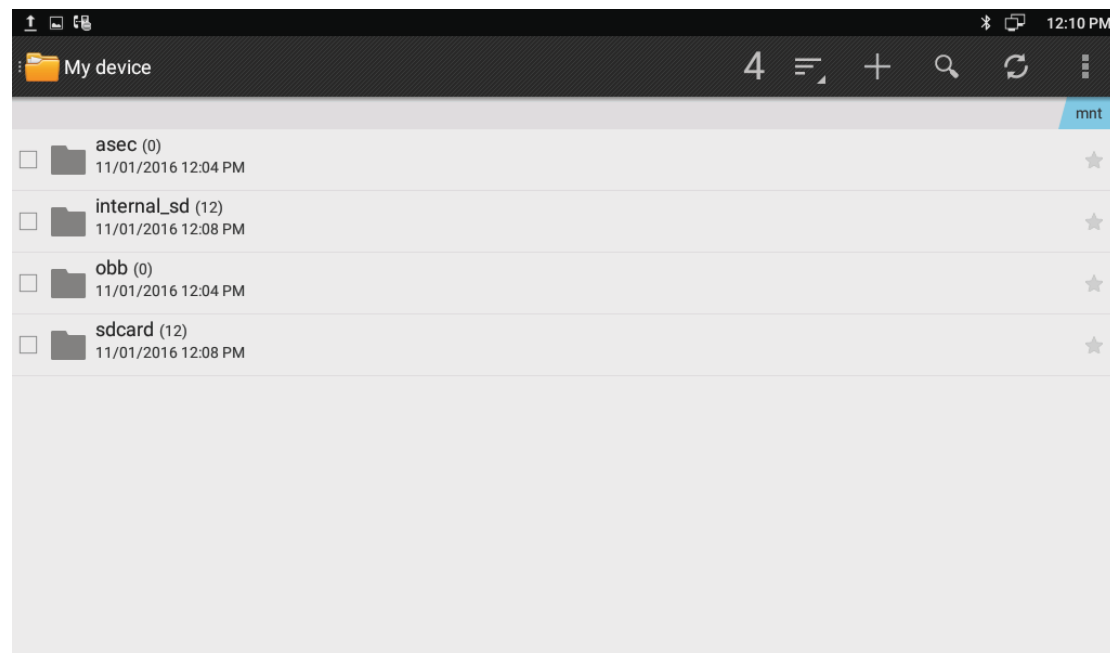
## 5.22 Explorer

User can use explorer to manage the files in the device.

In the main screen, click icon  -> Explorer icon . As shown below.



Click mnt to enter to show as below. If insert the USB device, will displayed in this layer. Shown as below.



|                                                                                     |                                                   |
|-------------------------------------------------------------------------------------|---------------------------------------------------|
|  | Click to modify the sort: by name, time,size,type |
|  | Click to creat a new folder or photo folder       |

## 5.23 Video Player

User can use video player to play local videos.

To run the video player: In the main screen, click  -> Video icon . After entering, user can click on the list of videos to watch. As shown below:

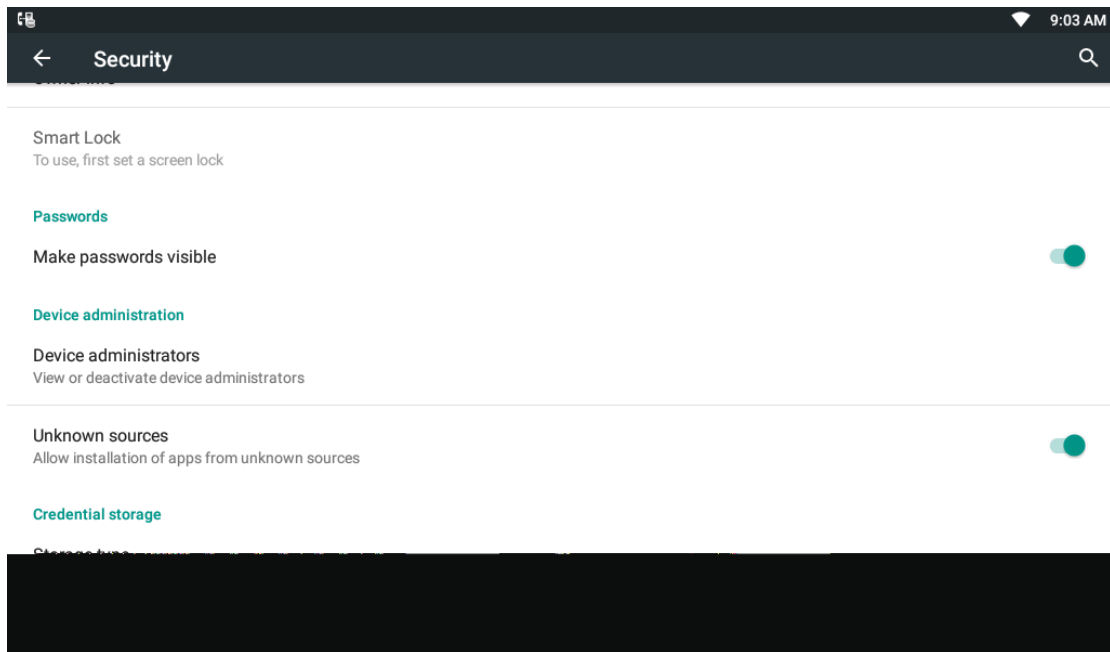


|                                                                                     |                                                                                                                                                    |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
|   | Screen Brightness Adjustment                                                                                                                       |
|  | Click to adjust the volume                                                                                                                         |
|  | Click to add into the Bookmark.                                                                                                                    |
|  | The previous video, and long press to make video fast backward.                                                                                    |
|  | Hold/Play.                                                                                                                                         |
|  | The next video, and long press to make video fast forward. Screen size adjustment, four type of video sizes: original size, full screen, 16:9, 4:3 |
|  | Screen size adjustment, four type of video sizes: original size, full screen, 16:9.                                                                |
|  | Others                                                                                                                                             |

## 5.23 Others

### 5.23.1 Apk Install

User need open phone permission before installing. Go to the path: Settings->Security, enable Unknown sources.



In the main screen, click  ->Explorer. Select the Apk you want to install, follow he prompt to operate.

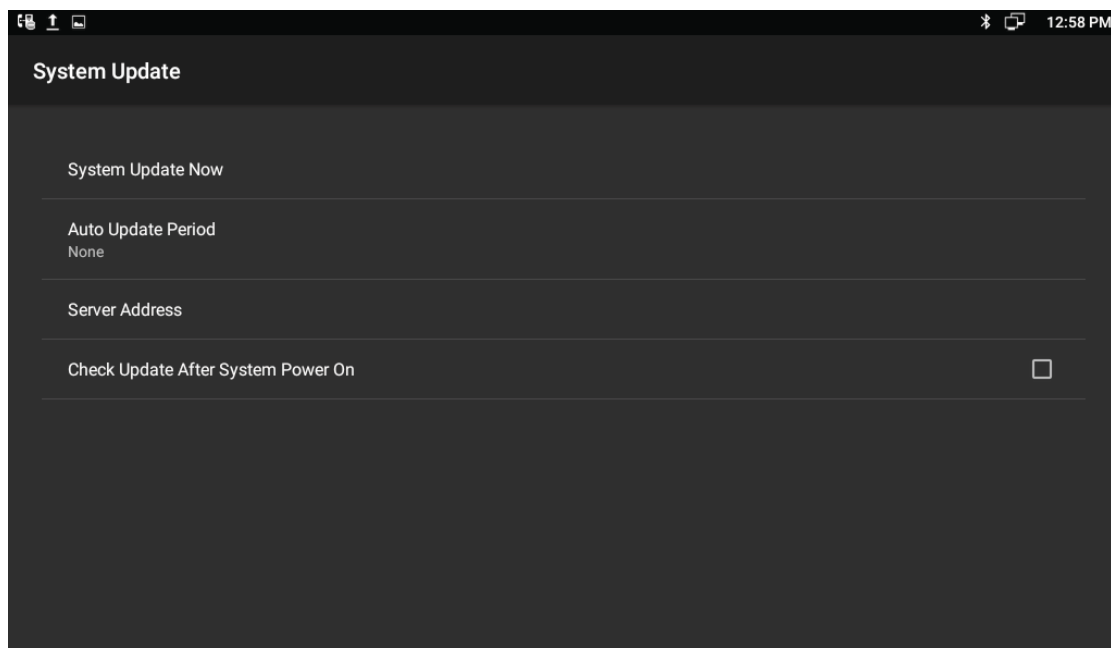
# 6 Software Upgrade

## 6.1 Immediate Update

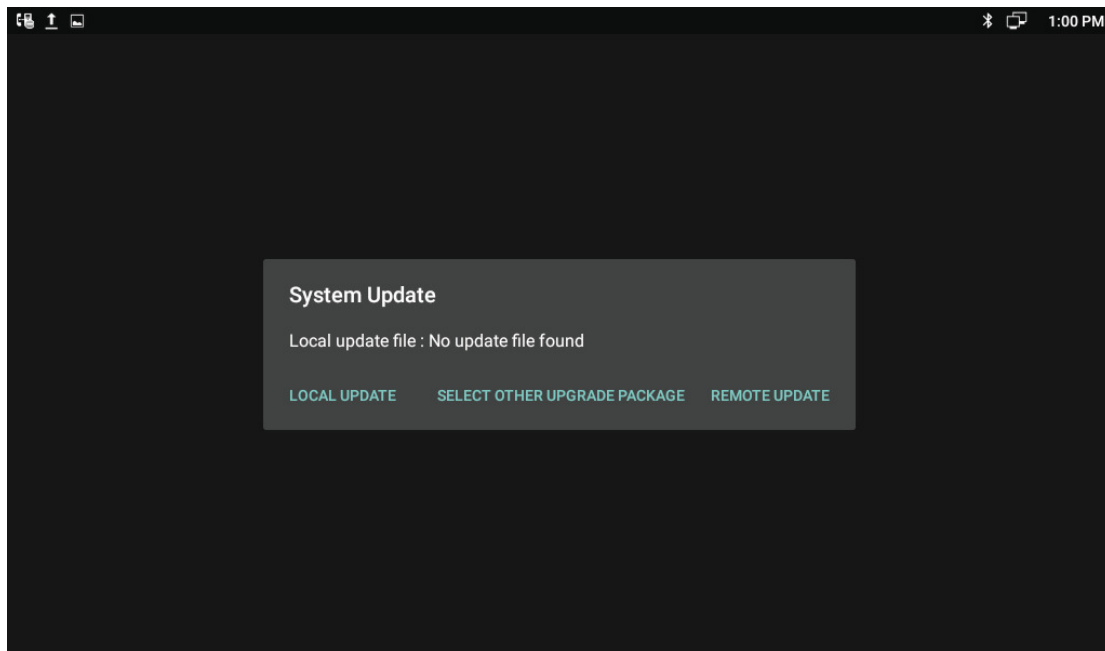
Choose one way below to enter the system upgrade interface:

- In the main screen, press “Menu” on board -> System Settings -> System -> About Multimedia Terminal -> System Upgrade -> System Update Now
- In the main screen, tap on settings icon  -> System -> About device -> System Update -> System Update Now.

Update interface as shown.



Three ways to update immediately: Local Update, Select other upgrade package, Remote Upgrade, as shown below.



### 6.1.1 Select Other Upgrade Package

#### 1) Via USB to Upgrade

Put upgrade package into USB, insert USB, then click “Select other upgrade package”, find “/mut/usb\_storage”, find the upgrade package, then click “OK” to upgrade.

#### 2) Via Internal Memory to Upgrade

Use USB to copy the upgrade package into Internal Memory, then press “Select other upgrade package”, find “/mnt/sdcard”, find upgrade document, then click “OK” to upgrade.

### 6.1.2 Local Update

#### 1) Via USB to Upgrade

Change the name of upgrade package into upgrade.zip, then copy it into USB, insert USB, enter the upgrade interface, user will find the path of upgrade package, because video phone has searched it automatically, click “Local Update” to start upgrading.

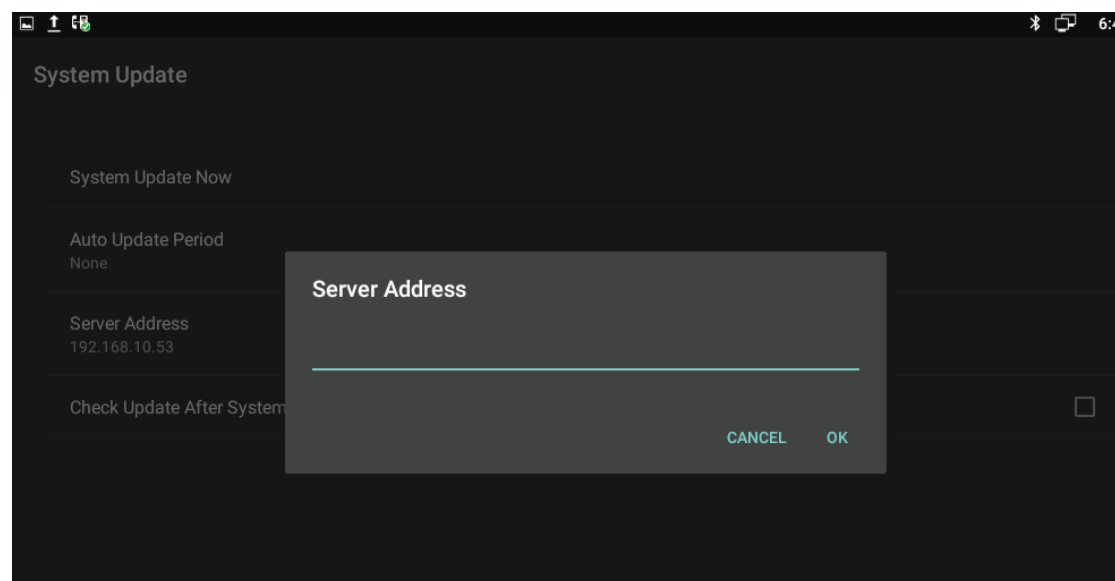
#### 2) Via built-in SD Card to upgrade

First, change the name of upgrade package into upgrade.zip, then copy it into USB,

and then use USB to copy the upgrade package into Internal Memory, enter the upgrade interface, you will find the path of upgrade package: /mut/sdcard/upgrade.zip, because video phone has searched it automatically, press “Local Update” to start upgrading.

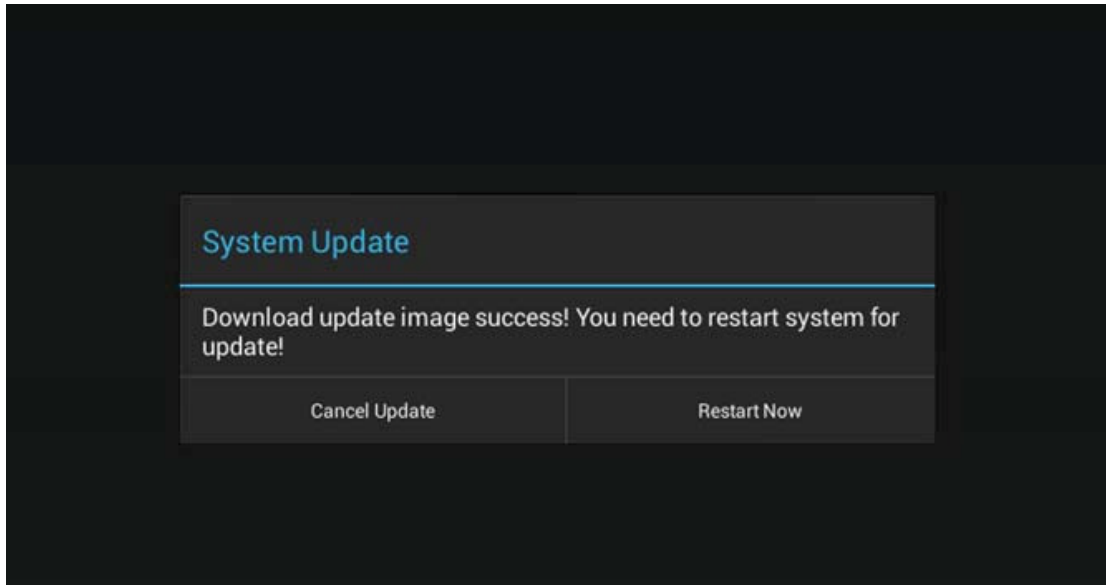
### 6.1.3 Remote Update

1) Enter the interface in figure 5-1, click “Server Address”, and input the server address that contains upgrade package. As shown below:



2) Click “Remote Upgrade”, video phone will check the new version automatically. If exist a new version, it will prompt. Press “OK” to download upgrade document.

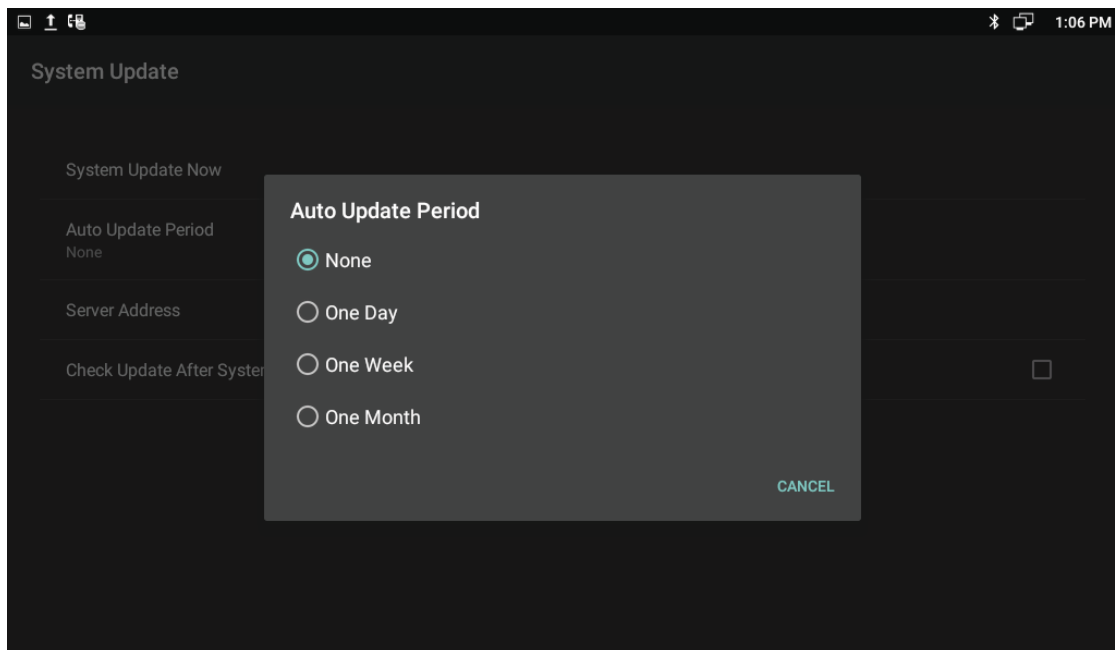
3) After finish downloading, it prompts “Download update image success! You need to restart system for update! ”, press reboot now, and then system will upgrade automatically. As shown below:



## 6.2 Auto Update Period

Auto Update Period includes four modes: None, One Day, One Week, and One Month. The terminal will detect the new version automatically in time, if there is, the status bar will show "There is a new version, please update!". Click and download the image for upgrade.

As shown below:



## 6.3 Upgrade on the web

- 1) Click Upgrade->Basic.
- 2) Click the  label to select the version to upgrade.
- 3) Click  to save.

**Upgrade-Basic**

|                                 |                                                                                                                                              |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Firmware Version                | 48.0.1.45                                                                                                                                    |
| Hardware Version                | 1.0                                                                                                                                          |
| Upgrade                         | <input type="text"/> <input type="button" value="Browse..."/><br><input type="button" value="Submit"/> <input type="button" value="Cancel"/> |
| Reset To Factory Setting        | <input type="button" value="Submit"/>                                                                                                        |
| Reset Config To Factory Setting | <input type="button" value="Submit"/>                                                                                                        |
| Reboot                          | <input type="button" value="Submit"/>                                                                                                        |

## 6.4 Check Update After System Power On

Click "Check Update After System Power On" . Shown as below.

**System Update**

System Update Now

Auto Update Period  
None

Server Address

Check Update After System Power On ☐

Every time user power on, the system will check the new version automatically. If there is a new one, the status bar will notice: "System has new version, please update now!", click and download the image for upgrade.

# 7 System Maintenance

## 7.1 System State Inspection

Mode 1: In the main screen, click  -> Status info->Version info

Mode 2: In the main screen, click  ->  -> About device

It will display phone status, software version and hardware version in this item.

## 7.2 IP Query

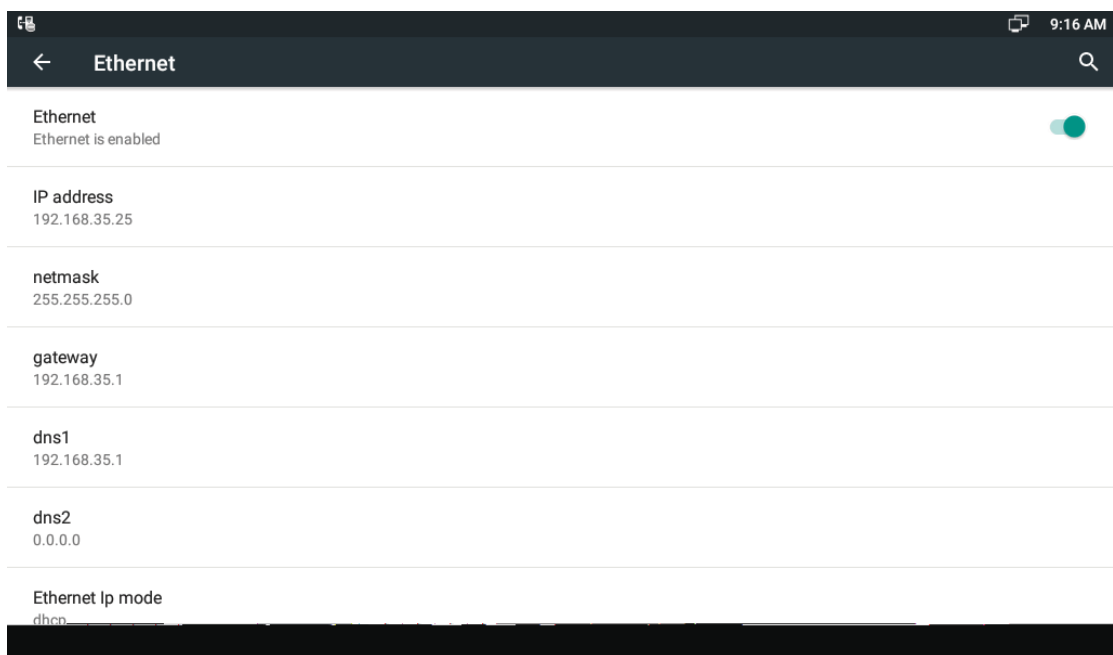
Mode 1: In the main screen, press, click  -> Status info-> Network Status

Mode 2: In the main screen, click  ->  ->More-> Ethernet

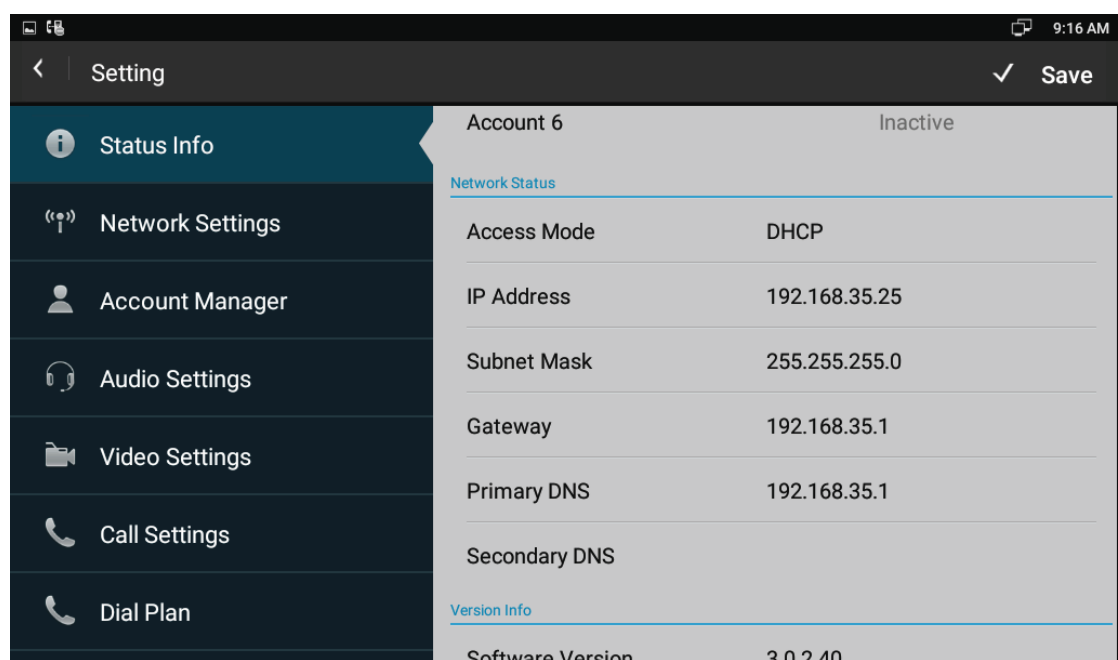
Mode 3: Press Speaker button or pick up to enter the dialing interface, click  on upper right corner -> enter the setting interface, check Status Info;

Mode 4: Slide down the top-left  , click the account, enter the setting interface, check Status Info;

Mode 1 and Mode 2 can check IP address, subnet mask, gateway, DNS server etc. in Ethernet.



Mode 3 and Mode 4 can check the corresponding network information in setting interface.



## 7.3 SIP Account Registration Query

You can choose one of the following methods to enter the SIP account registration query. If the account is successfully registered, the icon will be light up in notification area of phone.

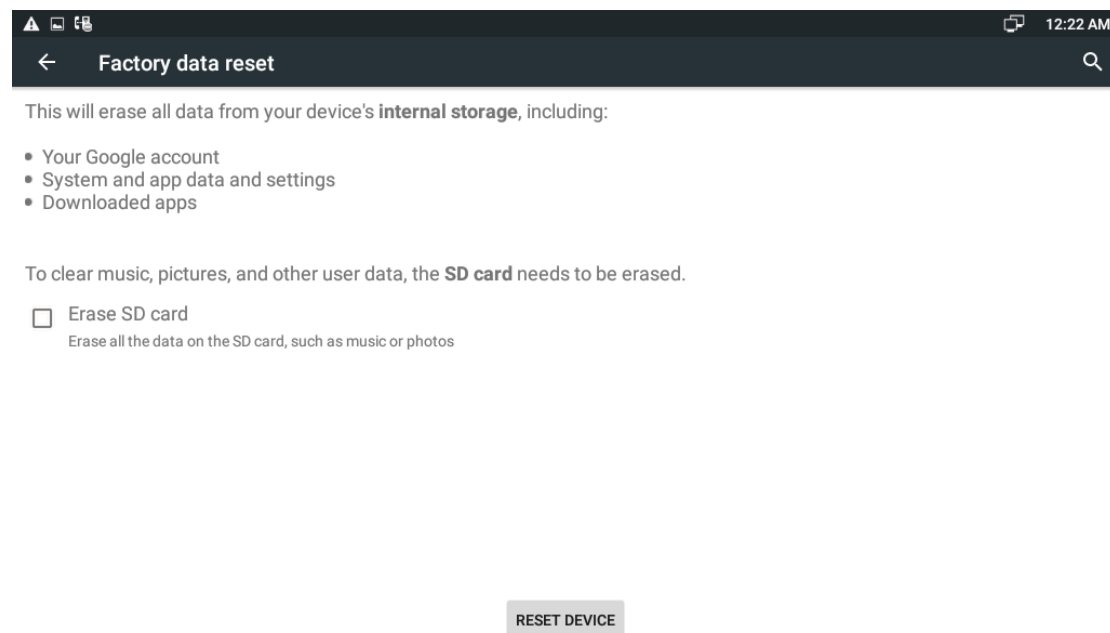
Mode 1: Press Speaker button or pick up to enter the dialing interface, click  on upper right corner, check Account Manager.

Mode 2: Slide down the top-left , click the account, enter the setup interface, check Account Manager.

## 7.4 Backup & Reset

Mode 1: In the main screen, press "Menu" key on the hard keyboard-> System Settings-> Backup & reset

Mode 2: In the main screen, click  ->  -> Backup & reset



Select "Erase SD card", click "RESET DEVICE", then the phone will restore to factory settings.

## 7.5 Failure Process

Failure 1: Power LED is off

- Please check whether the adapter fits this product requirement;
- Please check whether the outlet is working properly.

#### Failure 2: No voice when pick up the handset

- Please check whether the connection of handset is working properly;
- Please adjust the volume + key on keyboard when off-hook the phone, Observe the display of “volume” prompt. Please pay attention that the volume key in on-hook and off-hook situation is to adjust the ring volume and media volume (call volume) separately. These two adjustments are unrelated. Adjust the volume won’t change call volume when on-hook the phone.

#### Failure 3: Phone can’t dial properly

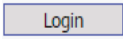
- Please check whether there is  at the top-right of screen. If not, please check whether the cable in LAN port is loose;
- Please check the IP address of phone via configuration (go to 4.2, “network configuration”);
- If it’s now in LAN, please check whether the IP address of phone is conflict with other devices in the same LAN.
- If the network connection is properly, please check whether the icon  of successful registration is in the notification area. If there is no explanation of configuration failure, please contact network administrator to recover it.

#### Failure 4: No ringing when incoming a call

- Please make sure the handset is completely hung on the base
- Please adjust the volume + key on keyboard when on-hook the phone, Observe the display of “volume” prompt. Please pay attention that the volume key in on-hook and off-hook situation is to adjust the ring volume and media volume (call volume) separately. These two adjustments are unrelated. Adjust the volume won’t change ring volume when off-hook the phone.

## 8 Web Interface

### 8.1 Web login

1. Open the browser on the computer.
2. Input the IP address in the address bar.
3. Enter the user name and password (user name: admin, password: admin), then click .



The screenshot shows a web login page with a dark grey header bar containing the word "Login". Below the header, the page has a light blue background. On the left side, there are labels "User Name" and "Password" in bold black text. To the right of "User Name" is a text input field containing the text "admin". To the right of "Password" is a password input field with five dots. Below the password field is a checkbox with a checkmark and the text "Remember Username/Password". At the bottom right of the form is a "Login" button.

### 8.2 Status->Basic

Click Status->Basic to check the phone information.

| Status              |                |
|---------------------|----------------|
| Product Information |                |
| Model               | VP-R48G        |
| Hardware Model      | VP-R48G        |
| MAC Address         | 0C1105048D54   |
| Firmware Version    | 48.0.1.30      |
| Hardware Version    | 1.0            |
| Network Information |                |
| LAN Port Type       | DHCP Auto      |
| LAN Link Status     | Connected      |
| LAN IP Address      | 192.168.10.118 |
| LAN Subnet Mask     | 255.255.255.0  |
| LAN Gateway         | 192.168.10.254 |
| LAN DNS1            | 218.85.152.99  |
| LAN DNS2            | 211.138.156.66 |
| Account Information |                |
| Account1            | None@None      |
|                     | Disabled       |
| Account2            | None@None      |
|                     | Disabled       |
| Account3            | None@None      |
|                     | Disabled       |
| Account4            | None@None      |
|                     | Disabled       |
| Account5            | None@None      |
|                     | Disabled       |
| Account6            | None@None      |
|                     | Disabled       |

| Sections                   | Description                                                                                                                                                                                 |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Information</b> | To display the device's information such as Model name, MAC address (IP device's physical address), Hardware Model, Firmware version and Hardware firmware.                                 |
| <b>Network Information</b> | To display the device's Networking status(LAN Port),such as Port Type(which could be DHCP/Static), Link Status, IP Address, Subnet Mask, Gateway, Primary DNS server, Secondary DNS server. |

|                            |                                                                                                                                   |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| <b>Account Information</b> | To display device's Account information and Registration status (account username, registered server's address, Register result). |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------|

## 8.3Account->Basic

**Account-Basic**

**SIP Account**

|                |                        |
|----------------|------------------------|
| Status         | Registered             |
| Account        | <div>Account 1 ▼</div> |
| Account Active | <div>Enabled ▼</div>   |
| Display Label  | <div>171</div>         |
| Display Name   | <div>171</div>         |
| Register Name  | <div>171</div>         |
| User Name      | <div>171</div>         |
| Password       | <div>.....</div>       |

**SIP Server 1**

|                     |                          |             |                 |
|---------------------|--------------------------|-------------|-----------------|
| Server IP           | <div>192.168.10.27</div> | Port        | <div>5060</div> |
| Registration Period | <div>1800</div>          | (30~65535s) |                 |

**SIP Server 2**

|                     |                 |             |                 |
|---------------------|-----------------|-------------|-----------------|
| Server IP           | <div></div>     | Port        | <div>5060</div> |
| Registration Period | <div>1800</div> | (30~65535s) |                 |

| Sections           | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SIP Account</b> | <p>To display and configure the specific Account settings.</p> <ul style="list-style-type: none"> <li>● Status: To display register result.</li> <li>● Display Label: Which is displayed on the phone's LCD screen.</li> <li>● Display Name: Which is sent to the other call party for displaying.</li> <li>● Register Name: Allocated by SIP server provider, used for authentication.</li> <li>● User Name: Allocated by your SIP server provide, used for authentication.</li> <li>● Password: Used for authorization.</li> </ul> |

|                     |                                                                                                                                                                                                                                                                                                                                                     |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SIP Server 1</b> | <p>To display and configure Primary SIP server settings.</p> <ul style="list-style-type: none"> <li>● Server IP: SIP server address, it could be an URL or IP address.</li> <li>● Registration Period: The registration will expire after Registration period, the IP phone will re-register automatically within registration period.</li> </ul>   |
| <b>SIP Server 2</b> | <p>To display and configure Secondary SIP server settings. This is for redundancy, if registering to Primary SIP server fails, the IP phone will go to Secondary SIP server for registering.</p> <p><b>Note:</b> Secondary SIP server is used for redundancy, it can be left blank if there is not redundancy SIP server in user's environment.</p> |

### Outbound Proxy Server

Enable Outbound

Disabled ▼

Server IP

Port

5060

Backup Server IP

Port

5060

### Transport Type

Transport Type

UDP ▼

### NAT

NAT

Disabled ▼

Stun Server Address

Port

3478

| Sections                     | Description                                                                                                                                                                                                                                                                                                                  |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Outbound Proxy Server</b> | <p>To display and configure Outbound Proxy server settings. An outbound proxy server is used to receive all initiating request messages and route them to the designated SIP server.</p> <p><b>Note:</b> If configured, all SIP request messages from the IP phone will be sent to the outbound proxy server forcefully.</p> |
| <b>Transport Type</b>        | <p>To display and configure Transport type for SIP message</p> <ul style="list-style-type: none"> <li>● UDP: UDP is an unreliable but very efficient transport layer protocol.</li> <li>● TCP: Reliable but less-efficient transport layer protocol.</li> </ul>                                                              |

|            |                                                                                                                                                                                                                                                               |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>NAT</b> | <p>To display and configure NAT(Net Address Translator) settings.</p> <ul style="list-style-type: none"> <li>● STUN: Short for Simple Traversal of UDP over NATS, a solution to solve NAT issues.</li> </ul> <p><b>Note:</b> By default, NAT is disabled.</p> |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## 8.4 Account->Advanced

Account-Advanced

SIP Account

Account
Account 1 ▼

Audio Codecs

Disabled Codecs

>>

<<

Enabled Codecs

PCMU  
PCMA  
G729  
G722

↑  
↓

Video Codecs

Disabled Codecs

>>

<<

Enabled Codecs

H264  
H263

↑  
↓

Video Codec

Codec Name

H263

H264

Codec Resolution

CIF ▼

CIF ▼

Codec Bitrate

320 ▼

320 ▼

Codec Payload

34 ▼

104 ▼

| Sections            | Description                                                                                                                                                                                                                                                                                                                                                                                                                  |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SIP Account</b>  | To display current Account settings or to select which account to display.                                                                                                                                                                                                                                                                                                                                                   |
| <b>Audio Codecs</b> | <p>To display and configure available/unavailable Audio codecs list.</p> <p>Codec means coder-decoder which is used to transfer analog signal to digital signal or voice versa.</p> <p>Familiar codecs are PCMU(G711U), PCMA(G711A), G722 (wid-bandth codecs),G729 and so on.</p>                                                                                                                                            |
| <b>Video Codecs</b> | <p>To display and configure available/unavailable Video codecs list.</p> <p>Video codec is used to transfer analog signal to digital. We can support 2 video codec - H263,H264</p> <ul style="list-style-type: none"> <li>● Codec Resolution: It can support QCIF, CIF, VGA, 4CIF, 720P.</li> <li>● Codec Bitrate: The lowest bitrate is 128, the highest bitrate is 2048.</li> <li>● Codec payload: From 90-119.</li> </ul> |

| Subscribe            |                   |
|----------------------|-------------------|
| MWI Subscribe        | Disabled ▼        |
| MWI Subscribe Period | 1800 (120~65535s) |
| Voice Mail Number    |                   |
| BLF Expire           | 1800 (120~65535s) |
| ACD Expire           | 1800 (120~65535s) |

| DTMF               |              |
|--------------------|--------------|
| Type               | RFC2833 ▼    |
| How To Notify DTMF | Disabled ▼   |
| DTMF Payload       | 101 (96~127) |

| Sections         | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Subscribe</b> | <p>To display or configure session timer settings.</p> <ul style="list-style-type: none"> <li>● Active: To enable or disable this feature, If enable, the ongoing call will be disconnected automatically once the session expired unless it's been refreshed by UAC or UAS.</li> <li>● Session Expire: Configure session expire time.</li> <li>● Session Refresher: To configure who should be response for refreshing a session.</li> </ul> <p><b>Note:</b> UAC means User Agent Client, here stands for IP phone. UAS means User Agent Server, here stands for SIP server.</p>        |
| <b>DTMF</b>      | <p>To display and configure DTMF settings.</p> <ul style="list-style-type: none"> <li>● Type: Support Inband,Info,RFC2833 or their combination.</li> <li>● How To Notify DTMF: Only available when DTMF Type is Info/Info+Inband/Info+RFC2833.</li> <li>● DTMF Payload: To configure payload type for DTMF.</li> </ul> <p><b>Note:</b> By default, DTMF type is RFC2833 which is the standard. Type Inband uses inband frequency to indicate DTMF tone which is most used to be compatible to traditional telephone server. Type Info use SIP Info message to indicate DTMF message.</p> |

### Call

|                               |                                       |              |
|-------------------------------|---------------------------------------|--------------|
| Max Local SIP Port            | <input type="text" value="5062"/>     | (1024~65535) |
| Min Local SIP Port            | <input type="text" value="5062"/>     | (1024~65535) |
| Caller ID Header              | <input type="text" value="FROM"/>     | ▼            |
| Auto Answer                   | <input type="text" value="Disabled"/> | ▼            |
| Provisional Response ACK      | <input type="text" value="Disabled"/> | ▼            |
| Register with user=phone      | <input type="text" value="Disabled"/> | ▼            |
| Invite with user=phone        | <input type="text" value="Disabled"/> | ▼            |
| PTime                         | <input type="text" value="20"/>       | ▼            |
| Anonymous Call                | <input type="text" value="Disabled"/> | ▼            |
| Anonymous Call Rejection      | <input type="text" value="Disabled"/> | ▼            |
| Is escape non Ascii character | <input type="text" value="Enabled"/>  | ▼            |
| Missed Call Log               | <input type="text" value="Enabled"/>  | ▼            |
| Prevent SIP Hacking           | <input type="text" value="Disabled"/> | ▼            |

| Sections    | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Call</b> | <p>To display and configure call-related features.</p> <ul style="list-style-type: none"> <li>● Max Local SIP Port: To configure maximum local sip port for designated account.</li> <li>● Min Local SIP Port: To configure minimum local sip port for designated account.</li> <li>● Caller ID Header: To configure which Caller ID format to fetch for displaying on Phone UI.</li> <li>● Auto Answer: If enabled, IP phone will be auto-answered when there is an incoming call for designated account.</li> <li>● Provisional Response ACK: 100% reliability for all provisional message, this means it will send ACK every time the IP phone receive a provisional SIP message from SIP server.</li> <li>● User=phone: If enabled, IP phone will send user=phone within SIP message.</li> <li>● Anonymous Call: If enabled, all outgoing call for the designated account will be anonymous number.</li> <li>● Anonymous Call Rejection: If enabled, all incoming anonymous-out call for the designated account will be rejected.</li> <li>● Missed Call Log: To display the miss call log.</li> <li>● Prevent SIP Hacking: Enable to prevent SIP from hacking.</li> </ul> |

| Session Timer     |                 |
|-------------------|-----------------|
| Active            | Disabled ▼      |
| Session Expire    | 1800 (90~7200s) |
| Session Refresher | UAC ▼           |

| BLFList              |                      |
|----------------------|----------------------|
| BLFList URI          | <input type="text"/> |
| BLFList Pickup Code  | <input type="text"/> |
| BLFList BargeIn Code | <input type="text"/> |

| Broadsoft |            |
|-----------|------------|
| AOC       | Disabled ▼ |

| Sections             | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Session Timer</b> | <p>To display or configure session timer settings.</p> <ul style="list-style-type: none"> <li>● Active: To enable or disable this feature, If enable, the ongoing call will be disconnected automatically once the session expired unless it's been refreshed by UAC or UAS.</li> <li>● Session Expire: Configure session expire time.</li> <li>● Session Refresher: To configure who should be response for refreshing a session.</li> </ul> <p><b>Note:</b> UAC means User Agent Client, here stands for IP phone. UAS means User Agent Server, here stands for SIP server.</p> |
| <b>BLF List</b>      | <p>To display or configure BLF List URI address.</p> <ul style="list-style-type: none"> <li>● BLF List URI: BLF List is short for Busy Lamp Field List.</li> <li>● BLFList Pickup Code: To set the BLF pick up code.</li> <li>● BLFList Bargain Code : To set the BLF barge in code.</li> </ul>                                                                                                                                                                                                                                                                                   |
| <b>Broadsoft</b>     | <p>To display or configure Broadsoft AOC feature.</p> <ul style="list-style-type: none"> <li>● AOC: A feature used to be accounting on Broadsoft platform.</li> </ul> <p><b>Note:</b> Please consult your administrator further information.</p>                                                                                                                                                                                                                                                                                                                                  |

### NAT

---

UDP Keep Alive Messages

UDP Alive Msg Interval
 (5~60s)

RPort

### Conference

---

Type

Conference URI

### User Agent

---

User Agent

### Remote User Agent

---

Separator

NumberList DoorPhone

| Sections                 | Description                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Net</b>               | <p>To display NAT-related settings.</p> <ul style="list-style-type: none"> <li>● UDP Keep Alive message: If enabled, IP phone will send UDP keep-alive message periodically to router to keep NAT port alive.</li> <li>● UDP Alive Msg Interval: Keepalive message interval.</li> <li>● Rport: Remote Port, if enabled, it will add Remote Port into outgoing SIP message for designated account.</li> </ul> |
| <b>Conference</b>        | <p>To select Local or network conference.</p> <ul style="list-style-type: none"> <li>● Type: To select desired conference type</li> <li>● Conference URI: If network conference is selected, a network conference URI is needed to be input.</li> </ul>                                                                                                                                                      |
| <b>User Agent</b>        | <p>One can customize User Agent field in the SIP message; If user agent is set to specific value, user could see the information from PCAP. If user agent is not set by default, user could see the company name, model number and firmware version from PCAP</p>                                                                                                                                            |
| <b>Remote User Agent</b> | <p>This feature need to be used with Auto Anser Doorphone Delay. Go to the path: Phone-&gt;Call Feature.</p> <ul style="list-style-type: none"> <li>● Separator: Setup a separator ,such as “,” , “*” or “#” to separate many door phone account.</li> <li>● NumberList DoorPhone: Fill multiple doorphone number .</li> </ul>                                                                               |

## 8.5 Network ->Advanced

| Network-Advanced |                   |                                       |              |
|------------------|-------------------|---------------------------------------|--------------|
| <b>Local RTP</b> |                   |                                       |              |
|                  | Max RTP Port      | <input type="text" value="12000"/>    | (1024~65535) |
|                  | Starting RTP Port | <input type="text" value="11800"/>    | (1024~65535) |
| <b>VLAN</b>      |                   |                                       |              |
| LAN Port         | Active            | <input type="text" value="Disabled"/> |              |
|                  | VID               | <input type="text" value="1"/>        | (1~4095)     |
|                  | Priority          | <input type="text" value="0"/>        |              |
| PC Port          | Active            | <input type="text" value="Disabled"/> |              |
|                  | VID               | <input type="text" value="1"/>        | (1~4095)     |
|                  | Priority          | <input type="text" value="0"/>        |              |

| Sections         | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Local RTP</b> | <p>To display and configure Local RTP settings.</p> <ul style="list-style-type: none"> <li>● Max RTP Port: Determine the maximum port that RTP stream can use.</li> <li>● Min RTP Port: Determine the minimum port that RTP stream can use.</li> </ul>                                                                                                                                                                                                                                                  |
| <b>VLAN</b>      | <p>To display and configure VLAN settings.</p> <ul style="list-style-type: none"> <li>● LAN Port/PC Port: You can configure VLAN setting for both ports respectively.</li> <li>● Active: To enable or disable VLAN feature for designated port.</li> <li>● VID: To configure VLAN id for designated port.</li> <li>● Priority: To select VLAN priority for designated port.</li> </ul> <p><b>Note:</b> Please consult your administrator for specific VLAN settings in your networking environment.</p> |

## 8.6 Phone->Time

| Time/Lang           |           |
|---------------------|-----------|
| <b>Web Language</b> |           |
| Type                | English ▼ |

| Sections            | Description                                     |
|---------------------|-------------------------------------------------|
| <b>Web Language</b> | To choose the web language. English by default. |

## 8.7 Phone->Preference

| Preference             |          |
|------------------------|----------|
| <b>Key Press Sound</b> |          |
| Volume                 | 8 (0~15) |
| <b>Ringtone Volume</b> |          |
| Volume                 | 8 (0~15) |

| Sections               | Description                                                                                                                                                        |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Key Press Sound</b> | To configure the sound volume for key press.<br><ul style="list-style-type: none"> <li>● Volume: The valid volume range is from 0~15,by default it's 8.</li> </ul> |
| <b>Ringtone Volume</b> | To configure the sound volume for ringtone.<br><ul style="list-style-type: none"> <li>● Volume: The valid volume range is from 0~15,by default it's 8.</li> </ul>  |

## 8.8 Phone ->Call Feature

Phone-Call Feature

Mode Phone

Feature Key Sync

Disabled ▼

Mode

☒ Phone
☐ Custom

Forward Transfer

Account

All Account ▼

Always Forward

Disabled ▼

Target Number

On Code

Off Code

Busy Forward

Disabled ▼

Target Number

On Code

Off Code

No Answer Forward

Disabled ▼

No Answer Ring Time

30 ▼

Target Number

On Code

Off Code

| Sections                | Description                                                                                                                                                                                      |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Mode Phone</b>       | To enable or disable feature key sync.<br><ul style="list-style-type: none"> <li>● Feature Key Sync: To enable or disable feature key sync.</li> <li>● Mode: Select the desired mode.</li> </ul> |
| <b>Forward Transfer</b> | To display and configure Forward setting.<br><b>Note:</b> There are three types of forward: Always Forward,                                                                                      |

|  |                                                                                                                                                                                                                                                                                                                                                                   |
|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p>Busy Forward and No answer Forward.</p> <ul style="list-style-type: none"> <li>● Always Forward: Any incoming call will be forwarded in any situation.</li> <li>● Busy Forward: Any incoming call will be forwarded if IP phone is busy.</li> <li>● No answer Forward: Any incoming call will be forwarded if it's no answer after a specific time.</li> </ul> |
|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**DND**

|                       |                      |
|-----------------------|----------------------|
| DND Emergency         | Disabled ▼           |
| DND Authorized Number | <input type="text"/> |
| DND Priority          | Disabled ▼           |
| Account               | All Account ▼        |
| DND                   | Disabled ▼           |
| Return Code When DND  | 486(Busy Here) ▼     |
| DND On Code           | <input type="text"/> |
| DND Off Code          | <input type="text"/> |

---

**Call Waiting**

|                     |                      |
|---------------------|----------------------|
| Call Waiting Enable | Enabled ▼            |
| Call Waiting Tone   | Enabled ▼            |
| On Code             | <input type="text"/> |
| Off Code            | <input type="text"/> |

| Sections   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>DND</b> | <ul style="list-style-type: none"> <li>● DND(Do Not Disturb) allows IP phones to ignore any incoming calls.</li> <li>● DND Emergency: Enable this function, users can still receive the call from DND Authorized number when in emergency situation.</li> <li>● DND Authorized Number: R48G supports multiple authorized numbers. Please use comma to separate.</li> <li>● DND Priority: Enable this function. If you enable DND and Forward function in the same time, the DND priority is higher than Forward function.</li> <li>● Account: Select a account for DND function</li> <li>● DND: Enable this function</li> <li>● Return Code when DND: Determine what response code should be sent back to server when there is an</li> </ul> |

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                     | <p>incoming call if DND on.</p> <ul style="list-style-type: none"> <li>● DND On Code: The Code used to turn on DND on server's side, if configured, IP phone will send a SIP message to server to turn on DND on server side if you press DND when DND is off.</li> <li>● DND Off Code: The Code used to turn off DND on server's side, if configured, IP phone will send a SIP message to server to turn off DND on server side if you press DND when DND is on.</li> </ul> |
| <b>Call Waiting</b> | <p>To enable or disable Call Waiting.</p> <ul style="list-style-type: none"> <li>● Call Waiting Enable: If enabled, it allows IP phones to receive a new incoming call when there is already an active call.</li> <li>● Call Waiting Tone: If enabled, it allows IP phones to play the call waiting tone to the waiting callee.</li> </ul>                                                                                                                                   |

| Auto Redial          |             |
|----------------------|-------------|
| Auto Redial          | Disabled ▼  |
| Auto Redial Interval | 10 (1~300s) |
| Auto Redial Times    | 3 (1~100)   |

| Intercom      |            |
|---------------|------------|
| Active        | Enabled ▼  |
| Intercom Mute | Disabled ▼ |

| HotLine    |            |
|------------|------------|
| Active     | Disabled ▼ |
| Number     |            |
| Delay Time | 4 (0~5s)   |

| ACD                      |             |
|--------------------------|-------------|
| ACD Activated Auto       | Disabled ▼  |
| ACD Activated Auto Timer | 90 (0~180s) |

| Remote Control         |  |
|------------------------|--|
| Allowed Access IP List |  |

| Sections              | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Auto Redial</b>    | <p>Auto redial allows IP phones to redial an unsuccessful call for designated times within designated interval.</p> <ul style="list-style-type: none"> <li>● Auto Redial: To enable or disable auto redial feature.</li> <li>● Auto Redial Interval: Determine the interval between two consecutive attempts.</li> <li>● Auto Redial Times: Determine how many times to redial.</li> </ul>                                                                                                                                                                                                                   |
| <b>Intercom</b>       | <p>Intercom allow user to establish a call directly with the callee.</p> <ul style="list-style-type: none"> <li>● Active: To enable or disable Intercom feature.</li> <li>● Intercom Mute: If enabled, once the call established, the callee will be muted.</li> </ul>                                                                                                                                                                                                                                                                                                                                       |
| <b>Hot line</b>       | <p>HotLine allows user to call out a defined number automatically after hearing the dailtone without dialing any number.</p> <ul style="list-style-type: none"> <li>● Active: To enable or disable HotLine feature.</li> <li>● Number: To set a defined HotLine number.</li> <li>● Delay Time: To set the automatically call out interval after hearing the dailtone.</li> </ul>                                                                                                                                                                                                                             |
| <b>ACD</b>            | <p>ACD (Automatic Call Distribution) is most used in call-center market, it allows IP phone to login the system with multiple status so that the system could distribute an incoming calls to available user or agents.</p> <ul style="list-style-type: none"> <li>● ACD Activated Auto: If enabled, Agent status will turn to available automatically within a designated time(decided by ACD Activated Auto Timer).</li> <li>● ACD Activated Auto Timer: To configure interval when will Agent status becomes available automatically.</li> <li>● ACD Pwd Required: To enable the ACD password.</li> </ul> |
| <b>Remote Control</b> | <p>Remote Control allows specific host to interact with IP phone by sending HTTP or HTTPS requests. The specific action could be answering an incoming call, hangup an ongoing call and so on.</p> <ul style="list-style-type: none"> <li>● Allowed Access IP List: To configure the allowed host address.</li> <li>● <b>Note:</b> For now, IP phone can only support IP address, IP address list and IP address pattern as allowed hosts</li> </ul>                                                                                                                                                         |

### Key As Send

Key As Send

# ▼

### SIP Config

SIP Session T1

0.5

(0.5~10s)

SIP Session T2

4

(2~40s)

### UACSTA

UACSTA Active

Disabled ▼

Register Name

admin

Password

•••••

Server IPPort

5060

Control Account

Account 1 ▼

### Door Phone

Auto Answer DoorPhone Delay

3

(3~30s)

### Others

Return Code When Refuse

486(Busy Here) ▼

Auto Answer Delay

0

(0~5s)

Answer Mode

Audio ▼

Early DTMF

Disabled ▼

Display DTMF

Enabled ▼

Multicast Codec

PCMU ▼

Direct IP

Enabled ▼

| Sections           | Description                                                                                                                                                                              |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Key As Send</b> | Key As Send allows you to disable send key or assign pound key as send key.                                                                                                              |
| <b>SIP Config</b>  | Setup the SIP protocol package interval. T2 is maximum. The interval should be larger the T1, but less then T2.                                                                          |
| <b>UACSTA</b>      | Using CSTA for SIP phone user agents. It can control some features of calling. UACSTA is used to send ECMA-323(CSTA XML) information during SIP calling. The default status is disabled. |

|                   |                                                                                                                                                                                                                                                                                           |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Door Phone</b> | <p>When there is an incoming call from doorphone, setup the delay auto answer time, R48G will auto answer the call after the timeout.</p> <p><b>Note:</b> if you enable Auto Answer function, this feature will be not available.</p>                                                     |
| <b>Others</b>     | <ul style="list-style-type: none"> <li>● Return Code When Refuse: Allows user to assign specific code as return code to SIP server when an incoming call is rejected.</li> <li>● Auto Answer Delay: To configure delay time before an incoming call is automatically answered.</li> </ul> |

## 8.9 Phone->Audio

**Audio**

**Echo Canceller**

VAD

CNG

**Mic Volume**

Handset Volume  (1~15)

**Automatic Generation Control**

Automatic Gain Control(Sending-side)

Automatic Gain Control(Receiving-side)

Automatic Gain Control Target  (1~20dB)

**NetEQ**

Filter forgetting factor base  (0~255)

| Sections              | Description                                                                                                                                                                                                                                                                                                                                |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Echo Canceller</b> | <p>Echo Canceller: To remove acoustic echo from a voice communication in order to improve the voice quality .</p> <ul style="list-style-type: none"> <li>● VAD(Voice Activity Detection): Allow IP phone to detect the presence or absence of human speech during a call. When detecting period of “silence”, VAD replaces that</li> </ul> |

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                               | <p>silence efficiently with special packets that indicate silence is occurring. It can facilitate speech processing, and deactivate some processes during non-speech section of an audio session. It can avoid unnecessary coding or transmission of silence packets in VoIP applications, saving on computation and network bandwidth.</p> <ul style="list-style-type: none"> <li>● CNG(Comfort Noise Generation): Allow IP phone to generate comfortable background noise for voice communications during periods of silence in a conversation. It is a part of the silence suppression or VAD handling for VoIP technology. CNG, in conjunction with VAD algorithms, quickly responds when periods of silence occur and inserts artificial noise until voice activity resumes. The insertion of artificial noise gives the illusion of a constant transmission stream, so that background sound is consistent throughout the call and the listener does not think the line has released.</li> </ul> |
| <b>Mic Volume</b>             | To configure Microphone volume for handset mode.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Automatic Gain Control</b> | <p>R48G will auto adjust amplification circuit gain via signal.</p> <ul style="list-style-type: none"> <li>● Automatic Gain Control(Sending-side): Disabled by default</li> <li>● Automatic Gain Control(Receiving-side): Disabled by default</li> <li>● Automatic Gain Control Target: Range from 1 to 20 dB. 3dB by default.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>NetEQ</b>                  | Filter forgetting factor base: Range from 0~255. 250 by default.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

## 8.10 Phone->Video

| Video                         |                |
|-------------------------------|----------------|
| <b>Media Feedback</b>         |                |
| NACK                          | Enabled ▼      |
| Tmmbr                         | Disabled ▼     |
| <b>H264 Settings</b>          |                |
| H264 Profile                  | Base Profile ▼ |
| H264 Level                    | 3.0 ▼          |
| IDR Interval                  | 10 (5~100)     |
| Rate Control                  | crf ▼          |
| <b>Others</b>                 |                |
| Hardware Endec Acceleration   | Enabled ▼      |
| Hardware Decodec Acceleration | Enabled ▼      |
| Color Enhancement             | Enabled ▼      |
| Image Quality                 | High ▼         |
| Camera Priority               | Internal ▼     |

| Sections              | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Media Feedback</b> | <ul style="list-style-type: none"> <li>● NACK: Enabled it to filter mosaic.</li> <li>● Tmmbr: Send the maximum temporary rate request. Disabled by default.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>H264 Settings</b>  | <p>H264: A video stream compression standard. Different from H263, it provides an approximately identical level of video stream quality but a half bit rate. This type of compression is sometimes called MPEG-4 part 10.</p> <p>To setup corresponding H264 video parameters.</p> <ul style="list-style-type: none"> <li>● H264 Profile: There are 4 modes-Base、Main、High、Extend profile. Different profiles makes different coding function and video quality.</li> <li>● H264 Level: Different profiles has corresponding Level value.</li> <li>● IDR Interval:IDR means Instantaneous Decoding Refresh. It is used to control the process of coding and decoding.</li> </ul> |

|               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|               | <ul style="list-style-type: none"> <li>● Rate Control: Choose one H264 video rate.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Others</b> | <ul style="list-style-type: none"> <li>● Hardware Endec Acceleration: This function is used to solve the image issue. User can enable the Hardware Endec Acceleration when you need.</li> <li>● Hardware Decode Acceleration: Disabled by default.</li> <li>● Color Enhancement: To increase the phone display color. Enabled by default.</li> <li>● Image Quality: User can select Low, Middle or High mode.</li> <li>● Camera Priority: R48G can connect extra camera. If R48G has 2 cameras , please setup the priority for external camera or internal one.</li> </ul> |

## 8.11 Phone->Ext Key

Ext Key

Ext Key

Current Page

Pre 1 Next

| Key    | Type      | Label | Value | Account     | Extension |
|--------|-----------|-------|-------|-------------|-----------|
| Key 1  | PickUp ▼  | 123   | 123   | Account 1 ▼ |           |
| Key 2  | History ▼ |       |       | Account 1 ▼ |           |
| Key 3  | N/A ▼     |       |       | Account 1 ▼ |           |
| Key 4  | N/A ▼     |       |       | Account 1 ▼ |           |
| Key 5  | N/A ▼     |       |       | Account 1 ▼ |           |
| Key 6  | N/A ▼     |       |       | Account 1 ▼ |           |
| Key 7  | N/A ▼     |       |       | Account 1 ▼ |           |
| Key 8  | N/A ▼     |       |       | Account 1 ▼ |           |
| Key 9  | N/A ▼     |       |       | Account 1 ▼ |           |
| Key 10 | N/A ▼     |       |       | Account 1 ▼ |           |
| Key 11 | N/A ▼     |       |       | Account 1 ▼ |           |
| Key 12 | N/A ▼     |       |       | Account 1 ▼ |           |
| Key 13 | N/A ▼     |       |       | Account 1 ▼ |           |
| Key 14 | N/A ▼     |       |       | Account 1 ▼ |           |
| Key 15 | N/A ▼     |       |       | Account 1 ▼ |           |
| Key 16 | N/A ▼     |       |       | Account 1 ▼ |           |
| Key 17 | N/A ▼     |       |       | Account 1 ▼ |           |
| Key 18 | N/A ▼     |       |       | Account 1 ▼ |           |
| Key 19 | N/A ▼     |       |       | Account 1 ▼ |           |
| Key 20 | N/A ▼     |       |       | Account 1 ▼ |           |

| Sections            | Description                                                                                                                                                                                                                                                                                                                              |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Current Page</b> | R48G can support 4 pages Ext Key. 20 Ext Keys for each page.                                                                                                                                                                                                                                                                             |
| <b>Key</b>          | <p>Allows user to assign specific feature to the designated key on expansion module.</p> <p>For keys, the available feature list:</p> <p>DND, Menu, MSG, Status, Book, Fwd, PickUp, Group PickUp, Intercom, Speed Dial, History, Favorites, Redial, Account, ACD, BLF, BLFList, Call Return, Hot Desking, Record, XML Browser, DTMF.</p> |

## 8.12 Phone-> Tone

Tone

Select Country

Default ▼

Ring Back

Dial

Call Waiting

DTMF 0

DTMF 1

DTMF 2

DTMF 3

DTMF 4

DTMF 5

DTMF 6

DTMF 7

DTMF 8

DTMF 9

DTMF \*

DTMF #

| Sections    | Description                                                                                                                                                                                                                                                                      |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Tone</b> | <p>Allows user to select a specialized tone sets (classified by countries) or to customize own tones.</p> <p><b>Note:</b> Available country tones sets are:<br/>China, Spain, Luxembourg, Sweden, Taiwan, Belgium, Denmark, Finland, Germany, Netherlands, Norway, Portugal.</p> |

## 8.13 Phone->Replace Rule

**Dial Plan**

**Rules**

Replace Rule ▼

| Index | Account | Prefix | Replace |                          |
|-------|---------|--------|---------|--------------------------|
| 1     | Auto    | 123    | 171     | <input type="checkbox"/> |
| 2     |         |        |         | <input type="checkbox"/> |
| 3     |         |        |         | <input type="checkbox"/> |
| 4     |         |        |         | <input type="checkbox"/> |
| 5     |         |        |         | <input type="checkbox"/> |
| 6     |         |        |         | <input type="checkbox"/> |
| 7     |         |        |         | <input type="checkbox"/> |
| 8     |         |        |         | <input type="checkbox"/> |
| 9     |         |        |         | <input type="checkbox"/> |
| 10    |         |        |         | <input type="checkbox"/> |

Add
Edit
Delete

---

**Area Code**

Code

Min Length

Max Length

Account

(1~15)

(1~15)

Auto ▼

| Sections            | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Rules</b>        | Allow user to select Replace rule or Dial-now to display or edit.                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Rules Modify</b> | <p>Allow user to modify selected rules information. Once you dial prefix value, it will call out Replace number.</p> <ul style="list-style-type: none"> <li>● Click Add to add new replace rules.</li> <li>● Select account for the replace rule</li> <li>● Input a suitable prefix value .Enter the replace number.</li> <li>● Click Submit to save.</li> </ul> <p>All replace rules will show in the list. Users can edit or delete the exited replace rules.</p> |
| <b>Area Code</b>    | <p>Area codes are also known as NPAs (Numbering Plan Areas). They usually indicate different geographical areas within one country. If entered numbers match the predefined area</p>                                                                                                                                                                                                                                                                                |

|  |                                                                                                                                               |
|--|-----------------------------------------------------------------------------------------------------------------------------------------------|
|  | code rule, the IP phone will automatically prefix outgoing number with area code.<br><b>Note:</b> There is only one area code rule supported. |
|--|-----------------------------------------------------------------------------------------------------------------------------------------------|

## 8.14 Phone->Dial Plan

Dial Plan

Rules

Dial Now ▼

| Index | Account | Dial Now Rule |                          |
|-------|---------|---------------|--------------------------|
| 1     | Auto    | 123           | <input type="checkbox"/> |
| 2     |         |               | <input type="checkbox"/> |
| 3     |         |               | <input type="checkbox"/> |
| 4     |         |               | <input type="checkbox"/> |
| 5     |         |               | <input type="checkbox"/> |
| 6     |         |               | <input type="checkbox"/> |
| 7     |         |               | <input type="checkbox"/> |
| 8     |         |               | <input type="checkbox"/> |
| 9     |         |               | <input type="checkbox"/> |
| 10    |         |               | <input type="checkbox"/> |

Add

Edit

Delete

Dial Now Delay

All Dial Delay

Disabled ▼

Dial Now Delay

1 (0~15s)

Area Code

Code

Min Length

1 (1~15)

Max Length

1 (1~15)

Account

Auto ▼

| Sections              | Description                                                                                                                                                                                                  |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Rules</b>          | Allow user to select Replace rule or Dial-now to display or edit.                                                                                                                                            |
| <b>Dial Now Delay</b> | Allow user configure dial now delay time for dial now.<br>It means user can configure the IP phone to dial out the phone number automatically after the designated delay time if it match any dial now rule. |

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Rules Modify</b> | <p>Allow user to modify selected rules information, for dial-now rule, user can modify related accounts, Dial now Rule itself.</p> <ul style="list-style-type: none"> <li>● Click Add to add new dial now number.</li> <li>● Select the related account for dial now.</li> <li>● Enter the number in Dial Now Rule area.</li> <li>● Click submit to save.</li> </ul> <p>All dial now numbers will show in the list. Users can edit or delete the existed dial now number.</p> |
| <b>Area Code</b>    | <p>Area codes are also known as NPAs(Numbering Plan Areas). They usually indicate different geographical areas within one country. If entered numbers match the predefined area code rule, the IP phone will automatically prefix outgoing number with area code.</p> <p><b>Note:</b> There is only one area code rule supported.</p>                                                                                                                                         |

## 8.15 Phone->Action URL

| Action URL            |                                                                      |
|-----------------------|----------------------------------------------------------------------|
| ActionURL             |                                                                      |
| Active                | Enabled ▾                                                            |
| Setup Completed       | <input type="text" value="http://192.168.10.11/help.xml?mac=\$mac"/> |
| Registered            | <input type="text" value="http://192.168.10.11/help.xml?mac=\$mac"/> |
| Unregistered          | <input type="text"/>                                                 |
| Registered Failed     | <input type="text"/>                                                 |
| Off Hook              | <input type="text"/>                                                 |
| On Hook               | <input type="text"/>                                                 |
| Incoming Call         | <input type="text"/>                                                 |
| Outgoing Call         | <input type="text"/>                                                 |
| Established           | <input type="text"/>                                                 |
| Terminated            | <input type="text"/>                                                 |
| Open DND              | <input type="text"/>                                                 |
| Close DND             | <input type="text"/>                                                 |
| Open Always FWD       | <input type="text"/>                                                 |
| Close Always FWD      | <input type="text"/>                                                 |
| Open Busy FWD         | <input type="text"/>                                                 |
| Close Busy FWD        | <input type="text"/>                                                 |
| Open No Answered FWD  | <input type="text"/>                                                 |
| Close No Answered FWD | <input type="text"/>                                                 |
| Transfer Call         | <input type="text"/>                                                 |
| Blind Transfer        | <input type="text"/>                                                 |
| Attended Transfer     | <input type="text"/>                                                 |
| Hold                  | <input type="text"/>                                                 |
| UnHold                | <input type="text"/>                                                 |
| Mute                  | <input type="text"/>                                                 |
| UnMute                | <input type="text"/>                                                 |
| MissedCall            | <input type="text"/>                                                 |
| IP Changed            | <input type="text"/>                                                 |
| FWD Incoming Call     | <input type="text"/>                                                 |
| Reject Incoming Call  | <input type="text"/>                                                 |
| Answer New Call       | <input type="text"/>                                                 |
| Transfer Finished     | <input type="text"/>                                                 |
| Transfer Failed       | <input type="text"/>                                                 |
| Idle To Busy          | <input type="text"/>                                                 |

| Sections          | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Action URL</b> | <p>To display and configure Action URL settings.</p> <p>Setup Completed: When the IP phone completes startup.</p> <ul style="list-style-type: none"> <li>● Registered: When the IP phone successfully registers an account.</li> <li>● Unregistered: When the IP phone logs off the registered account.</li> <li>● Register Failed: When the IP phone fails to register an account.</li> <li>● Off Hook: When the IP phone is off hook.</li> <li>● On Hook: When the IP phone is on hook.</li> <li>● Incoming Call: When the IP phone receives an incoming call.</li> <li>● Outgoing Call: When the IP phone places a call.</li> <li>● Established: When the IP phone establishes a call.</li> <li>● Terminated: When the IP phone terminates a call.</li> <li>● Open DND: When the IP phone enables the DND mode.</li> <li>● Close DND: When the IP phone disables the DND mode.</li> <li>● Open Always Forward: When the IP phone enables the always forward.</li> <li>● Close Always Forward: When the IP phone disables the always forward.</li> <li>● Open Busy Forward: When the IP phone enables the busy forward.</li> <li>● Close Busy Forward: When the IP phone disables the busy forward.</li> <li>● Open No Answer Forward: When the IP phone enables the no answer forward.</li> <li>● Close No Answer Forward: When the IP phone disables the no answer forward</li> <li>● Transfer Call : When the IP phone transfers a call.</li> <li>● Blind Transfer: When the IP phone blind transfers a call.</li> <li>● Attended Transfer: When the IP phone performs the semi-attended/attended transfer.</li> <li>● Hold: When the IP phone places a call on hold.</li> <li>● UnHold: When the IP phone retrieves a hold call.</li> <li>● Mute: When the IP phone mutes a call.</li> <li>● UnMute: When the IP phone un-mutes a call.</li> <li>● Missed Call: When the IP phone misses a call.</li> <li>● IP Changed: When the IP address of the IP phone changes.</li> <li>● FWD Incoming Call: When the IP phone forwards an</li> </ul> |

|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p>incoming call.</p> <ul style="list-style-type: none"> <li>● Reject Incoming Call: When the IP phone rejects an incoming call.</li> <li>● Answer New Call: When the IP phone answers a new call.</li> <li>● Transfer Finished: When the IP phone completes to transfer a call.</li> <li>● Transfer Failed: When the IP phone fails to transfer a call.</li> <li>● Idle To Busy: When the state of the IP phone changes from idle to busy.</li> <li>● Busy To Idle: When the state of phone changes from busy to idle.</li> </ul> |
|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## 8.16 Phone->Multicast

| Multicast              |                   |       |          |
|------------------------|-------------------|-------|----------|
| Multicast Setting      |                   |       |          |
| Paging Barge           | Disabled ▼        |       |          |
| Paging Priority Active | Enabled ▼         |       |          |
| Priority List          |                   |       |          |
| IP Address             | Listening Address | Label | Priority |
| 1 IP Address           | 224.1.5.18:26000  |       | 1        |
| 2 IP Address           |                   |       | 2        |
| 3 IP Address           |                   |       | 3        |
| 4 IP Address           |                   |       | 4        |
| 5 IP Address           |                   |       | 5        |
| 6 IP Address           |                   |       | 6        |
| 7 IP Address           |                   |       | 7        |
| 8 IP Address           |                   |       | 8        |
| 9 IP Address           |                   |       | 9        |
| 10 IP Address          |                   |       | 10       |

| Sections                 | Description                                                                                                                                                                                                              |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Multicast Setting</b> | <p>To display and configure the Multicast setting.</p> <ul style="list-style-type: none"> <li>● Paging Barge: Setup the priority quantity.</li> <li>● Paging priority Active: Enable o disable the multicast.</li> </ul> |
| <b>Priority List</b>     | <p>To setup the multicast parameters.</p> <ul style="list-style-type: none"> <li>● Listening Address: Enter the IP address you need to listen</li> <li>● Label : Input the label for each listening address</li> </ul>   |

## 8.17 PhoneBook->Local Book

Local Book

Contact

All Contacts ▼

Search

Search

Reset

Dial

Auto ▼

Dial

Hand Up

| Index | Name  | Number 1            | Number 2            | Number 3            | Group |                          |
|-------|-------|---------------------|---------------------|---------------------|-------|--------------------------|
| 1     | aku.. | <a href="#">171</a> | <a href="#">171</a> | <a href="#">171</a> | ak    | <input type="checkbox"/> |
| 2     |       |                     |                     |                     |       | <input type="checkbox"/> |
| 3     |       |                     |                     |                     |       | <input type="checkbox"/> |
| 4     |       |                     |                     |                     |       | <input type="checkbox"/> |
| 5     |       |                     |                     |                     |       | <input type="checkbox"/> |
| 6     |       |                     |                     |                     |       | <input type="checkbox"/> |
| 7     |       |                     |                     |                     |       | <input type="checkbox"/> |
| 8     |       |                     |                     |                     |       | <input type="checkbox"/> |
| 9     |       |                     |                     |                     |       | <input type="checkbox"/> |
| 10    |       |                     |                     |                     |       | <input type="checkbox"/> |

Page 1 ▼

Prev

Next

Move To

All Contacts ▼

Delete

Delete All

Contact Setting

Name

Number 1

Number 2

Number 3

Group

Default ▼

Add

Edit

Cancel

### Group

| Index | Name | Description |                          |
|-------|------|-------------|--------------------------|
| 1     | ak   |             | <input type="checkbox"/> |
| 2     |      |             | <input type="checkbox"/> |
| 3     |      |             | <input type="checkbox"/> |
| 4     |      |             | <input type="checkbox"/> |
| 5     |      |             | <input type="checkbox"/> |

Delete
Delete All

### Group Setting

Name

Add
Edit
Cancel

### Import/Export

Contact

选择文件

未选择任何文件

Import
Export
Cancel

Import
Export
Cancel

(.XML)
(.CSV)

| Sections             | Description                                                                                                                                                                                                                                                            |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Contact</b>       | To display and select local contact type. <ul style="list-style-type: none"> <li>● All Contacts: To display or edit all local contacts.</li> <li>● Favorites: To display or edit favorites contacts.</li> <li>● Black List: To display black list contacts.</li> </ul> |
| <b>Search</b>        | To search designated contacts from local phonebook.                                                                                                                                                                                                                    |
| <b>Dial</b>          | To dial out a call or hangup an ongoing call from Web UI.<br><b>Note:</b> For this feature, you need to have the remote control privilege to control IP phone via Web UI. Please refer to section "Remote Control" in the Web UI->Phone->Call Feature page.            |
| <b>Group</b>         | To display or edit Group contacts.                                                                                                                                                                                                                                     |
| <b>Group Setting</b> | To display or change Group name, related ringtone or description.                                                                                                                                                                                                      |
| <b>Import/Export</b> | To import or export the contact or blacklist file.                                                                                                                                                                                                                     |

## 8.18 PhoneBook->Remote Book

| Remote Book |                                         |                 |
|-------------|-----------------------------------------|-----------------|
| Remote Book |                                         |                 |
| Index       | Local Book URL                          | Local Book Name |
| 1           | tftp://192.168.10.53/remote_contact.xml | 123             |
| 2           |                                         |                 |
| 3           |                                         |                 |
| 4           |                                         |                 |
| 5           |                                         |                 |

|                              |                     |
|------------------------------|---------------------|
| Search Remote Phonebook Name | Enabled ▼           |
| Refresh Interval             | 3600 (120~2592000s) |

| Sections    | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Remote Book | <p>To display and configure Remote Book settings.</p> <ul style="list-style-type: none"><li>● Index: To select desired Remote Book item to display and configure.</li><li>● Local Book URL: To configure remote book server address</li><li>● Local Book Name: To configure display remote book name on Phone UI</li><li>● Search Remote Phonebook Name: To enable or disable search remote phonebook name</li><li>● Search Flash Interval: To set interval (Range from 120s to 2592000s)</li></ul> <p><b>Note:</b> IP phone supports at most 5 remote books. Please refer to your administrator for how to establish a remote book server and how to create remote book xml file.</p> |

## 8.19 PhoneBook->Call Log

| Call Log                                         |          |            |          |                                       |                |                                                                                       |                          |
|--------------------------------------------------|----------|------------|----------|---------------------------------------|----------------|---------------------------------------------------------------------------------------|--------------------------|
| Call History                                     |          |            |          | All ▼                                 | Hand Up        |                                                                                       |                          |
| Index                                            | Type     | Date       | Time     | Local Identity                        | Name           | Number                                                                                |                          |
| 1                                                | Dialed   | 2016-11-02 | 02:12:37 | 192.168.10.1<br>23@192.168.1<br>0.123 | 192.168.10.123 | <a href="#">192.168.10.1</a><br><a href="#">23@192.168.1</a><br><a href="#">0.123</a> | <input type="checkbox"/> |
| 2                                                | Received | 2016-11-02 | 02:12:37 | 192.168.10.1<br>23@192.168.1<br>0.123 | 192.168.10.123 | <a href="#">192.168.10.1</a><br><a href="#">23@192.168.1</a><br><a href="#">0.123</a> | <input type="checkbox"/> |
| 3                                                | Dialed   | 2016-11-02 | 02:12:23 | 171@192.168.<br>10.27:5060            | 173            | <a href="#">173@192.168.</a><br><a href="#">10.27:5060</a>                            | <input type="checkbox"/> |
| 4                                                | Dialed   | 2016-11-02 | 02:12:15 | 171@192.168.<br>10.27:5060            | 172            | <a href="#">172@192.168.</a><br><a href="#">10.27:5060</a>                            | <input type="checkbox"/> |
| 5                                                |          |            |          |                                       |                |                                                                                       | <input type="checkbox"/> |
| 6                                                |          |            |          |                                       |                |                                                                                       | <input type="checkbox"/> |
| 7                                                |          |            |          |                                       |                |                                                                                       | <input type="checkbox"/> |
| 8                                                |          |            |          |                                       |                |                                                                                       | <input type="checkbox"/> |
| 9                                                |          |            |          |                                       |                |                                                                                       | <input type="checkbox"/> |
| 10                                               |          |            |          |                                       |                |                                                                                       | <input type="checkbox"/> |
| 11                                               |          |            |          |                                       |                |                                                                                       | <input type="checkbox"/> |
| 12                                               |          |            |          |                                       |                |                                                                                       | <input type="checkbox"/> |
| 13                                               |          |            |          |                                       |                |                                                                                       | <input type="checkbox"/> |
| 14                                               |          |            |          |                                       |                |                                                                                       | <input type="checkbox"/> |
| 15                                               |          |            |          |                                       |                |                                                                                       | <input type="checkbox"/> |
| Page 1 ▼    Prev    Next    Delete    Delete All |          |            |          |                                       |                |                                                                                       |                          |

| Sections            | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Call History</b> | <p>To display call history records.</p> <p>Available call history types are All calls, Dialed calls, Received calls, Missed calls, Forwarded calls.</p> <ul style="list-style-type: none"> <li>● HangUp: To click to hangup ongoing call on the IP phone.</li> </ul> <p><b>Note:</b> For “HangUp” feature, you need to have the remote control privilege to control IP phone via Web UI. Please refer to section “Remote Control” in the Web UI-&gt;Phone-&gt;Call Feature page.</p> |

## 8.20 PhoneBook->LDAP

**LDAP**

**LDAP**

|                   |                                                                     |              |
|-------------------|---------------------------------------------------------------------|--------------|
| Name Filter       | <input type="text" value="( (cn=#)(sn=#))"/>                        |              |
| Number Filter     | <input type="text" value="( (telephoneNumber=#)(mobileNumber=#))"/> |              |
| Server            | <input type="text" value="192.168.10.31"/>                          |              |
| Port              | <input type="text" value="389"/>                                    | (1~65535)    |
| Base DN           | <input type="text" value="ou=Group1,o=RL,c=CN"/>                    |              |
| User Name         | <input type="text" value="cn=admin,o=RL,c=CN"/>                     |              |
| Password          | <input type="password" value="*****"/>                              |              |
| Name Attribute    | <input type="text" value="cn sn"/>                                  |              |
| Number Attribute  | <input type="text" value="telephoneNumber mobile home"/>            |              |
| Display Name      | <input type="text" value="cn sn"/>                                  |              |
| Max Hits          | <input type="text" value="50"/>                                     | (1~500)      |
| Search Delay Time | <input type="text" value="1000"/>                                   | (200~3000)ms |

| Sections | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LDAP     | <p>To display and configure LDAP phonebook settings.</p> <ul style="list-style-type: none"> <li>● Name Filter: The settings used to tell LDAP server what name attributes to search.</li> <li>● Number Filter: The settings used to tell LDAP server what number attributes to search.</li> <li>● Server: To configure LDAP server's address.</li> <li>● Port: To configure LDAP server's port.</li> <li>● Base DN: To configure searching base DN on LDAP server.</li> <li>● User Name: To configure user name for accessing LDAP server.</li> <li>● Password: To configure password for accessing LDAP server.</li> <li>● Name Attribute: To configure which name attributes should be feedback from LDAP server.</li> <li>● Number Attribute: To configure which number attributes should be feedback from LDAP server.</li> <li>● Display Name: To configure display name on Phone UI when there is any searching result from LDAP server.</li> <li>● Max Hits: To configure the maximum size of result</li> </ul> |

|  |                                                                                                                                                                                                                                                                                                                                |
|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p>response from LDAP server.</p> <ul style="list-style-type: none"> <li>● Search Delay Time: To configure delay time before initiate LDAP searching request after you input a value from Phone UI.</li> </ul> <p><b>Note:</b> For setting details, please consult with your system administrator for further information.</p> |
|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## 8.21 PhoneBook->Broadsoft

**Broadsoft**

**Broadsoft PhoneBook**

|                |                                                              |
|----------------|--------------------------------------------------------------|
| PhoneBook Item | <input type="text" value="Item1"/>                           |
| Display Name   | <input type="text" value="Group"/>                           |
| Server Address | <input type="text" value="http://xsp1.iop2.broadworks.net"/> |
| Server Port    | <input type="text" value="80"/> (1~65535)                    |
| User Name      | <input type="text" value="AkuvoxUser2@as.iop2.broadw"/>      |
| Password       | <input type="password" value="....."/>                       |

| Sections                   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Broadsoft PhoneBook</b> | <p>To display and configure Broadsoft PhoneBook settings.</p> <ul style="list-style-type: none"> <li>● PhoneBook Item: To select specific item to configure.</li> <li>● Display Name: The name displayed at IP phone's LCD screen when accessed via Phone UI.</li> <li>● Server Address: Broadsoft PhoneBook server's address.</li> <li>● Server Port: Broadsoft PhoneBook server's port.</li> <li>● User Name: Username used to access Broadsoft PhoneBook server.</li> <li>● Password: Password used to access Broadsoft PhoneBook server.</li> </ul> <p><b>Note:</b> IP phone supports at most 5 Broadsoft PhoneBook items. For Broadsoft PhoneBook's server address, port, username and password, you need to consult your Broadsoft service provider for further information.</p> |

## 8.22 Upgrade->Basic

**Upgrade-Basic**

Firmware Version

48.0.1.45

Hardware Version

1.0

Upgrade

Browse...

Submit

Cancel

Reset To Factory Setting

Submit

Reset Config To Factory Setting

Submit

Reboot

Submit

| Sections                        | Description                                                                                                                                        |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Firmware version                | To display firmware version, firmware version starts with MODEL name.                                                                              |
| Hardware Version                | To display Hardware version.                                                                                                                       |
| Upgrade                         | To select upgrading zip file from local or a remote server automatically.<br><b>Note:</b> Please make sure it's right file format for right model. |
| Reset to Factory Setting        | To setup R48G to factory setting.                                                                                                                  |
| Reset Config to Factory Setting | To setup the configuration file to factory setting.                                                                                                |
| Reboot                          | Click the submit to reboot the device                                                                                                              |

## 8.23 Upgrade->Advanced

**Upgrade-Advanced**

**PNP Option**

PNP Config

Enabled ▼

**DHCP Option**

Custom Option

(128~254)

DHCP Option Enable

☒ Custom Option  
☒ Option 43  
☒ Option 66

| Sections          | Description                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PNP Option</b> | <p>To display and configure PNP setting for Auto Provisioning.</p> <ul style="list-style-type: none"> <li>● PNP: Plug and Play, once PNP is enabled, the phone will send SIP subscription message to PNP server automatically to get Auto Provisioning server's address. By default, this SIP message is sent to multicast address 224.0.1.75(PNP server address by standard).</li> </ul> |

### Manual Autop

URL

tftp://192.168.10.53

User Name

Password

\*\*\*\*\*

Common AES Key

\*\*\*\*\*

AES Key(MAC)

\*\*\*\*\*

AutoP Immediately

### Automatic Autop

Mode

Power On ▼

Schedule

Sunday ▼

22 Hour(0~23)

0 Min(0~59)

Clear MD5

Submit

Export Autop Template

Export

### Reboot Schedule

Mode

Disabled ▼

Schedule

Every Day ▼

0 Hour(0~23)

Submit

Cancel

| Sections            | Description                                                                                                                                                                                                                                                                                                           |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Manual AutoP</b> | <p>To display and configure manual update server's settings.</p> <ul style="list-style-type: none"> <li>● URL: Auto provisioning server address.</li> <li>● User name: Configure if server needs an username to access, otherwise left blank.</li> <li>● Password: Configure if server needs a password to</li> </ul> |

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                        | <p>access, otherwise left blank.</p> <ul style="list-style-type: none"> <li>● Common AES Key: Used for IP phone to decipher common Auto Provisioning configuration file.</li> <li>● AES Key (MAC): Used for IP phone to decipher MAC-oriented auto provisioning configuration file(for example, file name could be 0c1105888888.cfg if IP phone's MAC address is 0c1105888888).</li> </ul> <p><b>Note:</b> AES is one of many encryption, it should be configure only configure filed is ciphered with AES, otherwise left blank.</p> |
| <b>Automatic AutoP</b> | <p>To display and configure Auto Provisioning mode settings. This Auto Provisioning mode is actually self-explanatory. For example, mode "Power on" means IP phone will go to do Provisioning every time it powers on.</p>                                                                                                                                                                                                                                                                                                            |
| <b>Reboot Schedule</b> | <p>Enable to set the reboot at designed time.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

### System Log

LogLevel

3 ▾

Export Log

Export

Remote System Log

Disabled ▾

Remote System Server

Submit

Cancel

### PCAP

PCAP

Start

Stop

Export

PCAP Auto Refresh

Disabled ▾

### Others

Config File(.tgz/.conf/.cfg)

Browse...

Export (Encrypted)

Import

Cancel

| Sections          | Description                                                                                                                                                                                                                                                                                                           |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>System Log</b> | <p>To display syslog level and export syslog file.</p> <ul style="list-style-type: none"> <li>● Syslog level: From level 0~7.The higher level means the more specific syslog is saved to a temporary file. By default, it's level 3.</li> <li>● Export Log: Click to export temporary syslog file to local</li> </ul> |

|               |                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|               | PC.                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>PCAP</b>   | <p>To start, stop packets capturing or to export captured Packet file.</p> <ul style="list-style-type: none"> <li>● Start: To start capturing all the packets file sent or received from IP phone.</li> <li>● Stop: To stop capturing packets.</li> </ul> <p><b>Note:</b> IP phone will save captured packets file to a temporary file, this file maximum size is 1M(mega bytes), and will stop capturing once reaching this maximum size.</p> |
| <b>Others</b> | <p>To display or configure others features from this page.</p> <ul style="list-style-type: none"> <li>● Config file: To export or import configure file for IP phone.</li> </ul>                                                                                                                                                                                                                                                               |

## 8.24 Security->Basic

Security-Basic

Web Password Modify

User Name

admin ▼

Current Password

New Password

Confirm Password

Session Time Out

Session Time Out Value

300

(60~14400s)

| Sections                   | Description                                                                                                                                                                                                                                                                                                                                                                               |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Web Password Modify</b> | <p>To modify user's password.</p> <ul style="list-style-type: none"> <li>● User Name: Choose the character you are.(admin or user)</li> <li>● Current Password: The current password you used.</li> <li>● New Password: Input new password you intend to use.</li> <li>● Confirm Password: Repeat the new password.</li> </ul> <p><b>Note:</b> Security is configurable via web only.</p> |

## 8.25 Security->Advanced

**Advanced**

**Web Server Certificate**

| Index | Issue To | Issuer  | Expire Time             | Delete                 |
|-------|----------|---------|-------------------------|------------------------|
| 1     | IPphone  | IPphone | Sun Oct 9 16:00:00 2034 | <a href="#">Delete</a> |

**Web Server Certificate Upload**

[Browse...](#) [Submit](#) [Cancel](#)

| Sections                      | Description                                                                                                                                                              |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Web Server Certificate        | To display or delete Certificate which is used when IP phone is connected from any incoming HTTPs request.<br><b>Note:</b> The default certificate could not be deleted. |
| Web Server Certificate Upload | To upload a certificate file which will be used as server certificate.                                                                                                   |

**Client Certificate**

| Index | Issue To | Issuer | Expire Time              |                                     |
|-------|----------|--------|--------------------------|-------------------------------------|
| 1     | AK       | Akuvox | Sun May 28 06:21:54 2014 | <input checked="" type="checkbox"/> |
| 2     |          |        |                          | <input type="checkbox"/>            |
| 3     |          |        |                          | <input type="checkbox"/>            |
| 4     |          |        |                          | <input type="checkbox"/>            |
| 5     |          |        |                          | <input type="checkbox"/>            |
| 6     |          |        |                          | <input type="checkbox"/>            |
| 7     |          |        |                          | <input type="checkbox"/>            |
| 8     |          |        |                          | <input type="checkbox"/>            |
| 9     |          |        |                          | <input type="checkbox"/>            |
| 10    |          |        |                          | <input type="checkbox"/>            |

[Delete](#) [Cancel](#)

**Client Certificate Upload**

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Auto   
[Submit](#) [Cancel](#)

Only Accept Trusted Certificates

Disabled   
[Submit](#) [Cancel](#)

| Sections                         | Description                                                                                                                                                                                                                          |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Client Certificate</b>        | To display or delete Certificates which is used when IP phone is connecting to any HTTPs server.                                                                                                                                     |
| <b>Client Certificate Upload</b> | <p>To upload certificate files, this is used as client certificate.</p> <ul style="list-style-type: none"> <li>● Only Accept trusted Certificates: If this option is enabled, only trusted certificates will be accepted.</li> </ul> |