



AKUVOX R49G GUARD PHONE

Administrator Guide

Version: 1.0 | Date: May.2021

About This Manual

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Thank you for choosing the Akuvox R49 guard phone. This manual is intended for the administrators who need to properly configure the R49 guard phone. This manual applies to the 49.30.5.xxx version, and it provides all the configurations for the functions and features of the guard phone. Please visit the Akuvox forum or consult technical support for any new information or the latest firmware

Introduction of Icons and Symbols



 Always abide by this information in order to prevent the persons from injury.

↑ Caution:

 Always abide by this information in order to prevent damages to the device.

Note:

Informative information and advice for the efficient use of the device.

Tip:

• Useful information for the quick and efficient use of the device.

Blue indicator Light Status

No.	Indicator Light Type	Indicator Light Status
1	Power Indicator Light	 When the device is powered on the light will turn on . When the device starts on normally, the light will be on. When the device is powered off, the light will turn off .
2	Network Connection indicator light	 When the device is powered on but is not connected to the network, the light will be off. When the the device is powered on and the network is connected, the light will turn on immediately. When the device network is disconnected, the light will turn off. (the light will be turn on when the network is reconnected).
3	Call Indicator Light	 When there is no missing call or unread messages and the device is in stand-by status, the light will be off. When there is no missing call or unread messages and the device is in receiving incoming calls status, the light will be flickering. when there is no missing call or unread messages and the device is in dialing out status, the light will stay on. when there is no missing call or unread messages and the device is in dialing out status while receiving a incoming call, the light will be flickering. when there is no missing call or unread messages and the device is in calling status, the light will stay on. when there is missing call or unread messages and the device is in calling status while receiving a incoming call, the light will be flickering. when there is missing call or unread messages and the device is in stand-by status, the light will be flickering. when there is missing call or unread messages and the device is in dialing out status, the light will be flickering. when there is missing call or unread messages and the device is receiving an incoming call, the light will be flickering. when there is missing call or unread messages with new missing calls and unread messages, the light will be flickering.

Related Documentation

You are advised to refer to the related documents for more technical information via the link below:

http://wiki.akuvox.com

FCC Caution:

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&you body.



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1. Product Overview

The cloud-based R49G guard phone can be deployed and maintained on the SmartPlus platform along with Akuvox door phones, indoor monitors, SmartPlus app that are incorporated with the guard phone as a whole in the community management. With the R49G guard phone, you will be able to build up the connection with door phone, indoor monitors, Smartplus app in terms of making intercom calls, monitoring door phones, dealing with alarms triggered by the indoor monitors in a community, and receiving SOS messages. More over, R49G allows you to send notifications to the door phones and SmartPlus apps, to create your local contact in the devices, and to set up monitoring locally.



2. Connecting Akuvox Smartplus

Akuvox R49 guard phone is connected to the Akuvox smartPlus platform for the cloud based management in terms of guard phone deployment, remote device configuration, device data transmission type, SIP account information, and time zone etc. And all these settings will be synchronized to the guard phone, prioritizing over the manual settings you conducted on the device. So before using it, please make sure it is already connected with Akuvox SmartPlus. If not, please consult your distributor or Akuvox technical team for help.



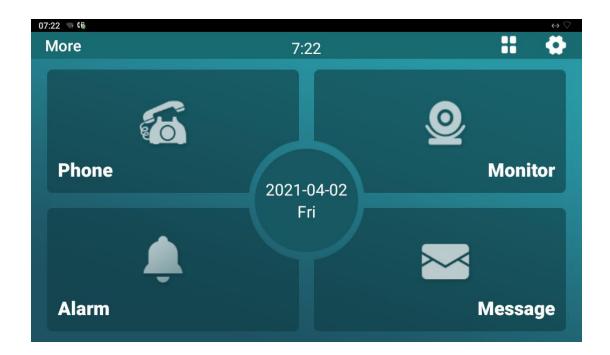
3. Network Setting

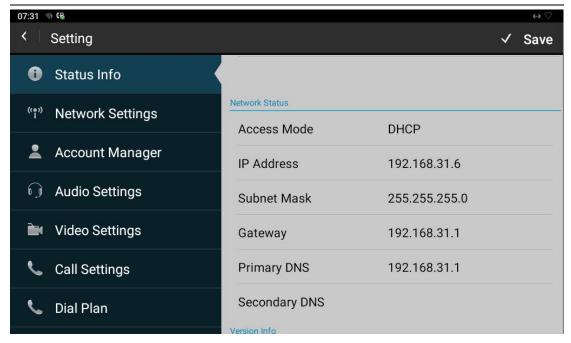
3.1. Device Network Status

Device network status can be checked on the device and on the device web interface.

Check Device Network Status on the Device

Click on on the device home screen and click on Status Info to check the the device network status.





Check Device Network Status on the Device

To check the network status on the web **Status > Network Information** interface.

Ne	Network Information	
LAN Port Type	DHCP Auto	
LAN Link Status	Connected	
LAN IP Address	192.168.31.6	
LAN Subnet Mask	255.255.255.0	
LAN Gateway	192.168.31.1	
LAN DNS1	192.168.31.1	
LAN DNS2		

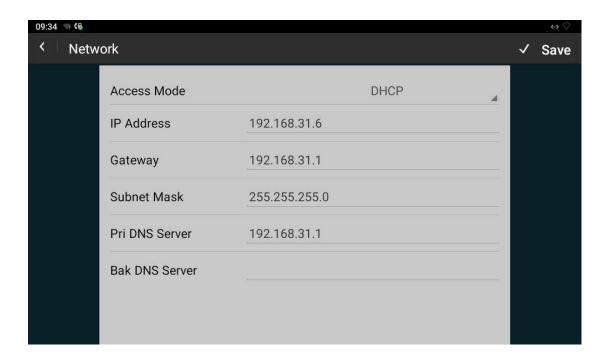
3.2. Device Network Configuration

R49G guard phone can be connected to both Ethernet and Wi-Fi network. You can check for the door phone's network connection info and configure the default DHCP mode (**Dynamic Host Configuration Protocol**) or static IP mode for the device either on the device or on the device web interface. You can also check and configure the device Wi-Fi connection and Wi-Fi and data usage (both WiFi and Ethernet data) on the device.



3.2.1. Configure Network Connection on the Device

You can check for the door phone's network connection info and configure the default DHCP mode (**Dynamic Host Configuration Protocol**) and static IP mode for the device either on the device or on the device web interface. To check and configure the network connection. You can press on on the home screen and click on **Network Settings> LAN Type**, then set up the network connection.



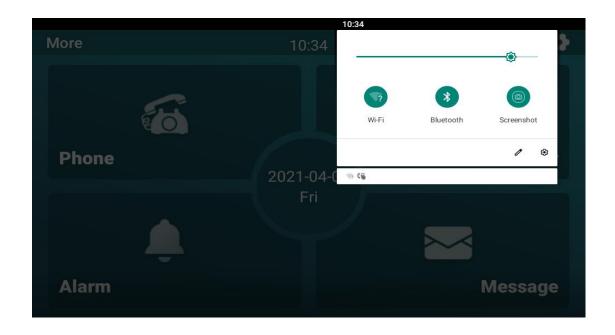
Parameter Set-up:

- Access Mode: select DHCP or static IP access mode. DHCP mode is the default network connection. If the DHCP mode is selected, then the guard door phone will be assigned by the DHCP server with IP address, subnet mask,gateway,and primary/ backup DNS server address automatically. If IP mode is selected, then the IP address, subnet mask, default gateway, and DNS server address will have to be manually configured according to your actual network environment.
- IP Address: set up the IP Address if the static IP mode is selected.
- Subnet Mask: set up the subnet Mask according to your actual network environment.

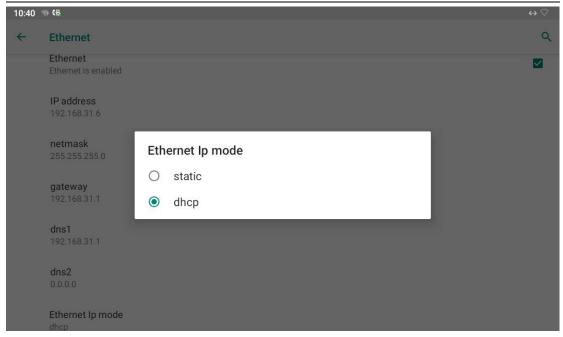


- Gateway: set up the correct gateway according to the IP address of the gateway.
- Pri DNS Server: set up the primary and the backup DNS Server address (Domain Name Server)according to your actual network environment. the guard phone will connect to the backup server when the primary DNS server is unavailable.

In addition, you can also check the network setting, enable/disable the Ethernet connection, and configure DHCP or static IP mode the device on the advanced setting on the device. To do so you can slide down your finger twice on device home screen and click on and click on Network&Internet > Ethernet

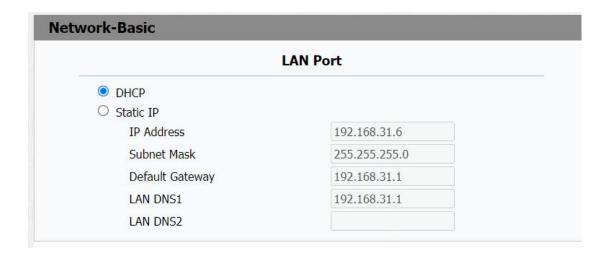






3.3. Configure Network Connection on the Web Interface

To check or configure network connection on the device web **Network > Basic** interface.



Parameter Set-up:

• IP Address: If the DHCP mode is selected, then the guard door phone will

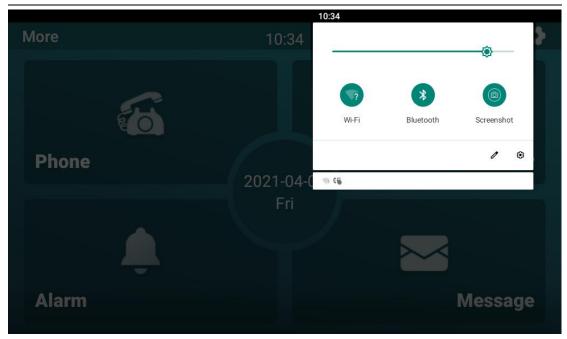
be assigned by the DHCP server with IP address, subnet mask,gateway,and primary/ backup DNS server address automatically.

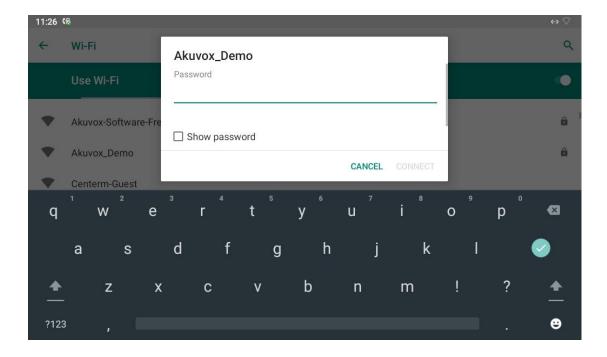
- Subnet Mask:If static IP mode is selected, then the IP address, subnet mask, gateway, and DNS servers address will have to be manually configured according to your actual network environment
- IP Address: set up the IP address if the static IP mode is selected.
- Subnet Mask: set up the subnet mask according to your actual network environment.
- Default Gateway: set up the correct gateway default gateway according to the IP address of the default gateway.
- LAN DNS1/2 Server: set up DNS (Domain Name Server) according to your actual network environment. DNS 1 for primary DNS server while DNS2 fo the back DNS server. The guard phone will connect to the backup server when the primary DNS server is unavailable.

3.4. Configure Device WIFI Connection

R49G guard phone supports Wi-Fi connection, you can configure the Wi-Fi connection on the device. To do so you can slide down your finger twice on device home screen and click on then click on Network&Internet > Ethernet, switch on Wi-Fi and set up the Wi-Fi connection.

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3.5. Local RTP Configuration

For the device network data transmission purpose, device needs to be set up with a range of RTP port (**Real-time Transport Protocol**) for establishing an exclusive range of data transmission in the network. To set up device local RTP on web **Network > Advanced > Local RTP** interface



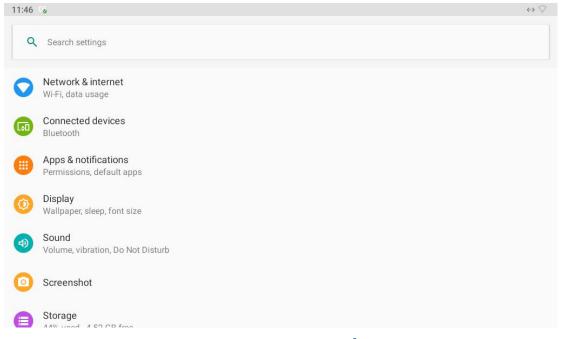
Network-Advanced				
Loca	al RTP			
Starting RTP Port	11800	(1024~65535)		
Max RTP Port	12000	(1024~65535)		

Parameter set-up:

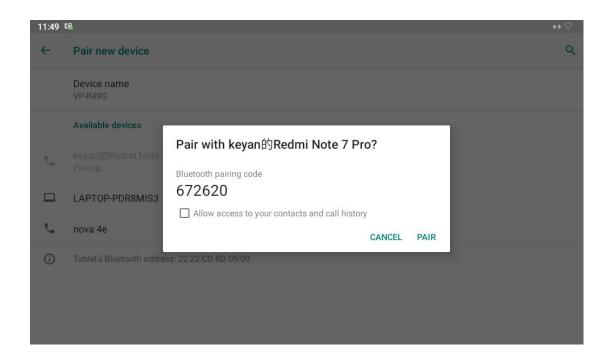
- Starting RTP Port: enter the Port value in order to establish the start point for the exclusive data transmission range.
- Max RTP port: enter the Port value in order to establish the end point for the exclusive data transmission range.

3.6. Device Bluetooth Configuration

You can switch on the Bluetooth function on the device to establish the Bluetooth based connection with devices with the Bluetooth function for files transmission, and making or answering the Bluetooth calls. To pair the guard phone with other Bluetooth device, you can slide down your finger twice on device home screen and click on then click on **Connected devices** and pair the guard phone with other devices.







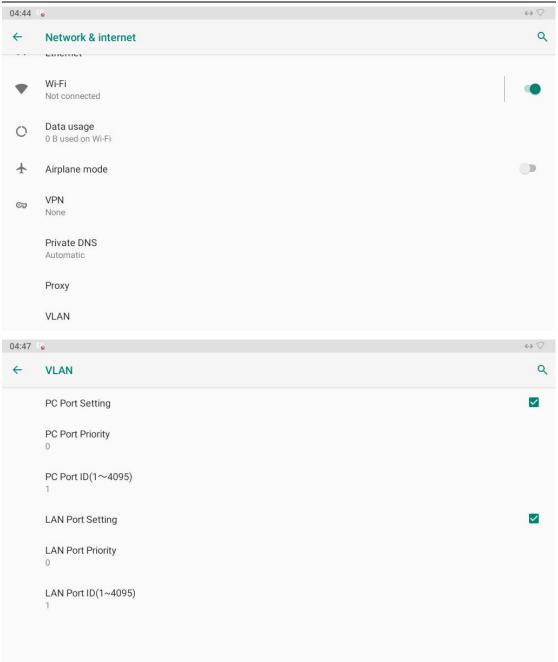
3.7. Device VLAN Configuration

Virtual Local Area Network is a logical grouping of two or more nodes which are not necessarily on the same physical network segment but which share the same logical IP domain. To be specify, the purpose of VLAN is to separate layer 2 broadcast domain. Within trunk links, the tagged packet will only be send to those ports with same VLAN ID. This is usually achieved by switch or router. User can benefit from deployed VLAN, such as: *Security: if without VLAN, all host will be included in unique broadcast domain. Therefore, the consequence of ARP attack will affect all end devices in the organization. *Performance: The nature of network broadcast is to flood frames among the network. In certain condition, it is unnecessary to receive broadcast frame. To save bandwidth for high efficiency, it will be better to separate broadcast domain by deploy VLAN.

If you want to create a VLAN network in which you only allow the designated number of devices in the same VLAN to be connected with the R49G guard phone for intercom calls, you can slide down your finger twice on the device home screen and press on and go to **Network&internet > Advanced** for the VLAN configuration.



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Parameter Set-up:

• PC Port Setting: tick the check box to enable the PC port setting, if you want to connect the device to the VLAN network from PC port on the device. R49 has two type of ports for the network connection, one is the PC port and the other is LAN port. If you set PC port for the VLAN network connection and connect the device to the network from the device LAN port, then the setting will not be valid. The value is 0 by default.

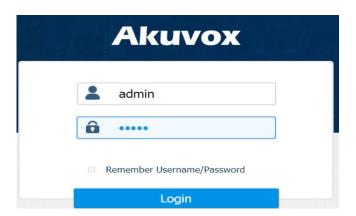
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- PC Port Priority: select the PC port priority from 0-9. The higher the number is, the higher priority will be given to the VLAN in terms of sending out the data packets to the devices in the VLAN when the network congestion occurs.
- PC Port ID (1-4095): This parameter does not need to be filled in by the users. The ID is 1 by default.
- LAN Port Setting: tick the check box to enable the LAN port setting, if you want to connect the device to the VLAN network from LAN port on the device. R49 has two type of ports for the network connection, one is the PC port and the other is LAN port. If you set LAN port for the VLAN network connection and connect the device to the network from the device PC port, then the setting will not be valid. The value is 0 by default.
- LAN Port Priority: select the PC port priority from 0-9. The higher the number is, the higher priority will be given to the VLAN in terms of sending out the data packets to the devices in the VLAN when the network congestion occurs.
- LAN Port ID (1-4095): leave this field blank, as this parameter does not need to be filled in by the users. The ID is 1 by default.



4. Access the Device Web Interface

You can enter the device IP address on the web browser in order to log in the device web interface by user name and password admin/admin where you can configure and adjust parameter etc.



Note:

- Google Chrome browser is strongly recommended.
- The Initial user name and password are "admin" and please be case-sensitive to the user names and passwords entered.



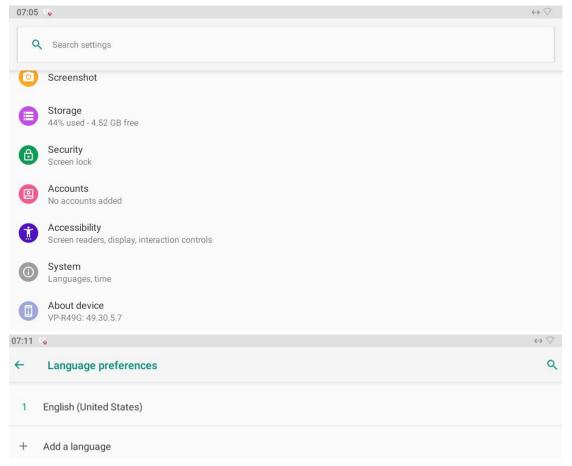
5. Language and Time Setting

5.1. Language Setting

When you first set up the device, you might need to set the language to your need or you can do it later. And the language can either be set up directly on the device or on the device web interface according to your preference.

5.1.1. Language Setting on the Device

Language setting can be configured on the device and on the device web interface that allows you to select or change the language for screen display To configure the language display, you can slide down your finger twice on the device home screen and click on and go to Network&internet > System>Languages&input interface.





Language Setting on the Web Interface

You can configure the language display on the device web interface. You can go to Phone >Time/Lang > LCD Language.

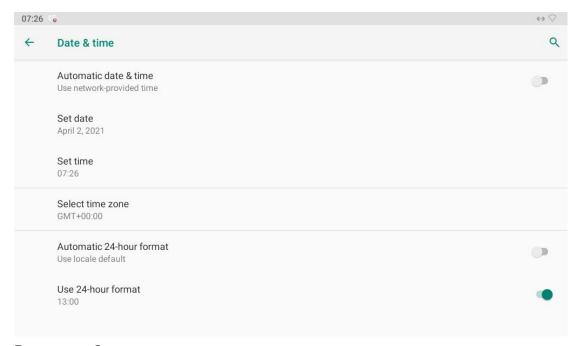


5.2. Time Setting

Time setting can be set up on the device and on the device web interface in terms of time zone, date and time format etc.

5.2.1. Time Setting on the Device

To configure the time setting, you can slide down your finger twice on the device home screen and click on and go to Network&internet > System>Date&time.



Parameter Set-up:



Automatic date&time: when you switch on automatic time and date, the time and date will be automatically synchronized with the NTP server (Network Time Protocol. You can switch off the function if you want to set up the time and date manually.

Set date: set up the date manually when the automatic date& time function is switched off. However, the date can not be set up manually when the automatic date&time function is switched on.

Set Time: set up the time manually when the automatic date& time function is switched off. However, the time can not be set up manually when the automatic date&time function is switched on.

Select time zone: select the specific time zone depending on when the device is used. The default time zone is GMT+0.00.

Automatic 24-hour format: switch on this function if you want the time to displayed in 24-hour format.

Use 12-hour format: switch on this function if you want to time to displayed in 12-hour format. However, you cannot set the 12-hour time display if automatic 24 hour format is switched on.

5.2.2.Time Setting on the Web Interface

You can configure the time setting on the web **Phone > Time/Lang** interface by setting up the NTP server address that you obtained to automatically synchronize your time and date for the device. And when your time zone is selected, the device will automatically notify the NTP server of its time zone so that the NTP server can synchronize the time zone setting in your device.



Parameter Set-up:



• NTP Server: enter the NTP server you obtained in the NTP server field.

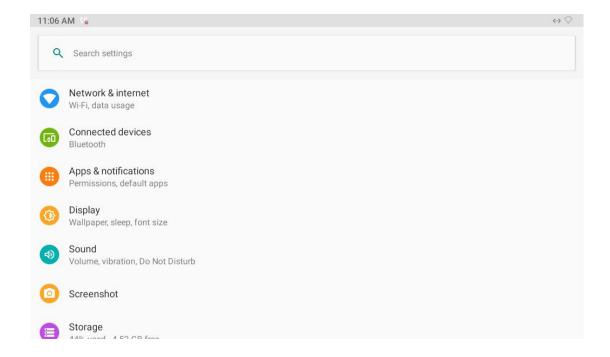


6. Screen Display Configuration

R49G guard phone allows you to enjoy a variety of screen displays to enrich your visual and operational experience through the customized setting to your preference.

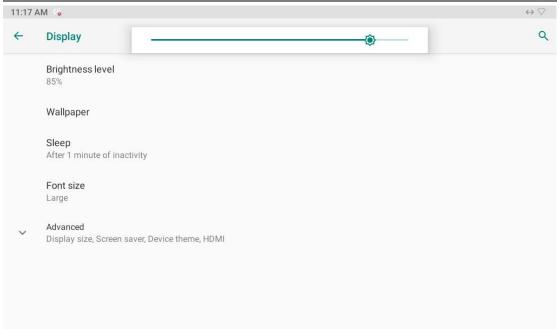
6.1. LCD Screen Brightness Setting

You can adjust the guard phone screen display brightness. To configure the language display, you can slide down your finger twice on the device home screen and click on and go to **Display > Brightness Level**.





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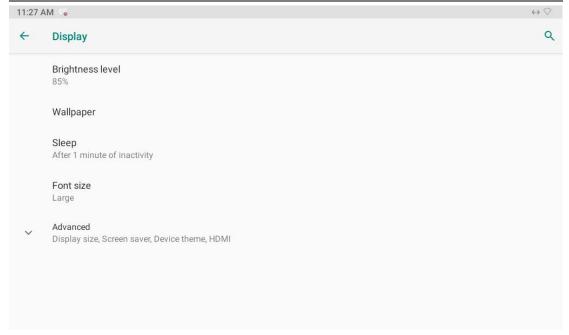


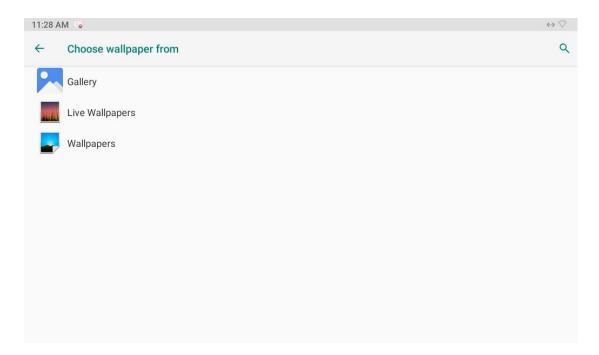
6.2. Wallpaper Setting

You can customize your wallpaper on the device by selecting the static and dynamic pictures from **Gallery**, **Live Wall papers** and **Wall papers**. Wall paper will appear when the device goes in to sleep mode or in to the lock screen status. To configure the language display, you can slide down your finger twice on the device home screen and click on and go to **Display** > **Wallpaper**.



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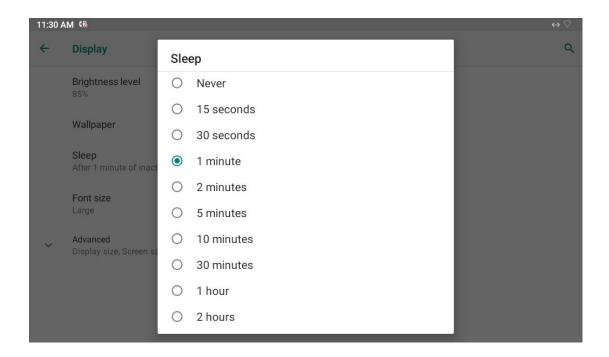


6.3. Sleep Mode Setting

You can set the timing for the device to go in to sleep mode. For example, if you set it as 1 minute then the device will go into sleep mode when there is no operation occurred for 1 minute. However if you set it as **Never**, then the device will never go into sleep mode. To configure the sleep mode, you can slide down your finger twice on the device home screen and click on and

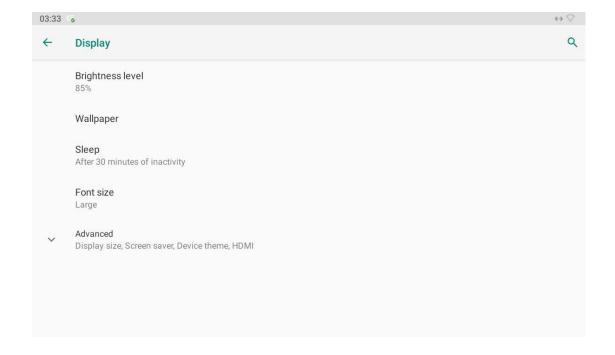


go to **Display > Sleep**.

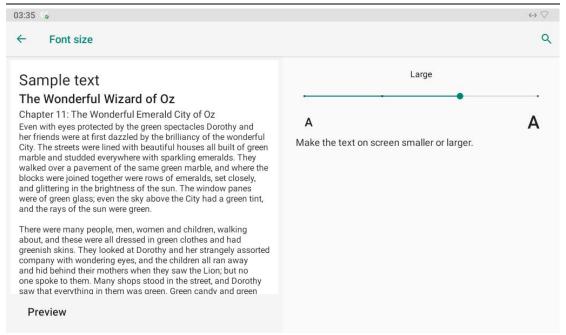


6.4. Font size Setting

You can set up the font size for the screen display. To configure the font size, you can slide down your finger twice on the device home screen and click on and go to **Display > Font size**.



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6.5. Home Screen Display Setting

You can choose your home screen display among three options: **Classic, Only Phone And Monitor, Home Care**. To select the home screen, you can go to **Phone > Preference > HomePage** on the device web interface.

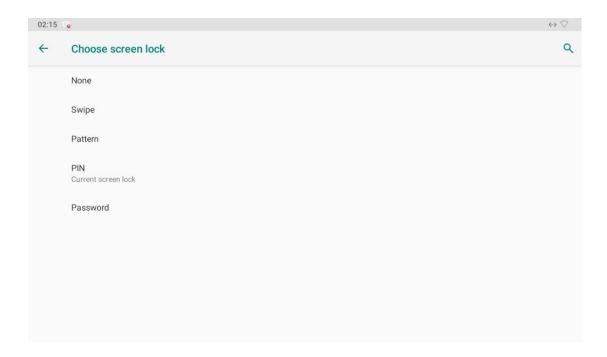


6.6. Screen Lock Setting

You can set up screen lock on the guard phone for the security purpose. To set up the screen lock, you can slide down your finger twice on the device home screen and click on and go to Security, then click on Screen lock and Lock screen preference to configure the screen lock feature and screen lock message and notification display respectively.



Configure Screen Lock Type



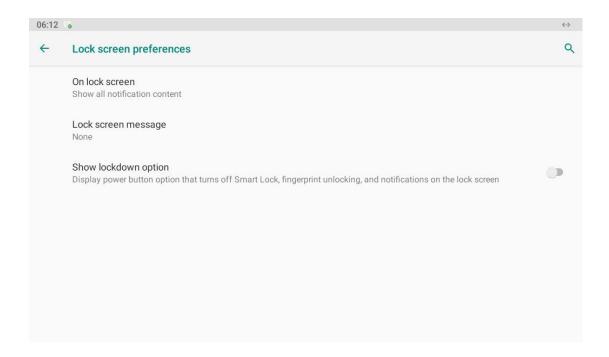
Parameter Set-up:

- None: select None if you want to disable the screen lock function.
- **Swipe**: select **Swipe** if you want to replace other types of screen lock with upward swipe on the screen for the screen unlock.
- Patten: set up the patter for the screen unlock.
- **PIN**: set up the screen unlock PIN code.
- Password: set up the password for the screen unlock when the device starts up.

.



Configure Screen Lock Message and Notification



Parameter Set-up:

On lock screen: select notification display among three options as follows:

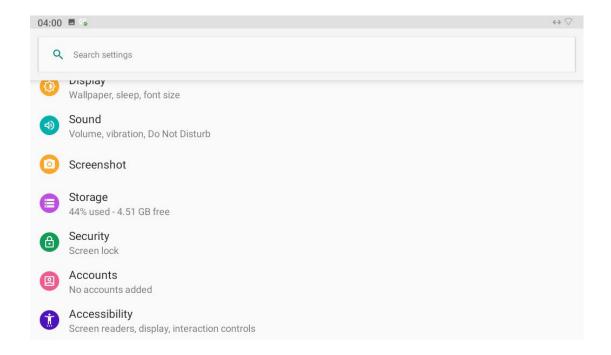
No.	Parameters	Description
1	Show all notification content	Select it if you allow all the notifications to be displayed on the lock screen.
2	Hide sensitive contents	Select it if you do not allow sensitive contents to be displayed on the lock screen
3	Don't show notification at all	Select it if you do not allow any notification to be displayed on the lock screen.

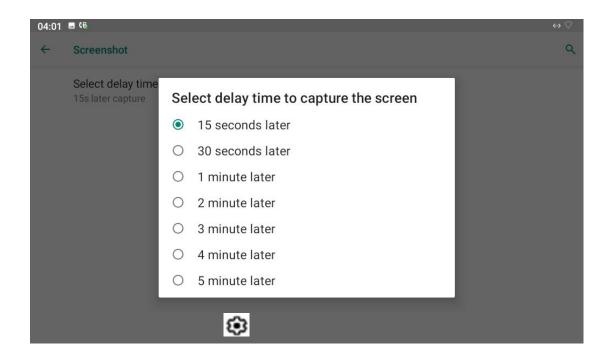
Lock screen message: enter for example, the person's name to indicate the owner of the lock screen.



6.7. Screenshot Setting

You can set up delay time for the device screen capturing, for example, if you set it as 30 seconds later, then the device will start the capturing the current device screen automatically for one time. You can slide down your finger twice on the device home screen and click and go to **Screenshot** interface.

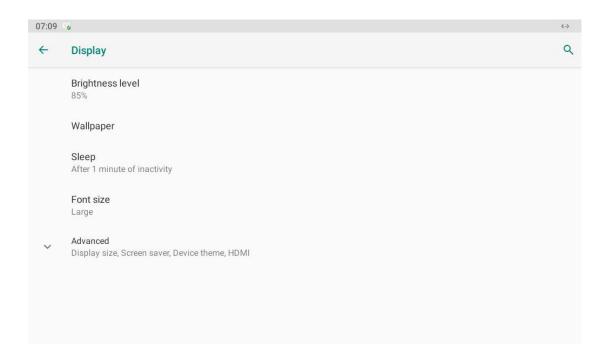


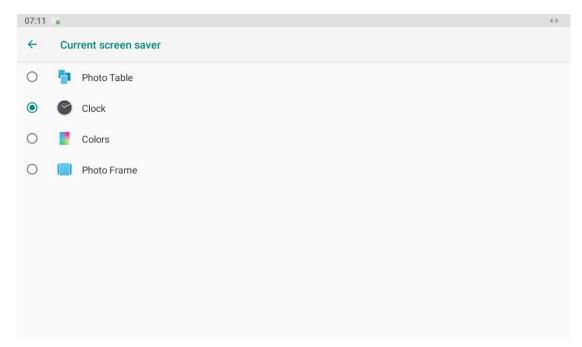




6.8. Screensaver Setting

You can select your screensaver, which will be displayed after the device goes into the sleep mode. To configure the screensaver, you can slide down your finger twice on the device home screen and press on and go to **Display > Advanced > Screensaver**. You can select four types of screensaver: **Photo Table, Clock, Colors,** and **Photo Frame**.

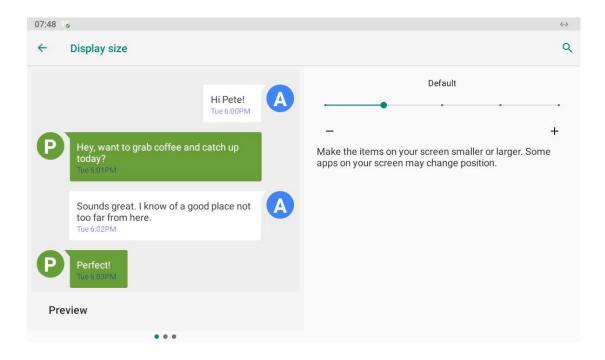






6.9. Large text Setting Screen Display

R49G guard phone allows you to amplify everything shown on the screen so that you see everything on the screen with greater ease. To do it, you can slide down your finger twice on the device home screen and click on and go to **Display > Advanced > Display size**.



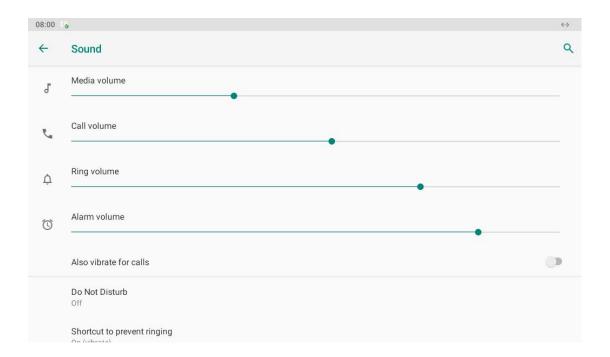


7. Sound and Volume Configuration

R49G door phone provides you with various types of ringtone, volume, to configure sound, volume, and ringtone, you can slide down your finger twice on the device home screen and press and go to **Sound**.

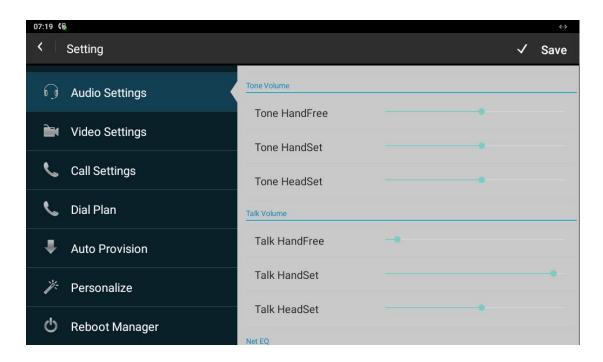
7.1. Sound and Volume Configuration on the Device

Configure Basic Sound and Volume Setting



- Media Volume: adjust the media volume by moving the dot.
- Call volume: adjust the speaker volume during the call.
- Ring Volume: adjust the outgoing call volume.
- Alarm Volume: adjust the alarm volume.





- Tone HandFree/HandSet/HeadSet: the volume of ring tone when there is an incoming call with handfree, handset or headset mode.
- Talk HandFree/HandSet/HeadSet: the volume during talking of handfree, handset ot headset mode.

7.1.1.Sound and Volume Configuration on the Web Interface.

You can select Ringtone volume for the device on the web interface: **Phone > Preference > Ringtone**.





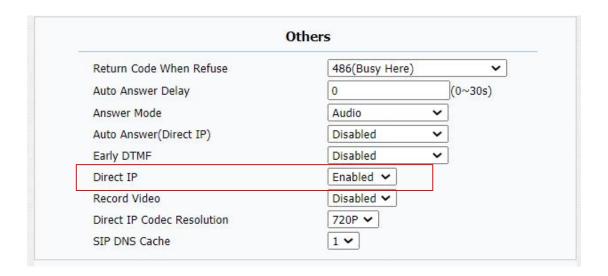
- **Keypad Press sound:** the volume of pressing key.
- Ringtone volume: select ringtone for incoming calls.



8. Call Configuration

8.1. IP call and IP Call Configuration

To configure the IP call feature on the device web **Phone > Call Feature > Others** interface.



Parameter Set-up:

• **Direct IP**: enable and disable the IP call according to your need.

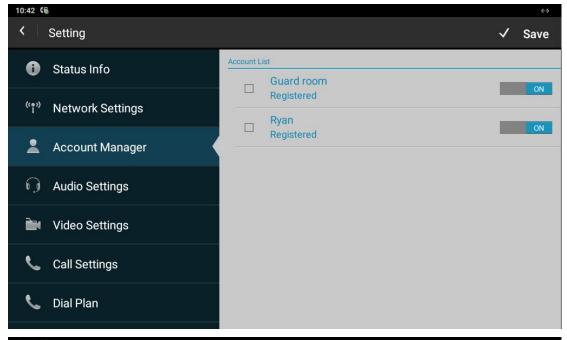
8.2. SIP Call and SIP Call Configuration

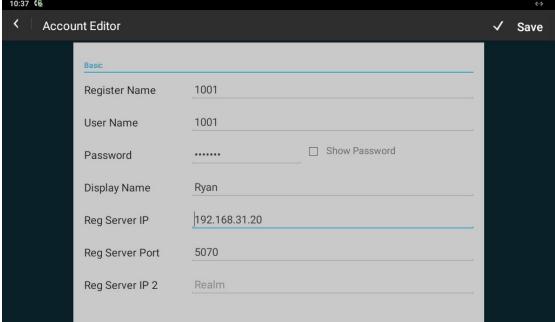
You can make SIP call (**Session Initiation Protocol**) in the same way as you do for making the IP calls on the device. However, SIP call parameters related to its account, server, and transport type need to configured first before you can make calls on the device.



8.2.1.SIP Account Registration

R49G guard phone supports two SIP accounts that can all be registered according to your applications. For example, you can switch between the two SIP accounts. The SIP account can be configured on the device and on the device interface. To configure the SIP account on the device, you can click on on the home screen and go to Account Manager to register the SIP account.







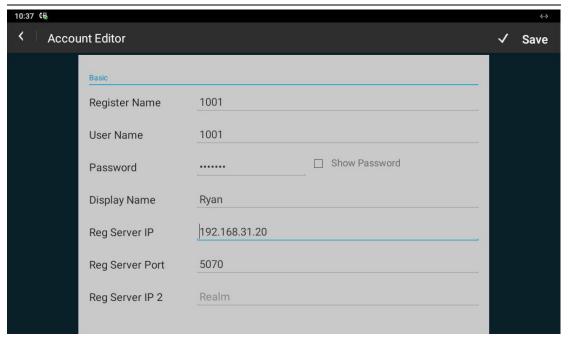
- Account: select Account1 or Account2 and switch on the two account according to your need.
- Register Name: enter the SIP account register Name obtained from the SIP account administrator.
- User Name: enter the user name obtained from SIP account administrator.
- **Password**: enter the password obtained from the SIP server.
- **Display Name**: configure the name, for example, the device's name to be shown on the device being called to.

8.2.2.SIP Server Configuration

SIP server can be set up for device in order to achieve call session through SIP server between intercom devices. SIP server can be configure on the device and on the device web interface.

> To perform the SIP account setting on the device:

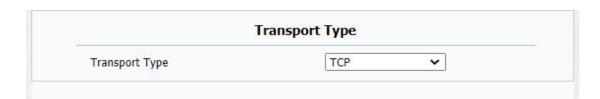
you can click on so on the home screen and go to **Account Manager** to register the SIP account.



- Reg Server IP. enter the Server's IP address number or its URL.
- Reg Server Port: set up SIP server port for data transmission.
- Reg Server IP 2: set up the back IP server.

8.3. Data Transmission Type Configuration

SIP message can be transmitted in three data transmission protocols: UDP (User Datagram Protocol), TCP(Transmission Control Protocol),TLS (Transport Layer Security) and DNS-SRV. In the meantime, you can also identify the server from which the data come from. To do this configuration on web Account > Basic > Transport Type interface.



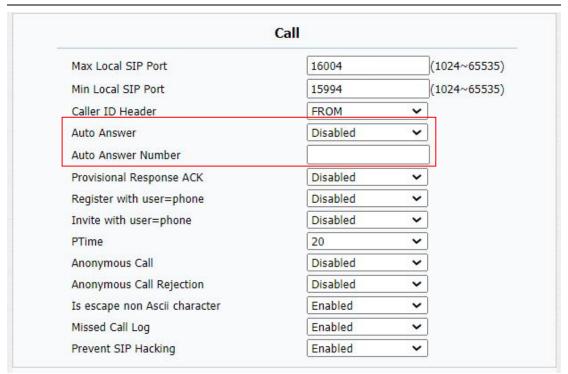


- UDP:select "UDP" for unreliable but very efficient transport layer protocol.
 UDP is the default transport protocol.
- TCP: select "TCP" for Reliable but less-efficient transport layer protocol.
- TLS: select "TLS" for Secured and Reliable transport layer protocol.
- DNS-SRV: select "DNS-SRV" to obtain DNS record for specifying the location of services. And SRV not only records the server address but also the server port. Moreover, SRV can also be used to configure the priority and the weight of the server address.

8.4. Call Setting

8.4.1.Call Auto-answer Configuration

R49G guard phone will auto answer incoming calls if call auto-answer is enabled and auto answer number is set up. To enable or disable on web **Account > Advanced > Call > Auto Answer** interface. And set up the corresponding auto answer parameters on web **Phone > Call Feature > Others** interface.





- Auto Answer (direct IP): turn on the the Auto Answer function by ticking the square box.
- Auto Answer Number: the Auto answer whitelist which means you can add some specific numbers here, the call from these numbers will be answered automatically.

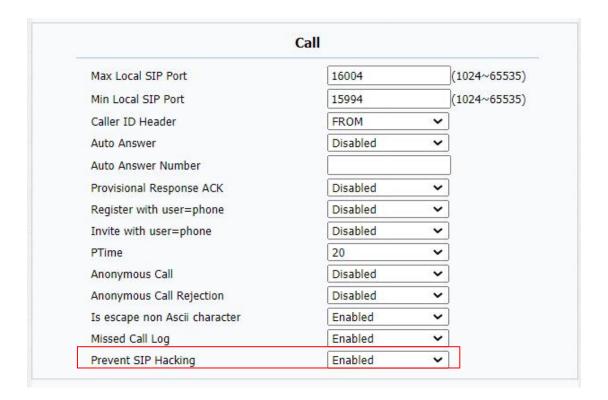
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- Answer Mode: set up the video or audio mode you preferred for answering the call automatically.
- **Auto Answer Delay:** set up the delay time (from 0-30 sec.) before the call can be answered automatically. For example, if you set the delay time as 1 second, then the call will be answered in 1 second automatically.
- Auto Answer (Direct IP): auto answer for direct IP call.

8.4.2. Enable SIP-hacking Prevention.

Internet phone eavesdropping is a kind of network attack, which aims to eavesdrop on the communication sessions of others in an unauthorized way. Attackers can use this malicious activity to capture and read content containing sensitive and confidential information. SIP hacking prevents SIP call from hacking in the Internet. To do this configuration on the web **Account > Advanced > Call** interface.



Parameters Set-up:

• Prevent SIP Hacking: enable to active this feature during using sip call.



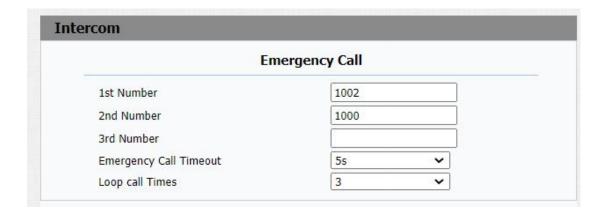
This feature is only available for SIP call, not IP call.

8.5. Emergency Call Setting

Emergency call is used to initiated emergency calls to the three pre-defined emergency contacts for the urgent help, especially for the elders and children. You can press on SOS on the home screen to initiate emergency calls (SOS number).

8.5.1.SOS Number Setting

SOS numbers need to be set up in the device web interface before you are allowed to make SOS calls. You can set up a maximum of three SOS numbers which can be initiated automatically when press on SOS on the home screen when emergency occurred. To set up SOS number, you can go to **Phone > Intercom > Emergency Call**.



- Number 1/2/3: set up three SOS numbers, which will be called to when you press SOS on the device home screen.
- Emergency Call Timout: Set up the timeout for each number. Once users
 call out, if the other side does not answer within the timeout, indoor
 monitors will continue to call the next number.

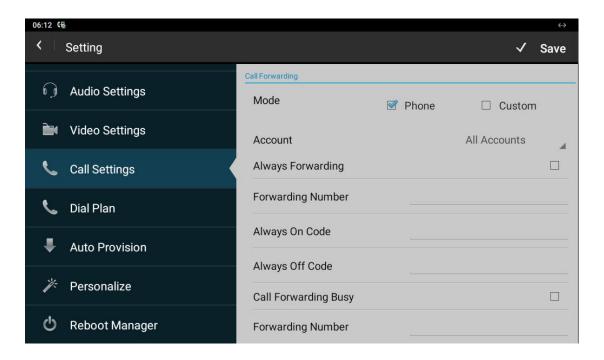


8.6. Call Forwarding Setting

Call Forward is a feature used to redirect an incoming call to the specific third party. Users can redirect the incoming call based on different scenarios. Typically, call forward has three modes: Always Forward/ No Answer Forward/Busy Forward.

8.6.1. Call Forwarding Configuration on the Device

To do the configuration on the device, click on (a) and go to Call Settings.

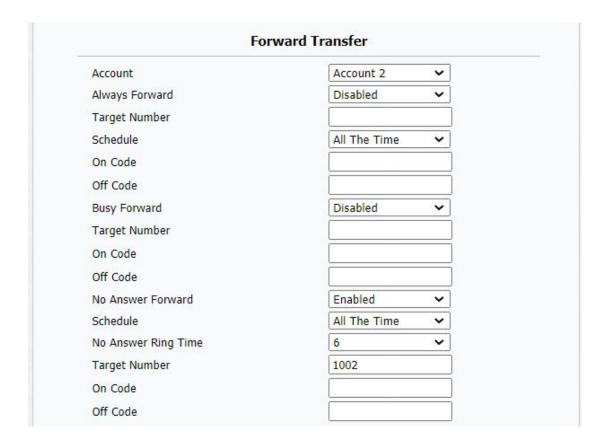


- Account: To choose which account to implement call forwarding feature.
- Always Forwarding: To enable always forwarding function; all incoming calls will be automatically forwarded to a specific number.

- Call Forward Busy: To enable busy forwarding function; incoming calls will be forwarded to a specific number if phone is busy.
- No Answer Forwarding: To enable no answer forwarding function; incoming calls will be forwarded to a specific number if phone is not picked within no answer ring time.
- **Forward Number**: To enter the specific forward number if R49 guard phone enables always forward / busy forward / no answer forward.

8.6.2. Call Forwarding Configuration on the Web Interface

To set up forward function on web **Phone > Call Feature > Forward Transfer** interface.



Parameter Set-up:

• Account: to choose which account to implement call forwarding feature.

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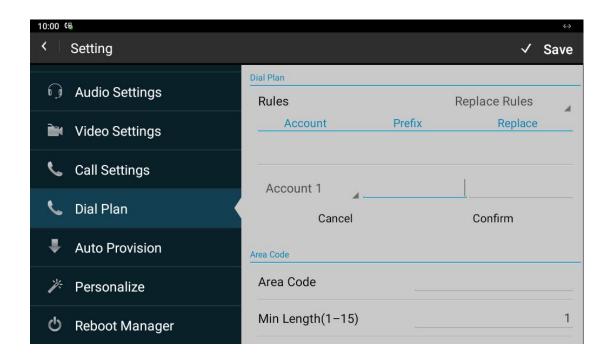
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- Always Forward: to enable always forwarding function; all incoming calls will be automatically forwarded to a specific number.
- **Busy Forward:** to enable busy forwarding function; incoming calls will be forwarded to a specific number if phone is busy.
- No Answer Forward: to enable no answer forwarding function; incoming calls will be forwarded to a specific number if phone is not picked within no answer ring time.
- Target Number: to enter the specific forward number if R49 guard phone enables always forward / busy forward / no answer forward.

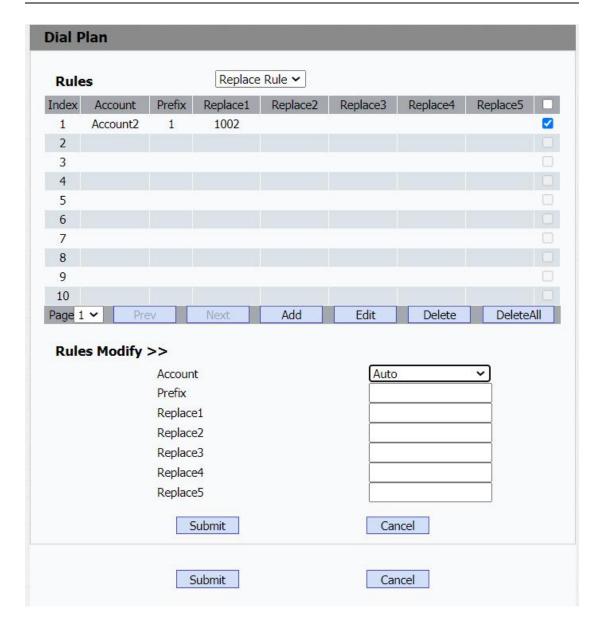
8.7. Quick Dial By Number Replacement

If you want to replace the long and complex dial number with a shorter number that can be memorized at greater ease and convenience for making calls, you can configure the dial number replacement on the device and on the device web interface. You can replace a multiple device dial numbers such as IP address with only one short number.

You can press and go to **Dial Plan on the device screen** for the configuration. As well as on the web **Phone > Dial Plan** interface.







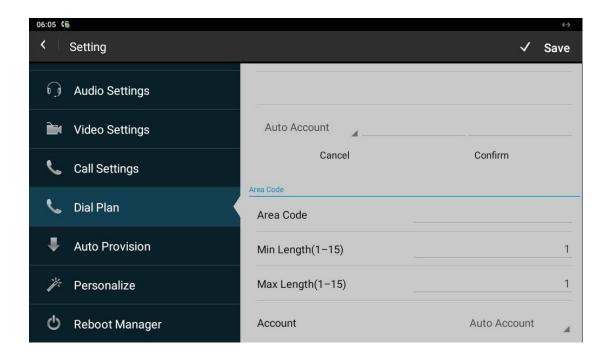
- Account: select the account to which you want to apply dial number replacement. The account is "Auto" by default (to call out from the account in which the dial number has been registered). You can select either account 1 or account 2 from which the number can be dial out. if you have registered the dial number in both Account 1 and Account 2, then the number will be called out from Account 1 by default.
- **Prefix:** enter the short number to replace the dial number you wish to replace.
- Replace: enter the dial number(s) you wish to replace. For example if you replace five original dial numbers with a common short number such as



" 101" then the five intercom devices with the dial number will be called to at the same time when you dial 101.

8.8. 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 phone will automatically prefix outgoing number with area code. You can press and go to **Dial Plan** on the device screen for the configuration.



Parameter Set-up:

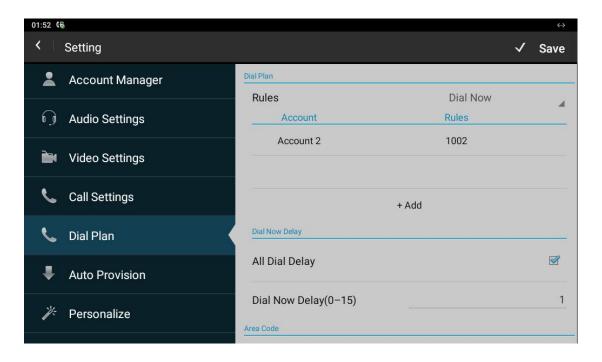
- Min Length (1-15): set the minimum length of the SIP number.
- Max Length(1-15):set the maximum length of the SIP number
- Account: select the account for which you want to apply the area code function.

8.8.1.Dial Now

Dial Now is a function that allows you to set up a number that can be

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automatically dialed out as you enter the number, without pressing the dial button. You can click on and go to **Dial Plan** and switch from **Dial plan** to **Dial now** to do the setting.

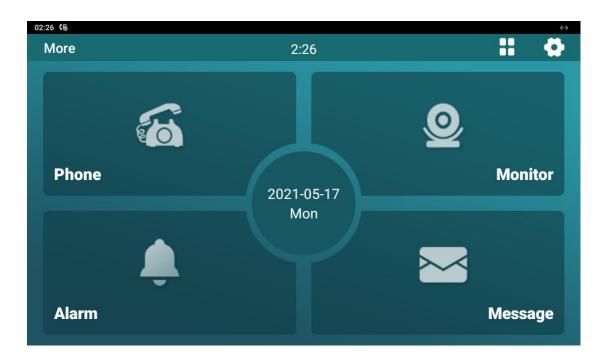


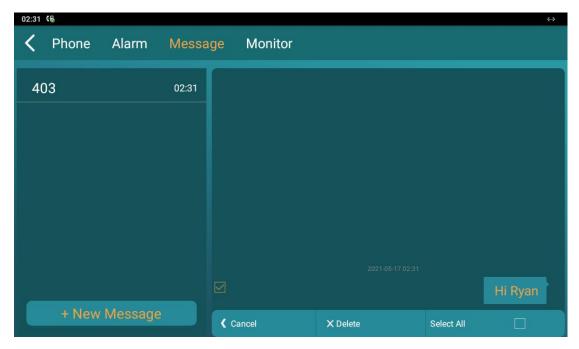
- All Dial Delay: Allow user configure dial now delay time for dial now.It
 means user can configure the IP phone to dial out the phone number
 automatically after the designated delay time if it match any dial now
 rule.
- **Dial Now Delay (0-15):** set up the delay time from 0 to 15 seconds.



9. Intercom Message

You can check, create, and clear messages as needed on the Message screen. You can press Message to create a new text message and press **Delete** to delete the existing messages.







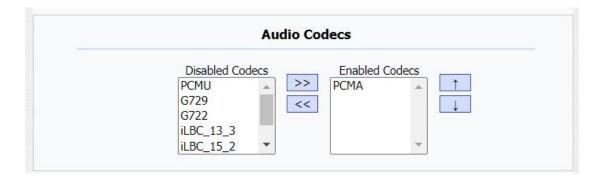
- New Message: press this icon to create a new message.
- **Delete**: press this icon to clear the messages that have been selected.
- Cancel: press Cancel for the cancellation.



10. Audio& Video Configuration

10.1. Audio Codec Configuration

Akuvox R49G supports six types of Audio Codec (iLBC_13_3, iLBC_15_2, PCMU, PCMA, G729, G722) for encoding and decoding the audio data during the call session. Each type of Audio Codec varies in terms of sound quality. You can select the specific codec with different bandwidth and sample rate flexibly according to the actual network environment. To do the configuration on web **Account > Advanced > Audio Codecs** interface.



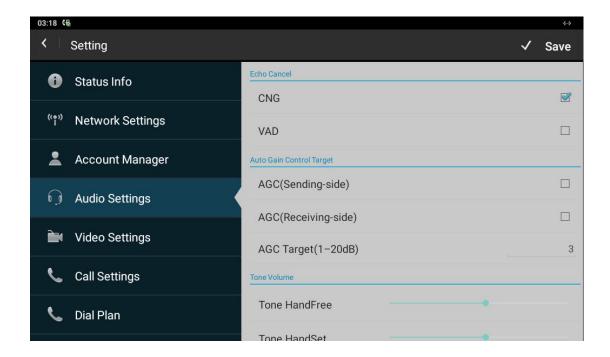
Please refer to the bandwidth consumption and sample rate for the four audio codec types below:

Codec Type	Bandwidth	Sample Rate
	Consumption	
PCMA	64 kbit/s	8kHZ
PCMU	64 kbit/s	8kHZ
G729	8 kbit/s	8kHZ
G722	64 kbit/s	16kHZ
iLBC_13_3	8,16 kbit/s	13.3kHZ
iLBC_15_2	8,16 kbit/s	15.2kHZ



10.2.CNG configuration

R49G allows you to set up CNG (Comfort Noise Generator)during the call. When CNG function is enabled you will be able to hear a comfortable noise in the moment when both side are not talking during a call. You can press and press Audio Settings, then enable the CNG.



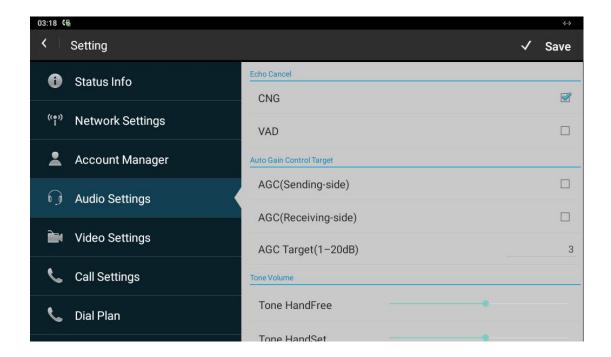
Parameter Set-up:

• CNG(Comfort Noise Generation): Allow R49G 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 (Voice Activity Detection) 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.



10.3. VAD configuration

VAD (Voice Activity Detection) is a function used for the detection of the existence of the audio signal during the call. When VAD detects a certain interval of silence during the call, then it will replace the bigger audio packets with the smaller packet of CNG packets, thus creating the CNG that you will hear while reducing the data transmission cost and bandwidth consumption. To enable VAD, you can press and go to **Audio Settings**, then enable the VAD.



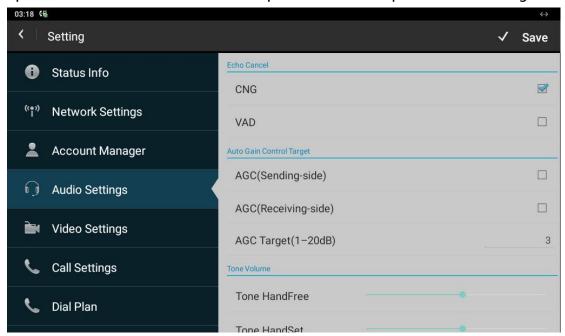
Parameter Set-up:

 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 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.



10.4.AGC configuration

AGC (Automatic Gain Control) is a function that is used for the acoustic gain control. It is used in the scenario when the smaller audio input will be amplified and compensated automatically for a larger audio volume as speaker on the other side does not speak to the microphone close enough.

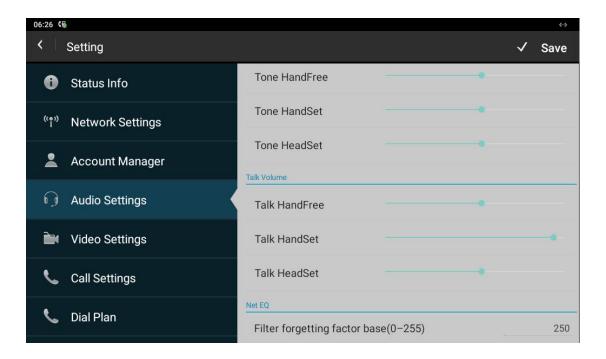


- AGC (Sending-side): enable it so that audio output can be automatically amplified before it reaches the receiver side.
- AGC(Receiving-side):enable it so that the audio input can be automatically amplified as it accept the audio output.
- AGC Target (1-20dB): fill in the audio compensation value from 1-20 dB according to your need.



10.5. Net EQ Configuration

In order to ensure the smooth audio data transmission, you are required to set the audio jitter buffer value according to the actual network jitter value. The audio data packets fall within the jitter butter range will be recovered and be resent for the smooth and continuous audio data transmission. You can press on the home screen and go to **Audio > Net EQ** for the configuration.

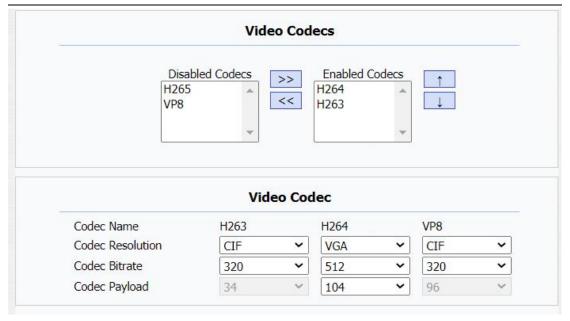


Parameter Set-up:

• Filter Forget factor base(0-255): fill in the audio jitter buffer value according to the actual network jitter value.

10.6. Video Codec Configuration for SIP calls

R49G guard phone supports four type of video codces: H265, H264, H263, VP8. you are required to set up a shared video codes between the two sides for the video data transmission and communication. And you can also set up the video codec resolution for the video quality you need. To do the configuration, you can go to **Account > Advanced > Video Codecs** on the device web interface.



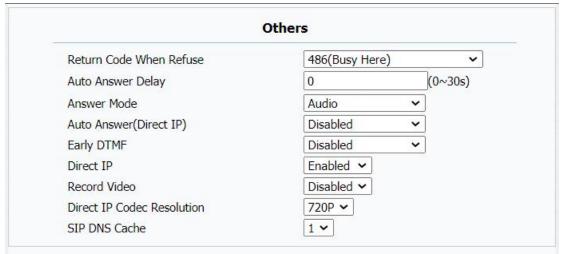
- Name: check to select the H264 video codec format for the guard phone video stream. H264 is the video codec by default.
- Codec Resolution: select the code resolution for the video quality among four options:"QCIF", "CIF", "VGA", "4CIF" and "720P" according to your actual network environment. The default code resolution is 4CIF.
- Bitrate: select the video stream bit rate (Ranging from 320-2048). The greater the bitrate, the data transmitted in every second is greater in amount therefore the video will be clearer. While the default code bitrate is 2048.
- Payload: select the payload type (ranging from 90-118) to configure audio/video configuration file. The default payload is 104.

10.7. Video Codec Configuration for IP direct calls

You can select the IP call video quality by selecting the proper codec resolution according to to your actual network condition. To do so, you can go to **Phone>Call Feature > Others**.



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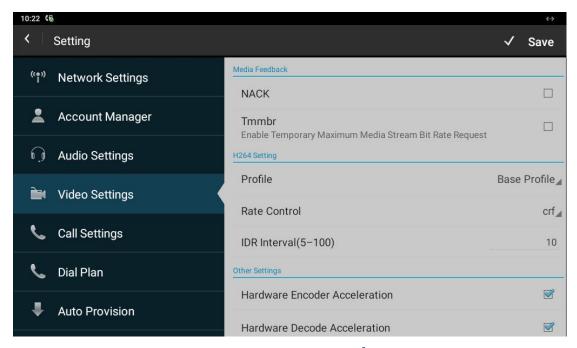


Parameter Set-up:

 Direct IP Codec Resolution: select the code resolution for the video quality among four options:"QCIF", "CIF", "VGA", "4CIF" and "720P" according to your actual network environment. The default code resolution is 4CIF.

10.8. Media Feedback

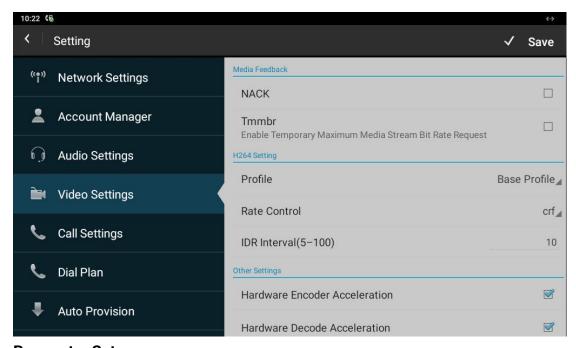
In order to ensure the smooth and continued data transmission for the video call, you are required to set both NACK(**Negative Acknowledgement**) Tmmbr (**Temporal Max Media Bitrate Request**).





- NACK: used to reinforce the data transmission during the video call. It can be used to prevent loosing data packet in the weak network environment when discontinued and mosaic video image occurred.
- Tmmbr:used to indicate the maximum bitrate that receiver can take.

10.9.H264 Setting

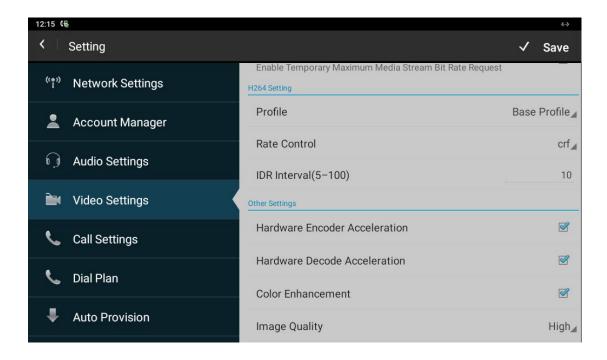


- Profile: select the video code profile level, the higher the profile is, the more complex and efficient the encoding will be. Base profile is the default setting..
- Rate Control: used to control the encoding bitrate. CRF (Choose one H264 video rate.
- IDR Intervals(5-100): IDR means Instantaneous Decoding Refresh. It is used to control the process of coding and decoding.



10.10. Other Video Parameters

You can configure other video parameters such for the video encoding acceleration, color enhancement and image quality on the device.



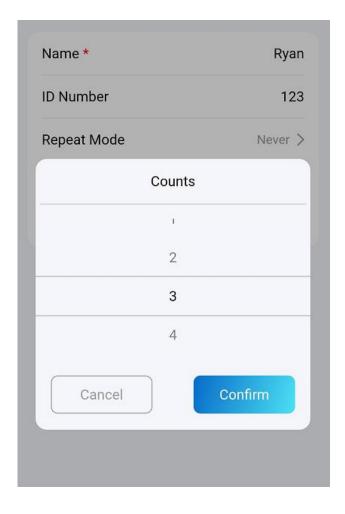
- Hardware Encode Acceleration: enable it to turn on the function to accelerate video encoding on the hardware basis
- Hardware Decode Acceleration: enable it to turn on the function to accelerate the video decoding on the hardware basis. This function is disabled by default.
- Color Enhancement: To increase the phone display color. Enabled by default.
- Image Quality: Users can select Low, Middle or High mode. When you select high, then encoded pictures will be higher in quality and vice versa.



11. Door Access control

11.1. Give Access Permission

R49G will be able to give door access permission by allowing the number of door entry when it is called by the X916 door phone, then temp key will be generated by the SmartPlus platform before its being sent to specific visitor.

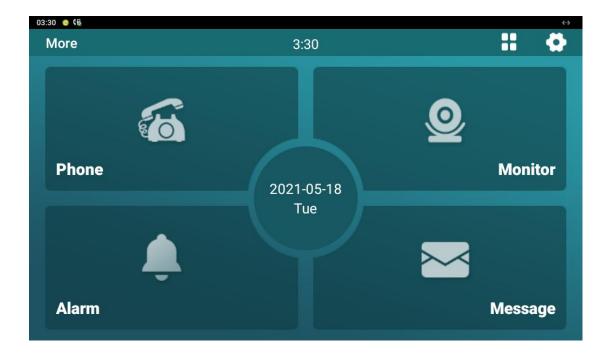


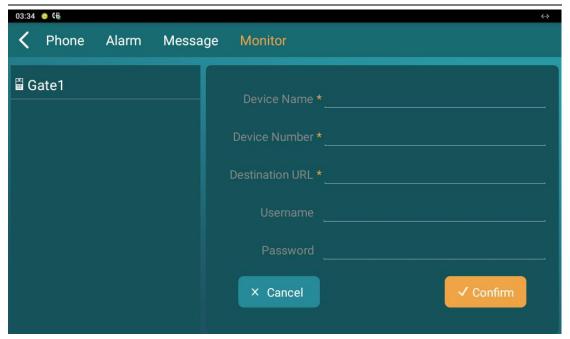


12. Security

12.1. Monitor Setting

You can configure the monitor setting on the device You can press Monitor on the home screen then set up monitor. You can enter IP/SIP number of door phone in Device number and fill in device name. Then set up the RTSP address. The RTSP format of the Akuvox door phone is rtsp://deviceIP/live/ch00_0. Enable or disable display in the call. If enabled, when there is an incoming call from the monitor, the video will be displayed.



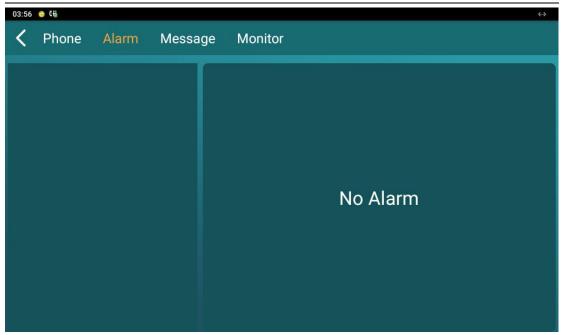


- **Device Name**: enter the name of the device to be monitored.
- **Device Number**: Enter the device number according to your need.
- **Destination URL**: enter the URL rtsp://devicelP/live/ch00_0 of the device to be monitored.
- **Username**: enter the user name of the door phone for the authentication.
- **Password**: enter the door phone authentication password.

12.2. Alarm

You can manage the alarm triggered by the indoor monitors by checking and clearing and dealing with the alarms. You can press Alarm on the device home screen.





12.3. Voice Encryption

The encryption function provides you with greater security for the intercom call. And R49G support three modes of voice encryption: SRTP(compulsory), SRTP(Optional), ZRTP(Optional) on web **Account > Advanced > Encryption** interface.



Parameter Set-up:

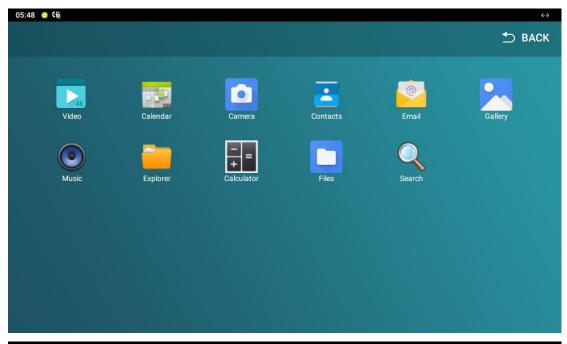
• Voice Encryption: select encryption mode from four options. If you select to Disable it, the call will not be encrypted. SRTP(Compulsory), all audio signals (technically speaking it is RTP streams) will be encrypted to improve security. SRTP(Optional), encrypts voice from the called party, if the called party also enables SRTP, the voice signals will also be encrypted. ZRTP(Optional) is the protocol that the two parties use to negotiate the SRTP session key.

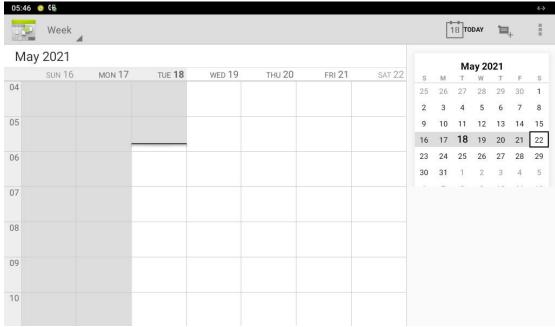


13. Application

13.1.Calendar

You can create your account and set up the events and agenda in the calender. You can press on the home screen and go to **Calender** to set up your calender.

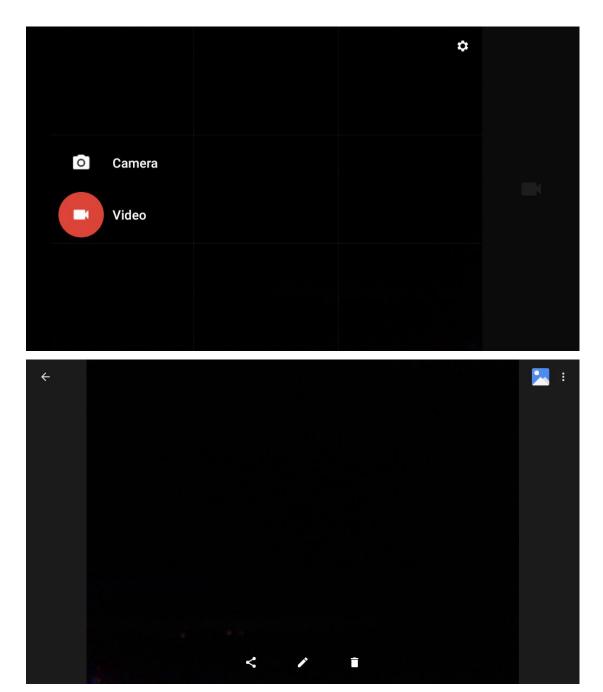






13.2.Camera

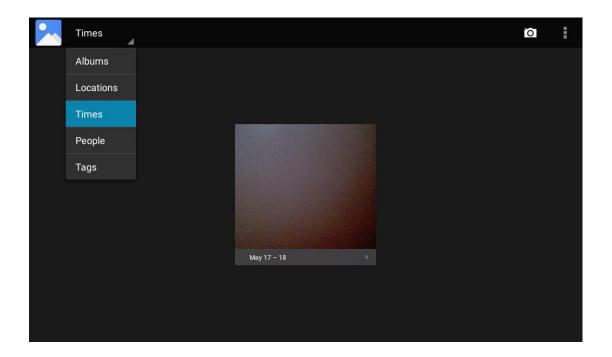
R49G has installed a camera in the front, which allows you to take pictures as need. You can press on \bigoplus on the home screen and go to **Camera** to take picture and videos as need, and you can also review, edit, delete and share the pictures and videos as needed.

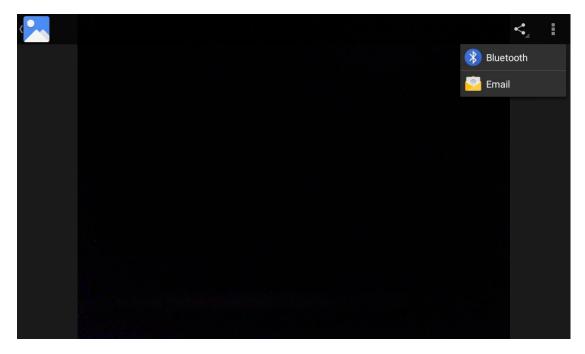




13.3.Gallery

In the **Gallery**, all the screenshots, pictures, and videos taken can be checked, edited, deleted, and shared shared. You can press on \blacksquare on the home screen and go to **Gallery** for the management.

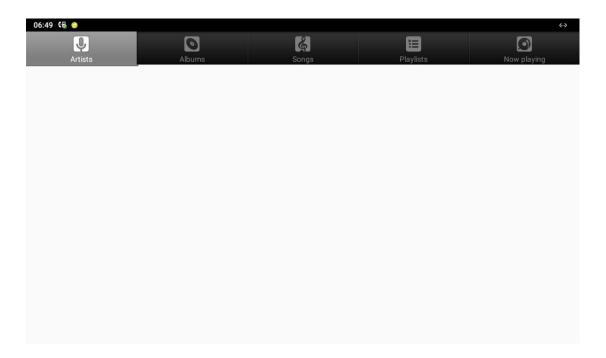






13.4. Music

R49G guard phone can also serves as a music player. You can press \blacksquare and go to **Music** and then you can play the music by Artist, Album, Songs, Playlist and check on the music being played.



13.5. Video

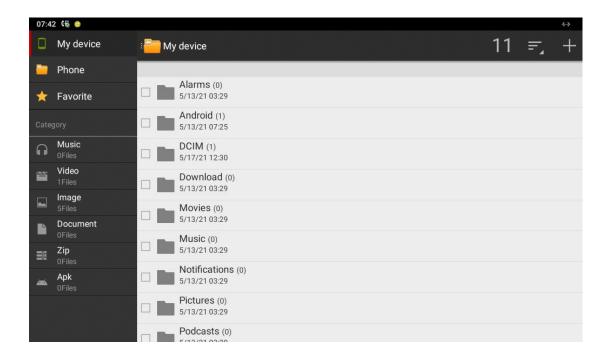
You can check, delete, and play the the video stored in your guard phone. You can press and go to **Video** to check and play the videos.





13.6.Explorer

Explorer in the R49G serves as a file manager that allows to mange all types of files stored in the device. You can search, check, sort, delete, copy, paste the files in the explorer as needed. You can press \blacksquare and go **Explorer**.





13.7. Calculator

The calculator in the device allows to do the calculation as needed while you are on the phone etc. You can press \blacksquare and go **Explorer**.



7	8	9		DEL	INV	DEG	%
4	5	6	×		sin	cos	tan
1	0				ln	log	ļ.
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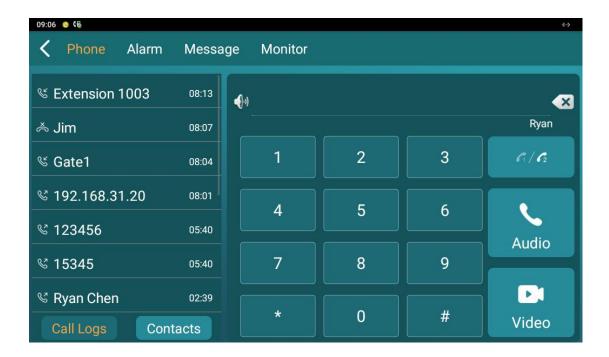


14. Call Log

If you want to check on the calls inclusive of the dial-out calls, received calls, and missed calls in a certain period of time, you can check and search the call log on the device web **Contacts > Call Logs** interface and export the call log from the device if needed.



You can check on call log on the device as well, you go to Phone>Call Logs





15. Firmware Upgrade

Firmwares of different versions for guard phone can be upgraded on the device web **Upgrade > Basic** interface.





16. Backup

Configuration files can be imported from your PC or be exported out of the device to your local PC on the device web **Upgrade > Advanced > Others** interface if needed.



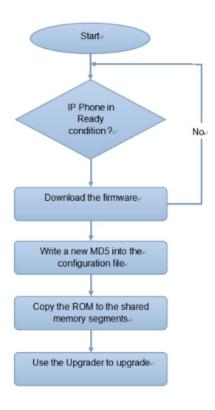
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17. Auto-provisioning

17.1. Provisioning Principle

Auto-provisioning is a feature used to configure or upgrade the devices in batch via third party servers. **DHCP**, **PNP**, **TFTP**, **FTP**, **HTTPS** are the protocols used by the R49G guard phone to access the URL of the address of the third party server which stores configuration files and firmwares, which will then be used to update the firmware and the corresponding parameters on the guard phone.





17.2.Introduction to the Configuration Files for Auto-Provisioning

Configuration files have two formats for the auto-provisioning. one is the general configuration files used for the general provisioning and other one is the MAC-based configuration provisioning.

The difference between the two types of configuration files is shown as below:

General configuration provisioning: a general file is stored in a server from which all the related devices will be able to download the same

- configuration file to update parameters on the devices. For example: cfa.
- MAC-based configuration provisioning: MAC-based configuration files is used for the auto-provisioning on a specific device as distinguished by its unique MAC number. And the configuration files named with device MAC number will be matched automatically with the device MAC number before being downloaded for the provisioning on the specific device.



Note:

 If a server has these two types of configuration files, then IP devices will first access the general configuration files before accessing the MAC-based configuration files.

17.3. Autop Schedule

Akuvox provides you with different Autop methods that enable the indoor monitor to perform provisioning for itself in a specific time according to your



schedule. To set up the schedule on device web **Upgrade > Advanced > Automatic Autop** interface.



Parameter Set-up:

- **Power On:** select "**Power on**", if you want the device to perform Autop every time it boots up.
- Repeatedly: select "Repeatedly", if you want the device to perform autop according to the schedule you set up.
- Power On + Repeatedly: select "Power On + Repeatedly" if you want to combine Power On Mode and Repeatedly mode that will enable the device to perform Autop every time it boots up or according to the schedule you set up.
- Hourly Repeat: select "Hourly Repeat" if you want the device to perform Autop every hour.

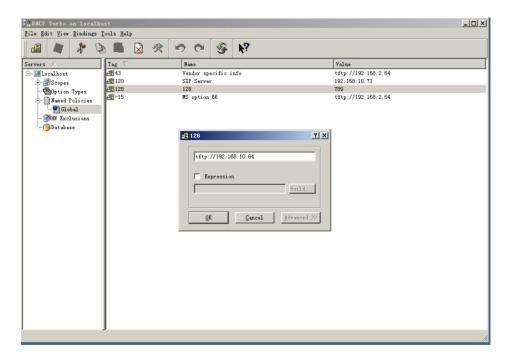
17.4.DHCP Provisioning Configuration

Auto-provisioning URL can also be obtained using DHCP option which allows device to send a request to a DHCP server for a specific DHCP option code. If you wan to use **Custom Option** as defined by users with option code range

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from 128-255), you are required to configure DHCP Custom Option on the web **Upgrade > Advanced > Automatic Autop** interface.







 The custom Option type must be a string. The value is the URL of TFTP server.

	DHCP Option
Custom Option	(128~254)
	✓ Custom Option
DHCP Option Enable	Option 43
	✓ Option 66

Parameter set-up:

- Custom Option: enter the DHCP code that matched with corresponding URL so that device will find the configuration file sever for the configuration or upgrading.
- DHCP Option 66: If none of the above is set, the device will automatically use DHCP Option 66 for getting the upgrade server URL. This is done within the software and the user does not need to specify this. To make it work, you need to configure the DHCP server for the option 66 with the update server URL in it.
- DHCP Option 43: If the device does not get an URL from DHCP Option 66, it will automatically use DHCP Option 43. This is done within the software and the user does not need to specify this. To make it work, you need to configure the DHCP server for the option 43 with the update server URL in it



Note:

 The general configuration file for the in-batch provisioning is with the format "cfg" taking R49G as an example "r000000000049.cfg (10 "zeros" in total while the MAC-based configuration file for the specific device provisioning is with the format "MAC_Address of the device.cfg, for example "OC110504AE5B.cfg."

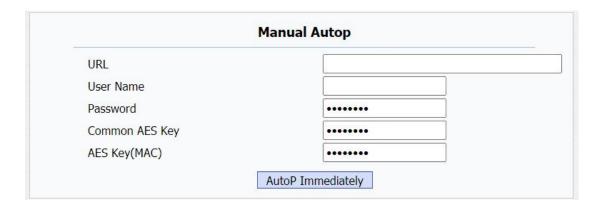
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17.5. Static Provisioning Configuration

You can manually set up a specific server URL for downloading the firmware or configuration file on device web **Upgrade > Advanced > Automatic Autop** interface. If an autop schedule is set up, the indoor monitor will perform the auto provisioning on a specific timing according to autop schedule you set up. In addition,TFTP, FTP, HTTP, and HTTPS are the protocols that can be used for upgrading the device firmware and configuration.





Parameter set-up:

- **URL**: set up tftp, http, https, ftp server address for the provisioning
- User Name: set up a user name if the server needs an user name to be accessed to otherwise leave it blank.

- Password: set up a password if the server needs a password to be accessed to otherwise leave it blank.
- Common AES Key: set up AES code for the intercom to decipher general Auto Provisioning configuration file.
- AES Key (MAC): set up AES code for the intercom to decipher the MAC-based auto provisioning configuration file.



Note:

AES is one type of encryption, it should be configured only when the config file is encrypted with AES, otherwise leave the field blank.



Note:

- Sever Address format:
 - TFTP: tftp://192.168.0.19/
 - FTP. ftp://192.168.0.19/ (allows anonymous login)
 - ftp://username:password@192.168.0.19/ (requires a user name and password)
 - HTTP. http://192.168.0.19/ (use the default port 80)
 - http://192.168.0.19:8080/ (use other ports, such as 8080)
 - HTTPS: https://192.168.0.19/ (use the default port 443)



Tip:

- Akuvox do not provide user specified server.
- Please prepare TFTP/FTP/HTTP/HTTPS server by yourself.



18. Debug

18.1. System Log for Debugging

System log in the indoor monitor can be used for debugging purpose. If you want to export the system out to a local PC or to a remote server for debugging, you can set up the function on the web **Upgrade > Advanced > System Log** interface.



Parameter Set-up:

- LogLevel: select log levels from 1 to 7 levels. You will be instructed by Akuvox technical staff about the specific log level to be entered for debugging purpose. The default log level is "3". the higher the level is, the more complete the log is.
- Export Log: click the Export tab to export temporary debug log file to a local PC.
- Export Debug Log: click the Export tab to export debug log file to a local PC.



- Remote System Log: select "Enable" or "Disable" if you wan to enable or disable the remote system log.
- Remote System Server: enter the remote server address to receive the the device And the remote server address will be provided by Akuvox technical support.

18.2.PCAP for Debugging

PCAP in R49G guard phone is used to capture the data package going in and out of the devices for debugging and troubleshooting purpose. You can set up the PCAP on the device web **Upgrade > Advanced > PCAP** interface properly before using it.



Parameter Set-up:

- PCAP: clickStart tab and Stop tab to capture the a certain range of data p
 ackets before clicking Export tab to export the data packets to you Local
 PC.
- PCAP Auto Refresh: select "Enable" or "Disable" to turn on or turn off the PCAP auto fresh function. If you set it as "Enable" then the PCAP will continue to capture data packet even after the data packets reached its 1M maximum in capacity. If you set it as "Disable" the PCAP will stop data packet capturing when the data packet captured reaches the maximum capturing capacity of 1MB.



18.3.User Agent

User agent is used for the identification purpose when you are doing analysis on the SIP data packet. To do this configuration on web **Account > Advanced** interface.





19. Password Modification

19.1. Modify Device Web Interface Password

To modify web interface password, you can do it on device web **Securtiy > Basic > Web Password Modify** interface. Select "**Admin**" for the administrator account and "**User**" for the User Account.



(!)

Note:

 There are two accounts, one is admin, its password is admin, the other is user, its password is user.

19.2. Configure Web Interface Automatic Log-out

You can set up the web interface automatic log-out timing, requiring re-login by entering the user name and the passwords for the security purpose or for the convenience of operation. You can go to **Security > Basic > Session Time Out**.



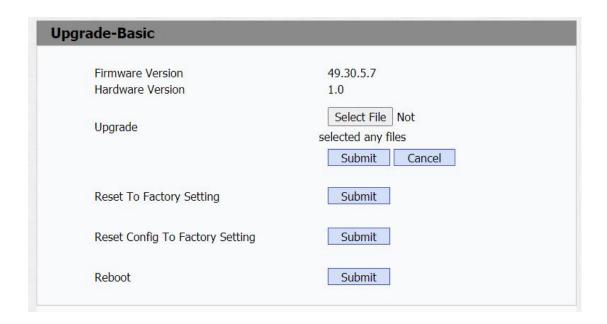
Session Time Out Value 300 (60~14400s



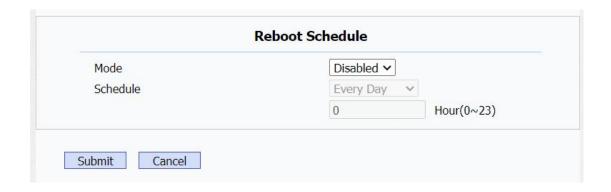
20. System Reboot&Reset

20.1.Reboot

If you want to reboot the device system, you can operate it on the device web **Upgrade > Basic** interface as well. More over, you can set up schedule for the device to be restarted.



To set up the device reboot schedule on web **Upgrade > Advanced > Reboot Schedule** interface.





20.2.Reset

Device system can be reset on device web interface and on the device.

20.2.1. Reset on the web interface

You can go to Upgrade > Basic for the configuration.

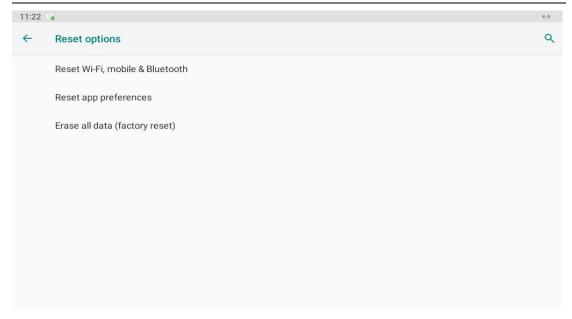


20.2.2. Reset on the device

To reboot the system setting on the device, so you can slide down your finger twice on device home screen and press on and go to system > Reset Options>Erase all data (factory reset).



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21. Abbreviations

ACS: Auto Configuration Server

Auto: Automatically

AEC: Configurable Acoustic and Line Echo Cancelers

ACD: Automatic Call Distribution

Autop: Automatical Provisioning

AES: Advanced Encryption Standard

BLF: Busy Lamp Field

COM: Common

CPE: Customer Premise Equipment

CWMP. CPE WAN Management Protocol

DTMF: Dual Tone Multi-Frequency

DHCP. Dynamic Host Configuration Protocol

DNS: Domain Name System

DND: Do Not Disturb

DNS-SRV: Service record in the Domain Name System

FTP. File Transfer Protocol

GND: Ground

HTTP: Hypertext Transfer Protocol

HTTPS: Hypertext Transfer Protocol Secure Socket Layer

IP Internet Protocol

ID: Identification

IR: Infrared

LCD: Liquid Crystal Display

LED: Light Emitting Diode

MAX: Maximum

POE: Power Over Ethernet

PCMA: Pulse Code Modulation A-Law



PCMU: Pulse Code Modulation μ-Law

PCAP: Packet Capture

PNP: Plug and Play

RFID: Radio Frequency Identification

RTP. Real-time Transport Protocol

RTSP. Real Time Streaming Protocol

MPEG: Moving Picture Experts Group

MWI: Message Waiting Indicator

NO: Normal Opened

NC: Normal Connected

NTP. Network Time Protocol

NAT: Network Address Translation

NVR: Network Video Recorder

ONVIF: Open Network Video Interface Forum

SIP. Session Initiation Protocol

SNMP. Simple Network Management Protocol

STUN: Session Traversal Utilities for NAT

SNMP. Simple Mail Transfer Protocol

SDMC: SIP Devices Management Center

TR069: Technical Report069

TCP. Transmission Control Protocol

TLS: Transport Layer Security

TFTP. Trivial File Transfer Protocol

UDP: User Datagram Protocol

URL: Uniform Resource Locator

VLAN: Virtual Local Area Network

WG: Wiegand



Q1: Do Akuvox devices support opus codec?

A1: For now, only Akuvox Android video IP phone R48G can support Opus audio codec. Door phone and indoor monitor still not supports.

Q2:What operation system is R49G?

A2:Android 9.0.

Q3:Can I install apps at Akuvox R49G?

A3:R49G is based on Android 9.0 system, You can install third party apps as your wish.

O4:Can I communicate other indoor monitor with R49G?

A4:Akuvox device can communicate with each other, no matter it is indoor monitor, door phone or ip phone. Of course indoor monitor can call to other indoor monitor, also if you want, you can set other indoor monitor as auto answer mode.



23. Contact US

For more information about the product, please visit us atwww.akuvox.com

or feel free to contact us by Sales email: sales@akuvox.com

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We highly appreciate your feedback about our products.

