Akuvox Smart Intercom

R29 Series Door Phone Admin Guide

About This Manual

Thank you for choosing Akuvox's R29 series door phone. This manual is intended for end users who need to properly configure the door phone. This manual is applicable to 29.31.1.7xx version, and it provides all functions' configurations of R29 series door phone. Please visit Akuvox forum or consult technical support for any new information or latest firmware.

Note: Please refer to universal abbreviation form in the end of manual when meet any abbreviation letter.

FCC: 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

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

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1. Product Overview

1.1. Instruction

R29 series is an Android-based IP video door phone with a touch screen. It incorporates audio and video communications, access control and video surveillance.

Its finely-tuned Android OS allows for feature customization to better suit the habit of usage of local people. R29S's multiple ports, such as RS485 and Wiegand ports, can be used to easily integrate external digital systems, such as elevator controller and fire alarm detector, helping to create a holistic control of building entrance and its surroundings and giving occupants a great sense of security.

It is applicable to multi-storey residential buildings, high-rise office buildings and their complexes.

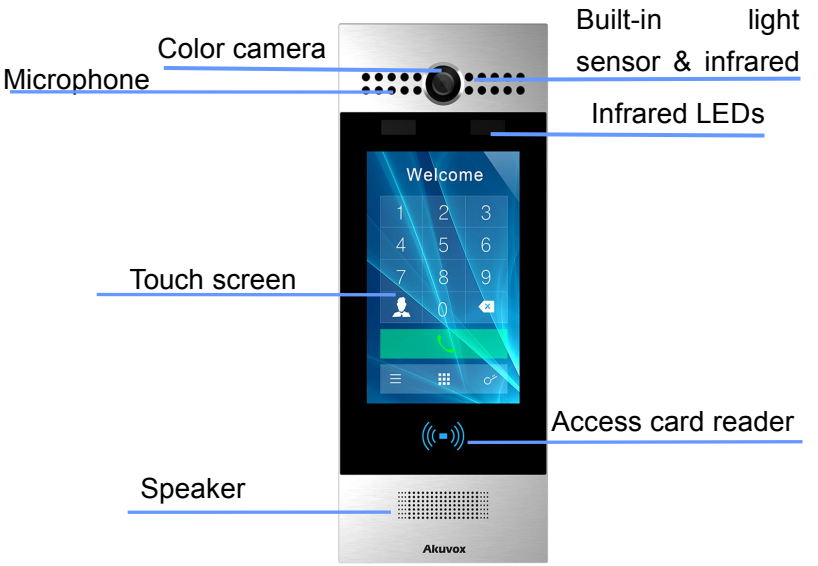

Figure 1.1 Product Description

1.2. Connector Introduction

Ethernet (POE): Ethernet (POE) connector which can provide both power and network connection.

12V/GND: External power supply terminal if POE is not available.

WG_D0/1: Wiegand terminal for wiegand access control.

RS485A/B: RS485 terminal for automation system control (e.g. Elevator control).

DOORA/B/C: Trigger signal input terminal (e.g. Press indoor button to open relay).

RelayA/B/C: NO/NC Relay control terminal.

Note: The general door phone interface diagram is only for reference.

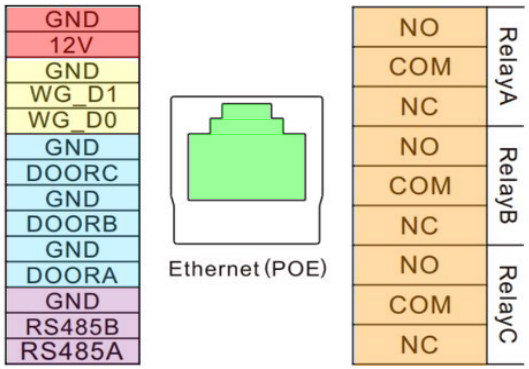

Figure 1.2-1 Connection introduction

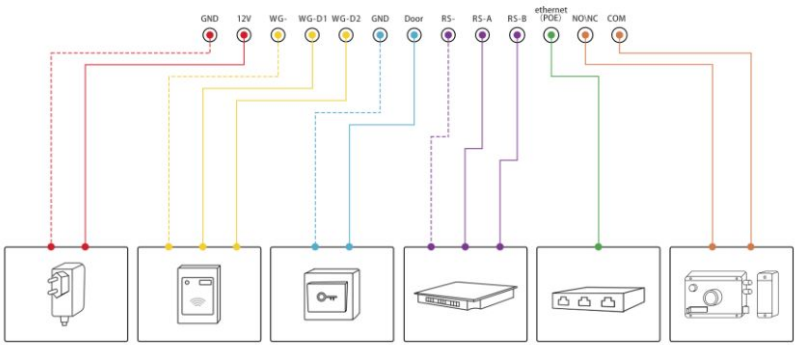

Figure 1.2-2 General interface

1.3. Warning

Please don't place R29S/F to direct sunlight, it will bring a bad effect or be broken with the high temperature.

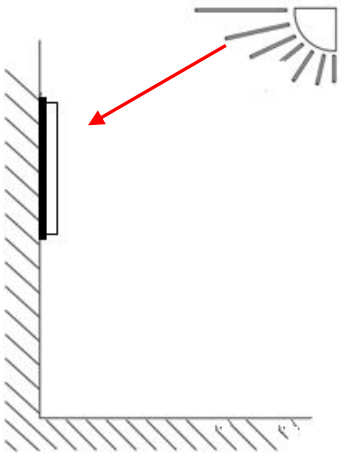

Figure 1.3 Direct sunlight diagram

2. Daily use

2.1. Starting

When booting R29X first time, users need to choose a suitable display language for device. Tap **Start** to start the selection. R29X support 4 languages, including **French, English, Spanish** and **Chinese**. Then choosing the proper display theme according to specific application scenarios. R29 supports 3 themes, including **Villa, Building** and **Office**. Tap **Skip** if users are adopting Building theme and English language. Building theme and English language by default.

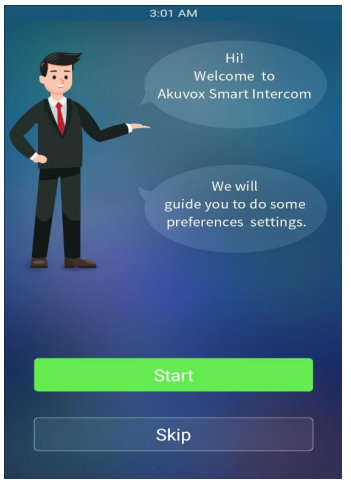

Figure 2.1.1-1 Starting

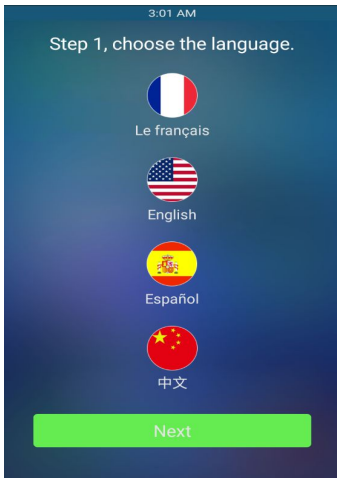

Figure 2.1.1-2 Language selection

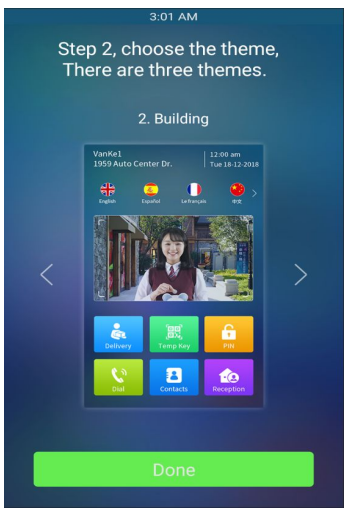

Figure 2.1.1-3 Theme seclection

2.2. Make a Call

There are three ways to make a call from the door phone to monitor units, which can be an indoor monitor or an intercom app.

2.2.1. Call From Digital Keypad

Press **Dial** (Building theme) or **Call** (Villa theme or Office theme) to enter the dial interface. Enter the number to call on the digital keypad, and press the dial icon.

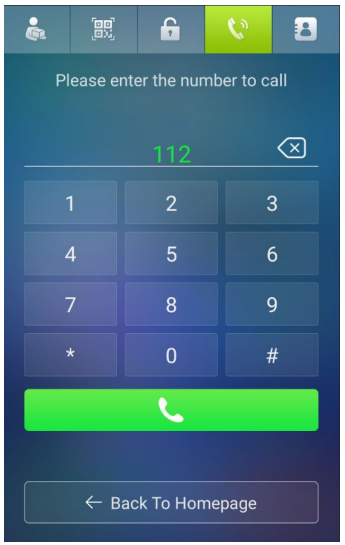

Figure 2.2.1-1 Dial interface (Building theme)

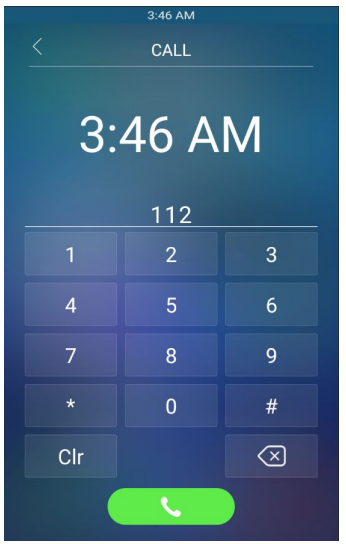

Figure 2.2.1-2 Dial interface (Villa or Office theme)

2.2.2. Call From Phonebook

Tap **Contacts** to enter the phonebook. In the phonebook interface, to find a specific occupant, scroll up or down the pre-imported contact list, which is either a room number, an occupant's name, or the combination of both. It also supports searching the list by alphabet and then clicking the dial key next to the found contact.

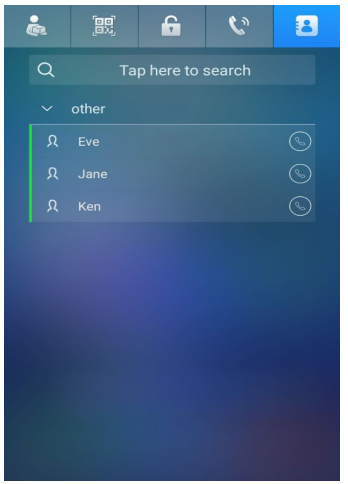

Figure 2.2.2-1 Phonebook interface (Building theme)

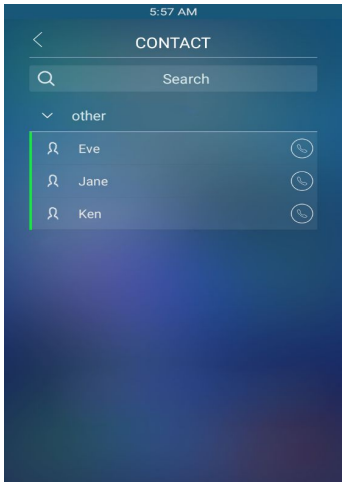

Figure 2.2.2-2 Phonebook interface (Villa theme)

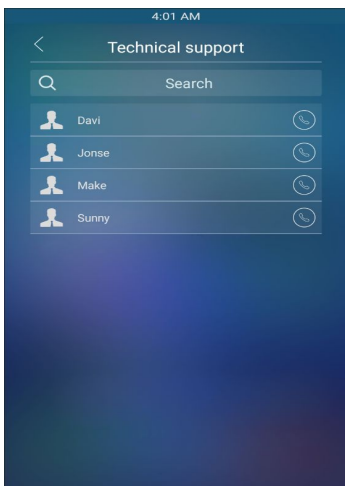

Figure 2.2.2-3 Phonebook interface (Office theme)

2.2.3. Call From Speed Dial

2.2.3.1. Building theme

Press **Reception** to make the call directly.

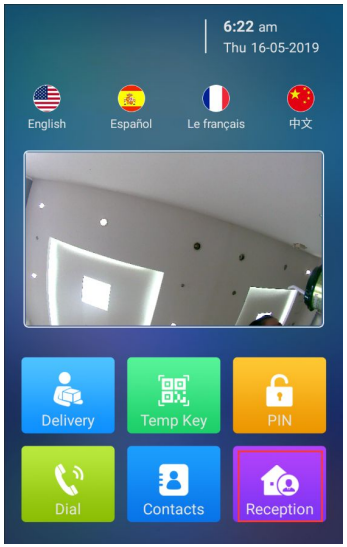

Figure 2.2.3.1 Reception

2.2.3.2. Villa theme or Office theme

Press **Call** to enter the call interface, choose a speed dial number that users want to call directly.

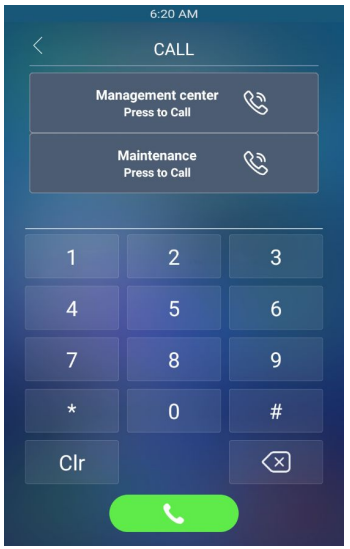

Figure 2.2.3.3 Speed dial

2.3. Receive a Call

When a monitor unit calls the door phone, it will auto answer the incoming call by default. There is no need to press any answer key.

2.4. Unlock

2.4.1. Unlock by Pin Codes

Unlock the door by using predefined public pin or private pin. Press **PIN** icon to enter the PIN code interface, enter the “pin code” and press **Confirm** icon to unlock, then you will hear “Welcome, please coming” and the screen will show “Opening door succeeded”. If users input the wrong pin code, the screen will shows “Invalid password”.

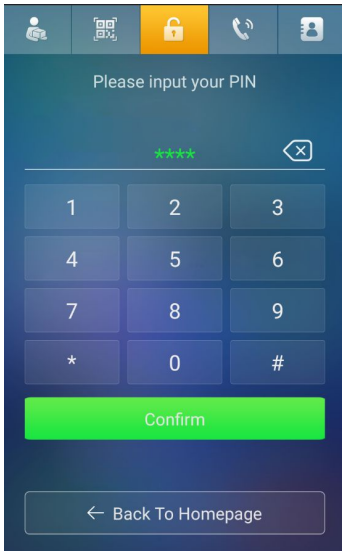

Figure 2.4.1-1 Unlock by pin code (Building theme)

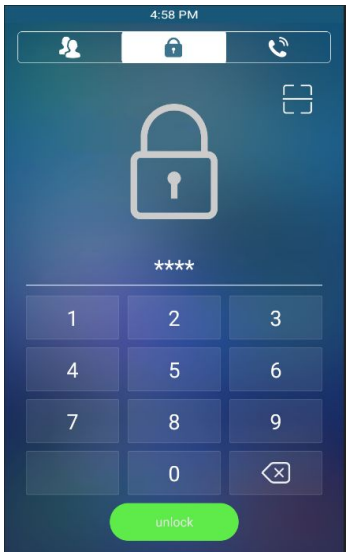

Figure 2.4.1-2 Unlock by pin code (Villa or Office theme)

2.4.2. Unlock by Face

Unlock the door by using predefined face. On the main interface(Building theme) or enter the “Password”(Villa or office theme) interface, close your face to the camera. You will hear “Welcome, please coming” and screen will show “Opening door succeeded”.

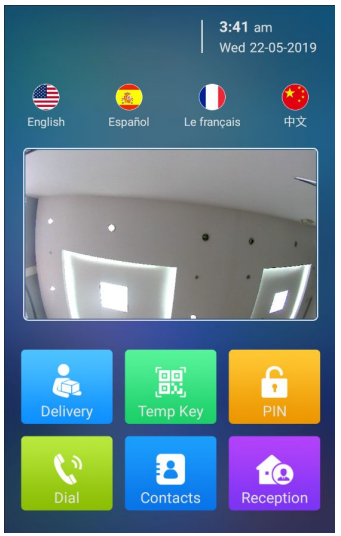

Figure 2.4.2-1 Unlock by face (Building theme)

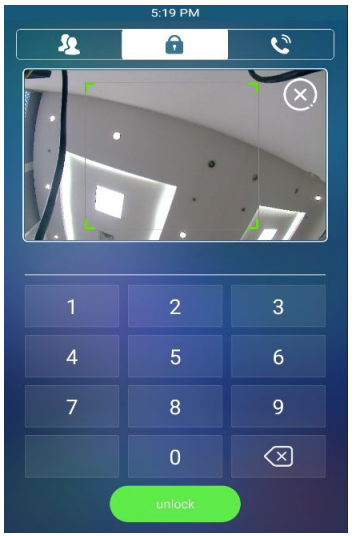

Figure 2.4.2-2 Unlock by face (Villa or Office theme)

2.4.3. Unlock by RFID cards

Place the predefined users card in RFID cards reader to unlock. Under normal conditions, the phone will announce “ Welcome, please coming ” and the screen will show “Opening door succeeded”. If the card has not been registered, the phone will show “Invalid password”.

2.4.4. Unlock by DTMF codes

During the calling, the president can press the predefined DTMF codes to remote unlock the door.

3. Basic Features

3.1. Access the system setting

In the Dial interface, press “**9999**", “**Dial key**”, "**3888**”, “**OK**” to enter the system setting. System setting is easy to configure most basic phone functions.

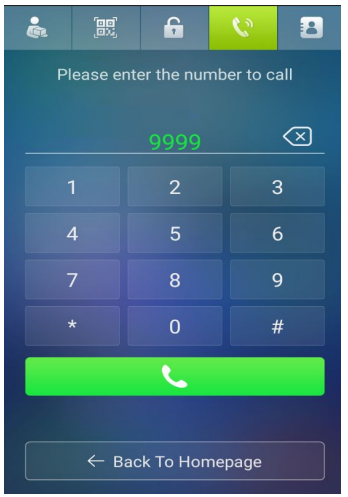

Figure 3.1-1 Access the system setting (Building theme)

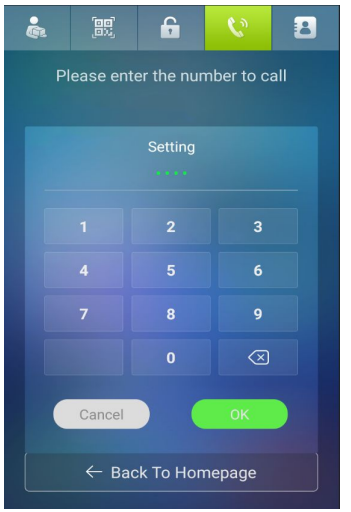

Figure 3.1-2 Access the system setting (Building theme)

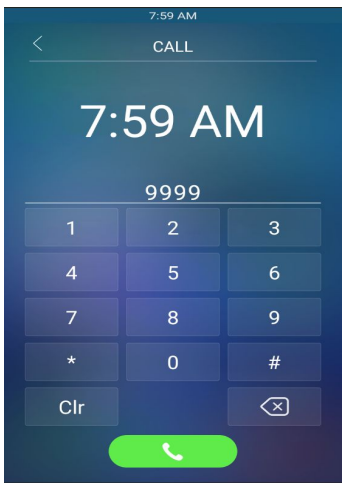

Figure 3.1-3 Access the system setting (Villa or office theme)

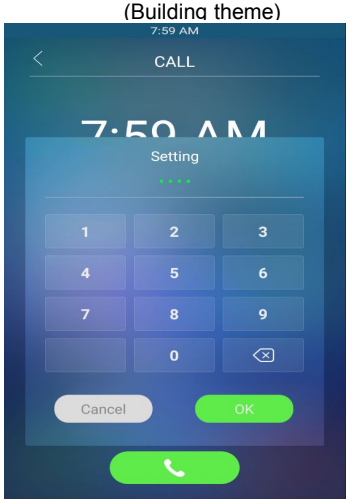

Figure 3.1-4 Access the system setting (Villa or office theme)

3.2. Access the website setting

3.2.1. Obtain IP Address

R29 series use DHCP IP by default. Enter the phone interface and go to **Info** to check the IP address.

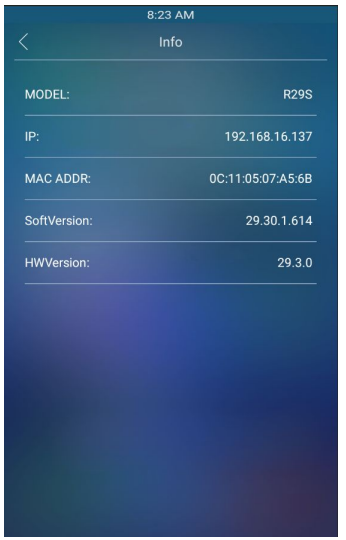

Figure 3.2.1 Info

3.2.2. Access the Device Website

Open a web browser, and access the corresponding IP address. Enter the default user name and password to login. The default administrator's user name and password are shown below:

User Name: **admin**

Password: **admin**

Note: The recommended browser is Google Chrome.

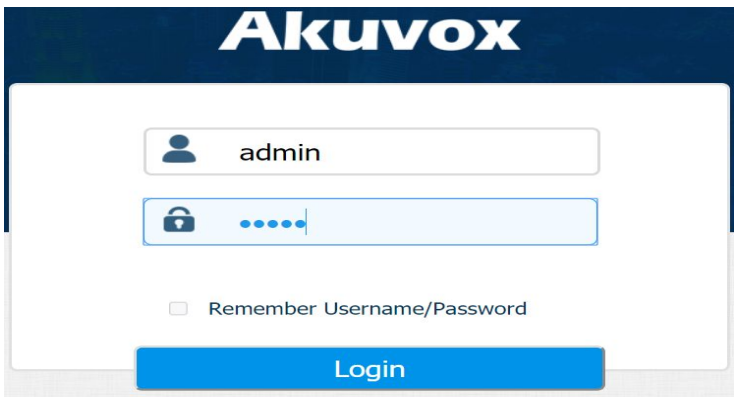

Figure 3.2.2 Access the device website

3.3. Password Modification

3.3.1. Modify the Phone System Password

Users can configure project key with this function. The public key is a password used by all occupants in a building. Project key is used by administrators for some basic settings. There are two ways to change the system password, which can be done on the phone system and on the intercom website.

In the phone interface, go to the **Password** - **Project Passwd** to change the project key passwd.

Project Passwd: Enter the 4 digits old project key, the default project key is “9999". Then enter the 4 digits new passwd, after entering the new passwd confirm, click **save** icon .

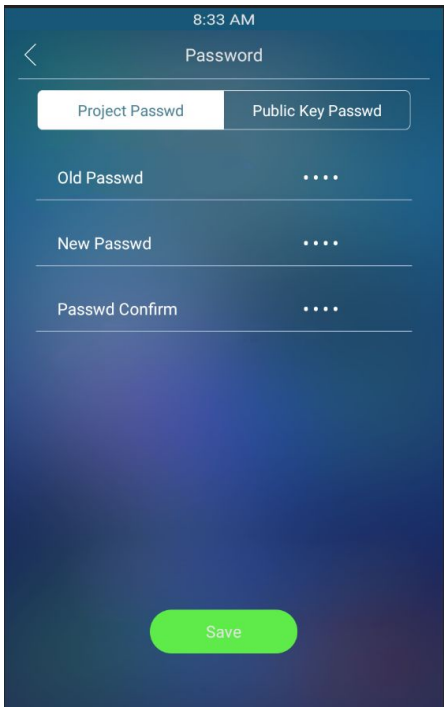

Figure 3.3.1-1 Modify the system password

In the website, go to the path **Intercom** - **Basic** - **Password** to configure.

Figure 3.3.1-2 Modify the system password

3.3.2. Modify the Web Password

Login to the website and go to the path **Security** - **Basic**, to modify password for “admin” or “user” account.

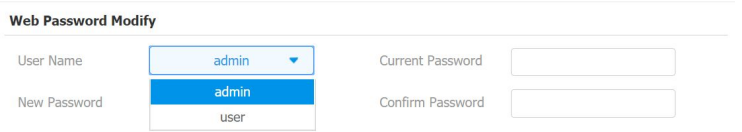

Figure 3.3.2 Modify the web password

3.4. Phone configuration

3.4.1. Language

3.4.1.1. Modify the phone language

In the phone interface, go to **Language** to configure. Now R29 series can support multiple phone language. Users can choose manually. Akuvox uses English by default.

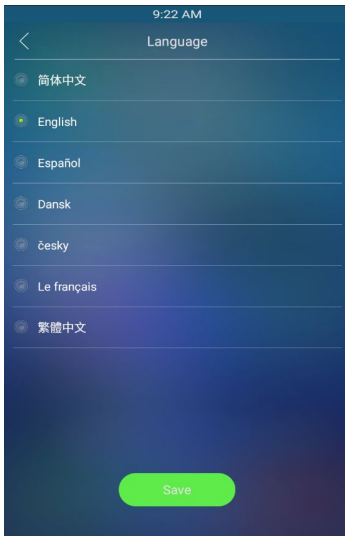

Figure 3.4.1.1-1 Configure phone language

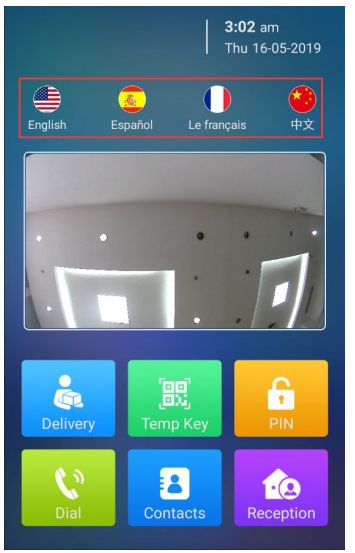

Figure 3.4.1.1-2 Configure phone language (Building theme)

On the building theme, support users to select languages on the main interface. Login to the website and go to the path **Phone** -

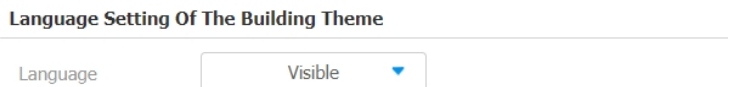

Figure 3.4.1.1-3 Configure phone language (Building theme)

Key/Display - **Language Setting Of The Building Theme** to configure the display language bar. Users can choose the phone language directly from the main interface.

Users can also modify the phone language on the portal **Phone** - **Time/Lang** - **LCD Language**.

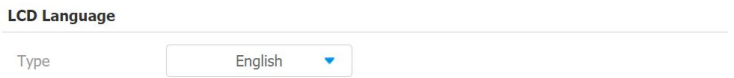

Figure 3.4.1.1-4 Configure Web Language

3.4.1.2. Modify the web language

Enter the intercom website and go to the path **Phone** - **Time/lang** - **Web Language** to configure. Now R29 series can support multiple web language. Users can choose manually. Akuvox uses English by default.

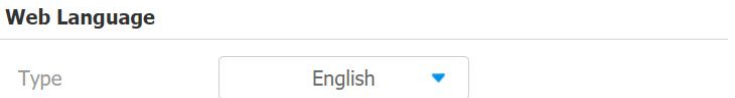

Figure 3.4.1.2 Configure Web Language

3.4.2. Time

In the phone interface, go to **Time** to configure**.** Choose automatic date & time setting for automatic access of time, date and time zone. Or set the time, date and time zone manually.

Users can also set the time zone configuration on the device portal **Phone** - **Time/Lang**.

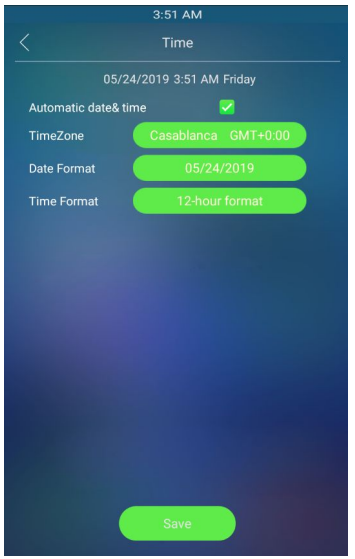

Figure 3.4.2-1 Time

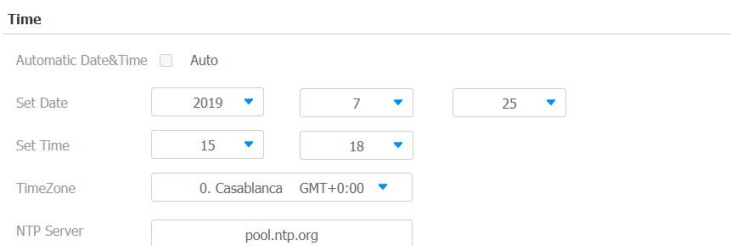

Figure 3.4.2-2 Time

3.4.3. Network

In the phone interface, go to **Address** or login to the website and go to the path **Network** - **Basic**, dynamically or statically to obtain address.

3.4.3.1. DHCP Mode

R29 series uses DHCP mode by default which will get IP address, subnet mask, default gateway and DNS server address from DHCP server automatically.

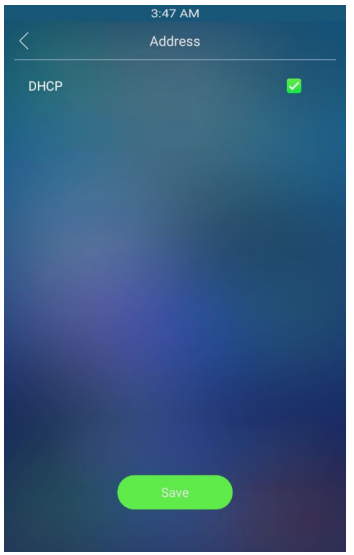

Figure 3.4.3.1-1 DHCP mode

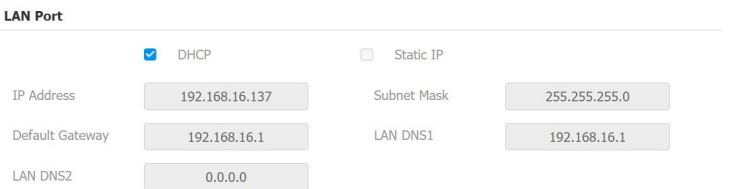

Figure 3.4.3.1-2 DHCP mode

3.4.3.2. Static Mode

If select static IP, users should manually setup IP address, subnet mask, default gateway and DNS server address. The figure right shows static IP setting.

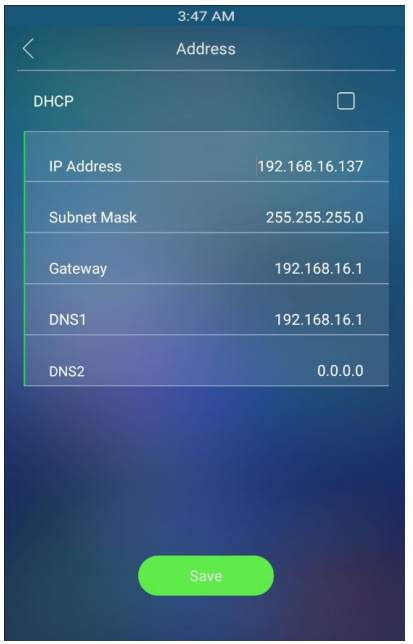

Figure 3.4.3.2-1 Static mode

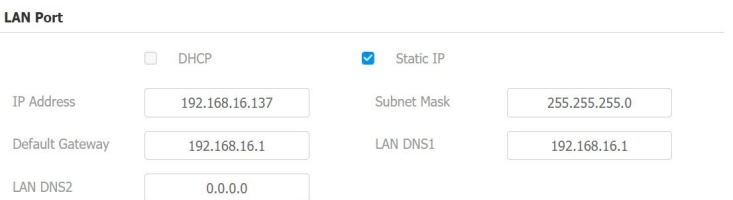

Figure 3.4.3.2-2 Static mode

3.4.3.3. Local RTP

Go to **Network** - **Advanced** to configure.

Local RTP: To display and configure local RTP settings.

Starting RTP Port: Determine the minimum port that RTP stream can use.

Max RTP Port: Determine the maximum port that RTP stream can use.

Figure 3.4.3.3. Local RTP

3.4.3.4. Connect Setting

Go to **Network** - **Advanced** to configure.

Connect Type: Display the device connection type, there are three modes, Discovery, SDMC, Cloud.

Discovery: Enable or disable the discovery mode.

Device Address: It will show which node the device is bound.

Device Extension: Use extension number to distinguish the multiple devices in the same node.

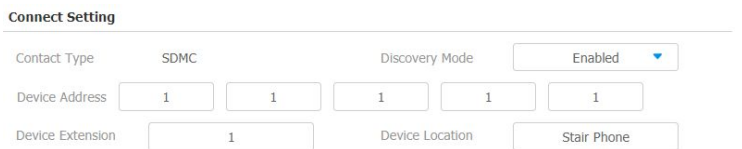

Figure 3.4.3.4 Connect setting

Device Location: Used to identify the device location, which will also serve as the device display name

3.4.3.5. WIFI (optional)

Only R29C can support wifi feature. In the phone interface, go to **WIFI** page to enable the the WLAN. then choosing a suitable AP ,enter the AP password, click Connect to confirm.

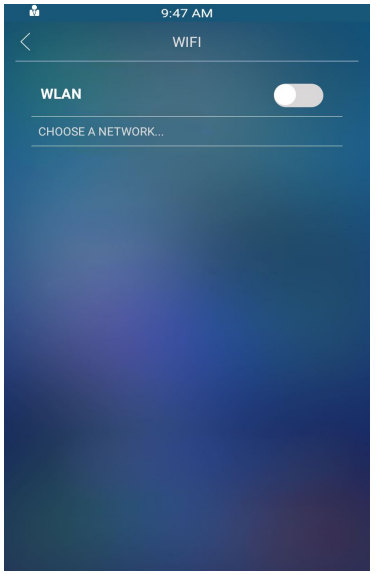

Figure 3.4.3.5 wifi

3.4.4. Display

3.4.4.1. Await

In the phone interface, go to **Await** or login to the website and go to the path **Intercom** - **Advanced** - **StandBy**, to set the standby mode, standby time and unlock mode.

Standby Mode: There are three options for the standby mode. 'NO' mode is for the door phone's default dial interface to remain

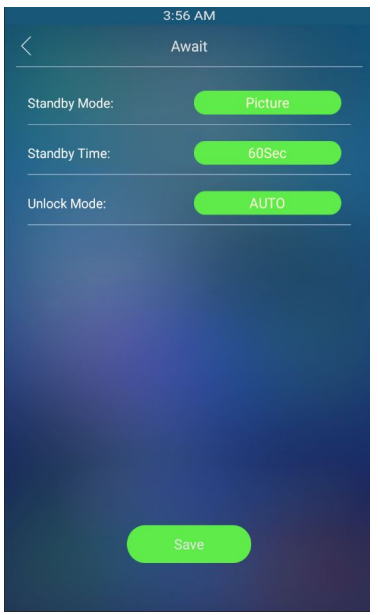

Figure 3.4.4.1-1 Await

permanently on; “Blank” mode screen is a black screen during standby; and “Picture” mode is a chosen screensaver of your like, which can be imported in bulk by the administrator.

Standby Time: Users can set the standby time from 30 Sec to 180 Sec.

Unlocked Mode: To choose how to wake up the door phone from the standby mode.

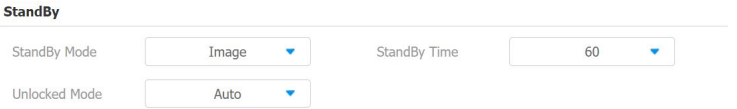

Figure 3.4.4.1-2 StandBy

3.4.4.2. Upload ScreenSaver

In the website and go to the path **Phone** - **Import/Export** - **Upload screensaver** to configure. To upload screen saver and set the corresponding interval time and the priority. It will be displayed on screen when R29 series stand by type as picture. Up to 5 different screen savers can be supported. These pictures will scroll to display. The format must be .jpg. If the interval time is 0, it won’t be displayed.

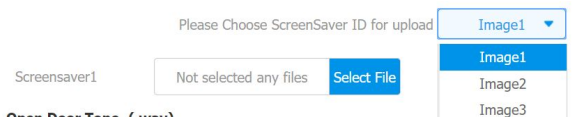

Figure 3.4.4.2-1 Upload ScreenSaver

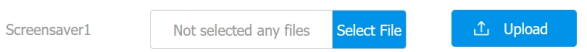

Figure 3.4.4.2-2 Upload ScreenSaver

If users need to upload many pictures, please choose the ID order

of the picture. For example, users need to upload the first picture as ID 1 which will be first screensaver to display, users will choose Image 1. Then users will upload the second one, users need to choose Image 2 and so on.

Screensaver1: To choose the favorite image, and upload it (the most suitable image size is 1280*800).

After uploading, the pictures will be in the list. Then users need to manually setup the Interval time which means how long the image will display then change to next screensaver. Interval range from 5s to 120s. Click the **Submit** to save each one. Click **Delete** to remove the picture.

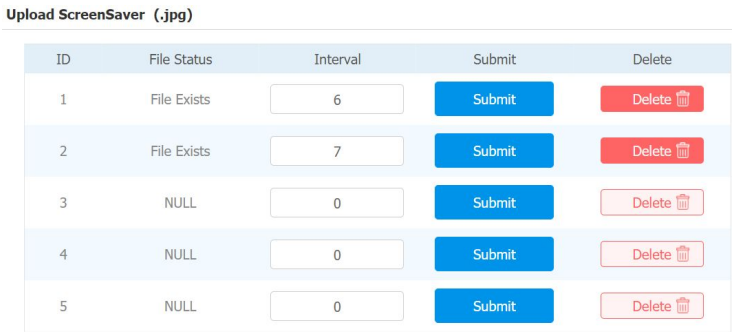

Figure 3.4.4.2-3 Upload ScreenSaver

3.4.4.3. Theme selection

Go to the path **Intercom** - **Key/Display**. To choose the device display theme, which supports Villa, Building and Office.

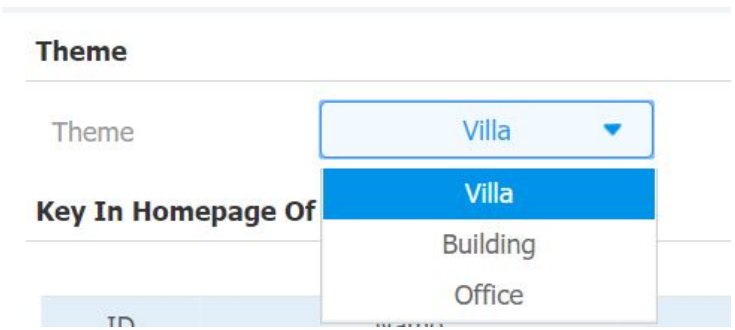

Figure 3.4.4.3 Theme selection

3.4.4.4. Door Setting General

In the website and go to the path **Intercom** - **Basic** - **Door Setting General** to configure.

DialPad Input Number Limit: To limit the input numbers to prevent unnecessary security problems.

Figure 3.4.4.4 Dialpad input number limit

3.4.4.5. Home View Visible Control (Villa theme)

In the website and go to the path **Intercom** - **Key/Display** - **View Visible of The Villa Theme** to configure.

Users can setup the home page's default display interface, whether the home page-dial interface, contact interface, unlock interface is visible. For example, if users enable dialview, users will only see dialing interface , the other two will be hided.

Display Type: Setup the home page's default display interface. There are four types can be choice "Homepage", "Dial", "Contact", "Password".

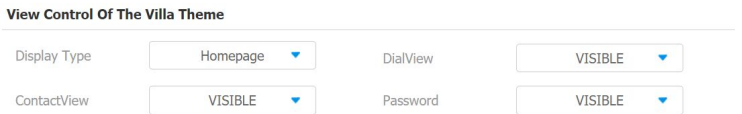

Figure 3.4.4.4.5-1 How view visible control

3.4.4.6. Key In Homepage of The Building Theme

On the device homepage of the building theme, six icon are displayed. Users can configure their type on the website, go to **Intercom** - **Key/Display.** Users can customize the feature of the icon.

Name: To customize the icon display name;

Type: Select the function available for the icon on the device homepage. “NULL” means that the icon is not displayed.

Value: To fill in corresponding parameters for some types. Currently, only the “Speed Dial” type need to fill in value. In general, the value is an IP or SIP account.

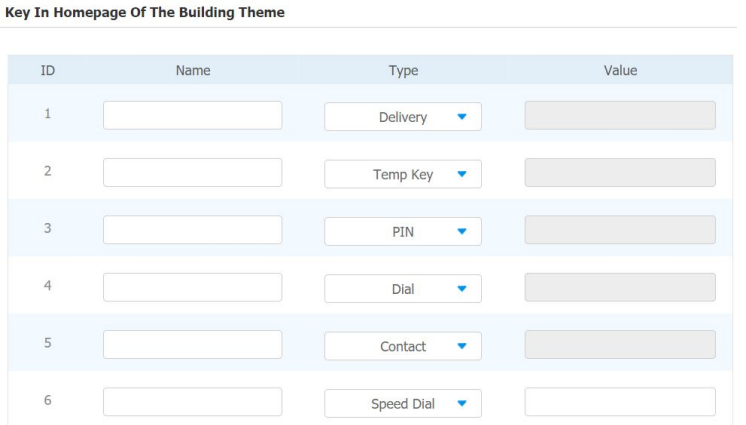

Figure 3.4.4.4.6-1 Key in homepage

3.4.5. Volume

3.4.5.1. Volume related in device

In the phone interface, go to **Volume**, to configure the call volume, AD volume and key volume.

Call Volume: When R29 series dials out a call, it will prompt the 'du' sound. To configure the call volume by yourself.

AD Volume: When the door is opened, the phone will announce the opendoor tone. To configure the AD volume by yourself.

Key Volume: When touch the screen, that will be a prompt sound.To configure the key volume by yourself.

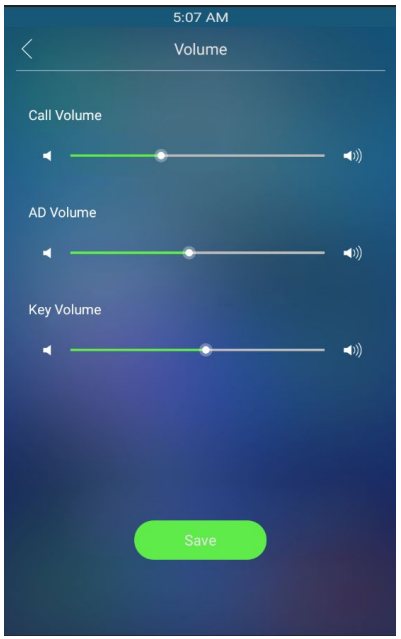

Figure 3.4.5.1 Phone volume

3.4.5.2. Call volume in website

Also users can modify the other voice settings in the website.

Call Volume: Login to the website and go to the path **Phone** - **Call Feature** - **Others** to show the volume adjustment in talking

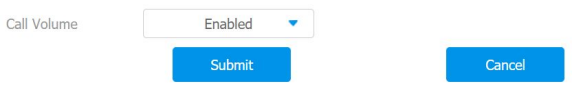

Figure 3.4.5.2 Call volume

interface.

3.4.5.3. Mic volume in website

Figure 3.4.5.3 Mic volume

Mic Volume: Login to the website and go to the path **Phone** - **Voice**, to configure Mic volume.

3.4.5.4. Open door tone

Figure 3.4.5.4-1 Open door warning

Open Door Tone: Users can also go to the path **Intercom** - **Door Setting General** to configure the switch whether users will hear the “Welcome! Please coming” announcement.when the door is opened.

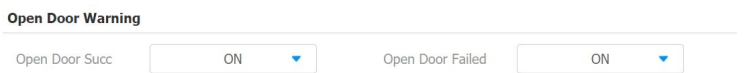

Figure 3.4.5.4-2 Open door warning

Open Door Warning: On the portal **Intercom** - **Advanced** - **Open Door Warning**, configure whether to enable open door success or failure warning.

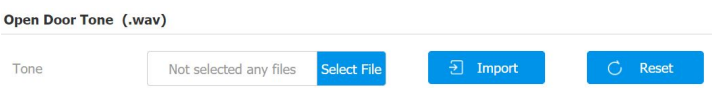

Figure 3.4.5-6 Upload the open the door tone

Open Door Tone: Login to the website and go to the path **Phone** - **Import/Export** - **Open Door Tone** to upload the open door tone by

yourself.

3.4.6. DND

DND allows IP phones to ignore any incoming calls. Users can login to the website and go to **Phone** - **Call Feature** to configure.

Return Code when DND: Determine what response code should be sent back to server when there is an incoming call if DND on.

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 user press DND when DND is off.

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 user press DND when DND is on.

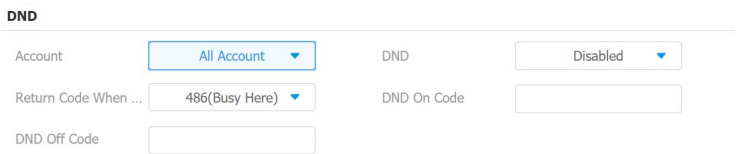

Figure 3.4.6 DND

3.5. Phonebook

3.5.1. Phonebook in devices

In the phone interface, go to **Contact** to configure the phonebook.

Create a group: Choose group, click **Add** to enter the new group name. Press **Save** to save.

Edit a group: Choose the existed group to modify or delete.

Create a contact: Click **Add** to enter the contact's information. Choose a suitable Group and contact's name and Phone number, press **Save** to save.

Edit a contact: Choose a exist contact to edit or delete it.

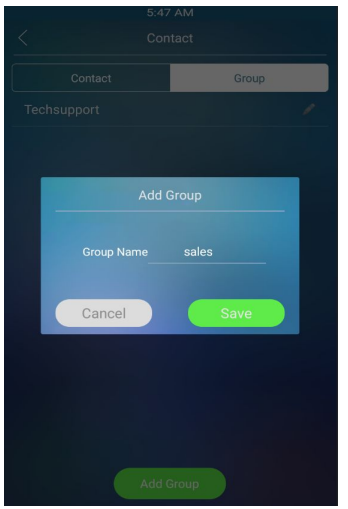

Figure 3.5.1-1 Adding group

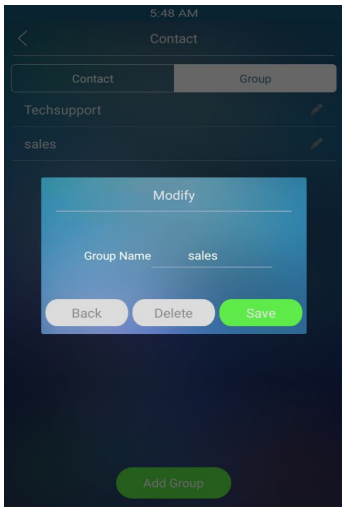

Figure 3.5.1-2 Editing group

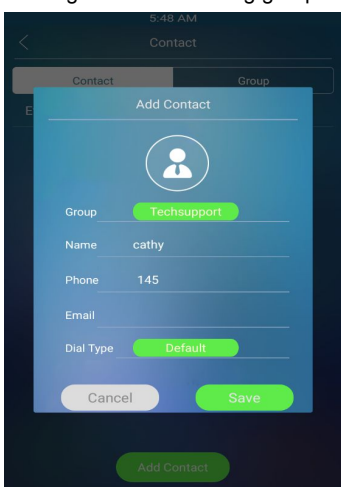

Figure 3.5.1-3 Adding contact

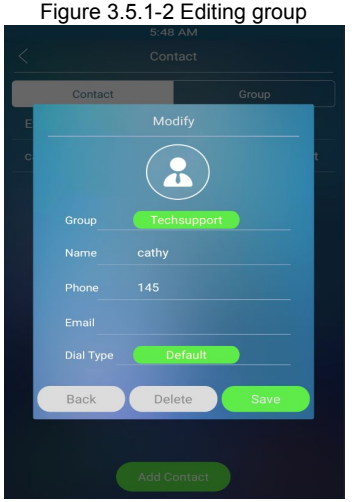

Figure 3.5.1-4 Editing contact

3.5.2. Phonebook in website

In the website, go to the path **Phonebook - Local Book** to configure the phonebook.

Contact: To display or edit all local contacts.

Search: Enter the key word to search designated contacts from local phonebook.

Contact Setting: Choose a suitable contact picture, then import (optional);Enter the corresponding contact name and phone number; Click **Add** to save.

Note: The photo only supports .jpg format.

Group: To check all group in the list or choose one to delete.

Group Setting: Enter the new group name, click **Submit** to save;

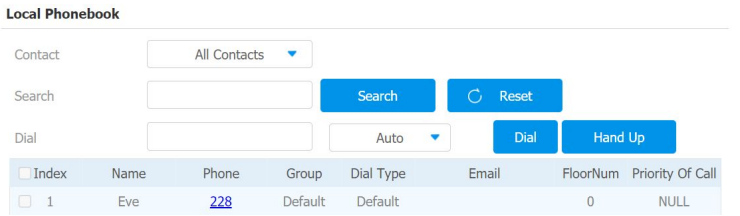

Figure 3.5-5 Phonebook

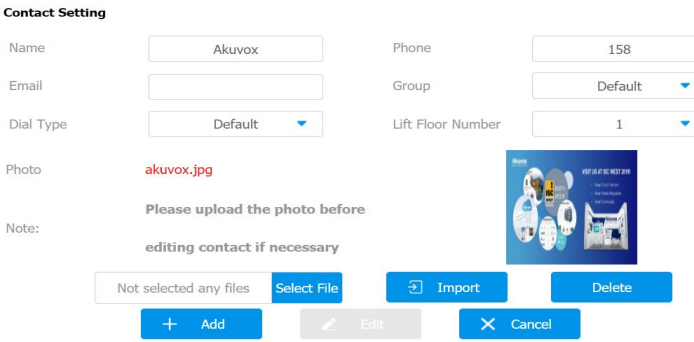

Figure 3.5-6 Contact setting

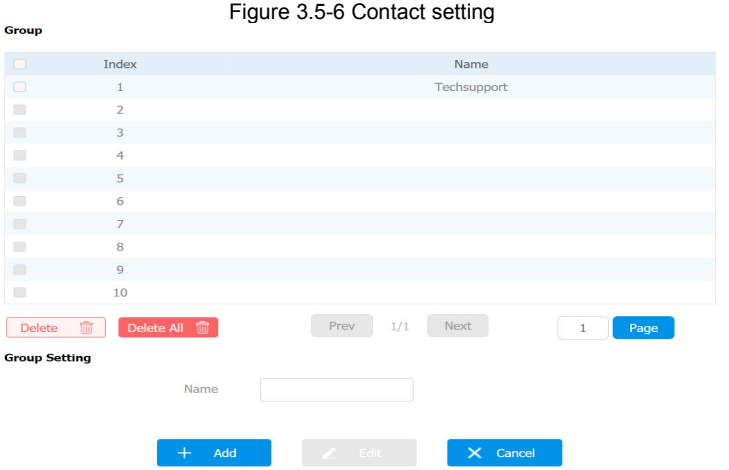

Figure 3.5-7 Group configure

3.5.3. Import/Export contacts

Users can also login to the website and go to the path **Phone** - **Import/Export** - **Import/Export Config&Contacts** to upload or download the contact information.

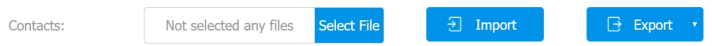

Figure 3.5-8 Import/Export contacts

Contact: Click **Export** to export the existed contact. Choose the local file and click **Import** to import the new contact. The export format is .vcf, the import format is .vcf, .csv or .xml. The import maximum is 3000.

3.5.4. Contact list setting

Login to the website and go to the path **Intercom** - **Basic** - **Door Setting General**.

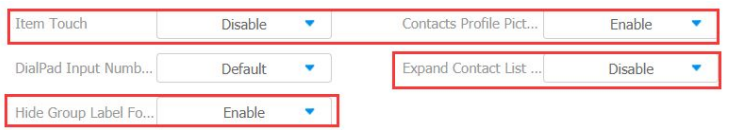

Figure 3.5.4-1 Contact display

Item Touch: This function is convenient for users to press anywhere in the contact line to call out, don't have to call out to touch the call button.

Contact Profile Picture: To setup whether it will show contact

picture or not.

Expend Contact List View Mode: With this enabled, the contact list will be displayed in view mode.

Hide Group Label For Contact List: With this enabled, the contact list will be displayed directly and there will be no group.

Login to the website and go to the path **Phonebook** - **Phonebook** - **Contact List Setting**.

Show contacts of local group: To enable/disable whether to display the contact list for local groups. If disabled, the contact interface will no longer display the local contact list, users will only be able to call as a group, not select the contacts to call.

Show cloud contacts: To enable/disable whether to display the cloud contact lists. If disabled, the cloud contact are not displayed on contact interface.

Contact Sort By: Select the sort of contact list, which supports three methods: ASCII Code, Room Number and Import. “ASCII

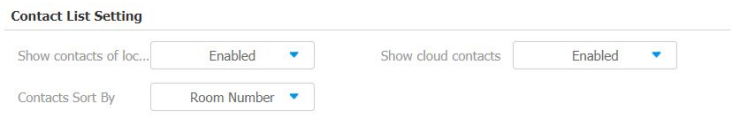

Figure 3.5.4-2 Contact list setting

code” means that the contact list will be displayed in order of 0~9, a~z; “Room number” means that the contact list will be displayed in order of a~z, 0~9; “Import” means that the contact list will be displayed in the same order as in the import file.

3.6. Intercom call

3.6.1. IP Direct Call

In the dial interface. Enter the number to call on the digital keypad, and tap the dial icon. Without SIP server, users can also use IP address to call each other. However, this way is only suitable in the LAN. Enter the IP address of the callee, and press the **dial** icon.

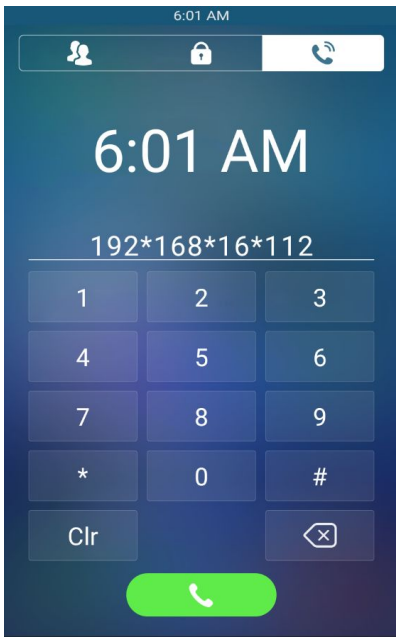

Figure 3.6.1-1 Dial interface

Login to the website and go to the path **Phone** - **Call Feature** - **Others** to configure the call related features.

Direct IP: To call someone with dialing IP address directly.

Direct IP Port: To configure the direct IP port.

Figure 3.6.1-2 Direct IP

3.6.2. SIP Call

SIP call uses SIP number to call each other which should be supported by SIP server. Users need to register an account and fill some SIP feature parameters before using SIP call.

Login to the website and go to the path **Account** - **Basic** to configure SIP account and SIP server for door phone first.

3.6.2.1. Account

R29 series supports 2 accounts. According to your needs, register one or two accounts and users can switch them by themselves.

Enter the system setting interface, choose account. According to the configuration of PBX, enter the account parameters. Tick enable to active the account. If you register 2 accounts in the same time. R29 series will choose the account 1 as the default account.

3.6.2.2. SIP Account

In the phone interface, go to **Account** - **Account setting** - **Account 1&2** to configure the SIP account.

Enable Account: SIP account is only available if you enable this account.

Register Name: To enter extension number you want and the number is allocated by SIP server.

User Name: To enter user name of the extension.

Password: To enter password for the extension.

Display Name: To configure name sent to the other call party for displaying.

Note: After configurations, users can go to the **website** - **Account** - **Basic** - **SIP Account** to check the register status.

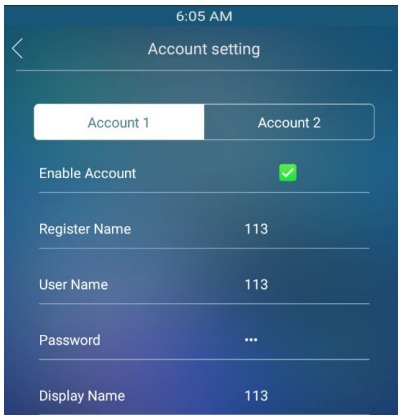

Figure 3.6.2.2-1 SIP account

Login to the website and go to the path **Account** - **Basic** - **SIP Account** to configure the SIP account.

Status: To display register result.

Account: Select the SIP account you need to configure.

Account Active: SIP account is only available if users enable this account.

Display Label: To configure label displayed on the phone's LCD screen.

Display Name: To configure name sent to the other call party for displaying.

Register Name: To enter extension number users want and the number is allocated by SIP server.

User Name: To enter user name of the extension.

Password: To enter password for the extension.

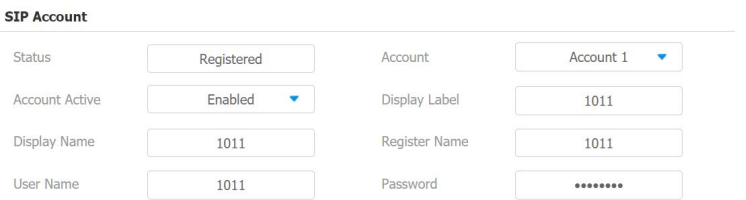

Figure 3.6.2.2-2 SIP account

3.6.2.3. SIP Server

In the phone interface, go to **Account** - **Account setting** - **Account 1&2** to configure the SIP server. Users can also go to the path **Account** - **Basic** - **SIP Server 1&2** to configure.

Server IP: To enter SIP server's IP address or URL.

Server Port: To enter the SIP server port.

Registration Period: The registration will expire after registration period, the IP phone will re-register automatically within registration period.

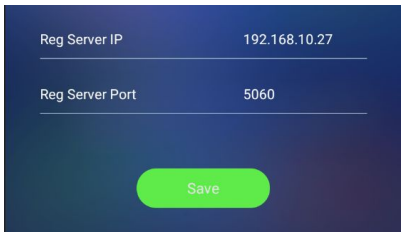

Figure 3.6.2.3-1 SIP server

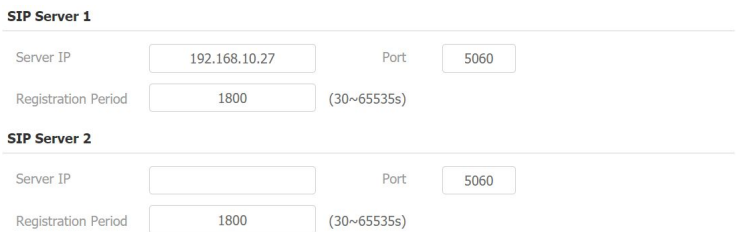

Figure 3.6.2.3-2 SIP server

3.6.2.4. Outbound Proxy Server

Login to the website and go to the path **Account** - **Basic** - **Outbound Proxy Server** 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.

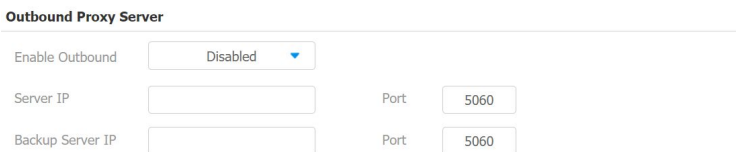

Figure 3.6.2.4 Outbound proxy server

3.6.2.5. Transport Type

To display and configure transport type for SIP message

UDP: UDP is an unreliable but very efficient transport layer protocol.

TCP: Reliable but less-efficient transport layer protocol.

TLS: Secured and Reliable transport layer protocol.

DNS-SRV: DNS record for specifying the location of services.

Figure 3.6.2.5 Transport type

3.6.3. Dial Plan

- **Replace Rule**

Replace rule is using some simple number or symbol to replace a complicated phone number or IP address. It is more suitable for some one who want to hide the real phone number or simplify the long number. This is more convenient for users.

In the phone system, go to **Replace Rule**, click **Add**, choose a suitable account and enter the value, press **Save** to confirm. It

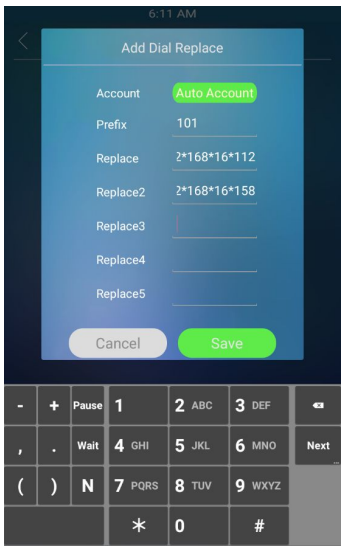

Figure 3.6.3-1 Replace rule

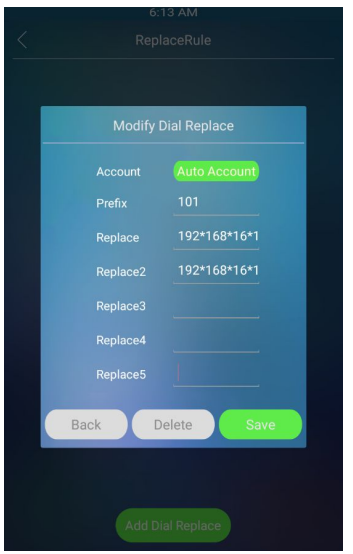

Figure 3.6.3-2 Replace rule

supports a prefix number replace 5 number at the same time, when the user press the prefix number, the 5 devices will ring at the same time. Users can edit or delete the exited replace rules.

For example:

Users can pre-configure 101 to replace 192.168.16.112 and 192.168.16.158 in the doorphone. Then, by pressing 101, the two devices can be dialed at the same time through the default account without having to remember the long phone number or dial separately.

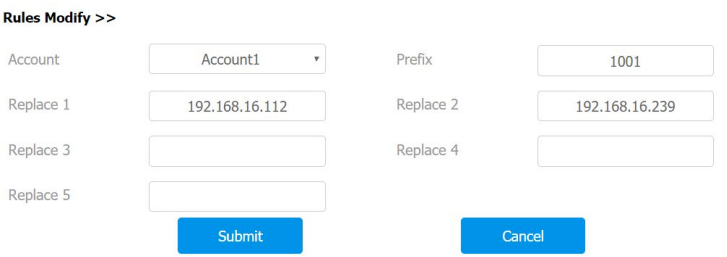

Figure 3.6.3-2 Dial plan

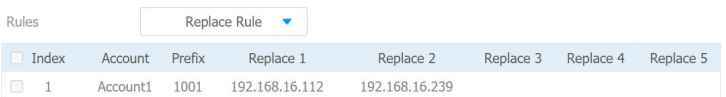

Figure 3.6.3-3 Dial plan

Users can also login to the website and go to the path **Phone** - **Dial Plan** to configure this function. R29 allows users to modify replace rule in the website.

All replace rules will show in the list. Users can edit or delete the exited replace rules.

3.6.4. Quick Dial

Quick dial is to call predefined important number quickly in main interface. This number is often set as emergency number.

In the phone interface, go to **Quick Dial**, switch the type as quick dial, enter the quick dial name and number, click **Save** to confirm.

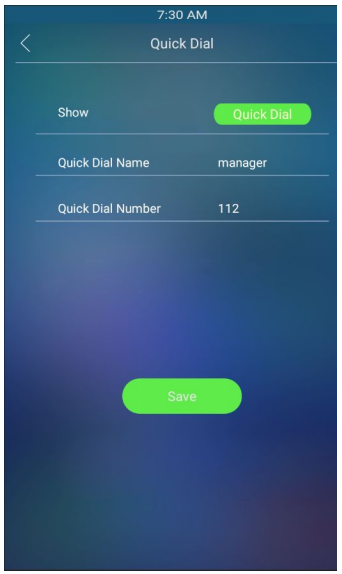

Figure 3.6.4-1 Quick dial configure

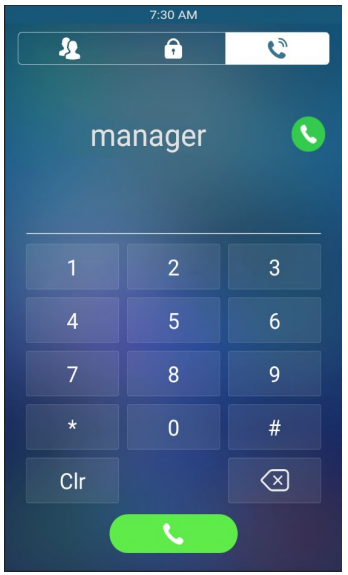

Figure 3.6.4-2 Quick dial

3.6.5. Speed Dial

The speed dial contact list will be displayed in the dial interface, convenient for users to dial directly. Users can choose whether to display the list or configure whether to display both the contacts and keypad. Login to the website and go to the path **Phone** - **Speed Dial**.

Speed Dial Theme: Configure the speed dial list display theme. Which supports 9 themes: Standard, Auto, 1key, 1 Key+Keypad, 2 Keys+Keypad, 4Keys+Keypad, 8 Keys, 16 Keys, 64 Keys.

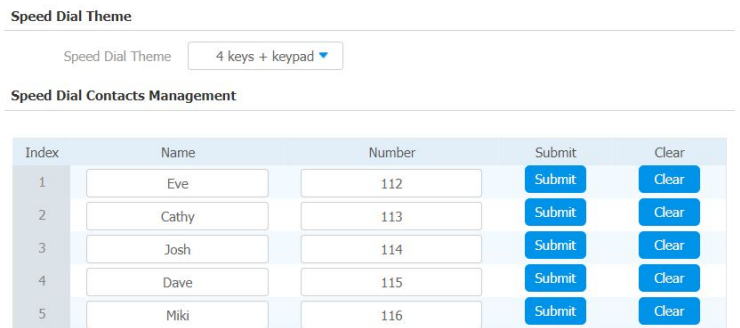

Figure 3.6..5-1 Speed dial

Standard	It will not displayed the contact list, only display time and keypad.
Auto	The dial interface will based on the number of speed dial contacts. Null displays the time and keypad; 1~4 contacts will displays contacts and keypad; More then 4 contacts, only contacts will be displayed.
1/8/16/64 Key	The dial interface will display the speed dial contacts based on the number of keys, and the keypad will not be displayed.
1 Key+Keypad	The dial interface will display the speed dial contacts based on the number of keys, and the keypad will be displayed.
2 Keys+Keypad	
4 Keys+Keypad	

Speed Dial Contacts Management: Configure contact names and numbers, which supports up to 64 contacts. Only 8 contacts can be displayed on one page, more than 8 contacts will be displayed on the next page.

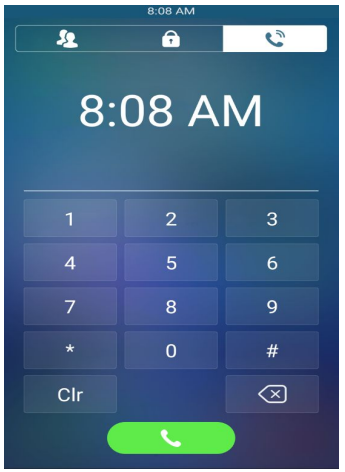

Figure 3.6..5-2 Standard

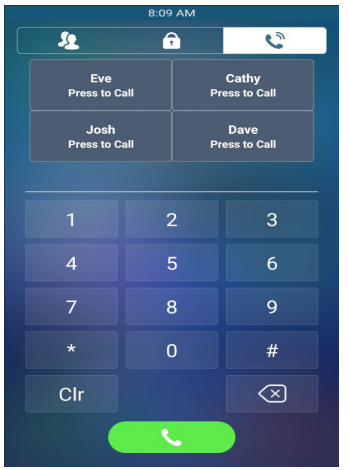

Figure 3.6..5-3 4 Keys+keypad

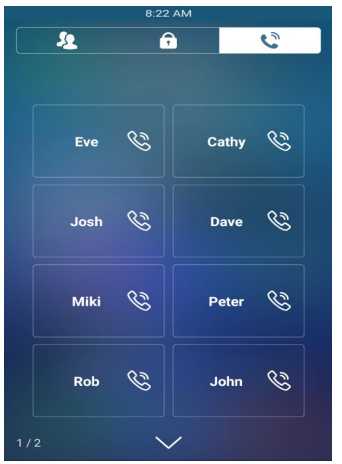

Figure 3.6..5-4 9 Keys

3.6.6. Auto Answer

Login to the website and go to the path **Account** - **Advanced** - **Call** - **Auto Answer** to enable the auto answer.

Figure 3.6.5 -1Auto answer

Login to the website and go to the path **Phone** - **Call Feature** - **Others** to configure the auto answer related function.

Return Code When Refuse: Allow users to assign specific code as return code to SIP server when an incoming call is rejected.

Auto Answer Mode: To choose video or audio mode for auto answer.

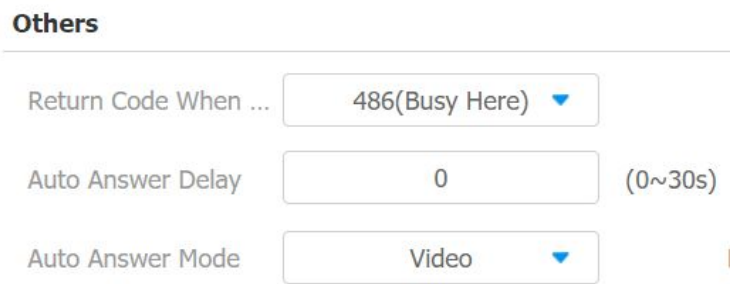

Figure 3.6.5 -2 Auto answer

3.6.7. Robin Call

This feature is used to transfer calls to the target number in order if the calling is no answered with timeout. Login to the website and go to the path **Intercom** - **Basic** - **Basic** to check. It supports up to 10 call numbers. They will be called in order.

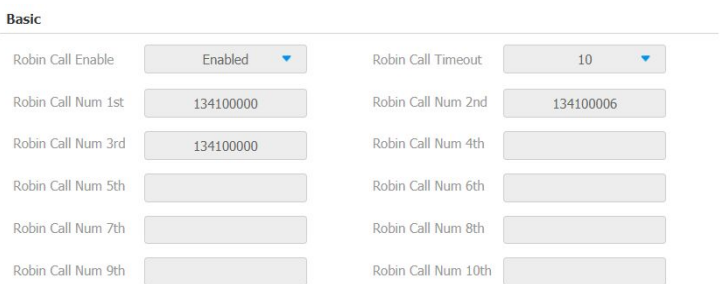

Figure 4.2.4 Robin call

Note: This feature should work with Akuvox Cloud. Please contact your administrator for more information.

3.6.8. Web Call

Login to the website and go to the path **Phonebook** - **Local Book** - **Dial** to dial out from website.

Dial: To dial out a call or hangup an ongoing call from website.

Figure 3.6.6 Web call

3.7. Security

3.7.1. Mjpeg Service

Login to the website and go to the path **Intercom** - **Advanced** - **Mjpeg Server** to configure.

Mjpeg Service Enable: Use to capture from the URL. It is convenient to check the capture remotely.

Image Quality: To choose the image quality of the capture.

Picture URL:

http:// device ip:8080/picture.cgi

http://device ip:8080/picture.jpg

http://device ip:8080/jpeg.cgi

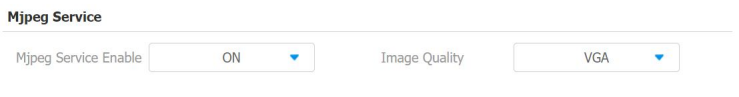

Figure 3.7.1 Mjpeg service

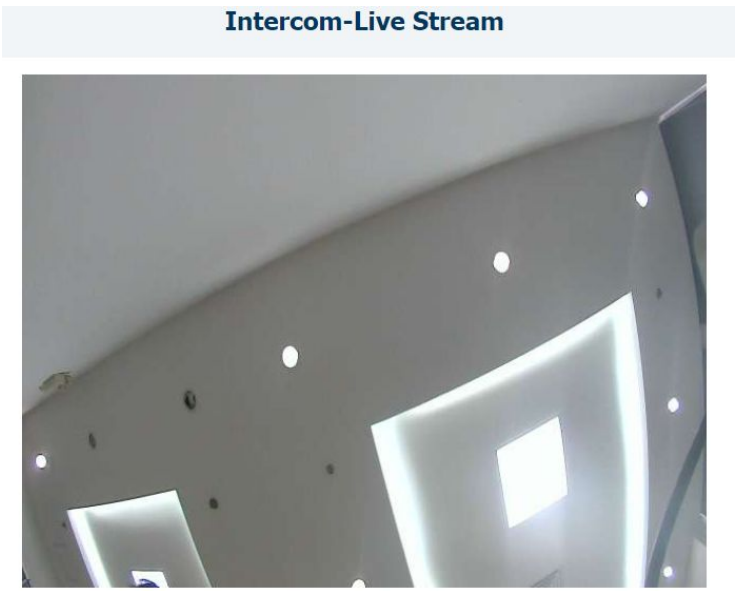

Figure 3.7.2 Live view

3.7.2. Live Stream

Login to the website and go to the path **Intercom** - **Live Stream**, check the real-time video from R29. In addition, users can also

check the real-time picture via URL:

http://IP_address:8080/video.cgi

3.7.3. RTSP

- **RTSP Basic**

R29 series support RTSP stream, enter the phone system, go to **RTSP** or login to the website and go to the path **Intercom** - **RTSP**, to enable or disable RTSP server. The URL for RTSP stream is:

rtsp://IP_address/live/ch00_0

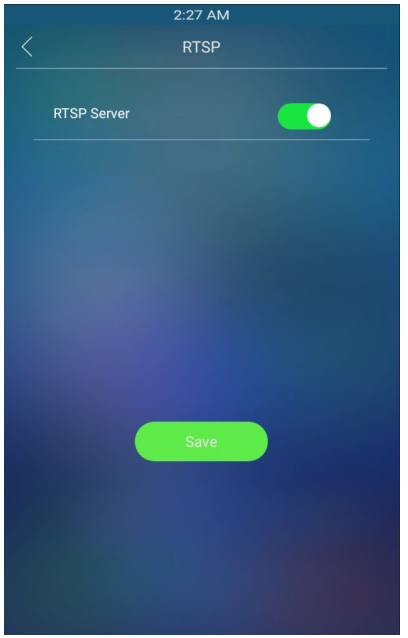

Figure 3.7.3-1 RTSP

- **H.264 Video Parameters**

H.264 is a video stream compression standard. Different from H.263, 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. To modify the resolution, framerate and bitrate of H.264.

Figure 3.7.3-2 RTSP

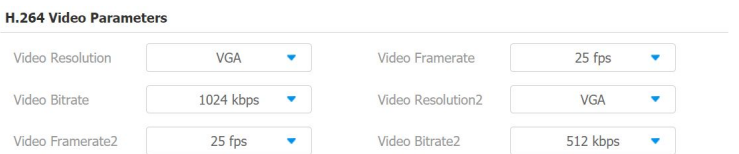

Figure 3.7.3-3 H.264 video parameters

3.7.4. ONVIF

R29 series supports ONVIF protocol, which means R29 series camera can be searched by other devices, like NVR, which supports ONVIF protocol as well. Go to the path **Intercom** - **ONVIF** on the web GUI, to configure ONVIF mode and its username/password.

Switching ONVIF mode to “undiscoverable” means that Users must program ONVIF’s URL manually.

The ONVIF’s URL is:

http://IP_address:8090/onvif/device_service

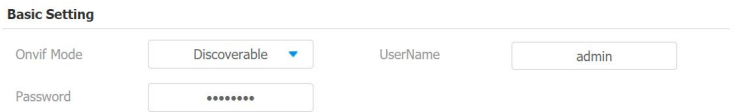

Figure 3.7.4 ONVIF setting

3.8. Access Control

3.8.1. Relay

Login to the website and go to the path **Intercom** - **Relay** to configure.

Relay ID: R29 series supports three relays. Users can configure them respectively.

Trigger Delay: To configure the duration of the trigger relay. With the trigger condition, the relay will only be triggered if the value is reached.

Hold Delay: To configure the duration of opened relay. Over the value, the relay would be closed again.

DTMF Option: To select digit of DTMF code, R29 series supports maximum 4 digits DTMF code.

DTMF: To configure 1 digit DTMF code for remote unlock

Multiple DTMF: To configure multiple digits DTMF code for remote unlock.

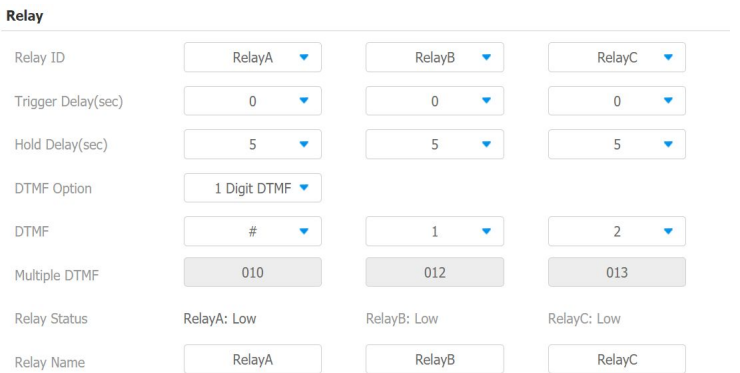

Figure 3.8.1 Relay

Relay Status: While the relay is triggered, the statues will be switched. When COM connects to NC, the status is Low.

Note: Relay operate a switch and does not deliver power, so users should prepare power adapter for external devices which connects to relay.

3.8.1.1. Unlock Options

Users can choose which relay want to opened. On the path **Intercom** - **Relay** - **Unlock Options**, configure to be “VISIBLE”. When users tries to open the door, it prompts the message to choose which relay to open.

Note: All relays are enabled by default. Users should choose which relay they do not want to open.

Figure 3.8.1.1-1 Unlock options

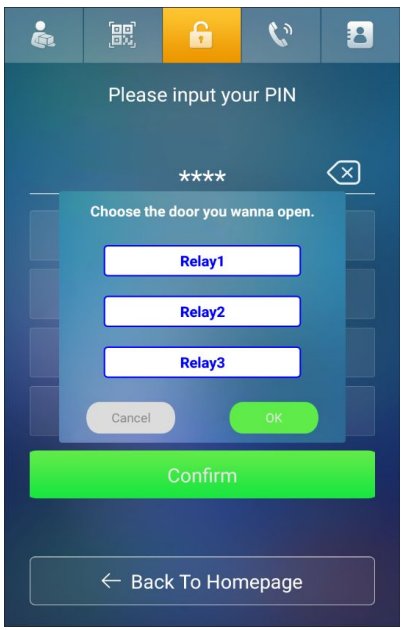

Figure 3.8.1.1-2 Unlock

3.8.2. Unlock via RFID Cards

3.8.2.1. RFID Cards in Devices

R29 series can be compatible with 13.56MHZ and 125KHZ RFID cards.

Add

Press “**Add Card**”, when you see “Please scan the RFCard to Add”, put the card near the card sensor. Then enter the device name , valid day and time in the modify prompt. Click **OK** to save.

Modify

Press “**Del Card**”, when you see “Please scan RFCard to Delete”, put the exited card near the card sensor, click **Del** to delete in the modify prompt. Or users can just choose the exited card from the list, select directly.

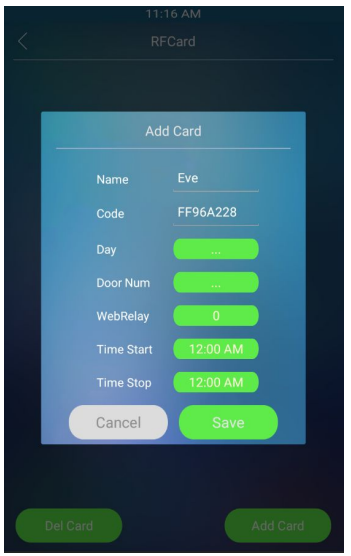

Figure 3.8.2.1-1 RF key

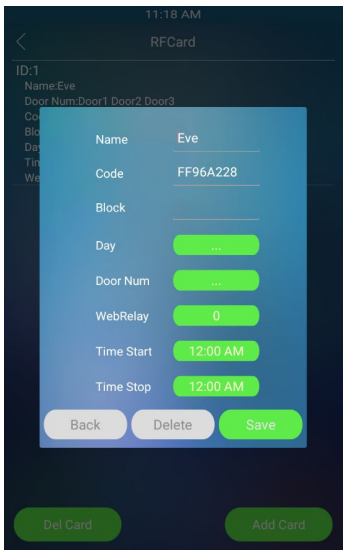

Figure 3.8.2.1-2 RF key

3.8.2.2. RFID Cards in Website

Go to the path **Intercom** - **Card setting**, to manage RFID cards access system.

Import/Export Card Data: Export the existed RFID cards information or import the new RFID cards information. It can only support .xml format. The maximum is 1000.

Note: Ask your administrator for the card data template if you need.

Obtain and Add Card:

(1) Switch card status to “Card Issuing” and click “**Apply**”;

(2) Place card on the card reader area and click “**Obtain**”;

(3) Name card and choose which door you want to open and the valid day and time;

(4) Click “**Add**” to add it into list.

Figure 3.8.2-3 Import/Export card data

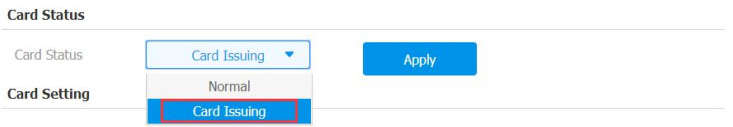

Figure 3.8.2-4 Card status

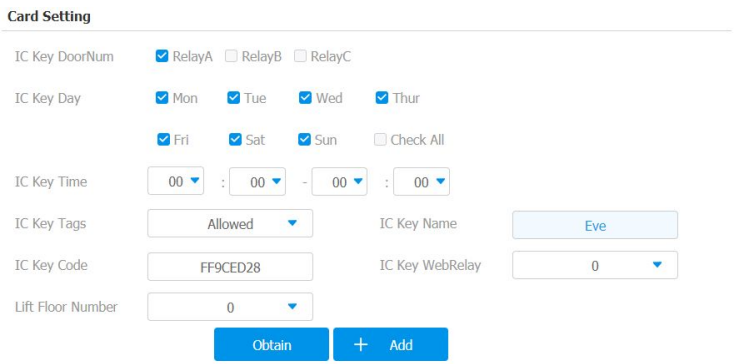

Figure 3.8.2-5 Card setting

Door Card Management:

Valid card information will be shown in the list. Administrator could delete one card's access permission or empty all the list.

Note: Remember to set card status back to normal after adding the cards.

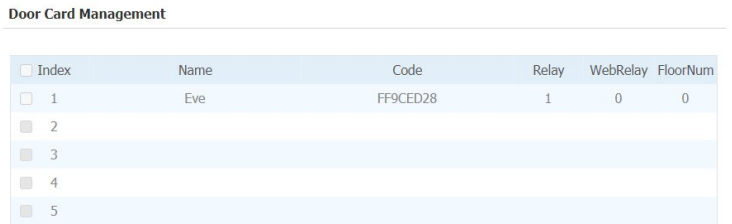

Figure 3.8.2-6 Door card management

3.8.2.3. Card Type Support

Go to the path **Intercom** - **Card Setting**, to choose the type of card you need. Users can choose enable the NFC or Felica.

Note: There is a conflict between these two card types, please choose one of them when needed.

Figure 3.8.3.3-1 Card type support

3.8.3. Unlock via Pin Codes

3.8.3.1. Private Pin Codes in Device

In the phone interface, go to **LockPasswd**, enter the owner name, 8 digits private keys and Device (optional). Setup the valid day and time for the password.

For example:

Owner name is Eve, private key is 1995, and I set up the valid day from Mon to Sun, click **Save** to save.

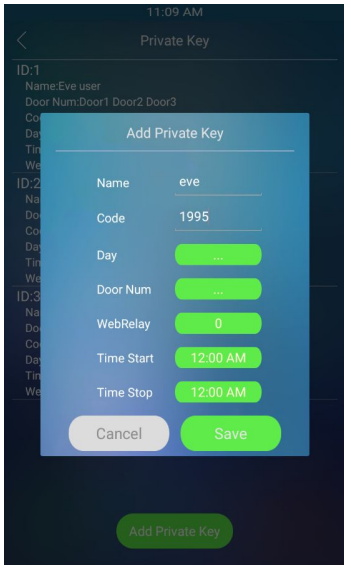

Figure 3.8.3.1-1Adding private key

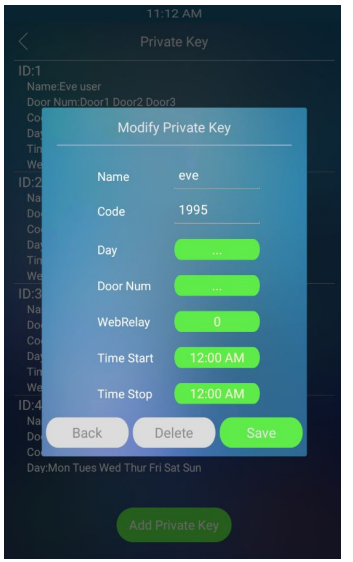

Figure 3.8.3.1-2 Editing private key

3.8.3.2. Private Pin Codes in Website

Go to the path **Intercom** - **Privatekey** on the web GUI, to manage RFID cards access system.

Import/Export Private Key: Export the existed private key information or import the private key from local side. It can only support .xml format. The maximum private key is 1000.

Figure 3.8.3.2-1 Import/Export private key

Obtain and Add Code:

(1)Enter the “PKey Name” and “PKey Code”;

(2)Select the valid day and time;

(3)Choose which door users want to open;

(4)Click “**Add**” to add it into list.

Private Key Management:

Valid private key information will be shown in the list. Administrator could delete private key information or empty all the list.

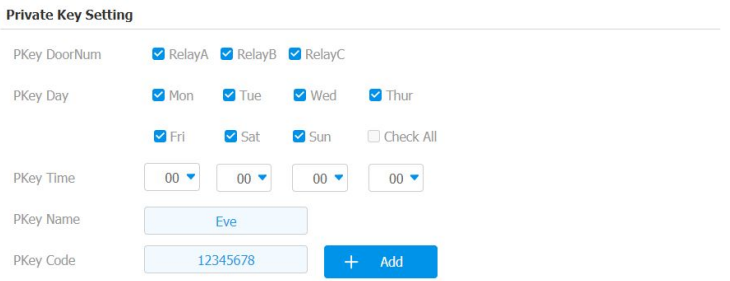

Figure 3.8.3.2-2 Private key setting

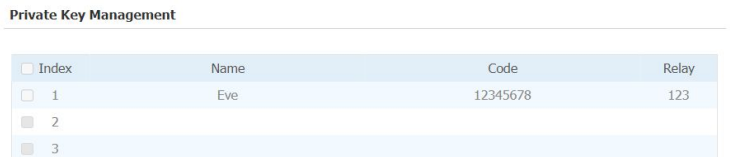

Figure 3.8.3.2-3 Private key management

3.8.3.3. Public Pin Codes in device

In the phone interface, go to **Password** - **Public Key Passwd**, enter the old public key, R29 series support 3 default public keys. Then enter the new password, after entering the new password Confirm, click **save** icon.

Note: Just need to enable public key password in public key password setting.

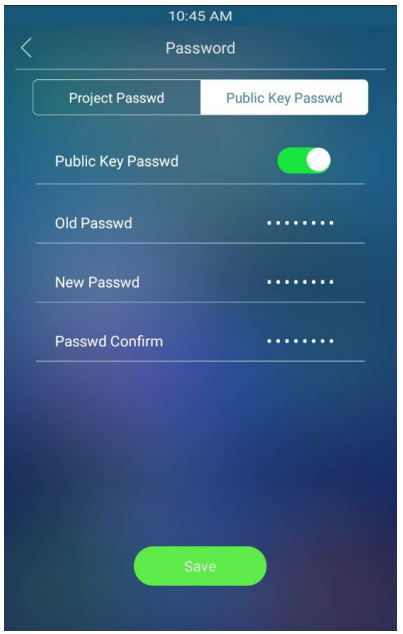

Figure 3.8.3.3 Public key

3.8.3.4. Public Pin Codes in websites

Go to the path **Intercom** - **Basic** - **Password**. Users can configure project key and public key with this function. Public key is the password used by all occupants in a building.

Public Enable: The default status is on.

PublicKey Bits Limit: Setup the key digits.

Public Key: R29 series support 3 default public keys, users can reset a new public key.

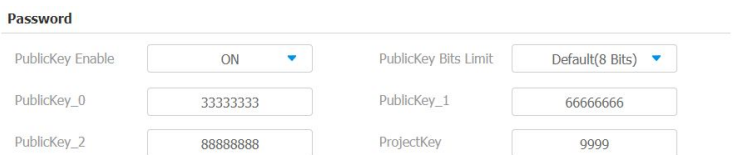

Figure 3.8.3.4 Password

3.8.4. Unlock via Face

3.8.4.1. Face in Device

In the device portal, go to the path **Intercom** - **Face** - **Face Basic** to enable the face recognition. In the phone interface, go to **Face** to record the Face ID.

Figure 3.8.4.1-1 Face recognition

Add:

Close your face to the camera, in the middle of the round box on the screen. If a face is recognized, the face ID will be automatically admitted. Click "**Confirm**" after the recognition is completed, then enter the face registration name and click "**Register**" to save the face ID.

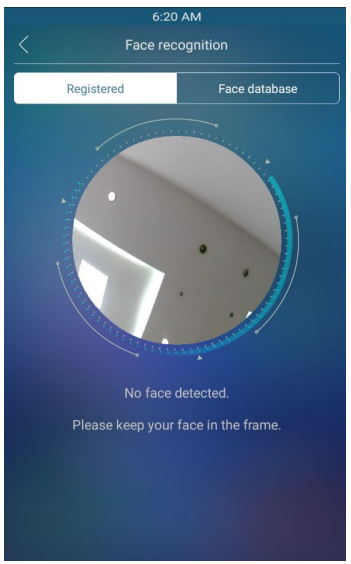

Figure 3.8.4.1.1 Face recognition

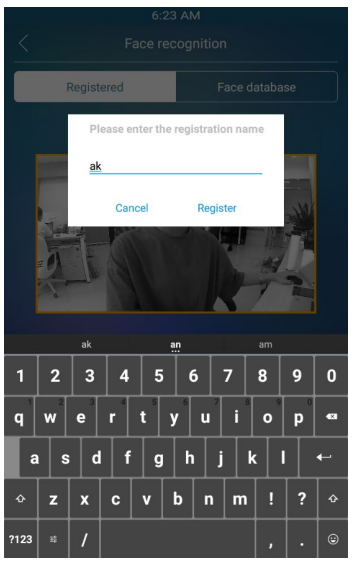

Figure 3.8.4.2.2 Face recognition

Modify:

Click **Face database**, choose the existed database to delete.

3.8.4.2. Face in Website

Go to the path **Intercom** - **Face** on the web GUI to configure the face information.

Face Threshold: Smaller the value, lower the face accuracy.

Night Model: Enable/Disable the face recognition in night model.

Search: Enter key word to quick search. Check the exited face data from the list.

Face Data: Support to import or export the face data. The export format is .tgz, the import format is .zip.

Import/Export file: Because R29 series can not support the third party camera to enter the face picture now. Users need to directly take face data in the R29 series, then export the existed face file. It is convenient to share the same face data in multiple devices.

Figure 3.8.4.2-1 Face basic

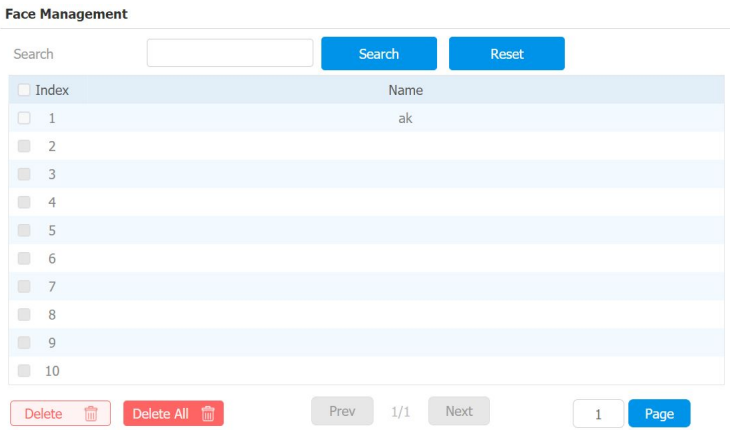

Figure 3.8.4.2-2 Face Management

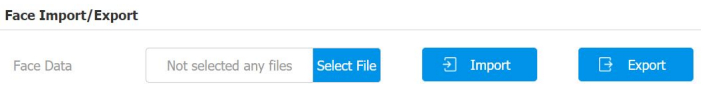

Figure 3.8.4.2-3 Face import/export

3.8.5. Unlock via QR code

On the portal **Intercom** - **Relay** - **Open Relay via QR**. Enable the QR function.

Note: This function should be work with Akuvox cloud. For more information, please contact with your administrators.

Figure 3.8.5 Open relay via QR

3.8.6. Unlock via Bluetooth(Optional)

On the portal **Intercom** - **BLE**.

BLE Enable: Enable or diable the BLE function.

BLE Mode: To configure the BLE mode.

Rssi Threshold: Set the threshold of received signal strength indicator. The smaller absolute value ,the higher sensitivity.

Delay: To configure the duration of opened relay. Over the value, the relay would be closed again.

Note: This function needs to be used with Akuvox cloud, please contact your administrator for more information.

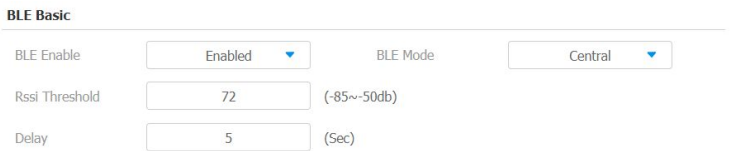

Figure 3.8.6 BLE

3.8.7. Unlock via Fingerprint(Optional)

Go to the path **Intercom** - **Fingerprint** on the web GUI, to manage finger keys access system.

Finger Key Setting:

(1)Select the valid day and time;

(2)Choose which door users want to open;

(3)Enter the “Finger Name”. Lift Floor Number is optional.

(4)Click **Obtain**, press your finger on device to record the fingerprint for three times;

(5)Click **Add** to add this finger key.

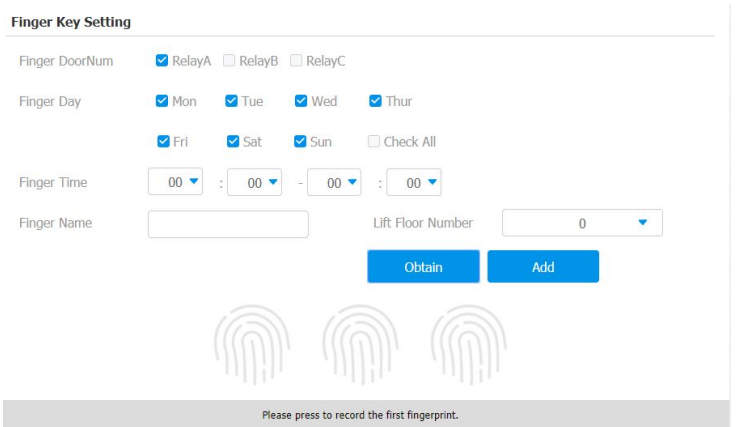

Figure 3.8.7-1 Finger key setting

Finger Key Management:

Valid finger key information will be shown in the list. Administrator could delete finger key information or empty all the list.

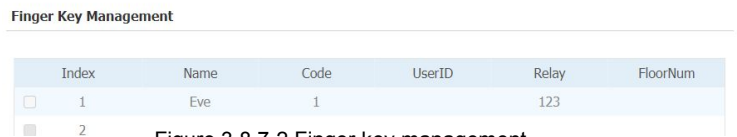

Figure 3.8.7-2 Finger key management

3.8.8. Unlock via HTTP Command

Login to the website and go to the path **Intercom** - **Relay** - **Open Relay via HTTP** to configure. Users can use a URL to remotely unlock the door. It is more convenient for users to open the door if users are not beside the devices.

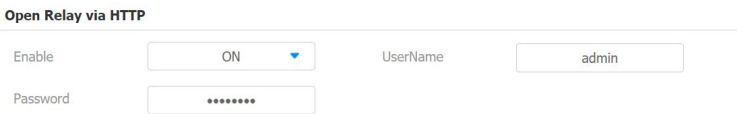

Figure 3.8.8 Open relay via HTTP

Switch: Enable this function. Disable by default.

Username & Password: Users can setup the username and password for HTTP unlock.

URL format:

http://IP_address/fcgi/do?action=OpenDoor&UserName=XX&Password=XX&DoorNum=XX

3.8.9. Unlock via Exit Button

R29 series supports 3 input triggers Input A/B/C (DOORA/B/C). Login to the website and go to the path **Intercom** - **Input** to configure.

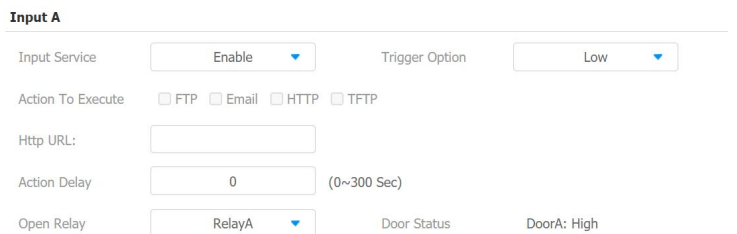

Figure 3.8.9 Input

Input Service: To enable or disable input trigger service.

Trigger Option: To choose open circuit trigger or closed circuit trigger. “Low” means that connection between door terminal and GND is closed, while “High” means the connection is opened.

Door Status: To show the status of input signal.

3.8.10. Unlock via Reception in Building Theme

On building theme, users can unlock the relay through pressing Reception.

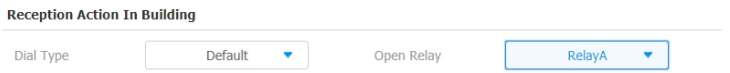

Figure 3.8.10. Reception action in building

Dial Type: Select the dial account, which supported account 1 or account 2;

Open Relay: When users press reception icon to call, the relay is triggered.

Note: This feature is often to trigger the signal via relay terminal.

3.9. Reboot

In the phone interface, go to **Reboot** to click the **Reboot**, or go to the path **Upgrade** - **Basic** on the web GUI, click **Submit**, the device will restart.

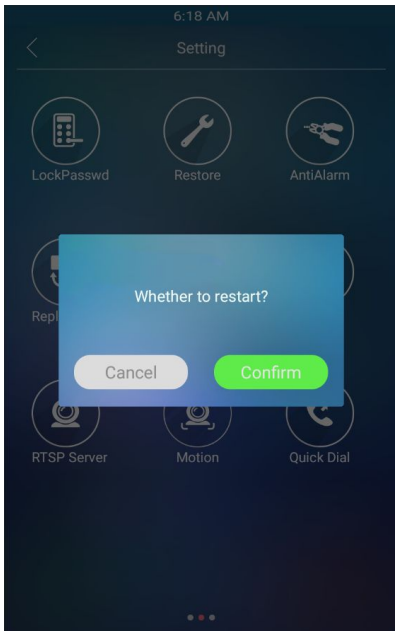

Figure 3.9-1 Reboot

Figure 3.9-2 Reboot

3.10. Reset

In the phone interface, go to **Restore.** Click **Restore**, if users sure to restore to factory settings, please choose **Confirm** in the prompt window.

Users can also login to the website and go to the path **Upgrade** - **Basic**, directly click **Submit** to reset R29 series. Use this function with caution. All configuration will be removed.

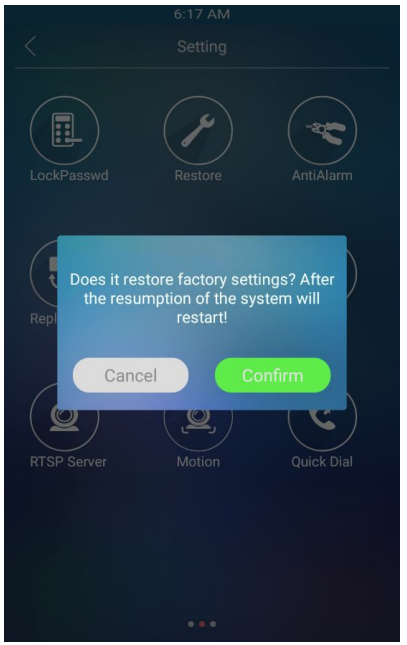

Figure 3.10-1 Restore

Figure 3.10-2 Reset

4. Advanced Features

4.1. Phone Configuration

4.1.1. IR LED

The setting is for night vision, when the surrounding of R29 series is very dark, infrared LED will turn on and R29 series will turn to night mode to let the users see video clearly from the R29.

In the phone interface, go to **LED** or go to the path **Intercom** - **Advanced** - **LED** on web GUI, to configure the IR LED function.

Led Type: It can supports four modes - OFF, ON, AUTO，SCHEDULE.

If setup the LED type as auto, click **Threshold button** to sense the intensity of the current environment.

Threshold: Click the **Threshold key**, it will automatic show the current intensity or user can setup the value manually. Once the environment intensity is darker than the predefined threshold value,

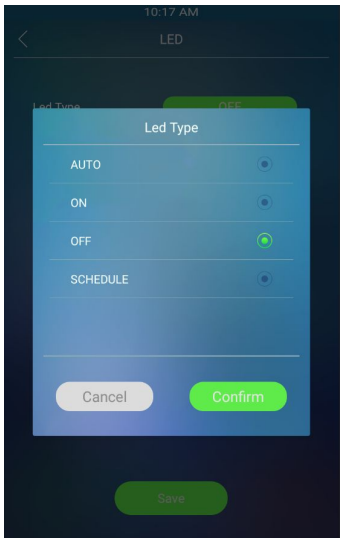

Figure 4.1.1-1 LED type

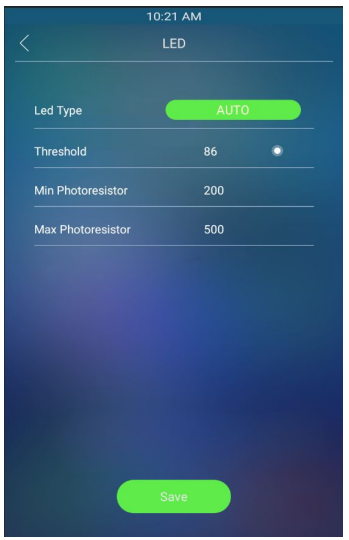

Figure 4.1.1-2 LED auto

LED will be up.

Min/Max photoresistor: Photoresistor value relates to light intensity and larger value mean that light intensity is smaller. When photoresistor value is greater than max value, LED will turn on. In contrast, when photoresistor value is less than min value, infrared LED will turn off and the device turns to normal mode.

If setup the LED type as schedule, click **Threshold button** to sense the intensity of the current environment.

Time Start/Stop: In the meantime, the R29 is forced to turn on LED.

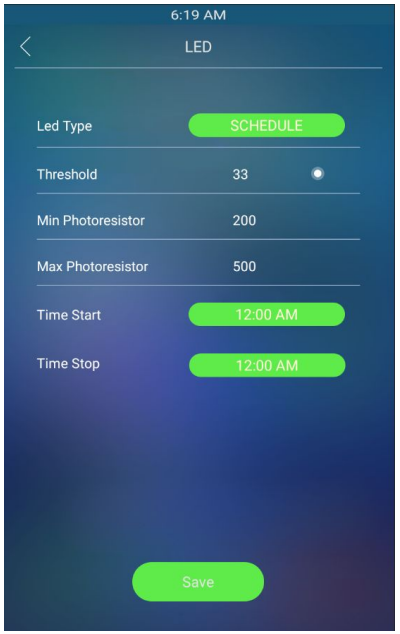

Figure 4.1.1-3 LED schedule

Users can also configure the LED from website, go to the path **Intercom** - **Advanced** - **LED**.

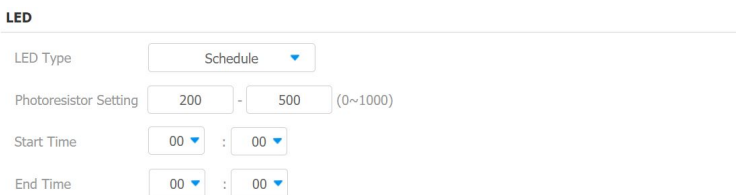

Figure 4.1.1-4 LED

4.1.2. LED of Display

Login to the website and go to the path **Intercom** - **LED Setting** - **LED Control** to configure.

Card LED Enable: To control the LED of the card reader area.

Start Time (H): Setup the LED light up time. According to the system time. For example 18-23 means the LED will continuously light up from 6:00pm to 11:00pm.

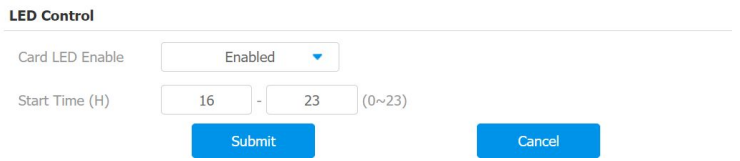

Figure 4.1.2 LED control

4.1.3. High Contrast of LCD

This function is used to automatically adjust the brightness of R29X LCD according to the brightness of the surrounding environment.

High Contrast: Enable/Disable the LCD high contrast function.

Backlight Mode: To choose how the doorphone adjust the backlight. There are two types for users, Auto and Manual.

Backlight(day):

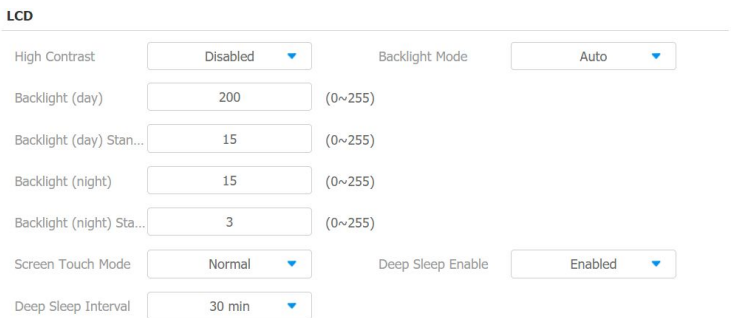

Figure 4.1.3 LCD

4.1.4. RFID Card Code Display Related

Login to the website and go to the path **Intercom** - **Advanced** - **RFID** to configure.

Display Mode: To be compatible different card number formats in different systems. The default 8HN means hexadecimal.

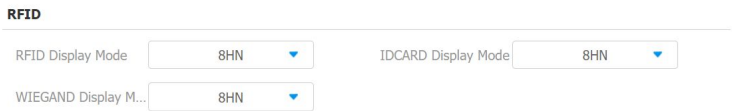

Figure 4.1.4 RFID

4.2. Intercom

4.2.1. Call Time Related

4.2.1.1. RTP timeout

RTP Timeout: Login to the website and go to the path **Intercom** - **Basic** - **Door Setting General** to configure. This feature is specially designed for R47P. When R47P auto answer in mute status, if over the configured time R29 series did not receive the

Figure 4.2.1.1 RTP timeout

RTP message, R29 series will hang up automatically.

4.2.1.2. Max call time

Max Call Time: Login to the website and go to the path **Intercom** - **Basic** - **Max Call Time** to configure the max call time.

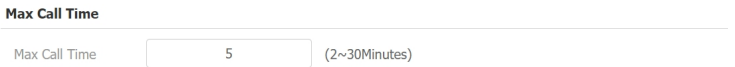

Figure 4.2.1.2 Max call time

4.2.1.3. Max dial time

Login to the website and go to the path **Intercom** - **Basic** - **Max Dial Time** to configure the max dail time.

Dial In Time: To configure the max incoming dial time, available when auto answer is disabled.

Dial Out Time: To configure the max no answer call time.

Figure 4.2.1.3 Max dial time

4.2.1.4. Hang up after open door

Login to the website and go to the path **Intercom** - **Basic** - **Hang Up After Open Door**.

Figure 4.2.1.4 time our

Time Out: When the callee press the DTMF code to open the door, this call will hang up automatically after the timeout.

4.2.2. Return Code When Refused

Login to the website and go to **Phone** - **Call Feature** - **Others** to configure.

Return Code When Refuse: Allows users to assign specific code as return code to SIP server when an incoming call is rejected.

Figure 4.2.2 Return code when refused

4.2.3. SIP Call Related

Login to the website and go to the path **Account** - **Advanced** - **Call** to configure the SIP call related functions.

Max Local SIP Port: To configure maximum local SIP port for designated SIP account.

Min Local SIP Port: To configure minimum local SIP port for designated SIP account.

Caller ID Header: To choose caller ID header format automatically.

Anonymous Call: If enabled, R29 series will block its information when calling out.

Anonymous Call Rejection: If enabled, calls who block their information will be screened out.

Missed Call Log: If enabled, any missed call will be recorded into call log.

Prevent SIP Hacking: If enabled, it will prevent sip message from hacking

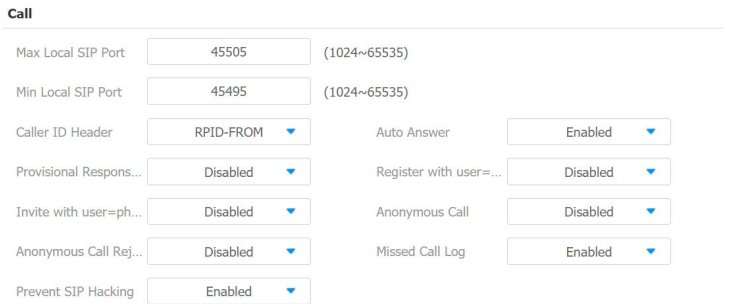

Figure 4.2.3 SIP call related

4.2.4. Call Waiting

Login to the website and go to the path **Phone** - **Call Feature** - **Call Waiting** to configure.

Call Waiting Enable: If enabled, it allows IP phones to receive a new incoming call when there is already an active call.

Call Waiting Tone: If enabled, it allows IP phones to play the call

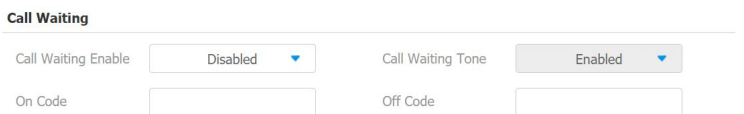

Figure 4.2.4 Call waiting

waiting tone to the waiting callee.

On Code: The code used to enable call waiting on server's side, if configured, IP phone will send a SIP message to server to turn on call waiting on server side if user setup calls waiting is disabled.

Off Code: The code used to disable call waiting on server's side, if configured, IP phone will send a SIP message to disable call waiting on server side if user setup call waiting is enabled.

4.2.5. Intercom

Intercom allows users to establish a call directly with the callee. Login to the website and go to the path **Phone** - **Call Feature** - **Intercom** to configure.

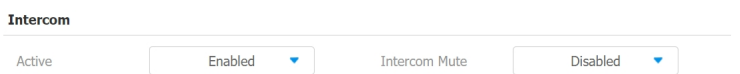

Figure 4.2.5 Intercom

Active: To enable or disable Intercom feature.

Intercom Mute: If enabled, once the call established, the callee will be muted.

4.2.6. Codec

Login to the website and go to the path **Account** - **Advanced** to configure the video codec and audio codec.

- **Audio Codec**

Sip Account: To choose which account to configure.

Audio Codec: R29 series supports four audio codec: PCMA, PCMU, G729, G722. Different audio codec requires different bandwidth, user can enable/disable them according to different network environment.

Note: Bandwidth consumption and sample rates.

Codec	Bandwidth	Sample Rates
PCMA	64kbit/s	8kHZ
PCMU	64kbit/s	8kHZ
G729	8kbit/s	8kHZ
G722	64kbit/s	16kHZ

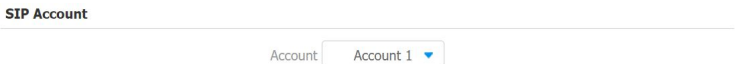

Figure 4.2.6-1 SIP account

Figure 4.2.6-2 Audio codec

- **Video Codec**

R29 series supports H264 standard, which provides better video quality at substantially lower bit rates than previous standards.

Codec Resolution: R29 series supports four resolutions: QCIF, CIF, VGA, 4CIF and 720P.

Codec Bitrate: To configure bit rates of video stream.

Codec Payload: To configure RTP audio video profile

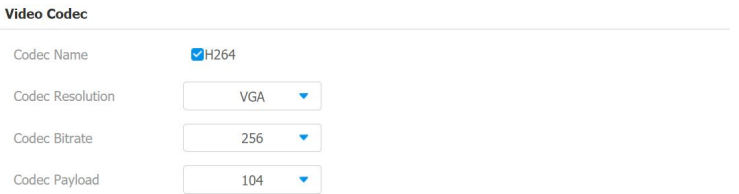

Figure 4.2.6-3 Video codec

4.2.7. DTMF

Login to the website and go to the path **Account** - **Advanced** - **DTMF** to configure RTP audio video profile for DTMF and its payload type.

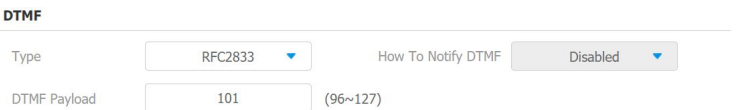

Figure 4.2.7 DTMF

Type: Support Inband, Info, RFC2833 or their combination.

How To Notify DTMF: Only available when DTMF type is Info.

DTMF Payload: To configure payload type for DTMF.

4.2.8. Session Timer

Go to the path **Account** - **Advanced** - **Session Timer** on the web GUI to configure. If enabled, the on going call will be disconnected automatically once the session expired unless it's been refreshed by UAC or UAS.

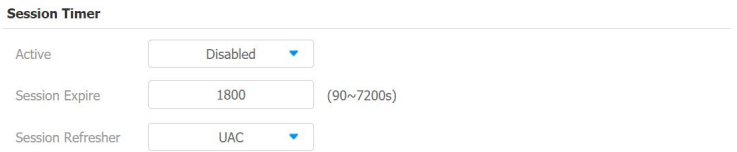

Figure 4.2.8 Session timer

4.2.9. NAT

Login to the website and go to the path **Account** - **Advanced** - **NAT** to configure.

UDP Keep Alive Messages: The phone will send UDP keep-alive message periodically to router to keep NAT port alive.

UDP Alive Msg Interval: Keep alive message interval.

Rport: It will add remote port into outgoing SIP message for designated account.

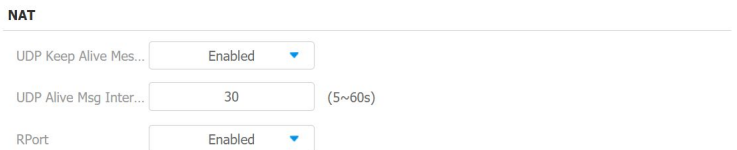

Figure 4.2.9 NAT

4.2.10. User Agent

Login to the website and go to the path **Account** - **Advanced** - **User Agent** to configure.

User Agent: One can customize users agent field in the SIP message; if user agent is set to specific value, users can see the information from PCAP. If user agent is not set by default, users can see the company name, model number and firmware version from PCAP.

Figure 4.2.10 User Agent

4.2.11. HTTP API

HTTP API configurations for Akuvox intercom are defined via web interface path: **Intercom** - **HTTP API** to disable/enable a service and select the user authentication method.

HTTP API: To enable/disable the service. If disable, system always return HTTP 403 Forbidden status when users sends the request.

Auth Mode: There are six auth modes: None, Normal, WhiteList,

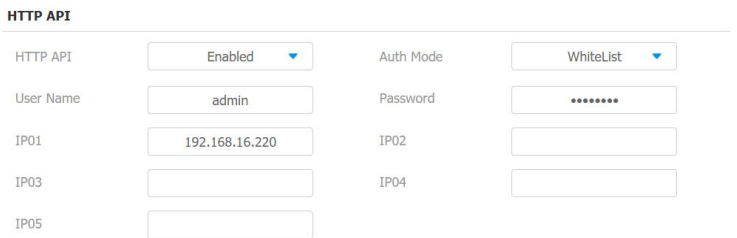

Figure 4.2.11 HTTP API

Basic, Digets, Token.

Username/Password: Used in basic and digest auth mode. The default username/password is **admin/httpapi**.

IP01~05: Configure the white list IP.

None	No authentication is required for http api, it is only used by demo testing.
Normal	(reserved)
WhiteList	The whitelist is suitable for operation in the LAN, by judging the IP address of the visitor to confirm whether to allow access to the HTTP API.
Basic	In Authorization field of Http request header, use Base64 encode method for the information of username and password.
Digets	Password encryption method, only supports MD5. In Authorization field of Http request header: WWW-Authenticate: Digest realm="HTTPAPI",qop="auth,auth-int",nonce="xx", opaque="xx".
Token	(reserved)

4.3. Access control

4.3.1. Webrelay

R29 series supports extra web relay. This function is more safety to use DTMF code to remote unlock. Login to the website and go to the path **Phone** - **Web Relay** to configure.

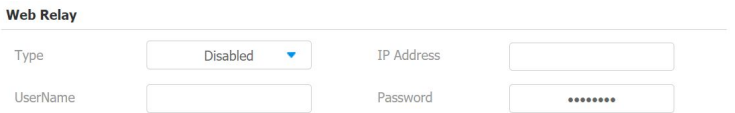

Figure 4.3.1-1 Web relay

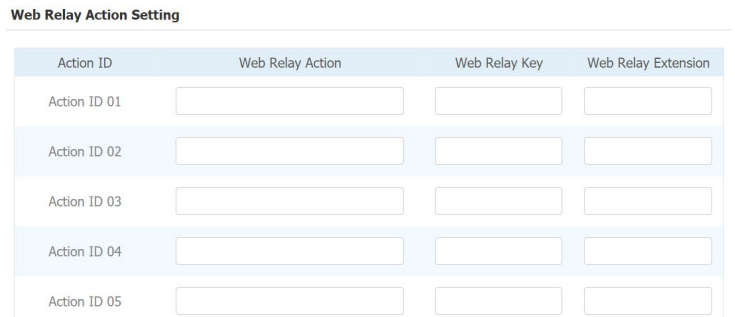

Figure 4.3.1-2 Web relay action setting

- **Web Relay**

Type: Connect web relay and choose the type.

IP Address: Enter web relay IP address.

User Name: It is an authentication for connecting web relay.

password: It is an authentication for connecting web relay.

Note: Users can modify username and password in web relay website.

- **Web Relay Action Setting**

Web Relay Action: Web relay action is used to trigger the web relay. The action URL is provided by web relay vendor

Web Relay Key: If the DTMF keys same as the local relay, the

web relay will be open with local relay. But if there are different, the web relay is invalid.

Web Relay Extension: The webrelay can only receive the DTMF signal from the corresponding extension number.

4.3.2. Wiegand

Login to the website and go to the path **Intercom** - **Advanced** - **Wiegand** to configure.

Wiegand Type: Support Wiegand 26,34,58. The different number means different bits.

Wiegand Mode: Input or output. Typically, when you select input, we generally connect the wiegand input device, such as the wiegand card reader. Or R29 series can be used as output, It is generally used to connect the third-party Access Control, then R29 series change the card information as wiegand signal, then transfer to the access control module.

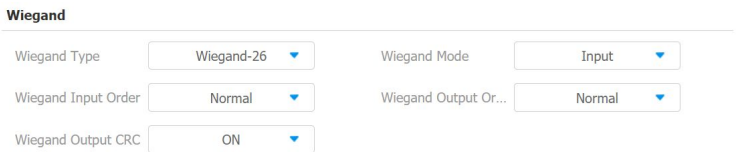

Figure 4.3.2 Wiegand

Wiegand Input/Output Order: To make the data from wiegand devices to be normal order or reversed order.

Wiegand Output CRC: To be compatible with the other three party wiegand access control which do not use the standard wiegand order, CRC can correct the order format.

4.4. Security

4.4.1. Antialarm of Door Phone

4.4.1.1. Antialarm in device

In the phone interface, go to **AntiAlarm** to configure it.

This function is used to trigger the alarm by perceiving the change of gravity. After the door phone has been installed, administrator can enable Antialarm function. if the device is moved illegally, the gravity of R29 series are different from the original status, then the device will ring alarm bell and send out the call to the predefined

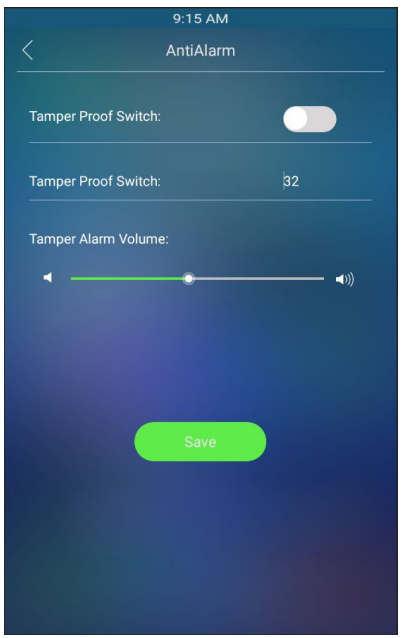

Figure 4.4.1.1 Antialarm

location. The detailed gravity sensor value can be adjusted in website.

Tamper Proof Switch: Switch this feature.

Tamper Proof Switch: The smaller the value, the more sensitive the gravity sensor is.

Tamper Alarm Volume: To configure the tamper alarm volume.

4.4.1.2. Antialarm in website

Login to the website and go to the path **Intercom** - **Advanced** - **Tamper Alarm** to configure.

R29 series integrates internal gravity sensor for the own security, and after enabling tamper alarm, if the gravity of R29 series changes dramatically, the phone will alarm. Gravity sensor threshold stands for sensitivity of sensor.

Figure 4.4.1.2 Tamper alarm

4.4.2. Motion

4.4.2.1. Motion in device

In the phone interface, go to **Motion** to configure. By enabling the motion detection function, the door phone will detect and record any change in the surrounding, such as suspicious people loitering around, and send notification message to a monitor unit.

Timing setting

If users only enable time mode and setup the interval. R29 series will take the picture in every interval time;

Only enable detection mode, R29 series will capture if there is any change of surrounding in the detection time;

Enable timing mode and detection mode in the same time, if there is no any change of surrounding, R29 series will capture in the interval time. Otherwise, the device will take the picture in detection mode.

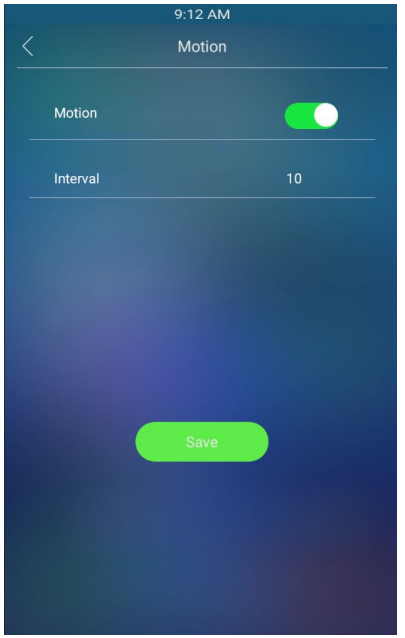

Figure 4.4.2.1 Motion

4.4.2.2. Motion in website

Login to the website and go to the path **Intercom** - **Motion** - **Motion Detection Options** to configure.

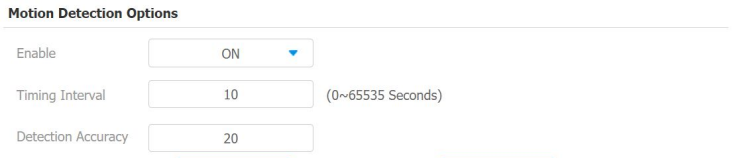

Figure 4.4.2.2 Motion detection options

Enable: To enable or disable motion detection.

Timing Interval: R29 series will take the picture in the interval time.

Detection Accuracy: The smaller value, the capture picture is more accurate.

After you setup motion, to configure the target address where to receive the pictures.

4.4.3. Action

Login to the website and go to the path **Intercom** - **Action** to configure the action related features.

4.4.3.1. Email Notification

The capture will be send to the predefined email address or FTP path. It is useful for users to check the capture picture for security.

Sender's email address: To configure email address of sender.

Receiver's email address: To configure email address of receiver.

SMTP server address: To configure SMTP server address of sender.

SMTP user name: To configure user name of SMTP service (usually it is same with sender's email address).

SMTP password: To configure password of SMTP service (usually it is same with the password of sender's email).

Email subject: To configure subject of email.

Email content: To configure content of email.

Email Test: To test whether email notification is available.

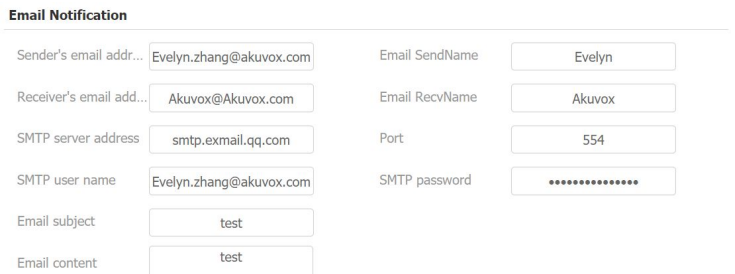

Figure 4.4.3.1 Email notification

4.4.3.2. FTP Notification

FTP Server: To configure URL of FTP server.

FTP User Name: To configure user name of FTP server.

FTP Password: To configure password of FTP server.

FTP Path: Enter the folder name you created in FTP server.

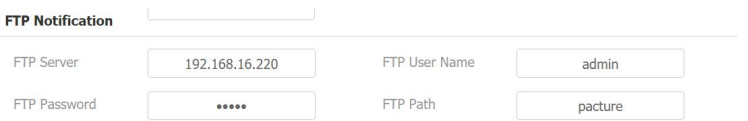

Figure 4.4.3.2 FTP notification

4.4.3.3. Input Interface Triggered Action

Go to the path **Intercom** - **Input** on the website to configure.

Action Delay: To configure after how long to execute to send out notifications and trigger relay.

Open Relay: To configure which relay to trigger.

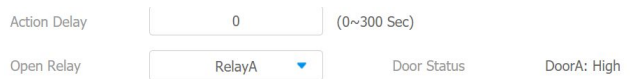

Figure 4.4.3.3 Input interface triggered action

4.4.3.4. Reception Action In Building

On the path **Intercom** - **Key/Display** - **Reception Action In Building**.

Action To Execute: To select the action when users press

Figure 4.4.3.4 Reception action in building

reception.

HTTP URL: If users choose HTTP mode, enter the URL format: http://http server IP address/any information.

4.5. Upgrade

4.5.1. Web Update

Login to the website and go to the path **Upgrade** - **Basic**, users can upgrade firmware.

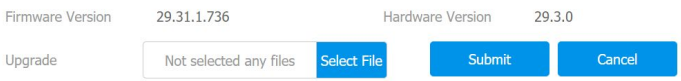

Figure 4.5.1 Web update

Upgrade: Choose .zip/.rom firmware from your PC, then click **Submit** to start update.

4.5.2. Autop Upgrade

Login to the website and go to the path **Upgrade** - **Advanced** to configure.

- **Manual Autop**

Autop is a centralized and unified upgrade of IP telephone. It is a simple and time-saving configuration for IP phone. It is mainly used by the device to download corresponding configuration document from the server using TFTP / FTP / HTTP / HTTPS network protocol. To achieve the purpose of updating the device configuration, making the user to change the phone configuration more easily. This is a typical C/S architecture upgrade mode, mainly by the terminal device or PBX server to initiate an upgrade request.

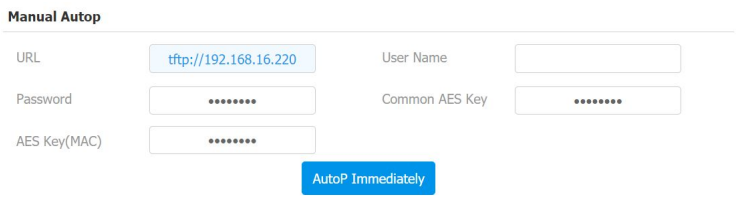

Figure 4.5.2-1 Manual Autop

URL: Auto provisioning server address.

User name: Configure if server needs an username to access, otherwise left blank.

Password: Configure if server needs a password to access, otherwise left blank.

Common AES Key: Used for IP phone to decipher common Auto Provisioning configuration file.

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).

Note: AES is one of many encryption, it should be configured only when configure file is ciphered with AES, otherwise left blank.

- **Automatic Autop**

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.

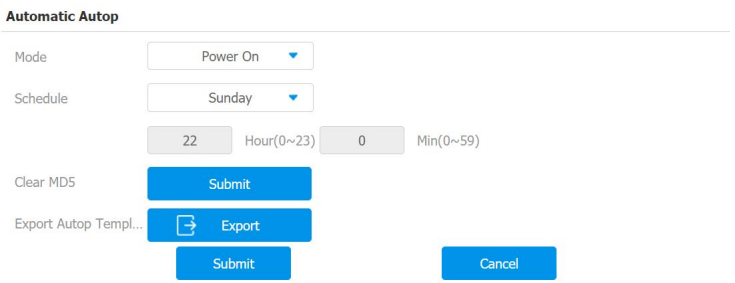

Figure 4.5.2-2 Automatic Autop

- **DHCP Option**

To display and configure DHCP setting for AutoP. Option 66/43 is enable by default. It can support Https, Http, Ftp, Tftp server.

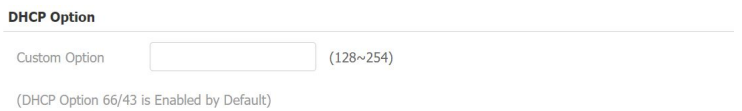

Figure 4.5.2-3 DHCP option

Customer Option: Enter the server URL. Click **Submit** to save.

Figure 4.5.3-2 Config

4.5.3. Backup Config File

Go to the path **Upgrade** - **Advanced** - **Others** to backup the config file.

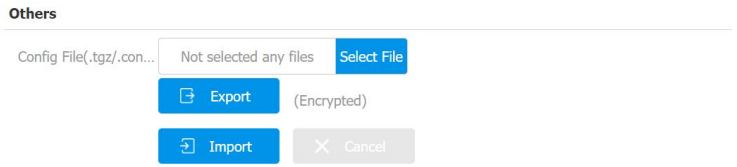

Figure 4.5.3-1 Config

Others: To export current config file or import new config file.

Note: The exported config here is encrypted.

Users can also go to the path **Phone** - **Import/Export** - **Import/Export Config&Contact** to export or import the config. Click **Export** to export the config file.

4.6. Log

4.6.1. Call Log

Login to the website and go to the path **Phonebook** - **Call Log**, users can see a list of call which have dialed, received or missed. And user can delete calls from list.

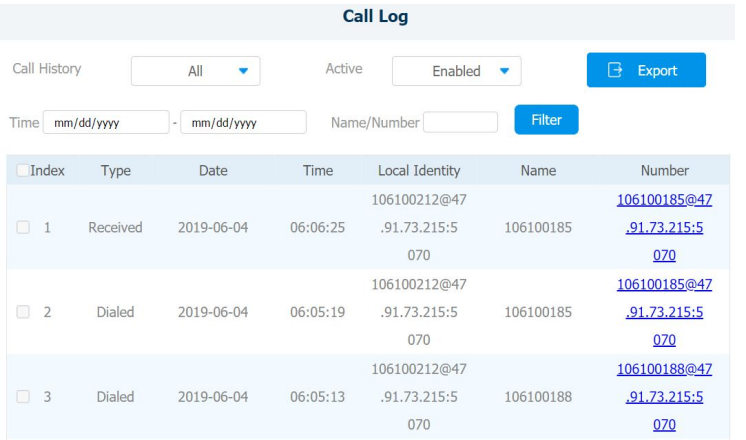

Figure 4.6.1 Call log

4.6.2. Door Log

Login to the website and go to the path **Phone** - **Door Log**, users can see a list of door log which records card information and date.

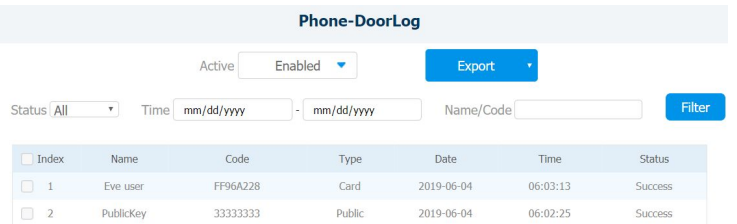

Figure 4.6.2 Door log

4.6.3. System Log

Go to the path **Upgrade** - **Advanced** - **System Log** on web GUI. To display system log level and export system log file.

System Log Level: From level 0 to 7. The higher level means the more specific system log is saved to a temporary file. By default,

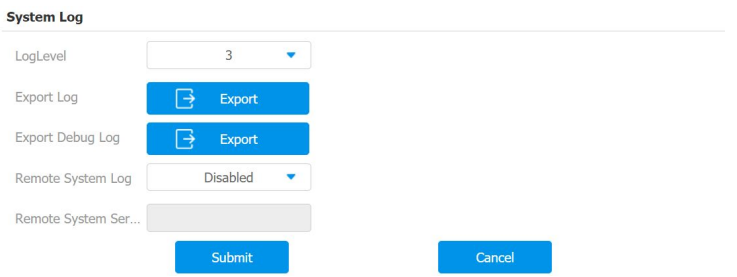

Figure 4.6.3 System log

it's level 3.

Export Log: Click to export temporary system log file to local PC.

Export Debug log: Click to export the debug log file to local PC.

Remote System Log: Enable/Disable remote system log.

Remote System Server: Configure a server address to receive devices log remotely.

4.6.4. PCAP

Go to the path **Upgrade** - **Advanced** - **PCAP** on web GUI. To start, stop packets capturing or to export captured Packet file.

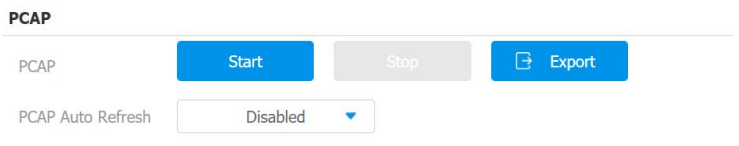

Figure 4.6.4 PCAP

Start: To start capturing all the packets file sent or received from IP phone.

Stop: To stop capturing packets.

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

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

Contact us

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