

ساعیان ارتباط

یکپارچگی و امنیت در ارتباط

Akuvox Smart Intercom



R29 Series Door Phone Admin Guide

About This Manual

Thank you for choosing Akuvox's R29S/F door phone. This manual is intended for end users, who need to properly configure the door phone. It provides all functions and configuration of R29S/F, the information detailed in this user manual applicable to firmware version 29.1.1.116.zip or lower version.

- Please verify the packaging content and network status before setting.
- The old firmware may be a little different from 29.1.1.116.zip about some configuration. Please consult your administrator for more information.

Contact Us

For more information about the product, please visit us at www.akuvox.com or feel free to contact us by

Sales email: sales@akuvox.com

Technical support email: techsupport@akuvox.com

Telephone: +86-592-2133061 ext.7694/8162

We highly appreciate your feedback about our products.

 **FCC Caution:**

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions : (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note : This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Specific Absorption Rate (SAR) information

SAR tests are conducted using standard operating positions accepted by the FCC with the device transmitting at its highest certified power level



ساعات ارتباط

یکپارچگی و امنیت در ارتباط

in all tested frequency bands, although the SAR is determined at the highest certified power level, the actual SAR level of the device while operating can be well below the maximum value. Before a new product is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the exposure limit established by the FCC, tests for each phone are performed in positions and locations as required by the FCC.

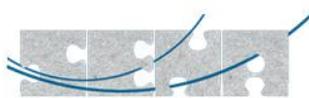
For headset, this part has been tested and meets the FCC RF exposure guidelines when used with an accessory designated for this product or when used with an accessory that contains no metal.

For baseband, this equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

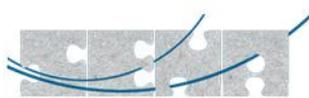
Content

1. Product Overview	4
1.1. Instruction.....	4
1.2. Connector Introduction.....	5
2. Phone Setting	6
2.1. Access the system setting.....	7
2.2. Account.....	7
2.3. Contact.....	8
2.3.1. Create a Group.....	8
2.3.2. Edit a Group.....	8
2.3.3. Create a contact.....	8
2.3.4. Edit a contact.....	8
2.4. Lock.....	9
2.5. LockPasswd.....	10
2.6. Unlock by RF card.....	10
2.7. Reboot.....	11
2.8. Motion.....	12

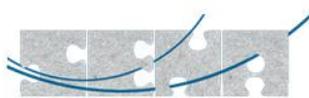
2.9. Unlock by face(optional).....	13
2.10. Replace rule.....	14
2.11. Device.....	15
2.12. Quick Dial.....	15
2.13. Monitor.....	16
2.14. Antialarm.....	16
2.15. LEDES.....	17
2.16. Restore.....	17
3. Website Basic.....	18
3.1. Access the device website.....	18
3.2. Intercom-Basic.....	18
3.2.1. Door setting general.....	18
3.2.2. Home View Visible Control.....	19
3.2.3. Password.....	20
3.2.4. Call&Dial Time.....	21
3.3. Intercom-LED Setting.....	21
3.4. Intercom-Relay.....	22



3.4.1. Relay.....	22
3.4.2. Open Relay via HTTP.....	23
3.5. Intercom-Input.....	23
3.6. Intercom-Face(Optional).....	24
3.7. Account-Basic.....	25
3.8. Network Setting.....	26
3.8.1. DHCP.....	26
3.8.2. Static IP.....	27
3.9. Phone-Time/Language.....	27
3.10. Phone-Call feature.....	27
3.10.1. DND.....	27
3.10.2. Call Waiting.....	28
3.10.3. Intercom.....	29
3.10.4. No Answer Call.....	29
3.10.5. Others.....	29
3.11. Dial plan.....	30
3.12. Door Log.....	30



3.13. PhoneBook.....	31
3.14. Call Log.....	32
4. Website- Advance.....	33
4.1. Intercom-Advance.....	33
4.1.1. Standby.....	33
4.1.2. LED.....	34
4.1.3. Tamper Alarm.....	34
4.1.4. Wiegand.....	35
4.1.5. RFID.....	36
4.1.6. Mjpeg Service.....	36
4.2. Intercom-RTSP.....	37
4.3. Intercom-ONVIF.....	37
4.4. Intercom-Motion.....	38
4.5. Intercom-Action.....	39
4.5.1. Email Notification.....	39
4.5.2. FTP Notification.....	40
4.6. Account-Advanced.....	40



4.6.1. Audio Codec.....	40
4.6.2. Video Codec.....	41
4.6.3. Subscribe.....	41
4.6.4. DTMF.....	42
4.6.5. Call.....	42
4.6.6. Session timer.....	43
4.6.7. NAT.....	43
4.6.8. User Agent.....	44
4.7. Import/Export.....	44
4.7.1. Config&Contact.....	44
4.7.2. Private key.....	45
4.7.3. RF key.....	45
4.7.4. Upload ScreenSaver.....	45
4.7.5. Open Door Tone.....	46
4.7.6. Contact Background.....	46
4.8. Upgrade-Basic.....	47
4.9. Upgrade-Advanced.....	47



4.9.1. Manual Autop.....	48
4.9.2. Automatic Autop.....	49
4.9.3. System Log.....	49
4.9.4. PCAP.....	50
4.9.5. Others.....	50
4.10. Security-Basic.....	50
4.10.1. Web Password Modify.....	50

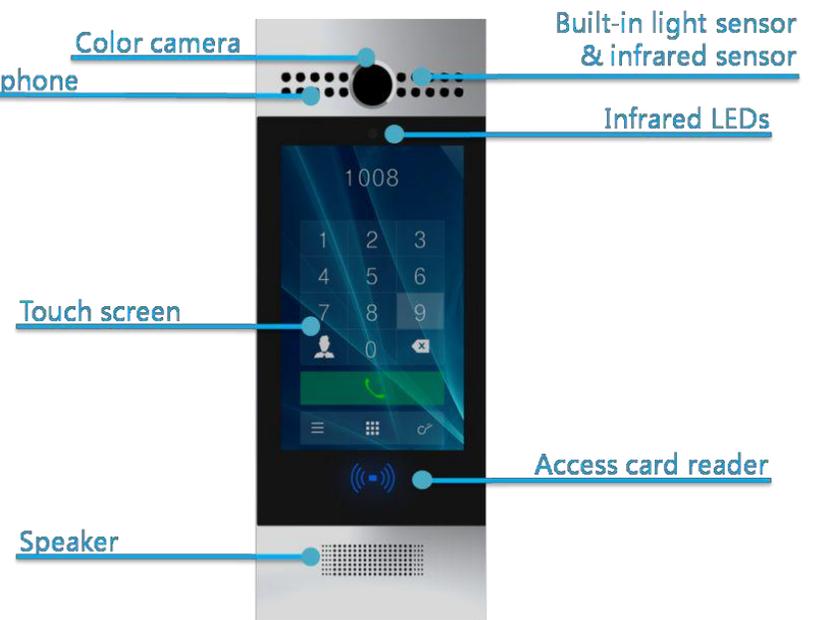
1. Product Overview

1.1. Instruction

R29S/F 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. Powered by it, 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.

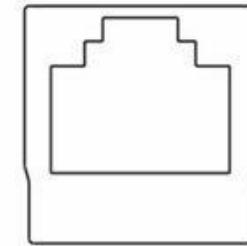
It is applicable to multi-storey residential buildings, high-rise office buildings and their complexes.



1.2. Connector Introduction

Connector	
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.

GND
12V
GND
WG_D1
WG_D0
GND
DOORC
GND
DOORB
GND
DOORA
GND
RS485B
RS485A



Ethernet (POE)

NO	RelayA
COM	
NC	
NO	RelayB
COM	
NC	
NO	RelayC
COM	
NC	

2. Phone Setting

2.1. Access the system setting

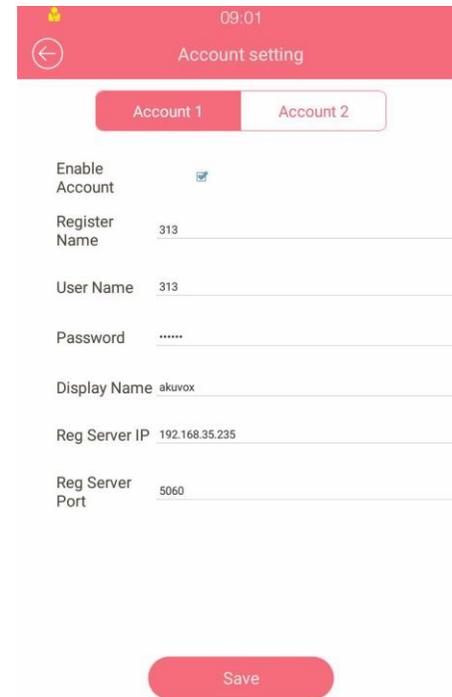
In the Dial interface, press 9999 + Dial key, then input 3888 to enter the system setting. System setting is easy to configure most basic phone functions.

2.2. Account

R29S/F supports 2 accounts. According to your needs, register one or two accounts and users can switch them by yourselves.

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. R29S/F will choose the account 1 as the default account.



The screenshot shows the 'Account setting' interface. At the top, there is a red header bar with a back arrow, a home icon, and the time '09:01'. Below the header, there are two tabs: 'Account 1' (selected) and 'Account 2'. The main area contains several settings:

- Enable Account:
- Register Name: 313
- User Name: 313
- Password:
- Display Name: akuvox
- Reg Server IP: 192.168.35.235
- Reg Server Port: 5060

At the bottom, there is a red 'Save' button.

2.3. Contact

2.3.1. Create a Group

Choose group, click Add to enter the new group name. Press OK to save.

2.3.2. Edit a Group

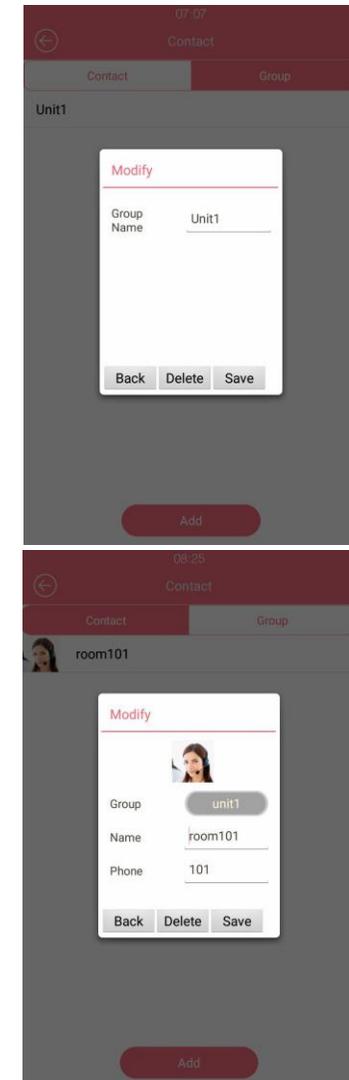
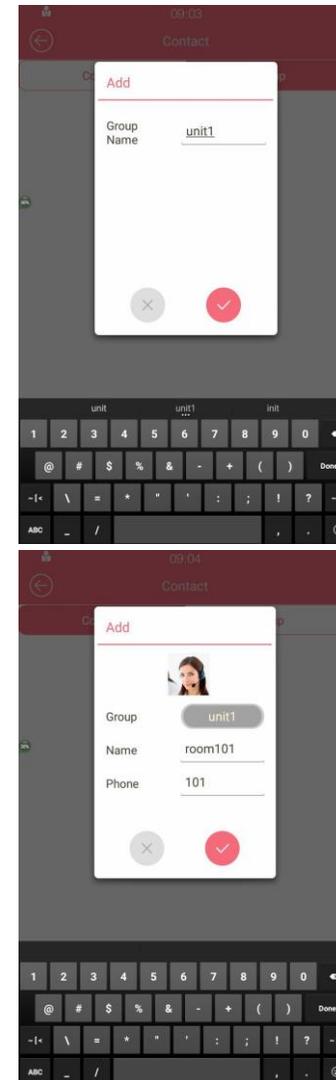
Choose the existed group to modify or delete.

2.3.3. Create a contact

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

2.3.4. Edit a contact

Choose a exist contact to edit or delete it.



2.4. Lock

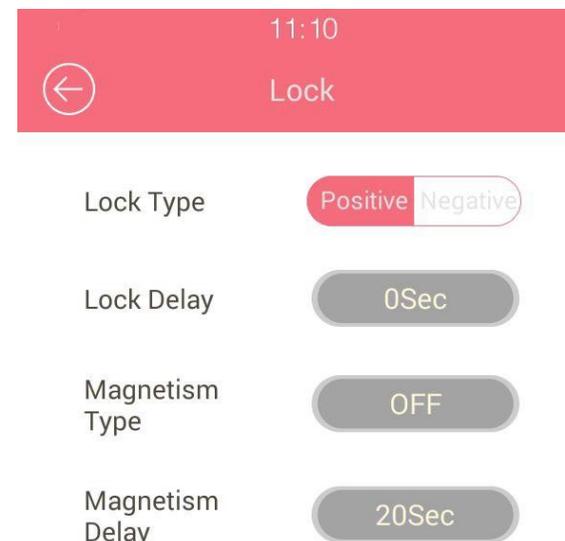
Press “Lock” to configure door lock and door sensor.

Lock Type: Door lock can be configure as “Positive” or “Negative”,it depends on the connection of the wire to corresponding interface on the back. There are three terminal of relay: NO, NC and COM. NO stands for normally open contact while NC stands for normally closed contact. Default state means NC and COM are normally closed, while Negative state means NC and COM are normally opened.

Lock delay: Allows door remain “open” for certain period, it range from 0s to 10s.

Magnetism Type: supports 3 modes: “OFF”, “On_Alarm” and “Off_Alarm”. “OFF” indicates disable door sensor. “On_Alarm” means short circuit alarm and “Off_Alarm” means open circuit alarm. Different modes depends on different types magnetism. Please consult manufacturer about magnetism type.

Magnetism Delay : R29S/F will alarm after the magnetism delay time.



2.5. LockPasswd

In the system interface-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 room 101, private key is 11111111, device name is 1.

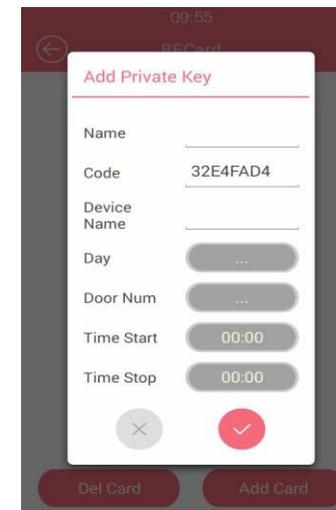
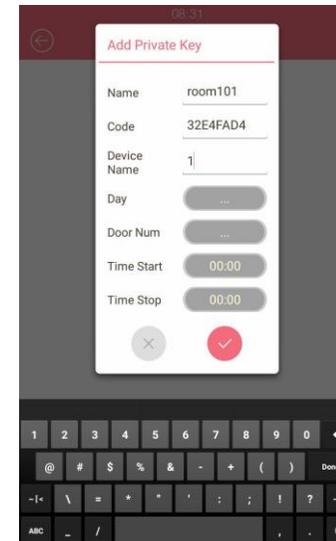
and I set up the valid day from Mon to Sun, click  to save.

2.6. Unlock by RF card

R29S/F can be compatible with 13.56MHZ and 125KHZ RF card.

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.

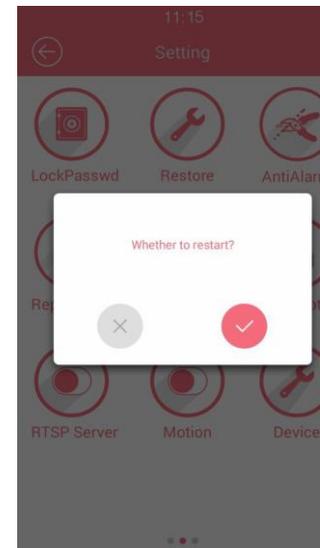
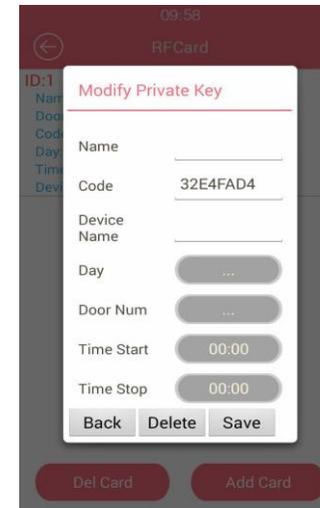
Or you can just choose the exited card from the list, select directly.

Use

Put the registered card near the card reader, the door will be opened.

2.7. Reboot

Click to make the phone reboot



2.8. Motion

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.

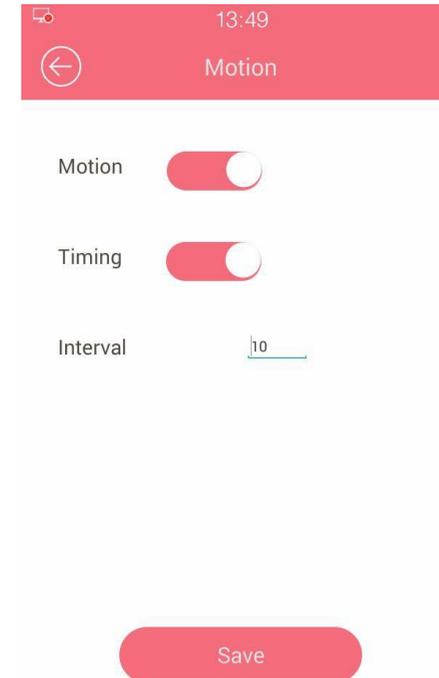
Timing setting

If user only enable time mode and setup the interval . R29S/F will take the picture in every interval time;

Only enable detection mode, R29S/F 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 , R29S/F will capture in the interval time.

Otherwise ,the device will take the picture in detection mode.



2.9. Unlock by face(optional)

Add:

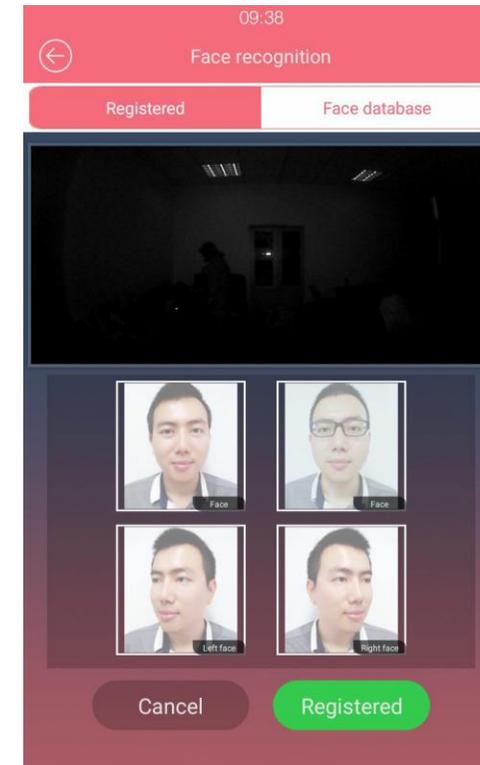
Close your face to the camera, aimed at the green box in the screen. According the tip on the screen. Click Next once and the device will record one angle of your face, users need to put four different angles of your face into the device.

Modify:

Click Face database, choose the existed database to delete.

Use:

Enter Unlock interface, close your face to the camera. You will hear “the door is opened”



2.10. Replace rule

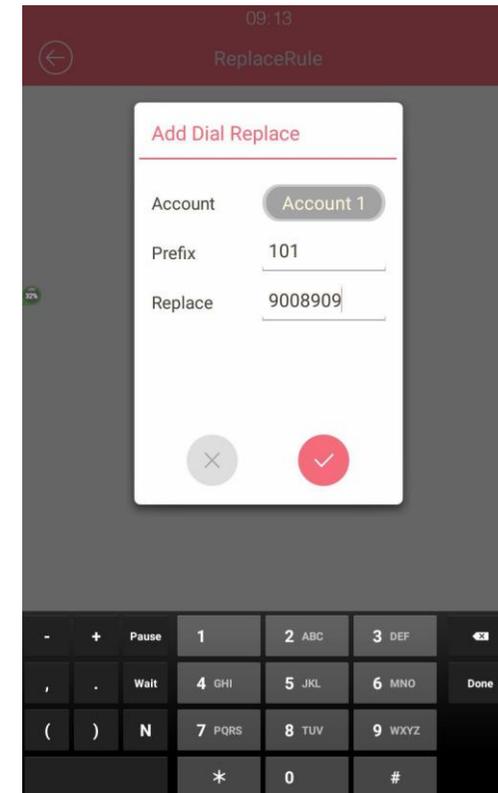
Replace rule is using some simple number or symbol to replace a complicated phone number or IP address. It is more suitable for some one who want to hide the real phone number or simplify the long number.

This is more convenient for user.

Enter system setting-Replace Rule, click Add, choose a suitable account and enter the value, press OK to confirm.

For Example:

Room101's phone number is 9008909, user can pre-configure 101 to replace 9008909 in the door phone; then the guest can only press 101 to call room101 via Account 1, no need to remember the long phone number.



2.11. Device

User can setup the device name to limit the unlock permissions.

2.12. Quick Dial

Quick Dial is calling predefined important number quickly in main interface. This number is often set as emergency number.

Enter system setting - Quick Dial, switch the type as Quick Dial, enter the quick dial name and number, click Save to confirm.



2.13. Monitor

RTSP: Real Time Streaming Protocol, this protocol is used to transmit the media data via TCP or UDP mode in Network.R29S/F can be monitored by indoor phone, Akuvox Vbell or the third party software via RTSP protocol.

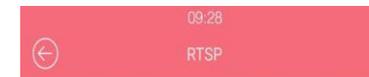
RTSP Stream: `rtsp:// R29S/F IP add/live/ch00_0`

Just need to enable RTSP function in RTSP setting

2.14. Antialarm

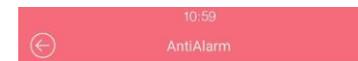
This function is used to trigger the alarm by perceiving the change of gravity. After the door phone has been installed, administrator can enable Antialarm function. if the device is moved illegally, the gravity of R29S/F is different from the original status, then the device will ring alarm bell and send out the call to the predefined location. The detailed gravity sensor value can be adjusted in Website.

Tamper Proof Switch: Switch this feature.



RTSP Server

Save



Tamper Proof Switch:

Tamper Proof Switch:

Save

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

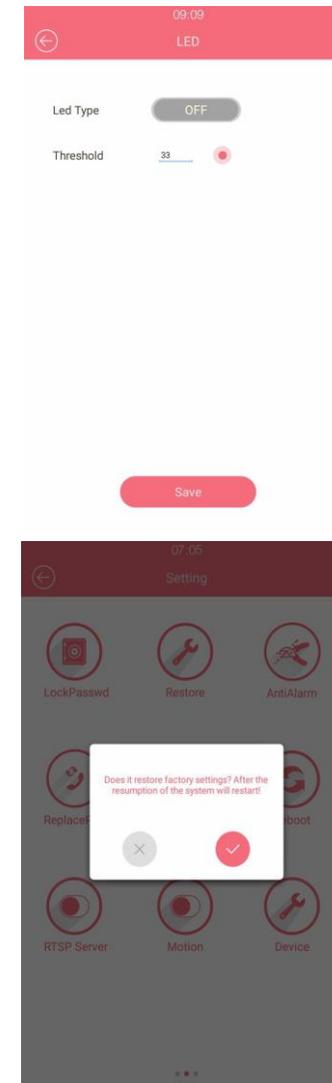
2.15. LEDES

Setup the LED, the device will automatic enable Infrared LED in the insufficient light environment. It can supports three modes - OFF, ON, AUTO. Click the Threshold key, it will automatic show the current intensity. Once the environment intensity is darker than the predefined Threshold value, LED will be up.

Setup the LED type as Auto, click Threshold button to sense the intensity of the current environment or user can setup the value manually,click Save to submit.

2.16. Restore

Click Restore, if you sure to reset ,please choose OK in the prompt window.



3. Website Basic

3.1. Access the device website

Users can also choose configure in website. Enter the phone system setting interface, click Info to check the current IP address. Then enter the IP address into your browser. Input the username and password (admin by default) to login.

3.2. Intercom-Basic

3.2.1. Door setting general

Display Type: Setup the home page's default display interface. There are four types can be choice — Dial, Contact, Only-Contact, ContactPic.

RTP Timeout: This feature is specially designed for R47P. When R47P auto answer in mute status, if over the configured time R29S/F did not receive the RTP message, R29S/F will hang up automatically.

Number of Show Contacts: User can setup 0 to 8 top contacts under Only -Contact mode. The top contacts are some important or commonly used numbers.

Open Door Tone: Switch whether you will hear the “the door is opened” announcement.

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

RF Card Enable: to disable RF card unlock function.

Contact profile Picture: To setup whether it will show contact picture or not.

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

3.2.2. Home View Visible Control

User can setup whether the Home page-Dial interface, Contact interface,Unlock interface is visible. For example, if only enable DialView, you will only see Dialing interface , the other two will be hided.

Door Setting General	
Display Type	Dial
RTP TimeOut	20
Number of Show Contacts	4
Open Door Tone	Enable
Item Touch	Enable
RF Card Enable	Enable
Contacts Profile Picture	Enable
DialPad Input Number Limit	Default

Home View Visible Control	
DialView	VISIBLE
ContactView	VISIBLE
Password	VISIBLE

3.2.3. Password

Users can configure project key and public key with this function. Public key is a 8-digit password used by all occupants in a building. Project key is used by administrators for some basic settings.

Public Enable: The default status is on.

PublicKey Bits Limit: Setup the key digits.

Public Key: R29/F support 3 default public keys, users can reset a new public key. The key must be 8 digits number.

Project Key: It is used to enter the project setting, the default project key is 9999.

User Setting Key: The password which is used to enter the project setting.

Password	
PublicKey Enable	<input type="text" value="ON"/>
PublicKey Bits Limit	<input type="text" value="Default(8 Bits)"/>
PublicKey_0	<input type="text" value="33333333"/>
PublicKey_1	<input type="text" value="66666666"/>
PublicKey_2	<input type="text" value="88888888"/>
ProjectKey	<input type="text" value="9999"/>
User Setting Key	<input type="text" value="3888"/>

3.2.4. Call&Dial Time

Max Call Time: To configure the max call 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.

Max Call Time	
Max Call Time	5 (2~30Minutes)
Max Dial Time	
Dial In Time	60 (30~120Sec)
Dial Out Time	60 (30~120Sec)

3.3. Intercom-LED Setting

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.

LED Control	
Card LED Enable	Disabled ▼
Start Time (H)	18 - 23 (0~23)

3.4. Intercom-Relay

Go to Intercom->Relay, to configure relay.

3.4.1. Relay

There are three terminal of relay: NO, NC and COM. NO stands for normally open contact while NC stands for normally closed contact.

Relay ID: R29S/F supports three relays, user can configure them respectively.

Relay 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, R29S/F 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.

Relay Status: Low means that COM is connecting to NC while High

Relay			
Relay ID	RelayA ▼	RelayB ▼	RelayC ▼
Relay Delay(sec)	5 ▼	5 ▼	5 ▼
DTMF Option	1 Digit DTMF ▼		
DTMF	# ▼	* ▼	0 ▼
Multiple DTMF	010	012	013
Relay Status	RelayA: Low	RelayB: Low	RelayC: Low

means that COM is connecting to NO

3.4.2. Open Relay via HTTP

User can use a URL to remote unlock the door. It is more convenient for user too open the door if he is not beside the devices

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=&Password=&

DoorNum=1

3.5. Intercom-Input

R29S/F supports 3 input triggers Input A/B/C(DOOR A/B/C), and go to Intercom->Input to configure.

Input Service: To enable or disable input trigger service.

Trigger Option: To choose open circuit trigger or closed circuit trigger.

Open Relay via HTTP

Enable	<input type="text" value="ON"/>
UserName	<input type="text" value="william"/>
Password	<input type="password" value="....."/>

Input

Input A

Input Service	<input type="text" value="Enable"/>
Trigger Option	<input type="text" value="Low"/>
Action Delay	<input type="text" value="0"/> (0~300 Sec)
Open Relay	<input type="text" value="RelayA"/>
Door Status	DoorA: High

Input B

Input Service B	<input type="text" value="Enable"/>
Trigger Option	<input type="text" value="Low"/>
Action Delay	<input type="text" value="0"/> (0~300 Sec)
Open Relay	<input type="text" value="RelayB"/>
Door Status	DoorB: High

Input C

Input Service C	<input type="text" value="Enable"/>
Trigger Option	<input type="text" value="Low"/>
Action Delay	<input type="text" value="0"/> (0~300 Sec)
Open Relay	<input type="text" value="RelayC"/>
Door Status	DoorC: High

Low means that connection between Door terminal and GND is closed, while High means the connection is opened.

Action Delay: To setup the delay time to trigger the corresponding relay or sending the notification to the email/server.

Open relay: To configure relay to open.

Door status: To show the status of input signal.

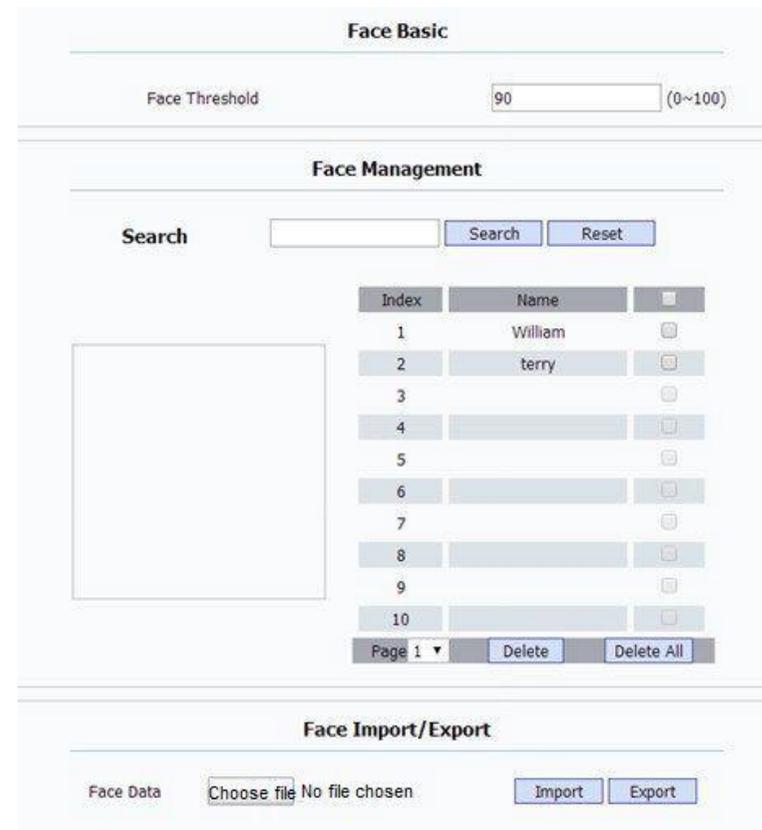
3.6. Intercom-Face(Optional)

Face Threshold: the value is smaller, the face accuracy is lower.

Search: Enter key word to quick search. Check the existed 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 R29F can not support the third party camera to enter the face picture now. Users need to directly take face data in the R29F ,then export the existed face file. It is convenient to



The screenshot displays a web interface for face management, divided into three main sections:

- Face Basic:** Contains a 'Face Threshold' input field with the value '90' and a range '(0~100)'.
- Face Management:** Includes a search bar with 'Search' and 'Reset' buttons. Below it is a table of face data:

Index	Name	
1	William	
2	terry	
3		
4		
5		
6		
7		
8		
9		
10		

 At the bottom of the table are 'Page 1', 'Delete', and 'Delete All' buttons.
- Face Import/Export:** Features a 'Face Data' label, a 'Choose file' button, and the text 'No file chosen'. It also includes 'Import' and 'Export' buttons.

share the same face data in multiple devices.

3.7. Account-Basic

Go to Account->Basic to configure sip account and sip server.

Status: To display register result.

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 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.

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

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

Outbound Proxy Server: To display and configure Outbound Proxy

Account-Basic			
SIP Account			
Status	Registered		
Account	Account 1		
Account Active	Enabled		
Display Label	11151		
Display Name	R20		
Register Name	11151		
User Name	11151		
Password	••••••••		
SIP Server 1			
Server IP	47.88.77.14	Port	5070
Registration Period	1800		(30~65535s)

server settings. An outbound proxy server is used to receive all initiating request messages and route them to the designated SIP server.

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:** A DNS RR for specifying the location of services.

3.8. Network Setting

Go to Network->Basic, dynamically or statically to obtain address.

3.8.1. DHCP

R29S/F uses DHCP by default, it will get IP address, Subnet Mask, Default Gateway and DNS server address from DHCP server automatically.

SIP Server 2	
Server IP	<input type="text"/> Port <input type="text" value="5060"/>
Registration Period	<input type="text" value="1800"/> (30~65535s)
Outbound Proxy Server	
Enable Outbound	<input type="text" value="Disabled"/>
Server IP	<input type="text"/> Port <input type="text" value="5060"/>
Backup Server IP	<input type="text"/> Port <input type="text" value="5060"/>
Transport Type	
<input type="text"/>	

3.8.2. Static IP

If selected, you could manually set IP address, Subnet Mask, Default Gateway and DNS server. The figure below shows static IP setting.

3.9. Phone-Time/Language

Now R29S/F can support multiple web language. User can choose manually. Akuvox uses English by default.

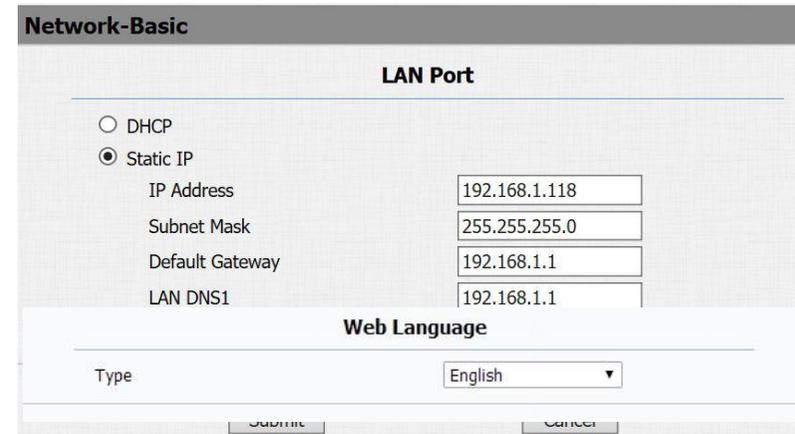
3.10. Phone-Call feature

3.10.1. DND

DND (Do Not Disturb) allows IP phones to ignore any incoming calls.

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



Network-Basic

LAN Port

DHCP
 Static IP

IP Address: 192.168.1.118
 Subnet Mask: 255.255.255.0
 Default Gateway: 192.168.1.1
 LAN DNS1: 192.168.1.1

Web Language

Type: English

Submit Cancel



DND

Account: All Account
 DND: Disabled
 Return Code When DND: 486(Busy Here)
 DND On Code:
 DND Off Code:

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.

3.10.2. Call Waiting

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 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 call 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.

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

3.10.3. Intercom

Intercom allows user to establish a call directly with the callee.

Active: To enable or disable Intercom feature.

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

Intercom	
Active	Enabled ▼
Intercom Mute	Disabled ▼

No Answer Call	
No Answer Call	Enabled ▼
No Answer Call 1	105
No Answer Call 2	106

3.10.4. No Answer Call

This feature is used to transfer the call to the target number in order if the calling is no answered with timeout.

To setup two No answer call number. They will be called by order.

3.10.5. Others

Return Code When Refuse: Allows user 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.

Auto Answer Delay: To configure delay time before an incoming call is

Others	
Return Code When Refuse	486(Busy Here) ▼
Auto Answer Delay	0 (0~5 Seconds)
Auto Answer Mode	Video ▼
Direct IP	Enabled ▼
Call Volume	Enabled ▼

automatically answered.

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

Call volume: To show the volume adjustment in the talking interface.

3.11. Dial plan

Allow user to modify selected rules information. Once user dial prefix value, it will call out Replace number.

- Click Add to add new replace rules
- Select account for the replace rule
- Input a suitable prefix value. Enter the replace number.
- Click Submit to save.

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

3.12. Door Log

Go to Phone->Door Log, user can see a list of door log which records card information and date.

Dial Plan

Rules Replace Rule ▾

Index	Account	Prefix	Replace	<input type="checkbox"/>
1	Auto	100	987349	<input type="checkbox"/>
2				<input type="checkbox"/>
3				<input type="checkbox"/>
4				<input type="checkbox"/>
5				<input type="checkbox"/>
6				<input type="checkbox"/>
7				<input type="checkbox"/>
8				<input type="checkbox"/>
9				<input type="checkbox"/>
10				<input type="checkbox"/>

Add Edit Delete

Door Log

Door Log

Index	Name	Code	Date	Time	<input type="checkbox"/>
1	William	57FAC741	2017-12-22	10:30:34	<input type="checkbox"/>
2					<input type="checkbox"/>
3					<input type="checkbox"/>
4					<input type="checkbox"/>
5					<input type="checkbox"/>
6					<input type="checkbox"/>
7					<input type="checkbox"/>
8					<input type="checkbox"/>
9					<input type="checkbox"/>
10					<input type="checkbox"/>
11					<input type="checkbox"/>
12					<input type="checkbox"/>
13					<input type="checkbox"/>
14					<input type="checkbox"/>
15					<input type="checkbox"/>

Page 1 ▾ Prev Next Delete Delete All

3.13. PhoneBook

To display and select local contact type.

Contact: To display or edit all local contacts.

Search: To search designated contacts from local phonebook.

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

Contact Setting

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

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

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

Contact All Contacts

Search Search Reset

Dial Auto Dial Hand Up

Index	Name	Phone	Group	
1	Akuvox	3234	Default	<input type="checkbox"/>
2				<input type="checkbox"/>
3				<input type="checkbox"/>
4				<input type="checkbox"/>
5				<input type="checkbox"/>
6				<input type="checkbox"/>
7				<input type="checkbox"/>
8				<input type="checkbox"/>
9				<input type="checkbox"/>
10				<input type="checkbox"/>

Page 1 Prev Next Delete Delete All

Contact Setting

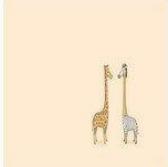
Name

Phone

Group Default

Photo ting.jpg

Note: **Please upload the photo before editing contact if necessary**



Add Edit Cancel Choose file No fi...osen Import Delete

Group

Index	Name	
1	Akuvox1	<input type="checkbox"/>
2		<input type="checkbox"/>
3		<input type="checkbox"/>
4		<input type="checkbox"/>
5		<input type="checkbox"/>

Delete Delete All

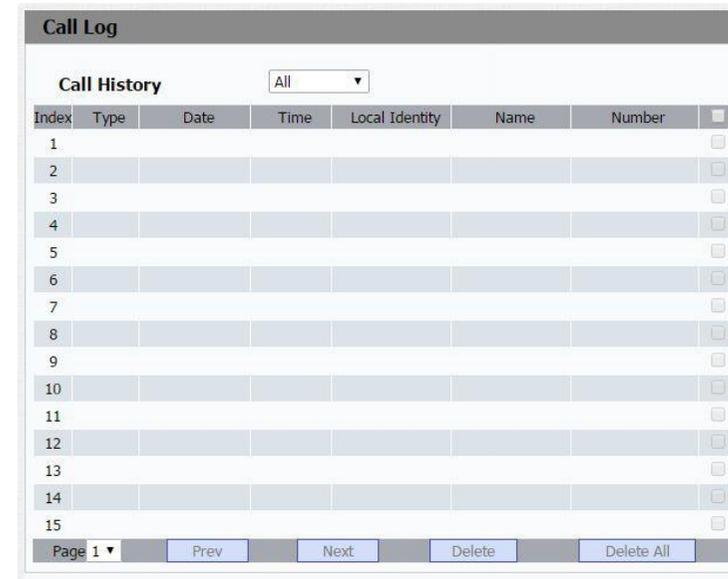
Group Setting

Name

Add Edit Cancel

3.14. Call Log

Go to Phone->Call Log, user can see a list of call which have dialed, received or missed. And user can delete calls from list.



The screenshot shows a web interface titled "Call Log". At the top, there is a "Call History" section with a dropdown menu set to "All". Below this is a table with columns: Index, Type, Date, Time, Local Identity, Name, Number, and a checkbox. The table contains 15 rows, each with a number in the Index column and a checkbox in the last column. At the bottom of the table, there is a navigation bar with "Page 1" (dropdown), "Prev", "Next", "Delete", and "Delete All" buttons.

Index	Type	Date	Time	Local Identity	Name	Number	<input type="checkbox"/>
1							<input type="checkbox"/>
2							<input type="checkbox"/>
3							<input type="checkbox"/>
4							<input type="checkbox"/>
5							<input type="checkbox"/>
6							<input type="checkbox"/>
7							<input type="checkbox"/>
8							<input type="checkbox"/>
9							<input type="checkbox"/>
10							<input type="checkbox"/>
11							<input type="checkbox"/>
12							<input type="checkbox"/>
13							<input type="checkbox"/>
14							<input type="checkbox"/>
15							<input type="checkbox"/>

4. Website- Advance

4.1. Intercom-Advance

4.1.1. Standby

Go to Phone-Door Setting-StandBy to setup

StandBy Mode: There are 3- type modes - Image, Black and None. The default is Image.

StandBy Time: The default is 60sec. The maximum is 180sec.

Unlocked Mode: Auto or Manual. Auto means the screensaver will be wake up automatically in a short distance. Or you need to slide the screen to wake up the device manually.

StandBy	
StandBy Mode	Image ▼
StandBy Time	60 ▼
Unlocked Mode	Auto ▼

4.1.2. LED

The setting is for night vision, when the surrounding of R29S/F is very dark, infrared LED will turn on and R29S/F will turn to night mode to let the househost see video clearly from the R29S/F.

LED Type: Three types OFF ,ON or Auto. Only choose Auto mode,You need to setup photorsistor setting.

Photorsistor Setting: Photoresistor value relates to light intensity and larger value mean that light intensity is smaller. User can configure the upper and lower bound and when photoresistor value is larger than upper bound, if LED will turn on. As contrast, when photoresistor value is smaller than lower bound, infrared LED will turn off and device turns to normal mode.

LED	
LED Type	Always OFF ▾
Photoresistor Setting	200 - 500 (0~1000)

4.1.3. Tamper Alarm

R29S/F integrates internal gravity sensor for the own security, and after enabling Tamper Alarm, if the gravity of R29S/F changes dramatically,

Tamper Alarm	
Tamper Alarm	OFF ▾
Gravity Sensor Threshold	32 (0~127)

the phone will alarm. Gravity Sensor Threshold stands for sensitivity of sensor.

4.1.4. Wiegand

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 R29S/F can be used as output, It is generally used to connect the third-party Access Control, then R29S/F change the card information as wiegand signal, then transfer to the access control module.

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

Wiegand 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.

Wiegand	
Wiegand Type	Wiegand-26 ▼
Wiegand Mode	Input ▼
Wiegand Input Order	Normal ▼
Wiegand Output Order	Normal ▼
Wiegand Output CRC	ON ▼

4.1.5. RFID

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

Open Door Warning: Disable it, you will not hear the prompt voice when the door is opened.

4.1.6. Mjpeg Service

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.cgi)

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

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

RFID	
RFID Display Mode	8HN ▼
IDCARD Display Mode	8HN ▼
WIEGAND Display Mode	8HN ▼

Open Door Warning	
Open Door Succ	ON ▼
Open Door Failed	ON ▼

Mjpeg Service	
Mjpeg Service Enable	OFF ▼
Image Quality	1080P ▼

4.2. Intercom-RTSP

R29S/F supports RTSP stream, go to Intercom->RTSP, to enable or disable RTSP server. The URL for RTSP stream is:

rtsp://IP_address/live/ch00_0



RTSP Basic

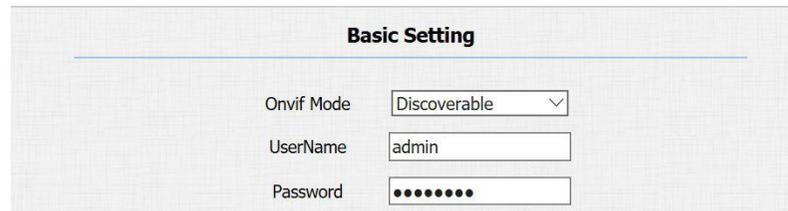
RTSP Server Enabled

4.3. Intercom-ONVIF

R29S/F supports ONVIF protocol, which means R29S/F's camera can be searched by other devices, like NVR, which supports ONVIF protocol as well. Go to Intercom->Onvif, to configure Onvif Mode and its username/password.

Switching Onvif Mode to undiscoverable means that User must program Onvif's URL manually. The Onvif's URL is:

http://IP_address:8090/onvif/device_service



Basic Setting

Onvif Mode Discoverable

UserName admin

Password

4.4. Intercom-Motion

Motion Detection: To enable or disable Motion Detection

Timing: If user only enable time mode and setup the interval . R29S/F will take the picture in every interval time;

Notification: It supports two types FTP and EMAIL.

Timing: If user only enable time mode and setup the interval . R29S/F will take the picture in every interval time;

Timing interval: R29S/F will take the picture in the interval time.

Detection Delay: Setup the time interval for detection

Capture Delay: Setup the capture delay 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.

Motion Detection Options	
Enable	OFF ▼
Timing	OFF ▼
Notification	FTP ▼
Timing Interval	10 (0~65535 Seconds)
Detection Delay	60
Capture Delay	10
Detection Accuracy	20

4.5. Intercom-Action

4.5.1. 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 namer 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.

Email Notification	
Sender's email address	<input type="text" value="inn.lian@akuvox.com"/>
Email SendName	<input type="text" value="inn"/>
Receiver's email address	<input type="text" value="akuvox@akuvox.com"/>
Email RecvName	<input type="text" value="akuvox"/>
SMTP server address	<input type="text" value="akuvox@akuvox.com"/> Port <input type="text" value="8081"/>
SMTP user name	<input type="text" value="akuvox"/>
SMTP password	<input type="password" value="....."/>
Email subject	<input type="text" value="pic"/>
Email content	<input type="text" value="pic from R29"/>

4.5.2. 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.



FTP Notification

FTP Server: ftp://192.168.35.48

FTP User Name: admin

FTP Password:

FTP Path: picture

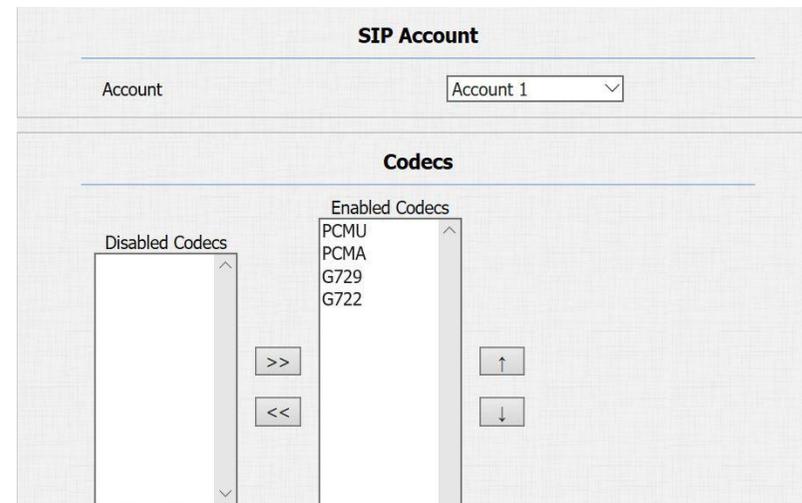
4.6. Account-Advanced

Go to Account->Advanced to configure advanced settings for account.

4.6.1. Audio Codec

Sip Account: To choose which account to configure.

Audio Codec: R29S/F support four audio codec: PCMA, PCMU, G729, G722. Different audio codec requires different bandwidth, user can enable/disable them according to different network environment.



SIP Account

Account: Account 1

Codecs

Disabled Codecs

Enabled Codecs: PCMU, PCMA, G729, G722

Bandwidth consumption and sample rates.

PCMA:	64kbit/s	8kHz	
PCMU:	64kbit/s	8kHz	
G729:	8kbit/s	8kHz	Least consumption
G722:	64kbit/s	16kHz	Best quality

4.6.2. Video Codec

R29S/F supports H264 standard, which provides better video quality at substantially lower bit rates than previous standards.

Codec Resolution: R29S/F 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

4.6.3. Subscribe

MWI: Message Waiting Indicator which is used to indicate whether there is unread new voice message. After enabled, the MWI Subscribe Period will turn to configurable in the range of 120 to 65535s

BLF: BLF is short for Busy Lamp Field which is used to monitor the designated extension status.

ACD: Automatic Call Distribution is often used in offices for customer service, such as call center. The setting here is to negotiate with the

Video Codec	
Codec Name	<input checked="" type="checkbox"/> H264
Codec Resolution	4CIF ▼
Codec Bitrate	320 ▼
Codec Payload	104 ▼

Subscribe	
MWI Subscribe	Disabled ▼
MWI Subscribe Period	1800 (120~65535s)
Voice Mail Number	<input type="text"/>
BLF Expire	1800 (120~65535s)
ACD Expire	1800 (120~65535s)

server about expire time of ACD subscription.

4.6.4. DTMF

To configure RTP audio video profile for DTMF and its payload type.

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

4.6.5. Call

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

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

Caller ID Header: To choose Caller ID Header format

Auto Answer: If enabled, incoming call will be answered automatically.

Anonymous Call: If enabled, R29S/F will lock 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

Call	
Max Local SIP Port	5062 (1024~65535)
Min Local SIP Port	5062 (1024~65535)
Caller ID Header	FROM
Auto Answer	Enabled
Anonymous Call	Disabled
Anonymous Call Rejection	Disabled
Missed Call Log	Enabled
Prevent SIP Hacking	Disabled

log.

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

4.6.6. Session timer

If enabled, the on going call will be disconnected automatically once the session expired unless it's been refreshed by UAC or UAS.

4.6.7. NAT

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

UDP Alive Msg Interval: Keepalive message interval.

Rport: it will add Remote Port into outgoing SIP message for designated account.

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

NAT		
UDP Keep Alive Messages	Enabled	▼
UDP Alive Msg Interval	30	(5~60s)
RPort	Disabled	▼

4.6.8. User Agent

User agent: To customize User Agent field in the SIP message; If user agent is set to specific value, user could see the information from network package. If user agent is not set by default, user could see the company name, model number and firmware version from network package.



4.7. Import/Export

4.7.1. Config&Contact

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.

Config: Click Export to export the config file. And users can modify configuration item in config file then import it from local side.



4.7.2. Private key

Export the existed private key information or import the private key from local side. It can only support “.xml” format. The maximum is 1000.

4.7.3. RF key

RF Key: Export the existed RF Card information or import the new RF Card information. It can only support “.xml”format. The maximum is 1000.

Ask your administrator for the template or export the existed key information , follow the format, then edit it.

4.7.4. Upload ScreenSaver

To upload screen saver and set the corresponding interval time and the priority. It will be displayed on screen when R29S/F 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



```
<?xml version="1.0" encoding="UTF-8"?>
<KeyData>
  <Key DeviceName="" TimeEnd="00:00" TimeStart="00:00" Sun="1" Sat="1" Fri="1" Thur="1" Wed="1" Tue="1" Mon="1" DoorNum="0"
    Active="0" Code="22222222" Name="Akvovox" ID="1"/>
</KeyData>
```

is 0, it won't be displayed.

if you need to upload many pictures ,please choose the ID order of the picture. For example, i need to upload the first picture as ID 1 which will be first screensaver to display , i will choose Image 1. Then i will upload the second one ,i need to choose Image 2 and so on.

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

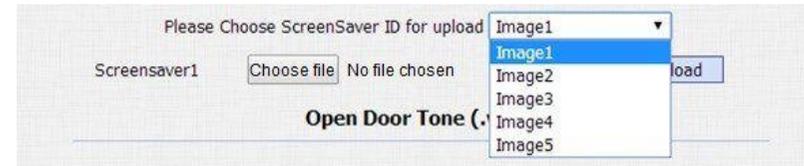
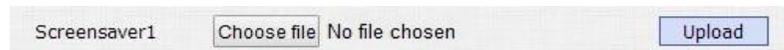
After uploading, the pictures will be in the list. Then you need to manually setup the Interval time which means how long the image will display then change to next screensaver. Interval range from 0 to 120s. Click the submit to save each one. Click Delete to remove the picture.

4.7.5. Open Door Tone

User can upload the Opendoor tone by yourself.

4.7.6. Contact Background

Choose a suitable Contact background and import it. it will displayed in

Upload ScreenSaver (.jpg)				
ID	File Status	Interval	Submit	Delete
1	File Exists	10	Submit	Delete
2	File Exists	10	Submit	Delete
3	NULL	0	Submit	Delete
4	NULL	0	Submit	Delete
5	NULL	0	Submit	Delete

Dial ,Unlock and Contact interface.

Choose: Select a image.

Import: The image must be “.png” format, and the most suitable size is 1280*800 .

Reset : Reset the background as default.



4.8. Upgrade-Basic

Go to Upgrade->Basic, user can upgrade firmware; Reset to factory setting and reboot.

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

Reset To Factory Setting: Directly click Submit to reset R29S/F. Use this function with caution. All configuration will be removed.

Reboot: Click to reboot.



4.9. Upgrade-Advanced

To display and configure manual update server's settings.

4.9.1. Manual Autop

Autop (Auto-Provisioning) 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.

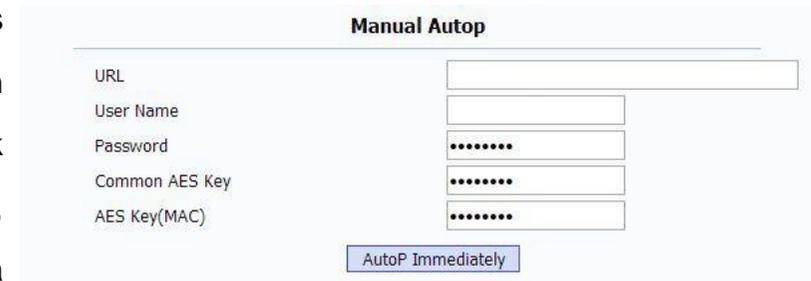
URL: Auto provisioning server address.

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



Manual Autop

URL

User Name

Password

Common AES Key

AES Key(MAC)

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

provisioning configuration file(for example, file name could be 0c1105888888.cfg if IP phone's MAC address is 0c1105888888).

4.9.2. 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.

Automatic Autop

Mode	Power On ▾
Schedule	Sunday ▾
	<input style="width: 50px;" type="text" value="22"/> Hour(0~23)
	<input style="width: 50px;" type="text" value="0"/> Min(0~59)
Clear MD5	<input type="button" value="Submit"/>
Export Autop Template	<input type="button" value="Export"/>

4.9.3. System Log

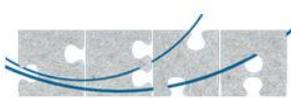
To display system log level and export system log file.

System log level: From level 0~7.The higher level means the more specific system log is saved to a temporary file. By default, it's level 3.

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

System Log

LogLevel	3 ▾
Export Log	<input type="button" value="Export"/>



4.9.4. PCAP

To start, stop packets capturing or to export captured Packet file.

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

Stop: To stop capturing packets.

The screenshot shows a control panel titled "PCAP". It contains two rows of controls. The first row has a "PCAP" label on the left and three buttons: "Start", "Stop", and "Export". The second row has a "PCAP Auto Refresh" label on the left and a dropdown menu currently set to "Disabled".

4.9.5. Others

To export current config file or import new config file.

The screenshot shows a control panel titled "Others". It features a "Config File(.tgz/.conf/.cfg)" label on the left. To the right, there is a "Choose file" button and the text "No file Chosen". Below these are three buttons: "Export (Encrypted)", "Import", and "Cancel".

4.10. Security-Basic

Go to Security->Basic, to modify password and session time.

4.10.1. Web Password Modify

To modify password of 'admin' or 'user' account.

The screenshot shows a form titled "Web Password Modify". It has four input fields: "User Name" with a dropdown menu showing "admin", "Current Password", "New Password", and "Confirm Password".