



R20K Door PhoneAdmin Guide

About This Manual

Thank you for choosing Akuvox's R20Kdoor phone. This manual is intended for end userswho need to properly configure the door phone. This manualis applicable to 20.30.3.xx version, and it provides allfunctions' configurations of R20K. 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.

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1. Product Overview

1.1. Product Description

Akuvox R20K is a SIP-compliant, hands-free and video door phone. It can be connected with Akuvox indoor monitors for remote access controlling and monitoring. Users can communicate with isitors via audio and video calls, and unlock the door if they need. Users can also use RFID cards to unlock the door

1.2. Connector Introduction

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

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

WG_D0/WG_D1: Wiegand terminal.



Figure 1.1 Product Description

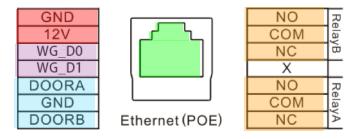


Figure 1.2-1 Connector Interface



DOORA/B: Trigger signal input terminal.

RelayA/B (NO/NC/COM): Relay control terminal.

Note: The general door phone interface diagram is only for

reference.

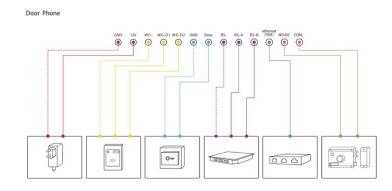


Figure 1.2-2 General interface



2. Daily Use

2.1. Make a Call

Press the SIP account or IP address and "Dial key" to make a call.

Management center call: Users can make a speed dial to management center by pressing "Management center key."

2.2. Receive a Call

R20K will auto answer the incoming call by default. If users disable auto answer function, they can press "Dial key" to answer the incoming call.



2.3. Unlock

2.3.1. Unlock by Public Pin Codes

Users can unlock doors by using predefined public pin code. Press "#," public pin code, "#" to unlock, and then users will hear "The door is now opened." If users press wrong public pin code, the screen will show "Incorrect Code." The default public pin code is 333333333. The default public pin code is 8 digits, and it can be changed to 3 to 8 digits.

2.3.2. Unlock by Private Pin Codes

Users can unlock doors by using predefined private pin code. Press "#," private pin code, "#" to unlock, and then users will hear "The door is now opened." If users press wrong private pin code, the screen will show "Incorrect Code." The default private pin code is 8 digits, and it can be changed to 3 to 8 digits.



2.3.3. Unlock by RFID Cards

Place the predefined user cards in RFID card reader to unlock. Under normal conditions, R20K will announce "The door is now opened." If the card has not been registered, R20K will show "Unauthorized." Both 13.56MHz and 125KHz RFID cards are supported on R20K.

2.3.4. Unlock by DTMF Codes

Users can press the predefined DTMF code from an answer unit to remotely unlock the door during the call. Users will also hear "The door is now opened."



3. Basic Features

3.1. Access the Website Setting

3.1.1. Obtain IP Address

R20K use DHCP IP by default.Press "*3258*" to andvoice system will enter IP announcement mode. In IP announcement mode, the IP address will be announced.



3.1.2. 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



Figure 3.2.2Access the device website



Note: The recommended browser is Google Chrome.

3.2. Password Modification

3.2.1. Modify the Device Admin Code

Go to Intercom - Basic tomodifydevice admin code.

3.2.2. Modify the Web Password

Go to **Security** - **Basic** to modify password for webpage.

To modify password for "admin" or "user" account.

3.3. Phone Configuration

3.3.1.Language

Go to **Phone-Time/Lang** to select language for webpage.



Figure 3.3.3 Modify the web password

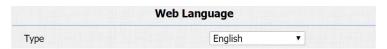


Figure 3.4.1 Language



3.3.2.Time

NTP: To select local time zone for NTP server.

3.3.3. Network

DHCP Mode

In Website, go to Network - Basic.

R20K uses DHCP mode by default which will get IP address, subnet mask, default gateway and DNS server address from DHCP server automatically.

Static IP Mode

In Website, go to Network - Basic.

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

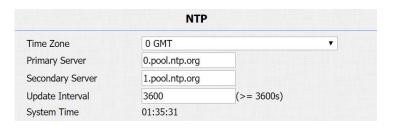


Figure 3.3.2.1 Time

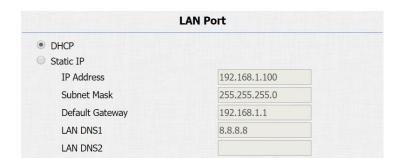


Figure 3.4.3.1 DHCP mode

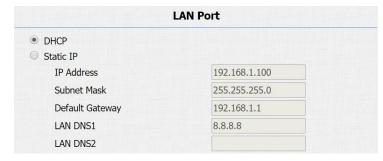


Figure 3.4.3.2 Static IP mode



3.3.4. Sound

Go to **Phone-Voice**to configure volume and upload tone file.

Mic Volume: To configure microphone volume.

Speaker Volume: To configure speaker volume.

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

RingBack Upload: To upload the ring back tone by users themselves.

Opendoor Tone Upload:To upload the opendoor tone by users themselves.

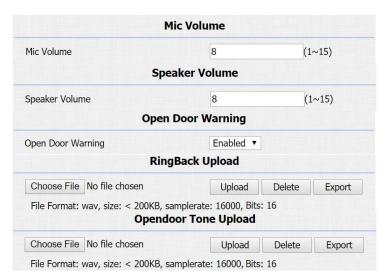


Figure 3.4.5 Sound

3.4. Intercom Call

3.4.1. Direct IP Call

Go to **Phone** - **Call Feature** to enable the direct IP call for door phones first.



Figure 3.5.1 Direct IP call



Press the IP address (like IP address 192.168.1.100, users need to press "192*168*1*100") and "Dial key" to make a direct IP call.

3.4.2.SIP Call

SIP callswhich use SIP numbers to make or receive calls should be supported by SIP server. Users need to register accounts and fill SIP feature parameters before using it.

Go to **Account** - **Basic** to configure SIP account and SIP server for door phones first.

3.4.3.SIP Account

Status: To display register result.

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

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

SIP Account		
Status	Registration Failed	
Account	Account 1	
Account Active	Enabled ▼	
Display Label	R27	
Display Name	Door_R27	
Register Name	5101100001	
User Name	5101100001	
Password		

Figure 3.5.2.1 SIP account



User Name: To enter user name of the extension.

Password: To enter password for the extension.

3.4.4.SIP Server 1&2

Server IP 1: To enter SIP server's IP address or URL.

Server IP 2: To display and configure secondary SIP server settings. This is for redundancy, if registering to primary SIP server fails, the phone will go to secondary SIP server for registering.

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

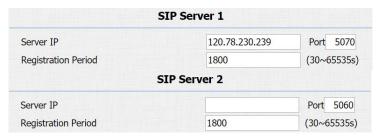


Figure 3.5.2.2 SIP server 1&2

3.4.5. Outbound Proxy Server

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



Figure 3.5.2.3Outbound proxy server



3.4.6. 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.

Transport Type UDP

Figure 3.5.2.4Transport type

3.4.7.NAT

To display and configure NAT settings.

 STUN: Short for session traversal utilities for NAT, a solution to solve NAT issues.

Note: By default, NAT is disabled.

Press the a SIP account and "Dial key" to make a SIP call.



Figure 3.5.2.5NAT



3.4.8. Speed Dial

Speed dialfeature is used to call out 4 numbers at the same time.

Go to Intercom - Basic to configure first.

After setup the number which users need to call. Press "Managecenter key" (Manager Dial) to call.

3.4.9. Auto Answer

Go to **Account - Advanced** to enable auto answer feature for SIP calls.

Go to **Phone - Call Feature** to enable auto answer feature for direct IP calls.

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

Auto Answer Mode: To set video or audio mode for auto answer feature. It is video by default.

Then incoming calls will be answered automatically.

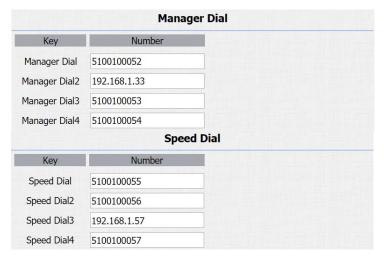


Figure 3.5.4Speed dial

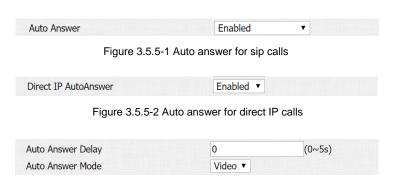


Figure 3.5.5-3 Auto answer options' parameters



3.4.10. Web Call

Go to **Intercom** - **Basic** to dial out or hang up incoming calls from website.

3.5. Security

3.5.1. Live view

Go to **Intercom** - **Live Stream** to check the real-time video from R20K.

In addition, user also can check the real-time picture via URL: http://IP_address:8080/picture.jpg.

3.5.2.RTSP

R20K 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.



Figure 3.5.6 Web call



Figure 3.6.1 Live view



RTSP Stream: To enable RTSP video and select the video codec.

R20K supports H.264 video codec by default.

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.

MPEG4 Video Parameters: MPEG4 is one of the network video image compression standard. It supports the maximum compression ratio 4000:1. It is an important and common video function with great communication application integration ability and less core program space. To modify the resolution, framerate and bitrate of MPEG4.

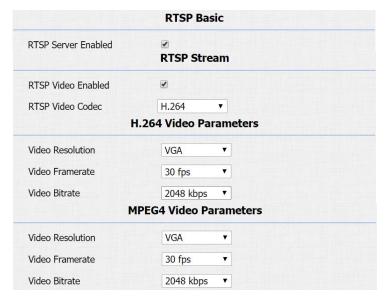


Figure 3.6.2 RTSP



3.5.3. **ONVIF**

R20K supports ONVIF protocol, which means R20K's camera can be searched by other devices, like NVRwhich supports ONVIF protocol as well.

Go to **Intercom** - **ONVIF**to configure ONVIFmode, its username and password.

Switching ONVIFmode to "Undiscoverable," and it means users must program ONVIF's URL manually.

The ONVIF's URL

is:http://IP_address:8090/onvif/device_service.

3.6. Access Control

3.6.1. Unlock via DTMF

Go to Intercom - Relay to configure relay settings.

There are three terminals of relay: NO, NC and COM. NO stands



Figure 3.6.3 ONVIF



for normally open contact. NC stands for normally closed contact.

Relay ID:R20K supports three relays. Users can configure them respectively.

Relay Type:Default state means NC and COM are normally closed, while Invert state means NC and COM are normally opened.

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, R20K supportmaximum to 4digits' DTMF code.

DTMF&Multiple DTMF:To configureDTMF code for remote unlocking.

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.

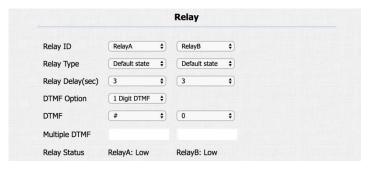


Figure 3.7.1 Relay



3.6.2. Unlock via RFID Card

Go to Intercom-Card settingto manage card access system.

Import/Export Card Data

R20K supports import or export the card data file, which is convenient for administrator to deal with a large number of cards.

The maximum card data file is 20K which is around 500 cards.

Note: Please consult administrator for the .xml format RFID cards template file.

Enable ID/IC Card

Switch to enable to support IC/ID card.

Schedule Management

Select schedule which was created on **Intercom – Schedule** to set up valid time for cards.

Obtain and Add Card

- Switch card status to "Card Issuing" and click "Apply";
- Place card on the card reader area and click "Obtain";



Figure 3.6.2-1 Card setting

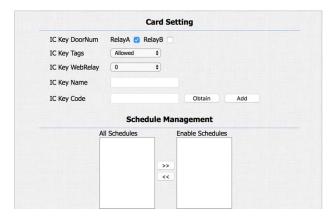




Figure 3.7.3.2 RFID cards in website



- Name card, choose which door users want to open and the valid day and time;
- Click "Add" to add it into list.

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

Note: Remember to set Card Status back to "Normal" after adding cards.

3.6.3. Unlock via Pin Code

Public Pin Codes in Website

Go to Intercom - Basic to configure public pin codes.

Key Switch: To enable or disable the password unlock, it is much useful for some special occasion which do not allow to use passwords.

Key Value: The public key for the all occupants in a building.



Figure 3.7.4.2 Public pin code in website



Private Pin Codes in Website

Go to Intercom - PrivateKey to configure private pin code.

Import /Export Private Key

R20K supports import or export the private key file, which is convenient for administrator to deal with a large number of private keys.

The maximum private key is 500.

Note: Please consult administrator for the .xml format private key template file.

Obtain and Add Private Key

- Enter the "PKey Name" and 3-8 digits "PKey Code";
- Select the valid day and time;
- Choose which door users want to open;
- Click "Add" to add it into list.

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



Figure 3.7.4.4-1 Private pin code in website



Figure 3.7.4.4-2 Private pin code management



3.6.4. Unlock via HTTP command

Users can use a URL to remote unlock the door.

Go to Intercom - Relay to configure.

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=&Pas sword=&DoorNum=1.

3.6.5. Unlock via Exit Button

Go to **Intercom** - **Input** to configure input settings.

R20Ksupports 2 input triggers "Input A/B (DOOR A/B)."

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



Figure 3.7.5 Unlock via HTTP command

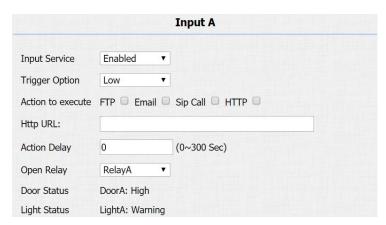


Figure 3.7.6 Unlock via exit button



GND isclosed, while "High" means the connection is opened.

Door status: To show the status of input signal.

3.7. Reboot

Go to **Upgrade - Basic**, users can reboot the phone.

3.8. Reset

Go to **Upgrade** - **Basic**, users can reset the phone to factory settings.

Note: All configurations will be reset after restore. Please backup the data if users need.



Figure 3.9.2 Reset in website



4. Advanced Features

4.1. Phone Configuration

4.1.1.LED

Go to Intercom - LED Setting to configure.

LED Status is to set up **Status LED** which can change light mode on different condition.

Users can control 2 parts' LED, keypad and card area. Users can also setup the valid time. For example, start time from 18 to 23 means the LED will light up from 6pm to 11pm.

4.1.2.IR LED

Go to Intercom - Advanced to configure.



Figure 4.1.1 LED



Photoresistor: The setting is for night vision, when the surrounding of R20K is very dark, infrared LED will turn on and R20K will turn to night mode.

Photoresistor value relates to light intensity and larger value means that light intensity is smaller.

Users can configure the upper and lower bound and when photoresistor value is larger than upper bound, infrared 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.



Figure 4.1.2 IR LED

4.1.3.RFID Card Code Display Related

Go to Intercom - Advanced to configure.

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

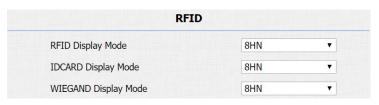


Figure 4.1.3 RFID card code display related



4.2. Intercom

4.2.1. Call Time Related

Go to Intercom - Basic to configure.

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 Dial Time Dial In Time 60 (30~120Sec) Dial Out Time 60 (30~120Sec)

Figure 4.2.1 Call time related

4.2.2.SIP Call Related

Go to **Account - Advanced** to configure the SIP call related.

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

MinLocalSIPPort:To configure maximum local SIP port for designated SIP account.

Caller ID Header: To choose caller ID header format.



Provisional Response ACK:100% reliability for all provisional messages, this means it will send ACK every time the phone receives a provisional SIP message from SIP server.

Register with user=phone:If enabled, the phone will send user=phone within SIP message.

Anonymous Call:If enabled,R20K 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 Hacking:If enabled, it will prevent SIP messages from hacking.

4.2.3. Codec

Go to **Account - Advanced** to configure SIP call related codec.

Sip Account: To choose which account to configure.

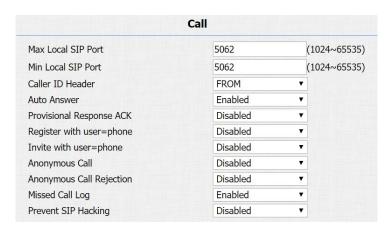


Figure 4.2.5 SIP call related

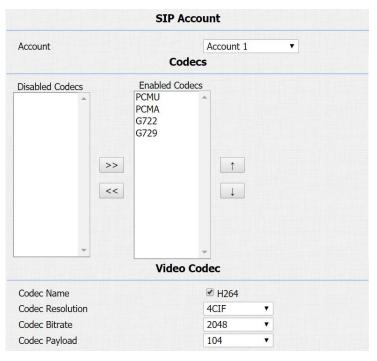


Figure 4.2.6-1 SIP call related codec



Audio Codec: R20K support four audio codecs: PCMA, PCMU, G729, G722. Different audio codecs require different bandwidth, users can enable/disable them according to different network environment.

Note: Bandwidth consumption and sample rates are as below:

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

Video Codec: R20K support H.264 standard, which provides better video quality at substantially lower bit rates than previous standards.

Codec Resolution: R20K support 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.

Go to Phone - Call Feature to configure multicast related codec.



4.2.4.DTMF

Go to **Account - Advanced** to configure RTP audio video profile for DTMF and its payload type.

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.



Figure 4.2.8 DTMF

4.2.5. Session Timer

Go to Account - Advanced to configure.

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



Figure 4.2.9 Session timer



4.2.6. Encryption

Go to Account - Advanced to configure.

If enabled, voice will be encrypted.



Figure 4.2.11 Encryption

4.2.7.NAT

Go to **Account - Advanced** to display NAT related settings.

UDP Keep Alive message: If enabled, 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: Remote port, if enabled, it will add remote port into outgoing SIP message for designated account.

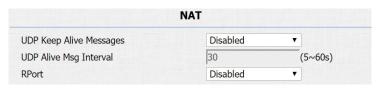


Figure 4.2.12 NAT

4.2.8. User Agent

Go to **Account - Advanced** to configure. One can customize user 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



Figure 4.2.13 User Agent



by default, users can see the company name, model number and firmware version from PCAP.

4.3. Access Control

4.3.1. Web Relay

R20K can support to connect to web relay.

Go to **Phone** - **WebRelay** to configure.

Type: Connect web relay and choose the type.

IP Address: Enter web relay's IP address.

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

Password: It is an authentication for connecting web relay.

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



Figure 4.3.1-1 Web relay

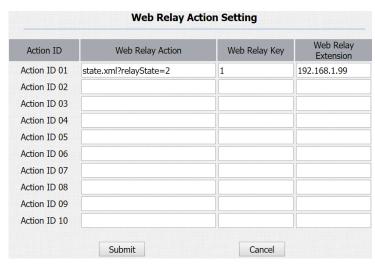


Figure 4.3.1-2 Web relay action settings



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

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

4.3.2. Wiegand

Using this feature to integrate with some wiegand access control.

R20K can be used as wiegand input or output.

Go to Intercom - Advanced to configure.

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

Wiegand Mode: Input or output. Typically, when users select input, we generally connect the wiegand input device, such as the wiegand card reader. Or R20K can be used as output, it is generally used to connect the third-party access control, and R20K change the card information as wiegand signal, and then transfer to the access control module.



Figure 4.3.2 Wiegand



4.4. Security

4.4.1. Anti-alarm

Go to Intercom - Advanced to configure.

Tamper Alarm:R20K integrates internal gravity sensor for its own security. After enabling tamper alarm, if the gravity of R20K changes dramatically, it will alarm. Gravity sensor threshold stands for sensitivity of sensor. Smaller the value, the more sensitive it is.



Figure 4.4.1 Anti-alarm

4.4.2. Motion

R20K supports motion detection, go to **Intercom** - **Motion** to configure detection related parameters.

Motion Detection: To enable or disable motion detection.

Action to execute: To choose suitable way to receive message or snapshot when detecting motion.

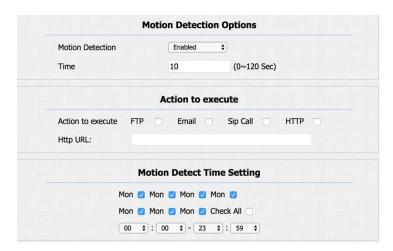


Figure 4.4.2 Motion



Motion Delay: To configure minimum time gap between two snapshots.

Motion Detect Time Setting: To configure motion detect time schedule.

4.4.3. Action

R20K supports to send notifications, snapshots via email and ftp transfer method, or calls via sip call method, when trigger specific actions.

4.4.3.1. Action Parameters

Go to Intercom - Action to set action receiver.

Email Notification

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

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

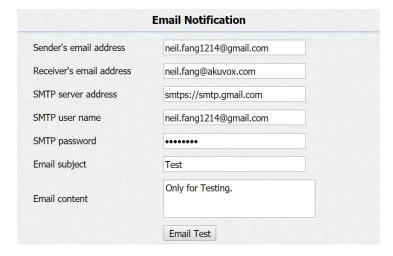


Figure 4.4.3.1-1 Email notification parameters



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 the 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.

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 Test: To test whether FTP notification is available.

SIP Notification

SIP Call Number: To configure sip call number.

SIP Call Name: To configure display name of R20K.



Figure 4.4.3.1-2 FTP notification parameters



Figure 4.4.3.1-3 SIP call notification parameters



Five specific actions which will be triggered in R20K:

4.4.3.2. Input Interface Triggered Action

Go to Intercom - Input to configure.

Action to execute:To choose which action to execute after triggering.

Http URL:To configure URL, if HTTP action is chosen.

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

Open relay:To configure which relay to trigger.

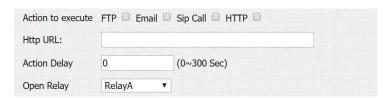


Figure 4.4.3.4 Input interface triggered action

4.4.3.3. Motion Triggered Action

Go to Intercom - Motion to configure.

Action to execute: To choose which action to execute after triggering.

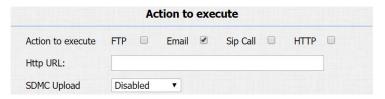


Figure 4.4.3.5 Motion triggered action



Http URL: To configure URL, if HTTP action is chosen.

SDMC Upload: Upload the capture to the SDMC.

4.5. Upgrade

4.5.1. Web Upgrade

Go to **Upgrade** - **Basic** to do web upgrade.

Upgrade:Choose ".rom" firmware from the PC, and then click "Submit" to start update.



Figure 4.5.1 Web upgrade

4.5.2. Autop Upgrade

Go to **Upgrade** - **Advanced** to configure automatically update server's settings.

PNP

Plug and Play, once PNP is enabled, the phone will send SIP subscription message to PNP server automatically to get auto provisioning server's address.

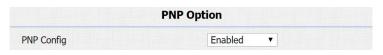


Figure 4.5.2-1 PNP



By default, this SIP message is sent to multicast address 224.0.1.75 (PNP server address by standard).

Automatic Autop

To display and configure auto provisioning mode settings.

This auto provisioning mode is actually self-explanatory.

For example, mode "Power on" means the phone will go to do provisioning every time it powers on.

Note: Please refer to the related feature guide from forum.

Automatic Autop Mode Schedule Power On Sunday 22 Hour(0~23) 0 Min(0~59) Clear MD5 Submit

Figure 4.5.2-3 Automatic provision

4.5.3. Backup Config File

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

Export Autop Template: To export current config file.

Others:To export current config file (Encrypted) or import new config file.



Figure 4.5.3 Backup config file



4.6. Log

4.6.1. Call Log

Go to **Phone - Call Log**, users can see a list of call logs which have dialed, received or missed. Users can delete call logs from list.

4.6.2. Door Log

Go to **Phone** - **Door Log**, users can see a list of door logs which records card information and date.

4.6.3. System Log

Go to **Upgrade** - **Advanced** to configure 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. It's level 3 by default.

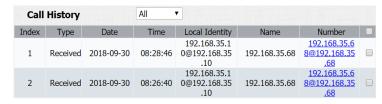


Figure 4.6.1 Call log

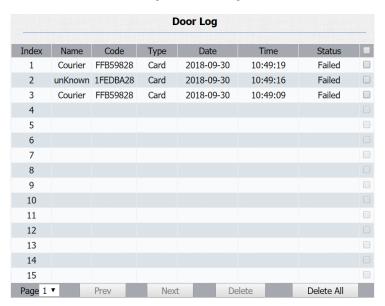


Figure 4.6.2 Door log



Figure 4.6.3 System log



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

4.6.4.PCAP

Go to **Upgrade** - **Advanced** to start, stop packets capturing or to export captured packet file.

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

Stop: To stop capturing packets.

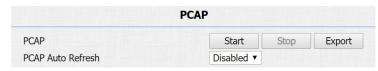


Figure 4.6.4 PCAP



Abbreviations

ACS: Auto Configuration Server DNS-SRV: Service record in the Domain Name System

Auto:Automatically **FTP:** File Transfer Protocol

AEC:Configurable Acoustic and Line Echo Cancelers **GND:** Ground

ACD: Automatic Call Distribution HTTP: Hypertext Transfer Protocol

Autop: Automatical Provisioning HTTPS: Hypertext Transfer Protocol Secure

AES: Advanced Encryption Standard IP: Internet Protocol

BLF:Busy Lamp Field **ID**: Identification

COM:Common IR: Infrared

CPE:Customer Premise Equipment LCD: Liquid Crystal Display

CWMP:CPE WAN Management Protocol **LED**: Light Emitting Diode

DTMF:Dual Tone Multi-Frequency **MAX**: Maximum

DHCP:Dynamic Host Configuration Protocol **POE:** Power Over Ethernet

DNS: Domain Name System **PCMA**: Pulse Code Modulation A-Law

DND:Do Not Disturb **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

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We highly appreciate your feedback about our products.



FCC Statement:

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.