

AKUVOX R20A ADMIN MANUAL



Quick Links

[Access the Device](#)

[Obtain Device Ip Address](#)

Table of Contents

[Table of Contents](#)

[Product Overview](#)

[Change Log](#)

[Model Specification](#)

[Introduction to Configuration Menu](#)

[Access the Device](#)

[Obtain Device IP Address](#)

[Access the Device Setting on the Web Interface](#)

[Language and Time Setting](#)

[Language Setting](#)

[Time Setting](#)

[LED Setting](#)

[Infrared LED Setting](#)

[LED Display Status](#)

[Set up LED Display from HTTP URL](#)

[LED Setting on Card Reader Area](#)

[Volume and Tone Configuration](#)

[Volume Configuration](#)

[IP Announcement](#)

[Open Door Tone Configuration](#)

[Upload Tone Files](#)

[Upload Ringback Tone](#)

[Upload Open Door Tone](#)

[Network Setting](#)

[Network Status](#)

Device Network Configuration

Device Deployment in Network

Device Local RTP configuration

NAT Setting

SNMP Setting

VLAN Setting

TR069 Setting

Device Web HTTP Setting

Intercom Call Configuration

IP call & IP Call Configuration

SIP Call &SIP Call Configuration

SIP Account Registration

SIP Server Configuration

Configure Outbound Proxy Server

Configure Data Transmission Type

Configure Calling Feature

DND

Manager Dial Call

Call Hang-up

Web Call

Auto Answer

Multicast

Configure Maximum Call Duration

Maximum Dial Duration

Hang Up After Open Door

Audio& Video Codec Configuration for SIP Calls

Audio Codec Configuration

Video Codec Configuration

Video Codec Configuration for IP Direct Calls

Configure DTMF Data Transmission

Access White List Configuration

Managing Contacts

Relay Setting

Relay Switch Setting

Web Relay Setting

Door Access Schedule Management

Relay schedule

Configure Door Access Schedule

Create Door Access Schedule

Import and Export Door Access Schedule

Import and Export User

Door Unlock Configuration

IC/ID Card Control

Configure Access Card Format

Configuring RF Card for Door Unlock

Configure RF Card on the Web Interface

Import and Export Card Data of Access Control

Mifare/Defire CarD Encryption

NFC Card Setting

Configure Open Relay via HTTP for Door Unlock

Configure Exit Button for Door Unlock

Security

Tamper Alarm Setting

Client Certificate Setting

Web Server Certificate

Client Certificate

Motion Detection

Configure Motion Detection

Security Notification Setting

Email Notification Setting

FTP Notification Setting

SIP Call Notification Setting

HTTP URL Notification Configuration

Security Action Configuration

Configure Push Button Action

Configure Motion Action

Configure Input Action

Call Event Notification

Voice Encryption

User Agent

Monitor and Image

RTSP Stream Monitoring

RTSP Basic Setting

RTSP Stream Setting

NACK

MJPEG Image Capturing

ONVIF

Live Stream

Logs

Call Logs

Door Logs

[Debug](#)

[System Log](#)

[PCAP](#)

[Firmware Upgrade](#)

[Backup](#)

[Auto-provisioning via Configuration File](#)

[Provisioning Principle](#)

[Configuration Files for Auto-provisioning](#)

[AutoP Schedule](#)

[PNP Configuration](#)

[Static Provisioning Configuration](#)

[Integration with Third Party Device](#)

[Integration via Wiegand](#)

[Integration via HTTP API](#)

[Lift Control Configuration](#)

[KeyKing Setting](#)

[Akuvox EC32 Lift Controller](#)

[ZKT Lift Controller](#)

[Chiyu Lift Controller](#)

[Password Modification](#)

[Modifying Device Web Interface Password](#)

[Configure Web Interface Automatic Logout](#)

[System Reboot&Reset](#)

[Reboot](#)

[Reset](#)

[Abbreviations](#)

[FAQ](#)

[Contact us](#)

[Other ManualsLib Projects](#)



DOOR PHONE ADMIN GUIDE

Applicable Models: R20A/R20B/R26C/R26P/E11R/E12/E21A/E21V

About This Manual

Thank you for choosing Akuvox R20-T30/R20-V3S/R26/E11R/E12/E21 series door phone. This manual is intended for the administrators who need to properly configure the door phone. This manual applies to 220.30.3.2, 20.30.4.147, 226.30.2.109, 111.30.2.13, 12.30.1.110, 221.30.1.106 and it provides all the configurations for the functions and features of Akuvox door phone. Please visit Akuvox forum or consult technical support for any new information or latest firmware.

Introduction of Icons and Symbols



Warning:

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



Caution:

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



Note:

- Informative information and advice from the efficient use of the device.

Related Documentation

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

<https://knowledge.akuvox.com>

Table of Contents

1. Product Overview	1
2. Change Log	2
3. Model Specification	3
4. Introduction to Configuration Menu	6
5. Access the Device	7
5.1. Obtain Device IP Address	8
5.2. Access the Device Setting on the Web Interface	8
6. Language and Time Setting	10
6.1. Language Setting	10
6.2. Time Setting	10
7. LED Setting	12
7.1. Infrared LED Setting	12
7.2. LED Display Status	13
7.3. Set up LED Display from HTTP URL	14
7.4. LED Setting on Card Reader Area	15
8. Volume and Tone Configuration	16
8.1. Volume Configuration	16
8.2. IP Announcement	17
8.3. Open Door Tone Configuration	18
8.4. Upload Tone Files	18
8.4.1. Upload Ringback Tone	18
8.4.2. Upload Open Door Tone	19
9. Network Setting	20
9.1. Network Status	20
9.2. Device Network Configuration	21
9.3. Device Deployment in Network	22
9.4. Device Local RTP configuration	23
9.5. NAT Setting	24
9.6. SNMP Setting	24
9.7. VLAN Setting	25
9.8. TR069 Setting	26
9.9. Device Web HTTP Setting	27
10. Intercom Call Configuration	28
10.1. IP call & IP Call Configuration	29
10.2. SIP Call & SIP Call Configuration	29
10.3. SIP Account Registration	29
10.4. SIP Server Configuration	30
10.5. Configure Outbound Proxy Server	31
10.6. Configure Data Transmission Type	32
10.7. Configure Calling Feature	33

10.7.1.DND.....	33
10.7.2.Manager Dial Call.....	33
10.7.3.Call Hang-up	35
10.7.4.Web Call	35
10.7.5.Auto Answer	35
10.7.6.Multicast	36
10.7.7.Configure Maximum Call Duration	37
10.7.8.Maximum Dial Duration	38
10.7.9.Hang Up After Open Door	39
11.Audio& Video Codec Configuration for SIP Calls.....	40
11.1.Audio Codec Configuration	40
11.2.Video Codec Configuration	42
11.3.Video Codec Configuration for IP Direct Calls	42
11.4.Configure DTMF Data Transmission.....	43
12.Access White List Configuration	44
12.1.Managing Contacts.....	44
13.Relay Setting.....	46
13.1.Relay Switch Setting.....	46
13.2.Web Relay Setting	48
14.Door Access Schedule Management.....	50
14.1.Relay schedule	50
14.2.Configure Door Access Schedule	51
14.2.1.Create Door Access Schedule	51
14.2.2.Import and Export Door Access Schedule.....	53
14.2.3.Import and Export User	53
15.Door Unlock Configuration	53
15.1.IC/ID Card Control	54
15.2.Configure Access Card Format.....	54
15.3.Configuring RF Card for Door Unlock.....	55
15.3.1.Configure RF Card on the Web Interface	55
15.4.Import and Export Card Data of Access Control.....	56
15.5.Mifare/Defire CarD Encryption.....	57
15.5.1.NFC Card Setting	57
15.6.Configure Open Relay via HTTP for Door Unlock	58
15.7.Configure Exit Button for Door Unlock.....	59
16.Security	60
16.1.Tamper Alarm Setting	60
16.2.Client Certificate Setting	61
16.2.1.Web Server Certificate	61
16.2.2.Client Certificate	61
16.3.Motion Detection.....	62
16.3.1.Configure Motion Detection.....	63
16.4.Security Notification Setting.....	64
16.4.1.Email Notification Setting	64
16.4.2.FTP Notification Setting.....	65
16.4.3.SIP Call Notification Setting.....	66
16.4.4.HTTP URL Notification Configuration.....	66
16.5.Security Action Configuration.....	67

16.5.1.Configure Push Button Action	67
16.5.2.Configure Motion Action	67
16.5.3.Configure Input Action	68
16.5.4.Call Event Notification	68
16.6.Voice Encryption	68
16.7.User Agent	69
17.Monitor and Image	70
17.1.RTSP Stream Monitoring	70
17.1.1.RTSP Basic Setting	70
17.1.2.RTSP Stream Setting	71
17.1.3.NACK	72
17.2.MJPEG Image Capturing	73
17.3.ONVIF	75
17.4.Live Stream.....	75
18.Logs	76
18.1.Call Logs.....	77
18.2.Door Logs	78
19.Debug	79
19.1.System Log.....	79
19.2.PCAP	80
20.Firmware Upgrade	82
21.Backup	83
22.Auto-provisioning via Configuration File	84
22.1.Provisioning Principle	84
22.2.Configuration Files for Auto-provisioning.....	85
22.3.AutoP Schedule	86
22.4.PNP Configuration	87
22.5.Static Provisioning Configuration.....	87
23.Integration with Third Party Device	90
23.1.Integration via Wiegand	90
23.2.Integration via HTTP API	92
23.3.Lift Control Configuration	94
23.4.KeyKing Setting	95
23.5.Akuvox EC32 Lift Controller.....	95
23.6.ZKT Lift Controller.....	97
23.7.Chiyu Lift Controller	97
24.Password Modification	98
24.1.Modifying Device Web Interface Password	98
24.2.Configure Web Interface Automatic Logout	99
25.System Reboot&Reset.....	100
25.1.Reboot	100
25.2.Reset	100
26.Abbreviations	102
27.FAQ	104
28.Contact us	106

1. Product Overview

The security that comes with being able to control who comes into your building along with the ability to verbally and visually confirm their identity is immeasurable. Akuvox R20/R26/E11/E12/E21 series are SIP-compliant door phones. They can be connected with Akuvox indoor monitors for remote access controlling and monitoring. Users can communicate with visitors via audio and video calls, and unlock the door if they need. The door phone enables you to easily monitor an entrance door or gate and gives you the peace of mind knowing that your facility is more secure.

2. Change Log

The change log will be updated here along with the changes in the new software version.

3. Model Specification

Model & Feature	R20A	R20B	R26C	R26P	E11R	E21V	E21A	E12W	E12S
									
Button	1 Physical button	5 Physical buttons	1 Physical button	1 Physical button	1 Physical button	1 Physical button	1 Physical button	1 Physical button	1 Physical button
Housing Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Plastic	Plastic
Camera	2 Megapixels, automatic lighting	2 Megapixels, automatic lighting	2 Megapixels, automatic lighting	2 Megapixels, automatic lighting	2 Megapixels, automatic lighting	2 Megapixels, automatic lighting	X	2 Megapixels, automatic lighting	2 Megapixels, automatic lighting
Relay In	2	2	3	3	2	2	2	2	2
Relay Out	2	2	2	2	2	2	2	1	1
RS485	√	√	√	√	√	X	X	√	√
PoE	√	√	√	√	√	√	√	√	√
WiFi	X	X	X	X	X	X	X	√	X
RAM	64MB	64MB	128MB	128MB	64MB	128MB	128MB	128MB	128MB
ROM	128MB	128MB	16MB	16MB	128MB	128MB	128MB	16MB	16MB
Card Reader	√	√	√	X	√	X	X	√	√
IP Rating	IP65	IP65	IP65	IP65	X	IP65	IP65	IP65	IP65
IK Rating	X	X	X	X	X	X	IK10	X	X
Wall Mounting	√	√	√	√	√	X	X	√	√

Flush Mounting	√	√	√	√	X	√	√	X	X
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4. Introduction to Configuration Menu

- **Status:** this section gives you basic information such as product information, Network Information, and account information, etc.
- **Account:** this section concerns SIP account, SIP server, proxy server, transport protocol type, audio&video codec, DTMF, session timer, etc.
- **Network:** this section mainly deals with DHCP&Static IP setting, RTP port setting, and device deployment, etc.
- **Intercom:** this section covers Intercom settings, Call Log, etc.
- **Surveillance:** this section covers Motion Detection, RTSP, MJPEG, ONVIF, Live stream.
- **Access Control:** this section covers Input control, Relay, Card settings, Face Recognition setting, Private PIN Code, Wiegand connection, etc.
- **Tenants:** this section involves Tenants management and Dial Plan.
- **Device:** this section includes Light settings, tab&button display, LCD settings and Voice settings.
- **Settings:** this section includes Time&language, Action settings, Door settings, Schedule for access control.
- **Upgrade:** this section covers Firmware upgrade, device reset&reboot, configuration file auto-provisioning, fault Diagnosis.
- **Security:** this section is for Password modification.
- **Mode selection :**
 1. **Discovery mode:** it is a plug and play configuration mode. Akuvox devices will configure themselves automatically when users power on the devices and connect them to network. It is a super time-saving mode and it will

greatly bring users convenience by reducing manual operations. This mode requires no prior configurations previously by the administrator.

2. **Cloud mode:** Akuvox Cloud is an all-in-one management system. Akuvox Cloud is a mobile service that allows audio, video, remote access control between smart phones and Akuvox intercoms. All configurations in the device will be issued automatically from the cloud. If users decide to use Akuvox cloud, please contact Akuvox technical support, and they will help you configure the related settings before using them.
3. **SDMC mode:** SDMC (**SIP Device Management Controller**) is a simple and comprehensive software for building management. It provides a topography for a community while offering you a graphical configuration interface for the door access, intercom, monitoring, alarm, etc. It is a convenient tool for property managers to manage, operate and maintain the community.

● Tool selection

Akuvox has many configuration tools for you to set up devices more conveniently. Here we list some common tools, please contact your administrator to get the tool if you need them.

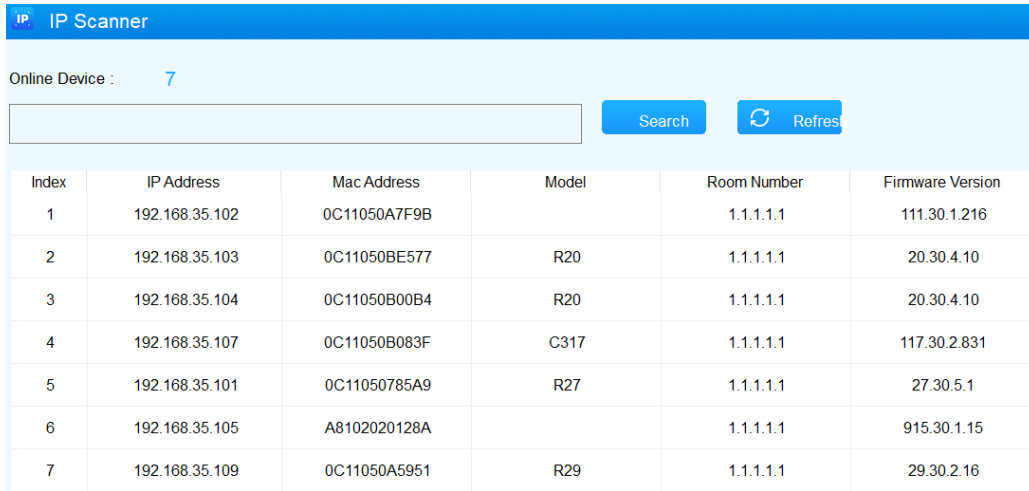
1. **SDMC:** SDMC is suitable for the management of Akuvox devices in large communities, including access control, resident information, remote device control, etc.
2. **Akuvox Upgrade tool:** upgrade Akuvox devices in batch on a LAN (**Local Area Network**)
3. **Akuvox PC Manager:** distribute all configuration items in batch on a LAN.
4. **IP scanner:** it is used to search Akuvox device IP addresses on a LAN.
5. **FacePro:** manage face data in batch for the door phone on a LAN.

5. Access the Device

R20A series system setting can be accessed on the device web interface.

5.1.Obtain Device IP Address

Check the Device IP address by holding the push button for 5s. Or searching the device IP by the IP scanner in the same LAN network. Just click **Scan** tab in the IP scanner to check the device IP.



The screenshot shows the 'IP Scanner' web interface. At the top, it says 'Online Device : 7'. Below this is a search bar and two buttons: 'Search' and 'Refresh'. The main part of the interface is a table with 7 rows of device information.

Index	IP Address	Mac Address	Model	Room Number	Firmware Version
1	192.168.35.102	0C11050A7F9B		1.1.1.1.1	111.30.1.216
2	192.168.35.103	0C11050BE577	R20	1.1.1.1.1	20.30.4.10
3	192.168.35.104	0C11050B00B4	R20	1.1.1.1.1	20.30.4.10
4	192.168.35.107	0C11050B083F	C317	1.1.1.1.1	117.30.2.831
5	192.168.35.101	0C11050785A9	R27	1.1.1.1.1	27.30.5.1
6	192.168.35.105	A8102020128A		1.1.1.1.1	915.30.1.15
7	192.168.35.109	0C11050A5951	R29	1.1.1.1.1	29.30.2.16

5.2.Access the Device Setting on the Web Interface

Enter the device IP address on the web browser in order to log in to device web interface where you can configure and adjust parameters etc. The initial user name and password are all “**admin**” and please be case-sensitive to the user names and passwords entered.

User Name

admin

Password

.....

☐

Remember Username/Password

Login

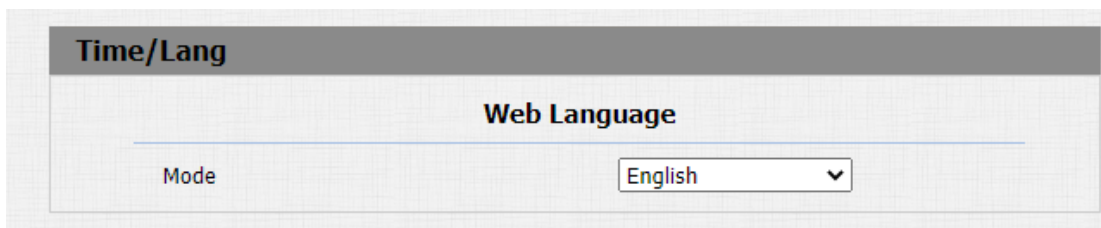
**Note:**

- You can also obtain the device IP address using the Akuvox IP scanner to log in to the device web interface. Please refer to the URL below for the IP scanner application:
<https://knowledge.akuvox.com/docs/how-to-obtain-ip-address-via-ip-scanner-1?highlight=IP%20SCANNER>
- Google Chrome browser is strongly recommended.

6. Language and Time Setting

6.1. Language Setting

When you first set up the device, you might need to set the language to your need or you can do it later if needed. And the language can be set up on the device web **Phone > Time/Lang > Web Language** interface according to your preference.



Parameter Set-up:

- **Mode:** choose a suitable web language. Normally, English is the default web language.

6.2. Time Setting

The set-up on the device web interface is identical with the setting on the device, it however allows you to set up the NTP server address that you obtained to automatically synchronize your time and date. And when your time zone is selected, the device will automatically notify the NPT server of its time zone in order that the NTP server can synchronize the time zone set-up to your device. You can navigate to **Phone > Time/Lang > NTP**.

NTP

Time Zone	GMT+0:00 GMT	
Primary Server	0.pool.ntp.org	
Secondary Server	1.pool.ntp.org	
Update Interval	3600	(>= 3600s)
System Time	03:25:12	

NTP

Time Zone	GMT+0:00 GMT	
Preferred Server	0.pool.ntp.org	
Alternate Server	1.pool.ntp.org	
Update Interval	3600	(>= 3600s)
System Time	05:55:26	

Parameter Set-up:

- **Time Zone:** select the specific time zone depending on where the device is used and then press **Confirm** tab for the confirmation. The default time zone is **GMT GMT+0.00**.
- **Preferred/Alternate Server:** enter the NTP server address. The alternate server will take effect when the primary server is invalid.
- **Update Interval:** to configure the interval between two consecutive NTP requests.
- **System Time:** indicate the current device time.

You can also set up time manually, select the **Manual** checkbox, and input time data.

Type

☒ Manual

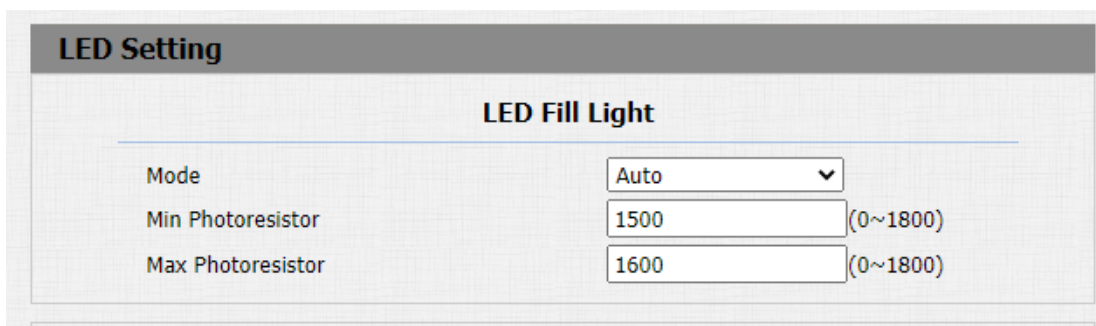
Date		Year		Mon		Day
Time		Hour		Min		Sec

☐ Auto

7. LED Setting

7.1. Infrared LED Setting

Infrared LED is applied in a dark environment in which a resident might not be able to see a visitor clearly via the video from the door phone. You can navigate to **Intercom > LED Setting > LED Fill Light**.



The screenshot shows a web interface for 'LED Setting'. Under the 'LED Fill Light' section, there are three parameters: 'Mode' with a dropdown menu set to 'Auto', 'Min Photoresistor' with a text input field containing '1500' and a range '(0~1800)', and 'Max Photoresistor' with a text input field containing '1600' and a range '(0~1800)'.

Parameter Set-up:

- **Mode:** select "**Auto**" if you want the Infrared LED light to be turned on automatically according to the setting. select "**Always ON**" to enable the Infrared LED light to stay on permanently. select "**Always OFF**" to turn off the Infrared LED light. LED mode is set "**Always OFF**" by default. select "**Schedule**" to turn on the infrared LED according to the time schedule.
- **Min/Max Photoresistor:** set the minimum and maximum photoresistor value based on the current actual photo-resistor value detected to control the **ON-OFF** of the LED light. You can set the maximum photoresistor value for the IR LED to be turned on and the minimum value for it to be turned off. While the default Minimum and maximum photoresistor value are from "**0**" minimum to "**1000**" maximum respectively.
- **Start Time:** set the start time for the infrared LED to be turned on.
- **End Time:** set the end time for the infrared LED to be turned off.

Note:

- **Start Time** and **End Time** will not be displayed unless you select **Specific Time** for your LED mode.

7.2.LED Display Status

LED display adjustment is used to display the light changes of the call button in the six statuses - normal(idle), offline, calling, talking and receiving a call. and the user can also verify the current mode of the device through the LED status. To set up on device web **Intercom > LED Setting > LED Status** interface.

Device Status	LED Color	LED Display Mode
NORMAL	Blue	Always On
OFFLINE	Red	2500/2500 Blink
CALLING	Blue	2500/2500 Blink
TALKING	Green	Always On
RECEIVING	Green	2500/2500 Blink

The default LED Display Status:

LED Status		Description
Blue	Always on	Normal status
	Flashing	Calling
Red	Flashing	Network is unavailable
Green	Always on	Talking on a call
	Flashing	Receiving a call
Pink	Flashing	Upgrading

Parameters Set-up:

- **State:** there are five states: **Normal**, **Offline**, **Calling**, **Talking** and **Receiving**.

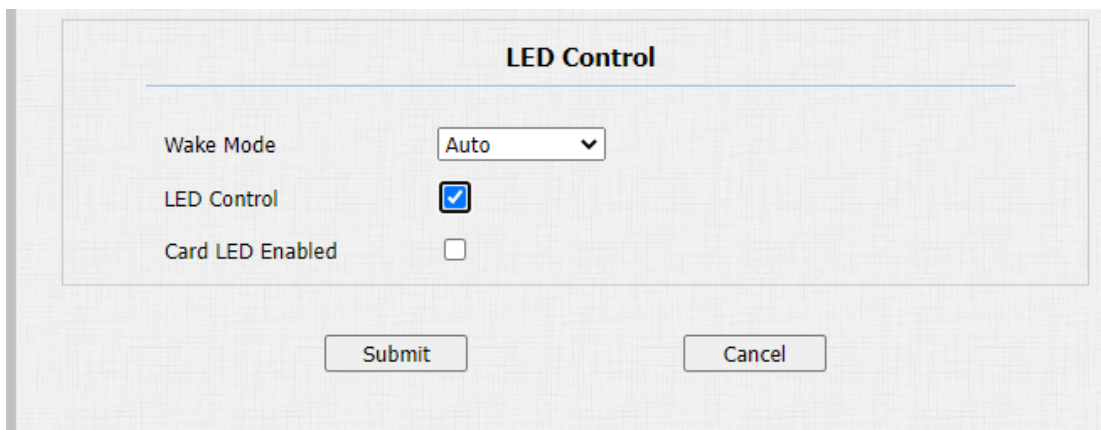
- **LED Color:** it can support three colors: **Red, Green, Blue.**
- **LED Display Mode:** to set up the different blink frequencies.

Note:

- The Status and Color of item can not be changed.
- The LED of upgrading mode can not be adjusted.

7.3.Set up LED Display from HTTP URL

Akuvox door phones support to use HTTP URL to remote control the LED display status. You can enter the HTTP URL in the browser to manage the LED color and frequency.



Parameters Set-up:

- **HTTP URL format:**
`http://PhoneIP/fcgi/do?action=LedAction&State=1&Color=1&Mode=2500`
- **Status:** 1=Idle; 2=OffLine; 3=Calling; 4=Talking; 5=Receiving; Color: 1=Green; 2=Blue; 3=Red; Mode: 0=Always On; 1=Always Off; 500/1000/1500/2000/25000/3000

7.4.LED Setting on Card Reader Area

You can enable or disable the LED lighting on the card reader area as needed on the web interface. Meanwhile, If you do not want to have the LED light on the card reader area to stay on, you can also set the timing for the exact time span during which the LED light can be disabled in order to reduce the electrical power consumption. Path: **Intercom > LED Setting > LED Control**.

LED Control

Wake Mode: Auto

LED Control: ☒

Card LED Enabled: ☒

Time (H): 18 - 06 (0~23)

Submit Cancel

Parameters Set-up:

- **Card LED Enabled:** tick the check box if want to enable the card reader LED lighting and vice versa.
- **Time (H):** enter the time span for the LED lighting to be valid, e.g. if the time span is set from **8-0 (Sart time- End time)** it means LED light will stay on during the time span from **8:00 am to 12:00 pm** during one day (24 hours).

8. Volume and Tone Configuration

Volume and tone configuration in Akuvox door phone refers to the microphone volume, speaker volume, temper alarm volume, ringback tone and open door tone configuration. Moreover, you can upload the tone you like to enrich your personalized user experience.

8.1. Volume Configuration

To set up the volumes, you can set up on device web **Phone > Audio** interface.

Mic Volume	
Mic Volume	8 (1~15)

Speaker Volume	
Speaker Volume	8 (1~15)

Tamper Alarm Volume	
Tamper Alarm Volume	8 (1~15)

Ringback Volume	
Ringback Volume	8 (1~15)

Voice Prompt Volume	15 (1~15)
---------------------	--

Audio		
Volume Control		
Mic Volume	8	(1~15)
Volume Level	1	▼
Speaker Volume	15	(1~15)
Tamper Alarm Volume	15	(1~15)
Prompt Volume	15	(0~15)

Parameters Set-up:

- **Mic Volume:** adjust the mic volume as needed.
- **Volume level:** adjust the volume level as needed.
- **Speaker Volume:** Adjust the speaker volume as needed.
- **Tamp Alarm Volume:** Adjust the volume for the tamper alarm.
- **Prompt Volume:** Adjust the volume for voice prompt.

8.2.IP Announcement

To set up device IP number announcement, navigate to **Phone > Audio > IP announcement**.

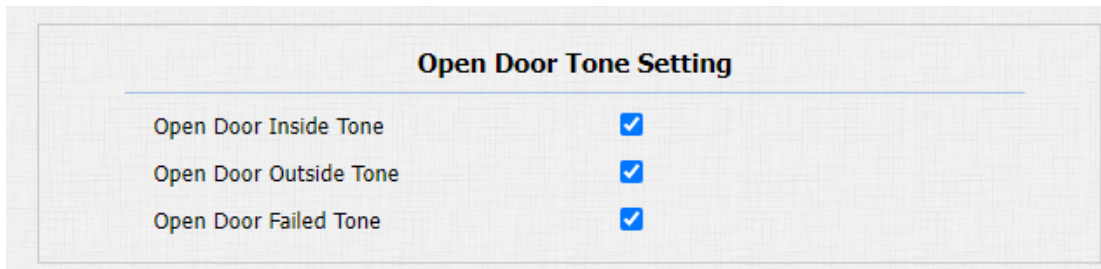
IP Announcement		
Active Time After Reboot	0	(0~180 sec)
Loop Times	1	(0~10)

Parameter Set-up:

- **Active Time After Reboot:** select IP announcement time after the device reboot. For example, if you set it as 30 seconds, then you must press the call button within 30 seconds for the IP announcement after the device is rebooted, otherwise, the IP announcement will expire. If you set it as "0" seconds, then you can press the call button any time after the reboot for the IP announcement.
- **Loop Times:** set the IP announcement loop times.

8.3.Open Door Tone Configuration

You can not only enable or disable the Open Door Tone but also control the prompt words that accompanies the tone on the web **Phone > Audio > Open Door Tone Setting** interface.



Open Door Tone Setting	
Open Door Inside Tone	☒
Open Door Outside Tone	☒
Open Door Failed Tone	☒

Parameters Set-up:

- **Open Door Inside Tone:** select the checkbox to enable the open door inside tone. Open door inside tone is what you can hear when you open the door by pressing the Exit button in side.
- **Open Door Outside Tone:** select the checkbox to enable the open door outside tone. Open door outside tone is what you can hear when you are granted door access via various access methods on the door phone.
- **Open Door Failed Tone:** enable the open door failure tone.

8.4.Upload Tone Files

8.4.1.Upload Ringback Tone

You can customize the ringback tone if you need. Please follow the prompt about the file size and format. Navigate to **Phone > Audio > Tone Upload** interface.

Tone Upload

File Format: wav, size: < 200KB, samplerate: 16000, Bits: 16

Open Door Succeeded Outside Warning	Choose File	No file chosen	Upload	Delete	Export
Open Door Succeeded Inside Warning	Choose File	No file chosen	Upload	Delete	Export
Open Door Failed Warning	Choose File	No file chosen	Upload	Delete	Export
Ringback	Choose File	No file chosen	Upload	Delete	Export
Trigger Manager Dial Warning	Choose File	No file chosen	Upload	Delete	Export

8.4.2.Upload Open Door Tone

You can customize the door open tone if you need. The outside tone is used to open door via card or DTMF. The inside tone is used to open door via triggered input interface. Please follow the prompt about the file size and format. Path: **Phone > Audio > Tone Upload**.

Tone Upload

File Format: wav, size: < 200KB, samplerate: 16000, Bits: 16

Open Door Succeeded Outside Warning	Choose File	No file chosen	Upload	Delete	Export
Open Door Succeeded Inside Warning	Choose File	No file chosen	Upload	Delete	Export
Open Door Failed Warning	Choose File	No file chosen	Upload	Delete	Export
Ringback	Choose File	No file chosen	Upload	Delete	Export
Trigger Manager Dial Warning	Choose File	No file chosen	Upload	Delete	Export

Parameter Set-up:

- **Open Door Succeeded outside Warning:** warning tone that will go off when you opened the door from outside. Open door succeeded outside warning is what you can hear when you are granted door access via access methods on the door phone.
- **Open Door Succeeded Inside Warning:** warning tone that will go off when you opened the door from inside. Open door succeeded inside warning is what you can hear when you open the door by pressing the Exit button in side.
- **Trigger Manager Dial Warning:** warning tone that will go off when pressing the push-button to make manager dial call.

9. Network Setting

9.1. Network Status

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

Network Information	
Port Type	DHCP Auto
Link Status	Connected
IP Address	192.168.31.11
Subnet Mask	255.255.255.0
Gateway	192.168.31.1
Preferred DNS Server	192.168.31.1
Alternate DNS Server	

9.2.Device Network Configuration

You can check for the door phone's network connection info and configure the default DHCP mode (**Dynamic Host Configuration Protocol**) and static IP connection for the device on the device web **Network > Basic** interface.

Network-Basic

LAN Port

☒ DHCP
☐ Static IP

IP Address	192.168.1.100
Subnet Mask	255.255.255.0
Default Gateway	192.168.1.1
Preferred DNS Server	8.8.8.8
Alternate DNS Server	

Submit

Cancel

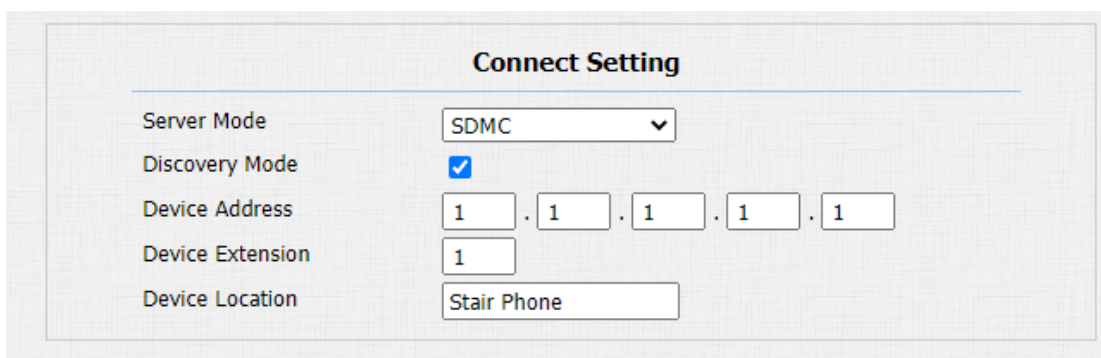
Parameter Set-up:

- **DHCP**: select the **DHCP** mode by moving the toggle switch to the right. DHCP mode is the default network connection. If the DHCP mode is turned on, then the door phone will be assigned by the DHCP server with IP address, subnet mask, default gateway and DNS server address automatically.

- **Static IP:** select the static IP mode by checking off the DHCP check box. When static IP mode is selected, then the IP address, subnet mask, default gateway, and DNS servers address have to be manually configured according to your actual network environment.
- **IP Address:** set up the IP Address if the static IP mode is selected.
- **Subnet Mask:** set up the subnet Mask according to your actual network environment.
- **Default Gateway:** set up the correct gateway default gateway according to the IP address of the default gateway.
- **Preferred/Alternate DNS:** set up preferred or alternate DNS Server (**Domain Name Server**) according to your actual network environment. Preferred DNS server is the primary DNS server address while the alternate DNS server is the secondary server address and the door phone will connect to the alternate server when the primary DNS server is unavailable.

9.3.Device Deployment in Network

Door phones should be deployed before they can be properly configured in the network environment in terms of their location, operation mode, address and extension numbers as opposed to other devices for the device control and the convenience of the management. So you can do it on web **Network > Advanced > Connect Setting** interface.



Connect Setting	
Server Mode	SDMC
Discovery Mode	☒
Device Address	1 . 1 . 1 . 1 . 1
Device Extension	1
Device Location	Stair Phone

Parameter Set-up:

- **Server Mode:** it is automatically set up according to the actual device connection with a specific server in the network such as **SDMC** or **Cloud** and **None**. **None** is the default factory setting indicating the device is not in any

server type, therefore you are allowed to choose Cloud, SMDC in discovery mode.

- **Discovery Mode:** click “**Enable**” to turn on the discovery mode of the device so that it can be discovered by other devices in the network, and click “**Disable**” if you want to conceal the device so as not to be discovered by other devices.
- **Device Address:** specify the device address by entering device location information from the left to the right: **Community, Unit, Stair, Floor, Room** in sequence.
- **Device extension:** enter the device extension number for the device you installed.
- **Device Location:** enter the location in which the device is installed and used.

9.4.Device Local RTP configuration

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

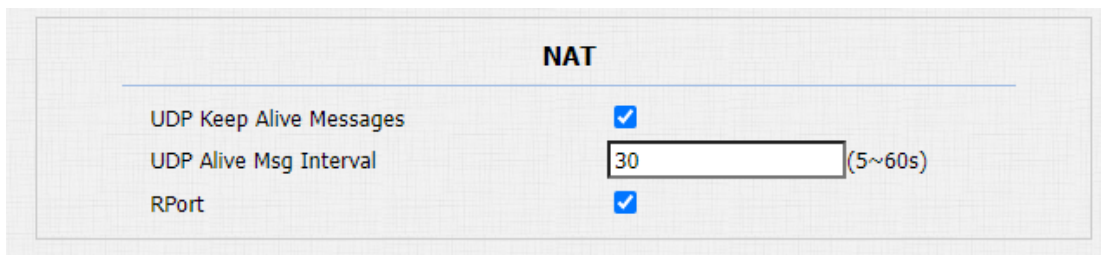
Local RTP		
Min RTP Port	11800	(1024~65535)
Max RTP Port	12000	(1024~65535)

Parameter Set-up:

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

9.5.NAT Setting

NAT (**Network Address Translation**) allows hosts in an organization's private intranet to transparently connect to hosts in the public domain. There is no need for internal hosts to have registered Internet addresses. It is a way to translate the internal private network IP address into a legal network IP address technology. To do this configuration on web **Account > Advance > NAT** interface.



NAT	
UDP Keep Alive Messages	☒
UDP Alive Msg Interval	30 (5~60s)
RPort	☒

Parameter Set-up:

- **UDP Keep Alive Messages:** if enabled, the device will send out the message to the SIP server so that the SIP server will recognize if the device is in online status.
- **UDP Alive Msg Interval:** set the message sending time interval from 5-60 seconds, the default is 30 seconds.
- **RPort:** enable the Rport when the SIP server is in WAN (**Wide Area Network**).

9.6.SNMP Setting

SNMP (Simple Network Management Protocol) is an Internet-standard protocol for managing devices on IP networks. SNMP is widely used in the network management system to monitor network-attached devices for conditions that may draw network administrative attention. SNMP exposes management data in the form of variables on the managed systems, which describe the system configuration. These variables can then be queried by managing applications. These variables accessible via SNMP are organized in hierarchies, which are described by Management Information Bases (MIBs). To do the configuration on the web **Network > Advanced > SNMP** interface.

SNMP	
Enabled	☐
Port	(1024~65535)
Trusted IP	

Parameter Set-up:

- **Active:** to enable or disable SNMP feature.
- **Port:** to configure SNMP server's port.
- **Trusted IP:** to configure allowed SNMP server address. It could be an IP address or any valid URL domain name.

9.7.VLAN Setting

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

VLAN	
LAN Port	Active Disabled
	VID 1 (1~4094)
	Priority 0

Parameter Set-up:

- **Active:** to enable or disable VLAN feature for designated port.

- **VID:** to configure VLAN ID for designated port.
- **Priority:** to select VLAN priority for designated port.

9.8.TR069 Setting

TR-069 (Technical Report 069) is the document number of the technical report, defined by the Broadband Forum, that specifies the “CPE WAN management protocol” or CWMP. It defines an application layer protocol for remote management of end-user devices. As a bidirectional SOAP/HTTP-based protocol, it provides the communication between Customer-Premises Equipment (CPE) and Auto-Configuration Servers (ACS). It includes both a safe auto configuration and the control of other CPE management functions within an integrated framework. To do the configuration on the web **Network > Advanced > TR069** interface.

TR069		
ACS	Active	Disabled ▾
	Version	1.0 ▾
	URL	
	User Name	
Periodic Inform	Password	*****
	Active	Disabled ▾
CPE	Periodic Interval	1800 (3~24×3600s)
	URL	
	User Name	
	Password	*****

Parameter Set-up:

- **Active:** to enable or disable TR069 feature.
- **Version:** to select supported TR069 version (version 1.0 or 1.1).
- **ACS/CPE:** ACS is short for auto configuration servers as server side, and CPE is short for customer-premise equipment as client side devices.
- **URL:** to configure URL address for ACS or CPE.

- **User Name:** to configure username for ACS or CPE.
- **Password:** to configure password for ACS or CPE.
- **Periodic Inform:** to enable periodically inform.
- **Periodic Interval:** to configure interval for periodic inform.

**Note:**

- TR-069 is a technical specification entitled CPE WAN Management Protocol (CWMP). It defines an application layer protocol for remote management of end-user devices.

9.9.Device Web HTTP Setting

This function is used to manage whether the device website is allowed to be accessed. The door phone supports two types of remote access methods HTTP and HTTPS(encryption). To do this configuration on the web **Network > Advanced > Web Server** interface.

Web Server	
HTTP Enabled	☒
HTTPS Enabled	☒
HTTP Port	80 (80,1024~65534)
HTTPS Port	443 (443,1024~65534)

Parameters Set-up:

- **HTTP Enabled:** set whether HTTP access to the device web page is allowed, Enabled is allowed, Disabled is not allowed, the default is Enabled.
- **HTTPS Enabled:** set whether HTTPS access to the device web page is allowed, Enabled is allowed, Disabled is not allowed, the default is Enabled.
- **HTTP Port:** set up the port for HTTP access method. 80 is the default port.
- **HTTPS Port:** set up the port for HTTPS access method. 443 is the default port.

10. Intercom Call Configuration

Intercom call in the device can be configured to allow you to perform a variety of customized intercom calls such as IP call and SIP call for different application scenarios.

10.1.IP call & IP Call Configuration

IP call can be made directly on the intercom device by entering the IP number on the device. And you can also disable the direct IP call if you do not allow IP call to be made on the device.



Direct IP	
Enabled	☒
Port	5060 (1~65535)

Parameters Set-up:

- **Enabled:** click “**Enable**” or “**Disable**” to turn the direct IP call on or off. For example, if you do not allow direct IP call to be made on the device, you can click “**Disable**” to terminate the function.
- **Port:** set up the IP direct call port, 5060 is the default port.

10.2.SIP Call &SIP Call Configuration

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

10.3.SIP Account Registration

Akuvox door phones support two SIP accounts that can all be registered according to your applications. You can, for example, switch between them if any one of the accounts failed and become invalid. The SIP account can be configured on the device and on the device interface. To perform the SIP account setting on the Web **Account > Basic > SIP Account** Interface.

The screenshot shows a web interface for configuring a SIP account. The page has a header 'Account-Basic' and a sub-header 'SIP Account'. Below the sub-header, there are several configuration fields:

SIP Account	
Status	UnRegistered
Account	Account 1
Account Enabled	☐
Display Label	204
Display Name	204
Register Name	204
User Name	204
Password	*****

Parameter Set-up:

- **Status:** check to see if the SIP account is registered or not.
- **Account:** select the exact account (Account 1&2) to be configured.
- **Account Enabled:** click **Enable** or **Disable** to activate or deactivate the registered SIP account.
- **Display Label:** configure the device label to be shown on the device screen.
- **Display Name:** configure the name, for example, the device's name to be shown on the device being called to.
- **Register Name:** enter the SIP account register Name obtained from the SIP account administrator.
- **User Name:** enter the user name obtained from SIP account administrator.
- **Password:** enter the password obtained from the SIP account administrator.

10.4.SIP Server Configuration

SIP servers can be set up for device in order to achieve call session through SIP servers between intercom devices. To do this configuration also on web **Account > Basic > SIP Server** interface.

Preferred SIP Server		
Server IP	192.168.1.88	Port 5060 (1024~65535)
Registration Period	1800	(30~65535s)

Alternate SIP Server		
Server IP		Port 5060 (1024~65535)
Registration Period	1800	(30~65535s)

Parameter Set-up:

- **Preferred SIP Server:** enter the primary server IP address number or its URL.
- **Alternate SIP Server:** enter the backup SIP server IP address or its URL.
- **Port:** set up SIP server port for data transmission.
- **Registration Period:** set up SIP account registration time span. SIP re-registration will start automatically if the account registration fails during the registration time span. The default registration period is “**1800**”, ranging from **30-65535s**.

10.5.Configure Outbound Proxy Server

An outbound proxy server is used to receive all initiating request messages and route them to the designated SIP server in order to establish call session via port-based data transmission. To set it up on the device web **Account > Basic > Outbound Proxy Server** Interface.

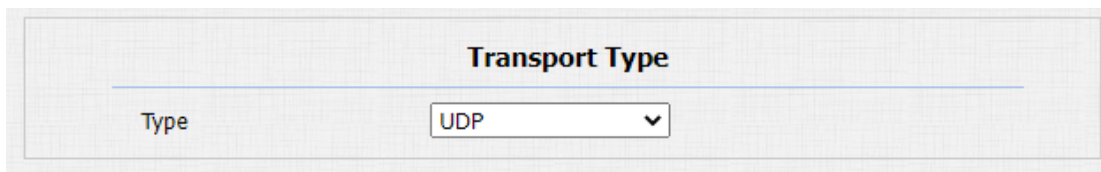
Outbound Proxy Server		
Outbound Enabled	☐	
Server IP		Port 5060 (1024~65535)
Backup Server IP		Port 5060 (1024~65535)

Parameter Set-up:

- **Outbound Enabled:** click “**Enable**” and “**Disable**” to turn on or turn off the outbound proxy server.
- **Server IP:** enter the SIP address of the primary outbound proxy server.
- **Port:** enter the Port number for establishing call session via the primary outbound proxy server
- **Backup Server IP:** set up Backup Server IP for the backup outbound proxy server.
- **Port:** enter the port number for establishing call session via the backup outbound proxy server.

10.6. Configure Data Transmission Type

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



The screenshot shows a web interface for configuring the transport type. At the top, there is a title bar labeled "Transport Type". Below this, there is a form with a label "Type" and a dropdown menu. The dropdown menu is currently set to "UDP".

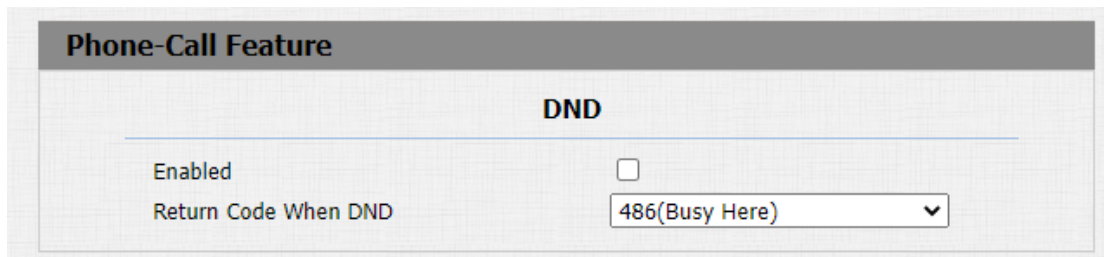
Parameter Set-up:

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

10.7. Configure Calling Feature

10.7.1. DND

DND (**Do not disturb**) setting allows you not to be disturbed by any unwanted incoming SIP calls. You can set up DND related parameters properly on the device web **Phone > Call Feature** interface to block SIP calls you do not intend to answer. In the meantime, you can also define the code to be sent to the SIP server when you want to reject the call.



The screenshot shows the 'Phone-Call Feature' configuration page. Under the 'DND' section, there is a checkbox labeled 'Enabled' which is currently unchecked. Below it, there is a label 'Return Code When DND' followed by a dropdown menu. The dropdown menu is open, showing the selected value '486(Busy Here)' and a downward arrow.

Parameter Set-up:

- **Enabled:** enable or disable the DND function. DND function is disabled by default.
- **Return Code When Refuse:** select code to be sent to the caller side via SIP server when you rejected the incoming call.

10.7.2. Manager Dial Call

Manager dial call consist of Robin call and group call. Manager Dial is used to quickly initiate the pre-configured numbers by pressing the Management key on door phone. You can create up 10 numbers. To do the configuration on the web **Intercom > Basic > Manager Dial** interface.

Intercom-Basic

Manager Dial

Call Type

Sequence Call ▾

Call Timeout (Sec)

60 ▾

(If the local group is not blank, then only the local numbers will be called.)

Sequence Call Number(Local)

1st Call	192.168.1.119/1,192.168.1.119/2,;
2nd Call	
3rd Call	
4th Call	
5th Call	
6th Call	
7th Call	
8th Call	
9th Call	
10th Call	

Parameter Set-up:

- **Call Type:** select the group call or sequence call (Robin call) for the manager dial call.
- **Sequence Call:** sequence call is used to initiate multiple numbers when your press the manager dial button. If the previous callee does not answer within the robin call timeout, the call will be transferred to the next one. If the call is answered by one of the callee, the call will not be transferred anymore.
- **Group Call:** group call is used to initiate calls to multiple numbers at the same when you press the manager dial button.
- **Sequence Call Number(Local):** enter the sequence call number. You can enter five sequence call number maximum in each line.

After the manager dial is set up, you can set up relays to be triggered by the manager dial if needed.

Trigger Relay By Manager Dial

RelayID

RelayA ☐ RelayB ☐

10.7.3.Call Hang-up

You can hang up the call on the door phone by pressing the push button if needed. To enable the push-button call hang-up, navigate to **intercom > Basic**.

Push To Hang Up

Enabled ☒

10.7.4.Web Call

In addition to making IP/SIP call directly on the device, you can also make the call on the device web interface without approaching to device physically for testing purpose, etc. You can navigate to **Intercom > Basic > Web Call**.

Web Call

Web Call(Ready)

Parameters Set-up:

Web Call (Ready): enter the IP/SIP number to dial out.

10.7.5.Auto Answer

You can define how quickly the door phone should respond in answering the incoming SIP/IP call automatically by setting up the time related parameters. In addition, you can also define the mode in which the calls are to be answered (video mode or audio mode). To enable this feature on web **Account > Advanced > Call** interface, you can set up the related parameters on web **Phone > Call Feature > Auto Answer**.

Call

Max Local SIP Port	5062	(1024~65535)
Min Local SIP Port	5062	(1024~65535)
Auto Answer	☒	
Prevent SIP Hacking	☐	

Auto Answer

Auto Answer Delay	0	(0~5 Sec)
Mode	Video	

Parameters Set-up:

- **Auto Answer:** turn on the Auto Answer function by clicking “**Enable**”.
- **Auto Answer Delay:** set up the delay time (from 0-5 sec.) before the call can be answered automatically. For example, if you set the delay time as 1 second, then the call will be answered in 1 second automatically.
- **Mode:** set up the video or audio mode you preferred for answering the call automatically.

10.7.6.Multicast

Multicast uses one-to-many mode to communicate in a range. Door phone can be a listener and receive the audio from the listened part.

Multicast

Multicast Setting

Multicast Priority Paging Barge

1 ▼

Paging Priority Enabled

✓

Priority List

IP Address	Listening Address	Label	Priority
1st IP Address	224.1.6.21:51230	AKUVOX	1
2nd IP Address			2
3rd IP Address			3
4th IP Address			4
5th IP Address			5
6th IP Address			6
7th IP Address			7
8th IP Address			8
9th IP Address			9
10th IP Address			10

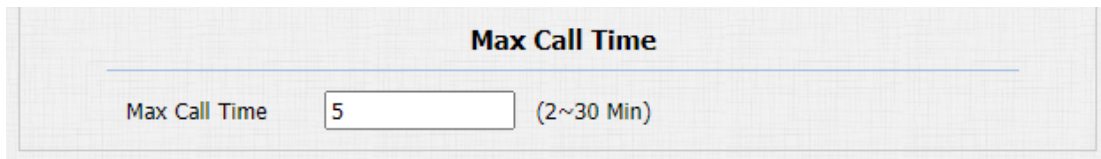
Parameters Set-up:

- **Multicast Priority Paging Barge:** multicast or how many multicast calls are higher priority than SIP call, if you disable Paging Priority Active, SIP call will have high priority.
- **Paging Priority enabled:** multicast calls are called in order of priority or not.
- **Listening Address:** enter the multicast IP address you want to listen. The multicast IP address needs to be the same as the listened part and the multicast port can not be the same for each IP address. Multicast IP address is from 224.0.0.0 to 239.255.255.255.
- **Label:** enter the label for each listening address.

10.7.7.Configure Maximum Call Duration

Door phone allows you to set up the call time duration in receiving the call from the calling device as the caller side might forget to hang up the intercom device.

When the call time duration is reached, the door phone will terminate the calling automatically. You can navigate **Intercom > Basic > Max Call Time**.



Parameters Set-up:

- **Max Call Time:** enter the call time duration according to your need (Ranging from 0-120 min). The default call time duration is 5 min.

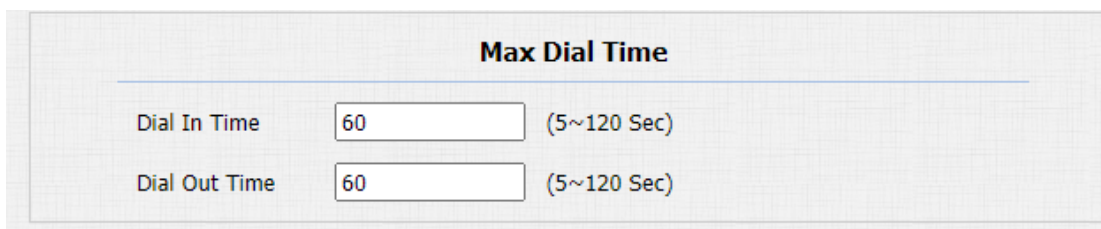


Note:

- Max call time of the device is also related with max call time of SIP server. If using SIP account to make a call, please pay attention to the max call time of SIP server. If the max call time of SIP server is shorter than the max call time of device, the shorter one is available.

10.7.8.Maximum Dial Duration

Maximum Dial duration consist of Maximum dial in time duration and the maximum dial out time. Maximum dial in time refers to the maximum time duration before the door phone hangs up the call if the call is not answered by the door phone. On the contrary, Maximum dial out time refers to the maximum time duration before the door phone hangs up itself automatically when the call from the door phone is not answered by the intercom device being called. You can navigate to **Intercom > Basic > Max Dial Time**.



Parameters Set-up:

- **Dial in Time:** enter the dial in time duration for your door phone (ranging from 30-120 sec.) for example, if you set the dial in time duration is 60 seconds in your door phone, then the door phone will hang up the incoming

call automatically if the call is not answered by the door phone in 60 seconds. 60 seconds is the dial in time duration by default.

- **Dial out Time:** enter the dial in time duration for your door phone (ranging from 5-120 sec.) for example, if you set the dial out time duration is 60 seconds in your door phone, then the door phone will hang up the call it dialed out automatically if the call is not answered by the device being called.



Note:

- Max dial time of device is also related with max dial time of SIP server. If using SIP account to make a call, please pay attention to the max dial time of SIP server. If the max dial time of SIP server is shorter than the max dial time of device, the shorter one is available.

10.7.9. Hang Up After Open Door

Max dial time of device is also related with max dial time of SIP server. If using SIP account to make a call, please pay attention to the max dial time of SIP server. If the max dial time of SIP server is shorter than the max dial time of device, the shorter one is available.

Hang Up After Open Door	
Type	DTMF Or HTTP
Time Out	5 (0~15 Sec)

Parameter Set-up:

- **Type:** select the open door type. Door can be unlocked via “DTMF”, “HTTP” command, “DTMF Or HTTP”, and “DTMF, HTTP or Input”.
- **Timeout:** the time out value can be set up from 1 second to 15seconds. 5 seconds is default. The call will be automatically hang up within this value after the door is opened.

11.Audio& Video Codec Configuration for SIP Calls

11.1.Audio Codec Configuration

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

SIP Account

Account

Account 1 ▼

Codecs

Disabled Codecs

>>

<<

Enabled Codecs

PCMU
PCMA
G722
G729

↑

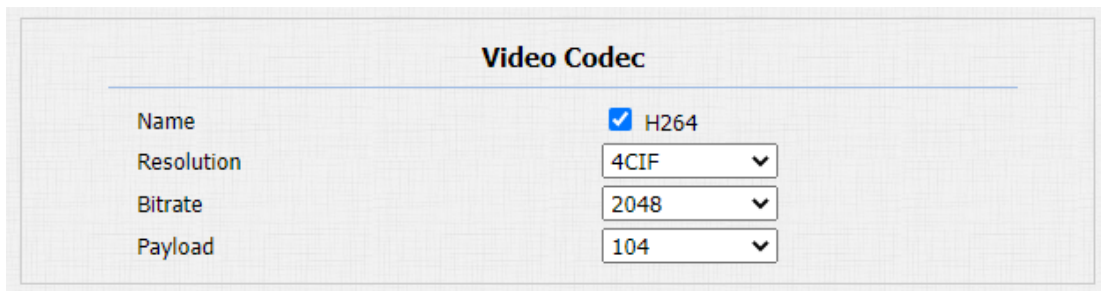
↓

Please refers to the bandwidth consumption and sample rate for the four codecs types below:

Codec Type	Bandwidth Consumption	Sample Rate
PCMA	64 kbit/s	8kHz
PCMU	64 kbit/s	8kHz
G729	8 kbit/s	8kHz
G722	64 kbit/s	16kHz

11.2.Video Codec Configuration

Akuvox door phone support H264 codec that provides a better video quality at a much lower bit rate. To set up video codec on web **Account > Advanced** interface.



Video Codec	
Name	☒ H264
Resolution	4CIF ▼
Bitrate	2048 ▼
Payload	104 ▼

Parameter Set-up:

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

11.3.Video Codec Configuration for IP Direct Calls

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

IP Video Parameters	
Video Resolution	4CIF
Video Biterate	2048 kbps
Video Payload	104

Parameter Set-up:

- **Video Resolution:** select the code resolution for the video quality among four options: “CIF”, “VGA”, “4CIF” and “720P”. The default code resolution is 4CIF.
- **Video Bitrate:** select video bit-rate among six options: “64 kbps”, “256kbps”, “512 kbps”, “1024 kbps”, “2048 kbps” according to your network environment. The default video bit-rate is “2048 kbps”.
- **Video Payload:** select the payload type (ranging from 90-118) to configure audio/video configuration file. The default payload is 104.

11.4. Configure DTMF Data Transmission

In order to achieve the door access via DTMF code or some other applications, you are required to properly configure DTMF on web **Account > Advanced > DTMF** in order to establish a DTMF-based data transmission between the door phone and other intercom devices for the third party integration.

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

Parameter Set-up:

- **Type:** select DTMF mode among five options: “Inband”, “RFC2833”, “Info+Inband” and “Info+RFC2833” based on the specific DTMF transmission type of the third party device to be matched with as the party for receiving signal data.

- **How to Notify DTMF:** select among four types: “**Disable**” “**DTMF**” “**DTMF-Relay**” “**Telephone-Event**” according to the specific type adopted by the third party device. You are required to set it up only when the third party device to be matched with adopts “**Info**” mode
- **Payload:** set the payload according to the specific data transmission payload agreed on between the sender and receiver during the data transmission.

12.Access White List Configuration

Akuvox door phone supports to store up to 500 contacts that can give access permission to the indoor monitor or other devices. Access White list includes group setting and contact setting and management. To set it up on web **Contacts > Access Allowlist**.

12.1.Managing Contacts

You can search, create, display, edit and delete the contacts in your phone book.
Path: **Contacts > Access Allowlist**.

Access Allowlist

Contacts

All Contacts ▼

Search

Search

Reset

Index	Name	Phone Number	Account	Floor	
1					☐
2					☐
3					☐
4					☐
5					☐
6					☐
7					☐
8					☐
9					☐
10					☐

Page 1 ▼

Prev

Next

Delete

Delete All

Contact Setting

Name

Phone Number

Account

Auto ▼

Floor

None

Parameters Set-up:

- **Name:** enter the contact name, which is required.
- **Phone Number:** enter the phone number of the contact, which is required.
- **Account:** select which SIP account will be used to call out. If using IP direct call, it is not available.
- **Floor:** enter the floor number if needed.

13. Relay Setting

13.1. Relay Switch Setting

You can configure the relay switch(es) and DTMF for the door access on the web **Intercom > Relay** interface.

Relay

Relay

Relay ID	RelayA	RelayB
Type	Default state	Default state
Mode	Monostable	Monostable
Trigger Delay(Sec)	0	0
Hold Delay(Sec)	3	3
DTMF Mode	1 Digit DTMF	
1 Digit DTMF	0	1
2~4 Digits DTMF	010	012
Relay Status	RelayA: Low RelayB: Low	
Relay Name	RelayA	RelayB

Parameter Set-up:

- **Relay ID:** you are allowed to set up three relay switches in total for the door access control (R29Z/R29ZL has only 1 relay).
- **Type:** if Default state is selected, the Relay Status shows Low which means the door is closed, the Relay Status shows High which means the door is opened. If Invert State is selected, the Relay Status shows High which means the door is closed, and Low means the door is opened.
- **Mode:** there are two modes Monostable and Bistable. If Monostable is selected, the relay status will be automatically reset within the relay delay time after the relay is triggered. If Bistable is selected, relay status will be reset after the relay is triggered again.
- **Trigger Delay (Sec):** set the relay trigger delay timing (Ranging from 1-10 Sec.) For example, if you set the delay time as “5” sec. then the relay will not be triggered until 5 seconds after you press “unlock” tab.
- **Hold Delay (Sec):** set the relay hold delay timing (Ranging from 1-10 Sec.) For example, if you set the hold delay time as “5” Sec. Then the relay will resume the initial state after maintaining the triggered state for 5s.
- **DTMF Mode:** select the number of DTMF digits for the door access control (Ranging from 1-4 digits) For example, you can select 1 digit DTMF code or 2-digit DTMF code, etc., according to your need.

- **1 Digit DTMF:** set the 1-digit DTMF code within range from (0-9 and *,#) if the DTMF Option is set as “**1-digit**”.
- **2~4 Digits DTMF:** set the DTMF code according to the **DMTP Option** setting. For example, you are required to set the 3-digits DTMF code if **DTMP Option** is set as 3-digits.
- **Relay Status:** relay status is low by default which means normally closed(NC) If the relay status is high, then it is in Normally Open status(NO).
- **Relay Name:** name the relay switch according to your need. For example, you can name the relay switch according to where the relay switch is located for convenience.

**Note:**

- Only the external devices connected to the relay switch need to be powered by power adapters as relay switch does not supply power.
-

**Note:**

- If DTMF mode is set as “**1 Digit DTMF**”, you cannot edit DTMF code in “**2~4 Digits DTMF**” field. And if you set DTMF mode from 2-4 in “**2~4 Digits DTMF**” field, you can not edit DTMF code in “**1 Digit DTMF**” field.

13.2.Web Relay Setting

In addition to the relay that is connected to the door phone, you can also control the door access using the network-based web relay on the device and on the device web interface.

Web relay needs to be set up on the web **Phone > WebRelay** interface where you are required to fill in such information as relay IP address, password, web relay action, etc before you can achieve the door access via web relay.

Web Relay

Web Relay

Type

IP Address

User Name

Password

Disabled ▼

Web Relay Action Setting

Action ID	Web Relay Action	Web Relay Key	Web Relay Extension
Action ID 01			
Action ID 02			
Action ID 03			

Parameter Set-up:

- **Type:** select among three options “Disabled” “Web Relay” and “Both”. Select “Web relay” to enable the web relay. Select “Disable” to disable the web relay. Select “Both” to enable both local relay and web relay.
- **IP Address:** enter the web relay IP address provided by the web relay manufacturer.
- **User Name:** enter the User name provided by the web relay manufacturer.
- **Password:** enter the password provided by the web relay manufacturer. The password is authenticated via HTTP and you can define the passwords using “http get” in Action.
- **Web Relay Action:** enter the specific web relay action command provided by the web manufacturer for different actions by the web relay. Without adding IP, username, pwd, you can fill in the HTTP command in the web relay action, so you can configure multiple web relays. See the HTTP command example below:
 - a. If you do not fill in IP address in the IP Address Field above, fill in a complete HTTP command.
 For example, Http://admin:admin@192.168.1.2/state.xml?relayState=2.
 (HTTP://:@IP address>/state.xml?relayState=2)
 - b. If you have already filled in the IP address above, fill in the omitted HTTP command, eg. state.xml?relayState=2.
- **Web Relay Key:** it can be null or enter the configured DTMF code, when the door is unlock via DTMF code, the action command will be sent to the web relay automatically.

- **Web Relay Extension:** it can be null or enter the relay extension information, which can be a SIP Account user name of an intercom device such as an indoor monitor, so that the specific action command will be sent when unlock is performed on the intercom device, while this setting is optional.

14.Door Access Schedule Management

You are required to configure and make schedule for the user-based door access via RF card, Private PIN and Facial recognition.

14.1.Relay schedule

Set the corresponding relay always open at a specific time. This feature is designed for some specific scenarios, for example, the time after school, or for morning work time. To do the configuration, navigate to **Intercom Relay > Relay Schedule** interface.

Relay Schedule

Relay ID

Schedule Enabled ☒

RelayA

All Schedules

1002:Never
1001:Always

>>

<<

Enabled Schedules

Parameter Set-up:

- **Relay ID:** choose on the relay you need to set up.
- **Schedule Enabled:** it is disabled by default. Only choose to enable it, that you can select the schedule. For creating the schedule, please refer to door access schedule configuration.

14.2.Configure Door Access Schedule

You can create door access schedules so that they can be later conveniently applied to the door access control intended for individual user or a group of users created. Moreover, you can edit your door access schedule if needed.

14.2.1.Create Door Access Schedule

You can create the door access schedule on a daily or monthly basis and you can also create a schedule that allows you to plan for a longer period of time in addition to running the door access schedule on a daily or monthly basis. To do this configuration on web **Intercom > Schedules** interface.

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51

Schedule Setting

Schedule Type Normal

Schedule Name

Date Range 20220215 - 20220215

Day of Week

Mon ☐ Tue ☐ Wed ☐ Thur ☐

Fri ☐ Sat ☐ Sun ☐ Check All ☐

Date Time HH : MM - HH : MM

Add
Reset

Schedules Management

All

Index	Schedule ID	Source	Mode	Name	Date	Day of Week	Time	
1	1002	Local	Daily	Never	-	-	-	☐
2	1001	Local	Daily	Always	-	-	00:00:00-23:59:59	☐
3								☐
4								☐
5								☐
6								☐
7								☐
8								☐
9								☐
10								☐

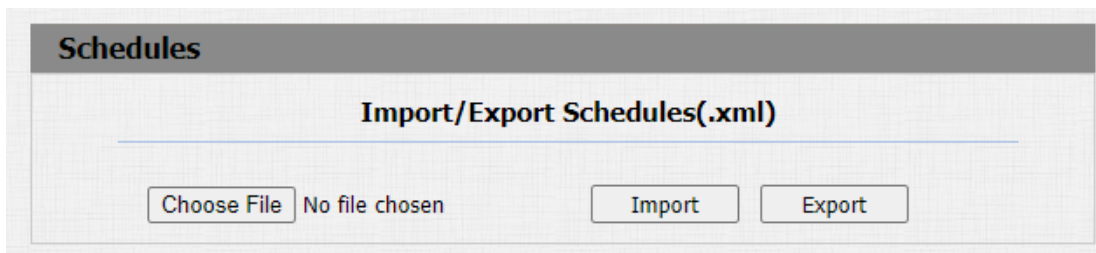
Page 1
Prev
Next
Delete
Delete All

Parameters Set-up:

- **Schedule Type:** set the type of time period. There are three types to choose from: Daily, Weekly, and Normal. The default is Daily.
- **Schedule Name:** set the name of the time period.
- **Date Time:** set the corresponding time period.
- **Day of Week:** select the corresponding day of the week. This field will only be displayed when the Week and Normal types are selected.
- **Date Range:** set the corresponding date. This field will only be displayed

14.2.2.Import and Export Door Access Schedule

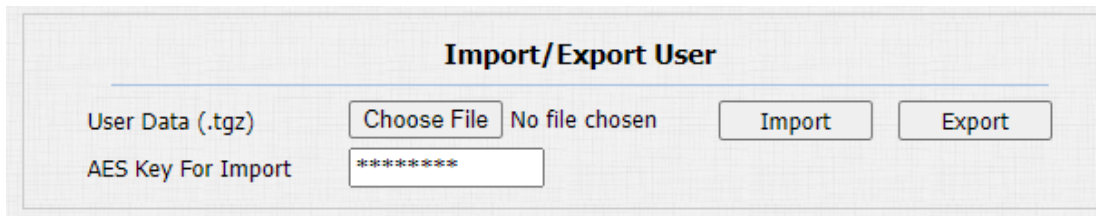
In addition to creating door access schedule separately, you can also conveniently import or export the schedules in order to maximize your door access schedule management efficiency. Path: **Intercom > Schedule > Import/Export Schedule(.xml)**.



The screenshot shows a web interface titled "Schedules". Below the title bar, there is a section titled "Import/Export Schedules(.xml)". Inside this section, there is a "Choose File" button, followed by the text "No file chosen". To the right of this are two buttons: "Import" and "Export".

14.2.3.Import and Export User

You can import and export the user in batch. You can navigate to **Intercom > User**.



The screenshot shows a web interface titled "Import/Export User". It contains two rows of controls. The first row is for "User Data (.tgz)" and includes a "Choose File" button, the text "No file chosen", and "Import" and "Export" buttons. The second row is for "AES Key For Import" and includes a text input field containing "*****".

Parameter Set-up:

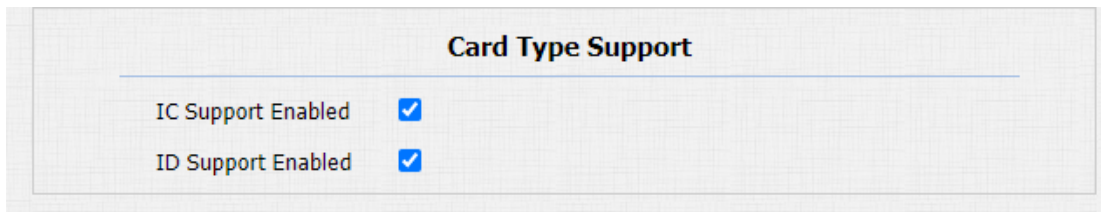
- **AES Key For Import:** enter the AES code before importing the AES-encrypted .tgz file to the door phone.

15.Door Unlock Configuration

Akuvox door phone offer you many types of door access. You can configure them on the device and web interface. Moreover, you can import or export the configured files to maximize your RF card configuration efficiency.

15.1.IC/ID Card Control

You can enable or disable the IC and ID card function if needed. You can navigate to **Intercom > Card Setting > Card Type Support**.



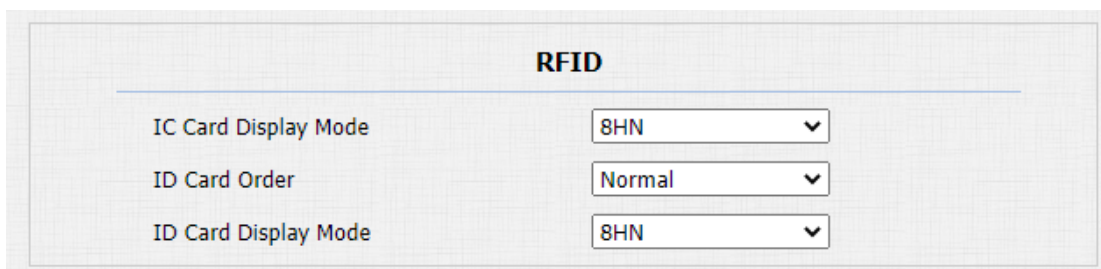
Card Type Support	
IC Support Enabled	☒
ID Support Enabled	☒

Parameter Set-up:

- **IC Support Enabled:** tick this feature to allow to use IC card for access door access.
- **ID Support Enabled:** tick this feature to allow to use ID card for door access.

15.2.Configure Access Card Format

If you want to integrate with the third party intercom system in terms of RF card door access, you can change the RF card code format to be identical with that applied in the third party system. You can do this configuration on web **Intercom > Card Setting** interface.



RFID	
IC Card Display Mode	8HN ▼
ID Card Order	Normal ▼
ID Card Display Mode	8HN ▼

Parameters Set-up:

- **IC CARD Display Mode:** select the card code format for the **IC card** for the

door access among five format options: **8H10D**; **6H3D5D(W26)**; **6H8D**; **8HN**; **8HR**. The card code format is 8HN by default in the door phone.

- **ID Card Order:** select normal or reversed display of ID card.
- **ID Card Display Mode:** select the card format for the **ID Card** for the door access among five format options: **8H10D**; **6H3D5D(W26)**; **6H8D**; **8HN**; **8HR**. The card code format is 8HN by default in the door phone.

15.3. Configuring RF Card for Door Unlock

You can manage the card number and corresponding parameters on web **Intercom > Card Setting** interface.

15.3.1. Configure RF Card on the Web Interface

You can tap the RF card on the reader and click obtain to add RF card for the user. Path: **Intercom > User**.

The screenshot displays the 'User' management interface. At the top, there is a header 'User'. Below it, there is a search bar with 'Name/User ID' and a dropdown menu set to 'All'. There are buttons for 'Search', 'Reset', and 'Add' (highlighted with a red box). Below the search bar is a table with the following columns: Index, Source, User ID, Name, RF Card, Floor No., Web Relay, Schedule-Relay, and Edit. The table contains three rows of data, each with an edit icon in the 'Edit' column.

Index	Source	User ID	Name	RF Card	Floor No.	Web Relay	Schedule-Relay	Edit
1								
2								
3								

The screenshot shows a web interface for managing users. It has a header 'User' and two main sections: 'User Basic' and 'RF Card'. In the 'User Basic' section, there are three fields: 'User ID' with the value '1', 'Name' which is empty, and 'Role' which is a dropdown menu currently showing 'General User'. The 'RF Card' section has a 'Code' field which is empty, an 'Obtain' button, and a '+Add' button below it.

Parameter Set-up:

- **User ID:** enter the user ID. The user ID is 11 digits maximum in length and can not be reused for other users. The User ID can be generated automatically or manually.
- **Name:** enter the user name.
- **Role:** select general users for residents and select administrator for the administrator.
- **Code:** place the card on the device card reader area and click obtain.



Note:

- RF card with 13.56 MHz and 125 KHz can be applicable to the door phone for door access.

15.4.Import and Export Card Data of Access Control

Akuvox door phones support card data of access control to be shared among Akuvox door phones through import and export while you can also export the card data out of the door phone and then import to Akuvox door phones on web **Intercom > Card Setting** interface.

Import/Export Card Data(.xml)

Choose File

No file chosen

Card AES Key

.....

Import

Export

Parameter Set-up:

- **Card AES Key:** enter the AES code before importing the AES-encrypted .xml file to the door phone.

15.5.Mifare/Defire CarD Encryption

Mifare card and Defire card can be encrypted for greater security. To encrypt the card, you can navigate to **Intercom > Card setting > Mifare/Defire Card Encryption**.

Card Setting

Mifare Card Encryption

Enabled

☐

Sector / Block

0

/

0

Block Key

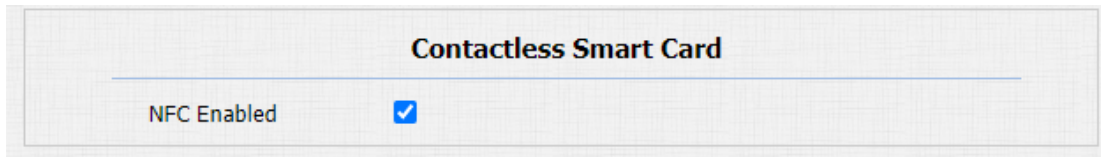
.....

Parameter Set-up:

- **Enabled:** enable the Mifare/Defire Card Encryption.
- **Sector/Block:** enter the sector and block that you want the card number to be written into the Mifare/Defire Card. For example, you can write the card number into sector 3 and block 3 in the card.
- **Block Key:** enter the block password for access.

15.5.1.NFC Card Setting

NFC function needs to be enabled before you can use the NFC for contactless door access. Path: **Intercom > Card Setting** interface.



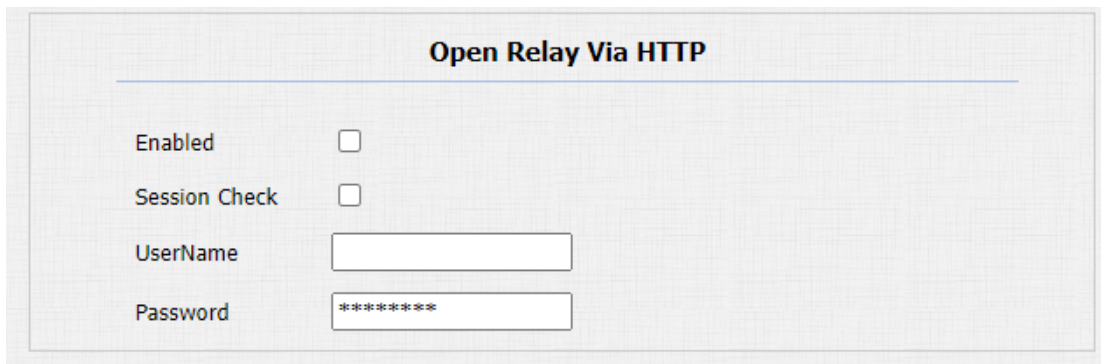
The screenshot shows a web interface titled "Contactless Smart Card". Below the title, there is a label "NFC Enabled" followed by a blue checkbox that is checked.

Parameter Set-up:

- **NFC Enabled:** NFC feature is enabled by default. The device must be connected to SmartPlus for the NFC application.

15.6.Configure Open Relay via HTTP for Door Unlock

You can unlock the door remotely without approaching the device physically for the door access by typing in the created HTTP command (URL) on the web browser to trigger the relay when you are not available by the door for the door access. To do this configuration on web **Intercom > Relay > Open Relay Via HTTP** interface.



The screenshot shows a web interface titled "Open Relay Via HTTP". It contains four configuration items: "Enabled" with an unchecked checkbox, "Session Check" with an unchecked checkbox, "UserName" with a text input field, and "Password" with a password input field (masked with asterisks).

Parameter Set-up:

- **Enabled:** enable the HTTP command unlock function by clicking on **Enable** field.
- **Session Check:** enable it to protect data transmission security.
- **UserName:** enter the user name of the device web interface, for example, "Admin".

- **Password:** enter the password for the HTTP command. For example: "12345".

Please refer to the following example:

h t t p : / / 1 9 2 . 1 6 8 . 3 5 . 1 2 7 / f c g i / d o ?
action=OpenDoor&UserName=admin&Password=12345&DoorNum=1



Note:

- **DoorNum** in the HTTP command above refers to the relay number #1 to be triggered for the door access.

15.7.Configure Exit Button for Door Unlock

When you need to open the door from inside using the Exit button installed by the door, you can configure the door phone Input to trigger the relay for the door access on web **Intercom > Input** interface.

Input

Input A

Enabled	☐
Trigger Electrical Level	Low
Action To Execute	FTP ☐ Email ☐ HTTP ☐ SIP Call ☐
HTTP URL	
Action Delay	0 (0~300 Sec)
Execute Relay	None
Door Status	DoorA: High

Parameter set-up:

- **Enabled:** enable the function if needed.
- **Trigger Electrical Level:** select the trigger electrical level options between

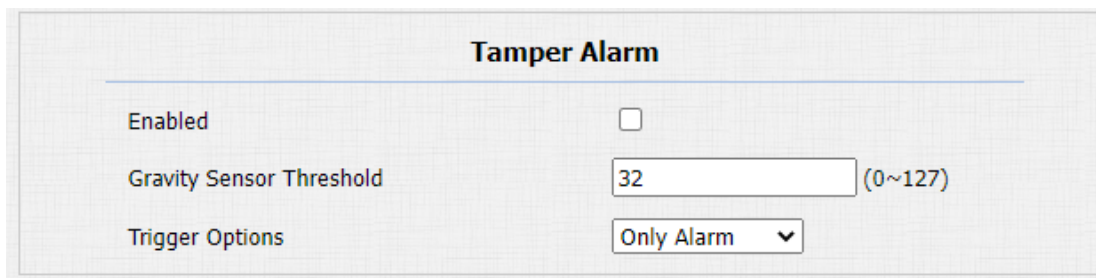
“High” and “Low” according to the actual operation on the exit button.

- **Action To Execute:** select the method to carry out the action among four options: FTP, Email, HTTP, TFTP.
- **Http URL:** enter the URL if you select the HTTP to carry out the action.
- **Action Delay:** set up the delay time when the action is carried out. For example, if you set the action delay time at 5 seconds, then the corresponding actions will be carried out 5 minutes after your press the button.
- **Execute Relay:** set up relays to be triggered by the actions.
- **Door Status:** display the status of the input signal.

16.Security

16.1.Tamper Alarm Setting

Tamper alarm function serves as a protection against any unauthorized removal of the devices by triggering off the temper alarm while sending out calls to the designated location. Tamper alarm will be triggered off when the door phone changes its gravity value as opposed to its original gravity value set up when the device is installed. You can navigate to **Security > Basic > Temper Alarm**.



The screenshot shows a web-based configuration interface for the 'Tamper Alarm' function. The title 'Tamper Alarm' is centered at the top. Below it, there are three settings: 'Enabled' with an unchecked checkbox, 'Gravity Sensor Threshold' with a text input field containing '32' and a range indicator '(0~127)', and 'Trigger Options' with a dropdown menu set to 'Only Alarm'.

Tamper Alarm	
Enabled	☐
Gravity Sensor Threshold	32 (0~127)
Trigger Options	<select><option>Only Alarm</option></select>

Parameter Set-up:

- **Tamper Alarm:** enable the anti-theft alarm function.

- **Gravity sensor Threshold:** set the threshold for the gravity sensory sensitivity. The lower the value is, the higher the value will be. The gravity sensor value is 32 by default.
- **Trigger Options:** select what can be triggered when the gravity sensor is triggered.

16.2.Client Certificate Setting

Certificates can ensure communication integrity and privacy when deploying Akuvox door phone. So, when the user needs to establish SSL protocol, it is necessary to upload corresponding certificates for verification.

Web Server Certificate: it is the certificate that sends to clients for authentication when clients require an SSL connection with Akuvox door phone. Currently, the format of the certificate can be accepted by Akuvox door phone is *.PEM file.

Client Certificate: When Akuvox door phone Phone required an SSL connection with servers, the phone must verify the server to make sure it can be trusted. and the server will send its certificate to the Akuvox door phone. Then the door phone will verify this certificate according to client certificate list.

16.2.1.Web Server Certificate

To upload Web Server certificate on the device web interface **Security > Advanced > Web Server Certificate**.

Advanced

Web Server Certificate

Index	Issue To	Issuer	Expire Time	Delete
1	IPhone	IPhone	Sun Oct 9 16:00:00 2034	Delete

Web Server Certificate Upload(.PEM/.DER/.CER)

Choose File No file chosen Submit Cancel

16.2.2.Client Certificate

To upload and configure client certificate on the same page.

Client Certificate

Index	Issue To	Issuer	Expire Time	
1				☐
2				☐
3				☐
4				☐
5				☐
6				☐
7				☐
8				☐
9				☐
10				☐

Client Certificate Upload(.PEM/.DER/.CER/.CRT)

Index

No file chosen

Only Accept Trusted Certificates

Auto ▼

Disabled ▼

Parameter Set-up:

- **Index:** select the desired value from drop-down list of Index. If you select **Auto** value, the uploaded certificate will be displayed in numeric order. If you select the value from 1 to 10, the uploaded certificate will be displayed according to the value that the user selected.
- **Select File:** click Choose file browse local drive, and locate the desired certificate. (*.pem only)
- **Only Accept Trusted certificates:** if select Enabled, as long as the authentication success, the phone will verify the server certificate based on the client certificate list. If select Disabled, the phone will not verify the server certificate no matter whether the certificate is valid or not.

16.3.Motion Detection

Motion Detection is often used for unattended surveillance video and automatic alarms. The images collected by the camera at different frame rates will be calculated and compared by the CPU according to a certain algorithm. When the picture changes, if someone walks by, the lens is moved, the number obtained by the calculation and comparison result will exceed the threshold and indicate that the system can the corresponding processing is made automatically.

16.3.1. Configure Motion Detection

You can turn on the motion detection and set up the motion detection interval on the device. Path: **Intercom > Motion > Motion Detection Options**.

The screenshot shows a web interface for configuring motion detection. It is divided into two main sections: "Motion Detection Options" and "Motion Detect Time Setting".

Motion Detection Options:

- Suspicious Moving Object Detection:** A dropdown menu currently set to "Disabled".
- Timing Interval:** A text input field containing "10", with a range indicator "(0~120 Sec)" to its right.

Motion Detect Time Setting:

- Day:** A row of checkboxes for each day of the week: Mon, Tue, Wed, Thur, Fri, Sat, Sun. All days from Mon to Sun are checked. There is also an unchecked checkbox labeled "Check All".
- Start Time - End Time:** A time range selector with dropdown menus for hours and minutes. The current selection is 00:00 - 23:59.

Parameter Set-up:

- **Suspicious Moving Object Detection:** select "disable" to disable the motion detection. Select "IR detection" to enable the IR sensor based motion detection for the suspicious moving objects. And select " Video detection" to enable the video-based motion detection during the monitoring for the suspicious moving object.
- **Time Interval:** set the time interval for the motion detection. If you set the default time interval as "10" Sec, then the motion detection time span will be 10 seconds. Assuming that we set the time interval as "10" then, and the first movement captured can be seen as start point of the motion detection, and if the movement continues through 7 seconds of the 10 seconds interval, then the alarm will be triggered at 7 seconds (the first trigger point) and motion detection action can be triggered (sending out notification) anywhere between 7-10 seconds once the movement is detected. "10" Sec interval is a complete cycle of the motion detection before it starts another cycle of the same time interval. To be more specific, the first trigger point can be calculated as the "Time interval minus three".

- **Day:** set up the motion detection schedule.
- **Start Time- End Time:** set up the start time and end time on daily basis.

16.4.Security Notification Setting

16.4.1.Email Notification Setting

If you want to receive the security notification via email, you can configure the Email notification on the web **Intercom > Action > Email Notification** interface properly. The email notification will show as the captures.

Action	
Email Notification	
Sender's Email Address	
Receiver's Email Address	
SMTP Server Address	
SMTP User Name	
SMTP Password	
Email Subject	
Email Content	
Email Test	Email Test

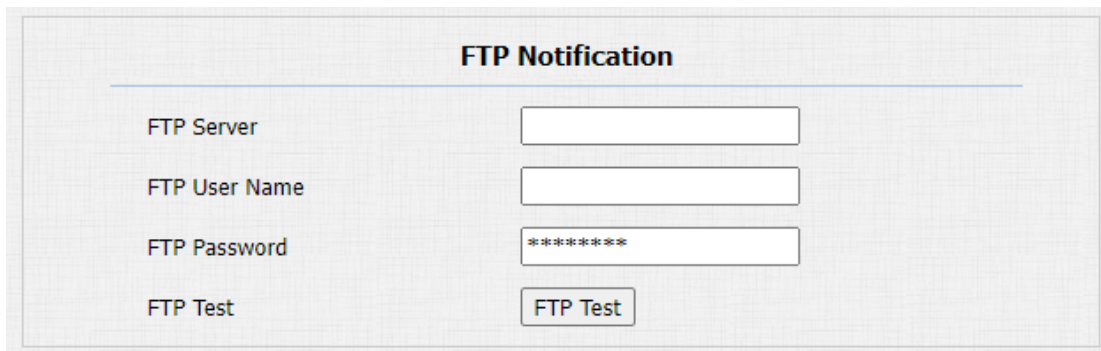
Parameter Set-up:

- **Sender's email address:** enter the sender's email address from which the email notification will be sent out.
- **Receiver's Email Address:** enter the receiver's email address.
- **SMTP Server Address:** enter the SMTP server address of the sender.

- **SMTP User Name:** enter the SMTP user name, which is usually the same as the sender's email address.
- **SMTP Password:** configure the password of SMTP service, which is the same as the sender's email address.
- **Email Subject:** enter the subject of the email.
- **Email Content:** compile the contents of emails according to your need.
- **Email Test:** click **Email Test** to test if you can receive the Email.

16.4.2.FTP Notification Setting

If you want to receive the security notification via FTP, you can configure the FTP notification on the web **Intercom > Action > FTP Notification** properly.



The screenshot shows a web interface titled "FTP Notification". It contains four input fields and a button. The first three are text inputs: "FTP Server", "FTP User Name", and "FTP Password" (which has asterisks for masking). The fourth is a button labeled "FTP Test".

FTP Notification	
FTP Server	
FTP User Name	
FTP Password	*****
FTP Test	FTP Test

Parameter Set-up:

- **FTP Server:** enter the address (URL) of the FTP server for the FTP notification.
- **FTP User Name:** enter the FTP server user name.
- **FTP Password:** enter the FTP server password.
- **FTP Test:** run the test to see if FTP notification can be sent and received by the FTP server.

16.4.3.SIP Call Notification Setting

In addition to FTP and Email notification, the door phone can also make a SIP call when some feature action is triggered. To configure a SIP call notification on web **Intercom > Action > SIP Call Notification** interface.

SIP Call Notification	
SIP Call Number	5101100010
SIP Caller Name	Judy

Parameter Set-up:

- **SIP Call Number:** to configure SIP call number.
- **SIP Call Name:** to configure display name of door phone.

16.4.4.HTTP URL Notification Configuration

Akuvox door phone support sending the HTTP notification to the third party when some features are triggered. HTTP notification can be set up in specific chapters, please check chapter 15.4. The URL format: **http://http server IP address/any information**.Refer to: **Intercom > Motion > Action to Execute**.

Action To Execute	
Action To Execute	FTP ☐ Email ☐ SIP Call ☐ HTTP ☐
HTTP URL	

Parameter Set-up:

- **HTTP URL:** tick the check box to enable HTTP URL notification.
- **HTTP URL:** if you choose HTTP mode, enter the URL format: **http://http server IP address/any information.**

16.5.Security Action Configuration

16.5.1.Configure Push Button Action

When pressing the push button, the door phone will trigger the preconfigured action type, the notification can be sent out by Email, FTP notification or SIP call. To do this configuration on web **Intercom > Basic** interface.

The screenshot shows a web interface titled "Action To Execute". It contains four radio buttons for selecting an action type: "FTP", "Email", "SIP Call", and "HTTP". Below these buttons is a text input field labeled "HTTP URL".

Parameter Set-up:

- **Action To Execute:** to choose which action to be executed after triggering.

16.5.2.Configure Motion Action

When the Motion Detection feature is working, you can make it trigger an action. To do this configuration on web **Intercom > Motion** interface.

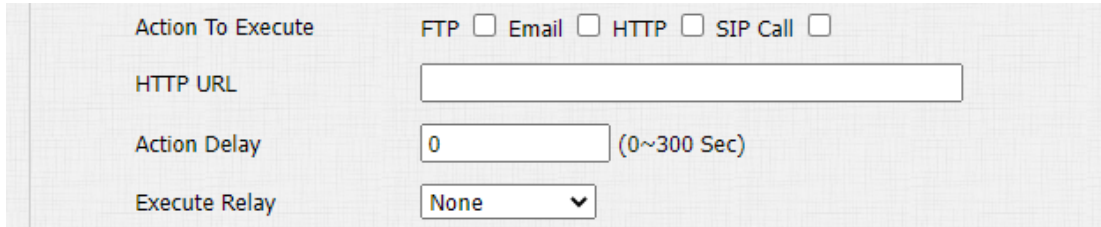
The screenshot shows a web interface titled "Action To Execute". It contains four radio buttons for selecting an action type: "FTP", "Email", "SIP Call", and "HTTP". Below these buttons is a text input field labeled "HTTP URL".

Parameter Set-up:

- **Action To Execute:** to choose which action to be executed after triggering.

16.5.3. Configure Input Action

When Input interface is working , it can also trigger an action. You can do this configuration on web **Intercom > Input** interface.



The screenshot shows a configuration panel for the 'Input' interface. It includes the following fields and options:

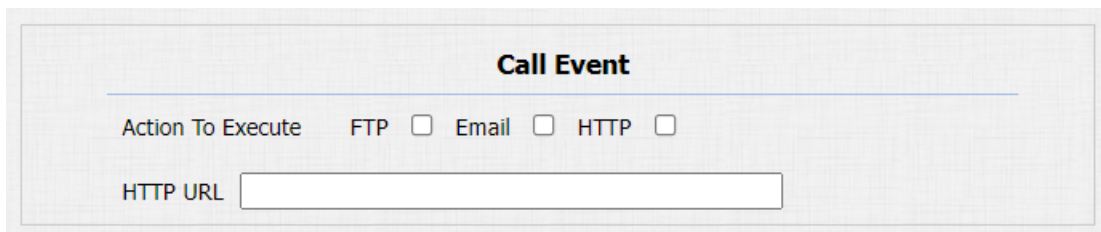
- Action To Execute:** A row of four checkboxes: FTP ☐, Email ☐, HTTP ☐, and SIP Call ☐.
- HTTP URL:** A text input field.
- Action Delay:** A numeric input field containing '0', with a range indicator '(0~300 Sec)' to its right.
- Execute Relay:** A dropdown menu currently set to 'None'.

Parameter Set-up:

- **Action to execute:** to choose which action to execute after triggering.

16.5.4. Call Event Notification

If you want to be notified of the call event (call receiving, answering, etc.) navigate to **Intercom > Basic > Call Event**.



The screenshot shows a configuration panel titled 'Call Event'. It includes the following fields and options:

- Action To Execute:** A row of three checkboxes: FTP ☐, Email ☐, and HTTP ☐.
- HTTP URL:** A text input field.

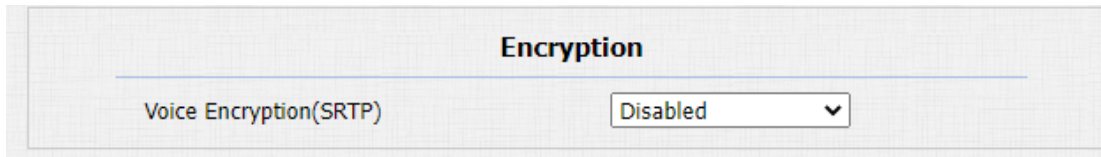
Parameter Set-up:

- **Action To Execute:** select the method to carry out the action among four options: FTP, Email, HTTP, TFTP.
- **HTTP URL:** enter the URL if you select the HTTP to carry out the action.

16.6. Voice Encryption

SRTP (Secure Real-time Transport Protocol) is a protocol defined on the basis of

Real-time Transport Protocol. The data of the transmission protocol provides encryption, message authentication, integrity assurance and replay protection. To configure this feature on web **Account > Advanced > Encryption** interface.



Encryption

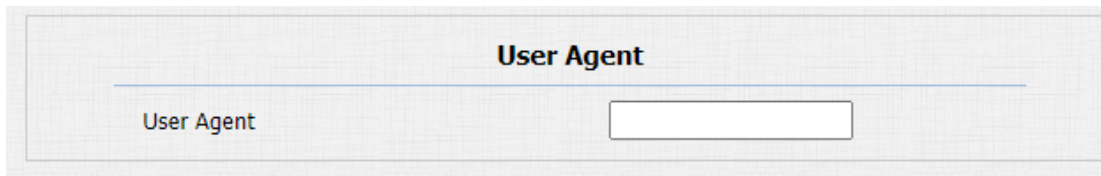
Voice Encryption(SRTP) Disabled ▼

Parameter Set-up:

- **Voice Encryption(SRTP):** choose **Disabled**, **Optional** or **Compulsory** for SRTP. If it is **Optional** or **Compulsory**, the voice during the call is encrypted, and you can grab the RTP packet to view.

16.7. User Agent

You can customize user agent field in the SIP message. If user agent is set to a specific value, users can see the information from PCAP. If user agent is blank, by default, users can see the company name “Akuvox”, model number and firmware version from PCAP. Path: **Account > Advanced > User Agent**.



User Agent

User Agent

Parameter Set-up:

- **User Agent:** support to enter another specific value, Akuvox is by default.

17. Monitor and Image

17.1. RTSP Stream Monitoring

Akuvox door phone support RTSP stream that allows intercom devices such as the indoor monitor or the monitoring unit from the third party to monitor or obtain the real time audio/ video (RTSP stream) from the door phone using the correct URL.

17.1.1. RTSP Basic Setting

You are required to set up RTSP function on device web **Intercom > RTSP > RTSP Basic** interface in terms of RTSP Authorization, authentication and password etc before you are able to use the function.

RTSP	
RTSP Basic	
Enabled	☒
RTSP Authorization Enabled	☐
MJPEG Authorization Enabled	☐
Authentication Mode	Basic ▼
User Name	admin
Password	*****

Parameter Set-up:

- **RTSP Server Enable:** click on Enable and Disable in **RTSP Enable** field to turn on or turn off the RTSP function.
- **RTSP Authorization Enabled:** click on Enable and Disable in RTSP Authorization field to enable or disable the RTSP authorization. If you enable the RTSP Authorization, you are required to enter RTSP Authentication Type, RTSP Username, RTSP Password on the intercom device such as indoor monitor for authorization.

- **RTSP User Name:** enter the name used for RTSP authorization.
- **RTSP User Password:** enter the password for RTSP authorization.
- **RTSP Authentication Type:** select RTSP authentication type between “Basic” and “Digest”. “Basic” is the default authentication type.

17.1.2.RTSP Stream Setting

You can select the video codec format for the RTSP stream for the monitoring and configure video resolution and bit-rate etc based on your actual network environment on the web **Intercom > RTSP > RTSP stream** interface.

RTSP Stream	
Audio Enabled	☒
Video Enabled	☒
2nd Video Enabled	☒
Audio Codec	PCMU ▼
Video Codec	H.264 ▼
2nd Video Codec	H.264 ▼

Parameter Set-up:

- **Audio Enabled:** tick to enable RTSP audio which means, the door phone can also send audio information to the monitor by RTSP.
- **Video Enabled:** the door phone can send the video information to the monitor. After enabling RTSP feature, the video RTSP is enabled by default and can not be modified.
- **2nd Video Enabled:** Akuvox door phones support 2 RTSP streams, you can enable the second one.
- **Audio Codec:** choose a suitable audio codec for RTSP audio.
- **Video Codec:** choose a suitable video codec for RTSP video.

Video Resolution	720P ▼
Video Framerate	30 fps ▼
Video Bitrate	2048 kbps ▼
2nd Video Resolution	VGA ▼
2nd Video Framerate	30 fps ▼
2nd Video Bitrate	512 kbps ▼

Parameter Set-up:

- **Video Resolution:** select video resolutions among seven options: “**QCIF**”, “**QVGA**”, “**CIF**”, “**VGA**”, “**4CIF**”, “**720P**”. The default video resolution is “**4CIF**”. and the video from the door phone might not be able to be shown in the indoor monitor if the resolution is set higher than “**4CIF**”.
- **Video Framerate:** “**30fps**” is the video frame rate by default.
- **Video Bitrate:** select video bit-rate among six options: “**64 kbps**”, “**256kbps**”, “**512 kbps**”, “**1024 kbps**”, “**2048 kbps**” according to your network environment. The default video bit-rate is “**2048 kbps**”.
- **2nd Video Resolution:** select video resolution for the second video stream channel. While the default video solution is “**VGA**”.
- **2nd Video Framerate:** select the video framerate for the second video stream channel. “**25fps**” is the video frame rate by default for the second video stream channel.
- **2nd Video Bitrate:** select video bitrate among the six options for the second video stream channel. While the second video stream channel is “**512 kbps**” by default.

17.1.3.NACK

NACK (**Negative Acknowledgement**) is used to ensure the smooth and continued data transmission for the video call. To enable NACK, navigate to **Phone > Call Feature > Others**.

Others	
Return Code When Refuse	486(Busy Here) ▼
NACK Enabled	☐

Parameter Set-up:

- **NACK Enabled:** enable the NACK. It can be used to prevent losing data packet in the weak network environment when discontinued and mosaic video image occurred.

17.2.MJPEG Image Capturing

Akuvox door phone allow you to capture the Mjpeg format monitoring image if needed. You can enable the Mjpeg function on **Intercom > RTSP > RTSP Basic** and set the image quality on the web **Intercom > RTSP > MJPEG Video Parameters** interface.

RTSP	
RTSP Basic	
Enabled	☒
RTSP Authorization Enabled	☐
MJPEG Authorization Enabled	☐
Authentication Mode	Basic ▼
User Name	admin
Password	*****

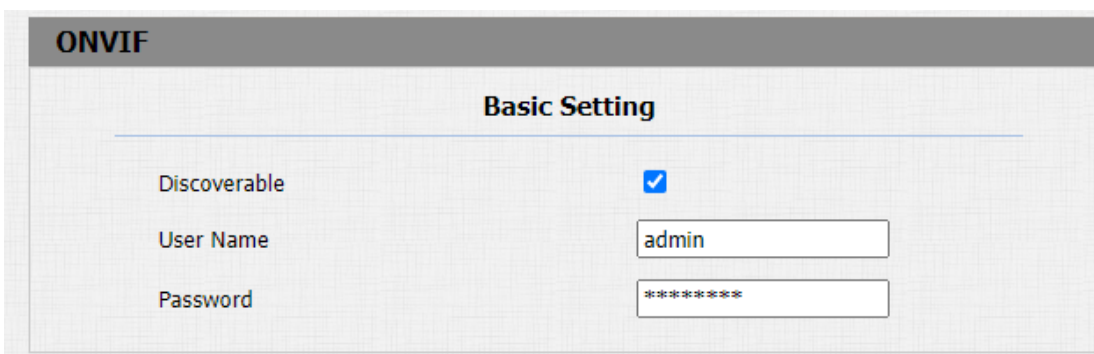
MJPEG Video Parameters	
Enabled	☒
Video Resolution	VGA ▼
Video Framerate	30 fps ▼
Video Quality	90 ▼

Parameter Set-up:

- **Enabled:** tick it to access device video or real-time screenshots through a browser (http address such as: http://device IP:8080/video.cgi (dynamic video), http://device IP:8080/jpeg.cgi (static screenshot))
- **Video Resolution:** select video resolutions among seven options: “QCIF”, “QVGA”, “CIF”, “VGA”, “4CIF”, “720P”. The default video resolution is “4CIF”. and the video from the door phone might not be able to be shown in the indoor monitor if the resolution is set higher than “4CIF”.
- **Video Framerate:** “30fps” is the video frame rate by default.
- **Video Quality:** the video bitrate, from 50 to 90.

17.3.ONVIF

Real-time video from the door phone camera can be searched and obtained by the Akuvox indoor monitor or by third party devices such as NVR (**Network Video Recorder**) you can configure the ONVIF function on the web **Intercom > ONVIF** interface so that other devices will be able to see the video from the door phone.



The screenshot shows a web interface titled "ONVIF" with a sub-section "Basic Setting". It contains three configuration items: "Discoverable" with a checked checkbox, "User Name" with a text box containing "admin", and "Password" with a masked text box showing asterisks.

Parameter Set-up:

- **Discoverable:** tick the check box to enable the Discoverable ONVIF mode. If you select “**Discoverable**” then the video from the door phone camera can be searched by other devices.
- **User Name:** enter the user name. The user name is “**admin**” by default.
- **Password:** enter the password. The password is “**admin**” by default.

After the setting is complete, you can enter the ONVIF URL on the third party device to view the video stream.

For example: **http://IP address:80/onvif/device_service**



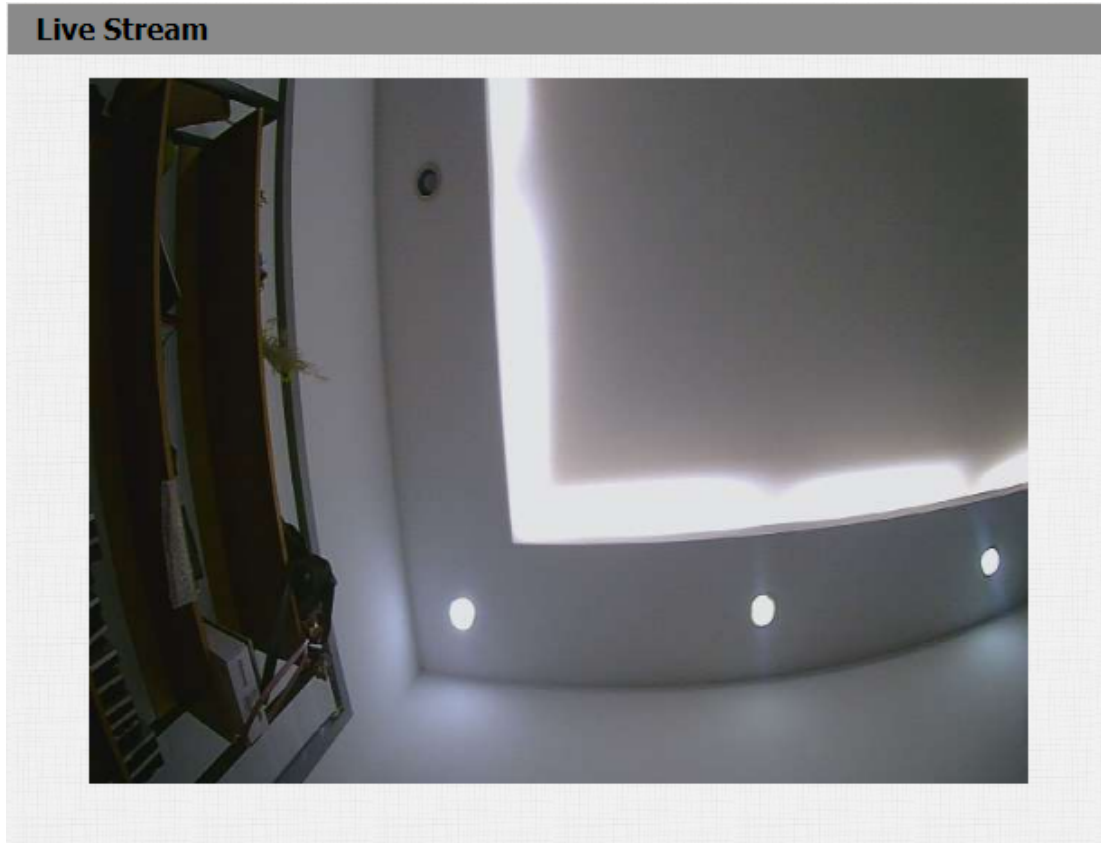
Note:

- Fill in the specific IP address of the door phone in the URL.

17.4.Live Stream

If you want to check the real-time video from the door phone, you can go to the device web **Intercom > Live Stream** interface to obtain the real-time video or you can also enter the correct URL on the web browser to obtain it directly.

To check the real time video using URL, you can Enter the correct URL (**http://IP_address:8080/video.cgi**) on the web browser if you want to obtain the real-time video directly instead of going to the web interface.



18.Logs

18.1.Call Logs

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

Call Log

Save Call Log Enabled ☒

Call History

All ▾

Hang Up

Time

mm/dd/yyyy

-

mm/dd/yyyy

Name/Number

Search

Export

Index	Type	Date	Time	Local Identity	Name	Number
1	Dialed	2022-02-11	08:37:43	192.168.31.6 @192.168.31.6	192.168.0.4	192.168.0.4@192.168.0.4
2	Dialed	2022-01-19	07:34:06	192.168.31.6 @192.168.31.6	192.168.1.119	192.168.1.119@192.168.1.119
3	Dialed	2022-01-19	07:34:06	192.168.31.6 @192.168.31.6	192.168.1.119:5060	192.168.1.119:5060@192.168.1.119:5060

Parameter Set-up:

- **Save Call Log Enabled:** select “**Enable**” or “**Disable**” to turn on or turn off the call log function.
- **Call History:** select call history among four options: “**All**”, “**Dialed**” “**Received**” “**Missed**” for the specific type of call log to be displayed.
- **Time:** select the specific time span of the call logs you want to search, check or export.
- **Name/Number:** select the “**Name**” and “**Number**” options to search call log by the name or by the SIP or IP number.



Note:

- Only R20-T30 version supports Hangup feature.

18.2.Door Logs

If you want to search and check and import/export on the various types of door access history, you can search and check the door logs on the device web **Phone > Door Log** interface.

Door Log

Save Door Log Enabled ☒

Status All

Time mm/dd/yyyy - mm/dd/yyyy

Name/Code Search Export

Index	Name	Code	Type	Date	Time	Status	
1	Security..	1	DTMF	2022-02-11	08:38:50	Success	☐
2	Security..	1	DTMF	2022-02-11	08:38:50	Success	☐
3	Security..	1	DTMF	2022-02-11	08:38:50	Success	☐
4	Security..	1	DTMF	2022-02-11	08:38:49	Success	☐
5	Security..	1	DTMF	2022-02-11	08:38:49	Success	☐
6	Security..	1	DTMF	2022-02-11	08:38:49	Success	☐
7	Security..	1	DTMF	2022-02-11	08:38:49	Success	☐
8	Security..	1	DTMF	2022-02-11	08:38:48	Success	☐
9	Security..	1	DTMF	2022-02-11	08:38:48	Success	☐
10	Security..	1	DTMF	2022-02-11	08:38:48	Success	☐
11	Security..	1	DTMF	2022-02-11	08:38:48	Success	☐
12	Security..	1	DTMF	2022-02-11	08:38:48	Success	☐
13	Security..	1	DTMF	2022-02-11	08:38:47	Success	☐
14	Security..	1	DTMF	2022-02-11	08:38:47	Success	☐
15	Security..	1	DTMF	2022-02-11	08:38:47	Success	☐

Page 1

Prev

Next

Delete

Delete All

Parameter Set-up:

- **Save Door Log Enabled:** select “**Enable**” or “**Disable**” to turn on or turn off the call log function.
- **Status:** select “**All**” to check all door logs; select “**Success**” to check successfully opened door logs; Select “**Failed**” to check door logs for

- **Time:** set the time range for the door logs you want to check.
- **Index:** the order of the call logs.
- **Name:** if it is a locally added key or card, the corresponding added name will be displayed. If it is an unknown key or card, it will display Unknown.
- **Code:** if opening the door via PIN code, the corresponding PIN code will be displayed. If opening the door via RF cards, the corresponding card number will be displayed, and if the door is opened by HTTP command, it will be empty.
- **Type:** if opening the door via PIN code, **Password** will be displayed. If opening the door via RF cards, **Card** will be displayed, and if the door is opened by HTTP command, **HTTP** will be displayed.
- **Date:** the date for opening the door.
- **Time:** the time for opening the door.
- **Status:** the door opening result **Success** or **Failed**.

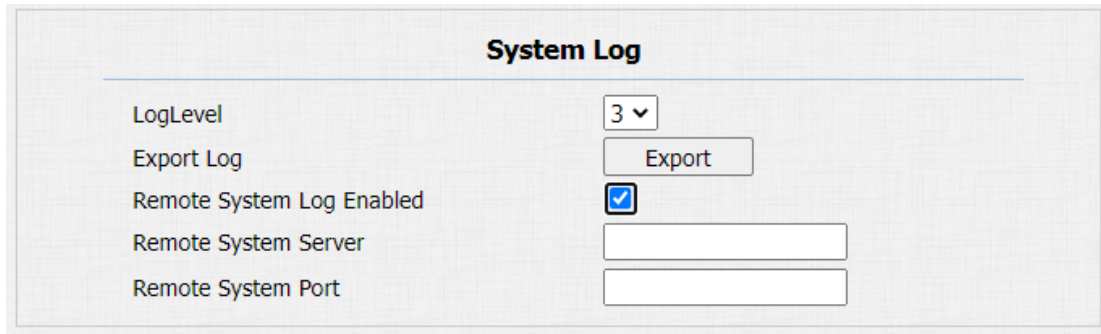
**Note:**

- Only R20-T30 version supports Import/Export feature.

19.Debug

19.1.System Log

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



The screenshot shows the 'System Log' configuration page. It has a title bar 'System Log' and a horizontal line below it. The configuration items are as follows:

Parameter	Value / Control
LogLevel	3 (dropdown menu)
Export Log	Export (button)
Remote System Log Enabled	☒
Remote System Server	(empty text box)
Remote System Port	(empty text box)

Parameter Set-up:

- **LogLevel:** select log levels from 1 to 7 levels. You will be instructed by Akuvox technical staff about the specific log level to be entered for debugging purpose. The default log level is “3”. The higher the level is, the more complete the log is.
- **Export Log:** click the **Export** tab to export temporary debug log file to a local PC.
- **Remote System Log Enabled:** select “**Enable**” or “**Disable**” if you want to enable or disable the remote system log.
- **Remote System Server:** enter the remote server address to receive the device log. And the remote server address will be provided by Akuvox technical support.
- **Remote System Port:** enter the port of the remote server.

19.2.PCAP

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

PCAP

Specific Port

(1~65535)

PCAP

Start

Stop

Export

PCAP Auto Refresh

☐

New PCAP

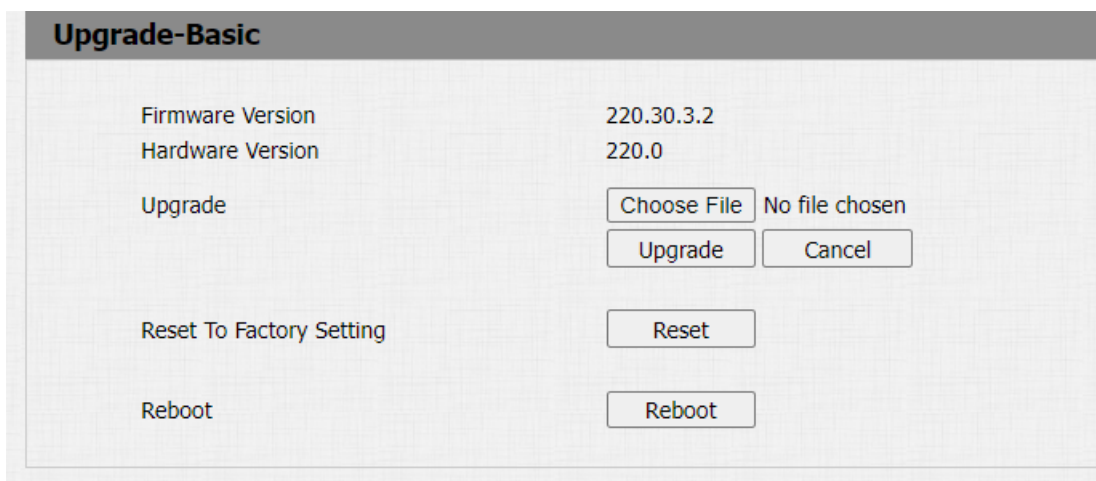
Start

Parameter Set-up:

- **Specific Port:** select the specific ports from 1-65535 so that only the data packet from the specific port can be captured. You can leave the field blank by default.
- **PCAP:** click **Start** tab and **Stop** tab to capture a certain range of data packets before clicking **Export** tab to export the data packets to your Local PC.
- **PCAP Auto Refresh:** select “**Enable**” or “**Disable**” to turn on or turn off the PCAP auto fresh function. If you set it as “**Enable**” then the PCAP will continue to capture data packets even after the data packets reached their 1M maximum in capacity. If you set it as “**Disable**” the PCAP will stop data packet capturing when the data packet captured reached the maximum capturing capacity of 1MB.
- **New PCAP:** click start to capture bigger data package.

20. Firmware Upgrade

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



Upgrade-Basic	
Firmware Version	220.30.3.2
Hardware Version	220.0
Upgrade	Choose File No file chosen Upgrade Cancel
Reset To Factory Setting	Reset
Reboot	Reboot

Parameter Set-up:

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



Note:

- Do not disconnect the device from internet and power supply when the firmware upgrade is in progress, otherwise, it might cause upgrade failure or system breakdown.

21.Backup

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

Others

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

Choose File

No file chosen

Export

(Encrypted)

Import

Cancel

Parameter Set-up:

- **Export Config File:** to export current config file.
- **Export/Import:** to export current config file (Encrypted) or import new config file.

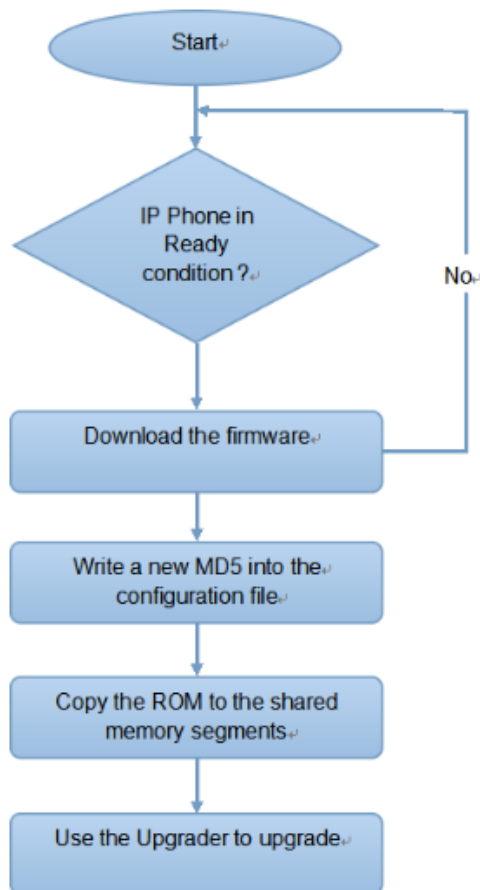
22.Auto-provisioning via Configuration

File

Configurations and upgrading on Akuvox door phone can be done on the web interface via one-time auto-provisioning and scheduled auto-provisioning via configuration files, thus saving you from setting up configuration needed one by one manually on the door phone.

22.1.Provisioning Principle

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



22.2. Configuration Files for Auto-provisioning

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

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

- **General configuration provisioning:** a general file is stored in a server from which all the related devices will be able to download the same configuration file to update parameters on the devices. For example: r000000000020.cfg.
- **MAC-based configuration provisioning:** MAC-based configuration files are used for the auto-provisioning on a specific device as distinguished by its unique MAC number. And the configuration files named with device MAC number will be matched automatically with the device MAC number before

being downloaded for the provisioning on the specific device.

To get the Autop configuration file template on **Upgrade > Advanced > Automatic Autop** interface.

Automatic Autop

Mode: Power On

Schedule: Sunday

Hour(0~23): 22

Min(0~59): 0

Clear MD5 Submit

Export Autop Template Export



Note:

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

22.3.AutoP Schedule

Akuvox provides you with different Autop methods that enable the door phone to perform provisioning for itself at a specific time according to your schedule. Path:**Upgrade > Advanced > Automatic Autop** interface.

Automatic Autop

Mode: Power On

Schedule: Sunday

Hour(0~23): 22

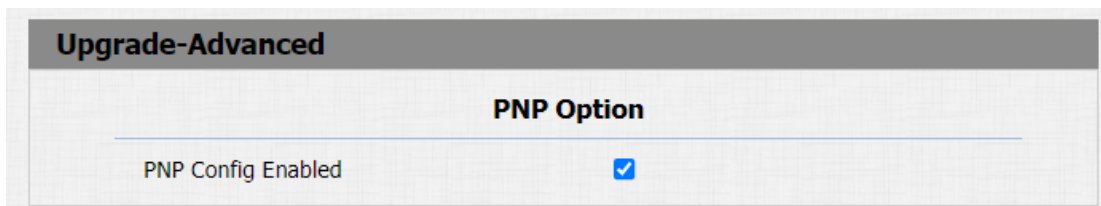
Min(0~59): 0

Parameter Set-up:

- **Mode:** select “**Power on**”, if you want the device to perform Autop every time it boots up. Select “**Repeatedly**”, if you want the device to perform autop according to the schedule you set up. select “**Power On + Repeatedly**” if you want to combine **Power On Mode** and **Repeatedly** mode that will enable the device to perform Autop every time it boots up or according to the schedule you set up. select “**Hourly Repeat**” if you want the device to perform Autop every hour.
- **Schedule:** if “**Repeatedly**” is selected, you can set up the time schedule for the AutoP.

22.4.PNP Configuration

Plug and Play (PNP) is a combination of hardware and software support that enables a computer system to recognize and adapt to hardware configuration changes with little or no intervention by a user. To do this configuration on web **Upgrade > Advanced > PNP Option** interface.



22.5.Static Provisioning Configuration

You can manually set up a specific server URL for downloading the firmware or configuration file. If an autop schedule is set up, the door phone will perform the auto provisioning at a specific time according to Autop schedule you set up. In addition, TFTP, FTP, HTTP, and HTTPS are the protocols that can be used for upgrading the device firmware and configuration.

Manual Autop

URL	
User Name	
Password	*****
Common AES Key	*****
AES Key(MAC)	*****

Autop Immediately

Parameter Set-up:

- **URL:** set up TFTP, HTTP, HTTPS, FTP server address for the provisioning
- **User Name:** set up a user name if the server needs a user name to be accessed otherwise leave it blank.
- **Password:** set up a password if the server needs a password to be accessed otherwise leave it blank.
- **Common AES Key:** set up AES code for the intercom to decipher the general Auto Provisioning configuration file.
- **AES Key (MAC):** set up AES code for the intercom to decipher the MAC-based auto provisioning configuration file.

**Note:**

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

**Note:****Server Address format:**

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

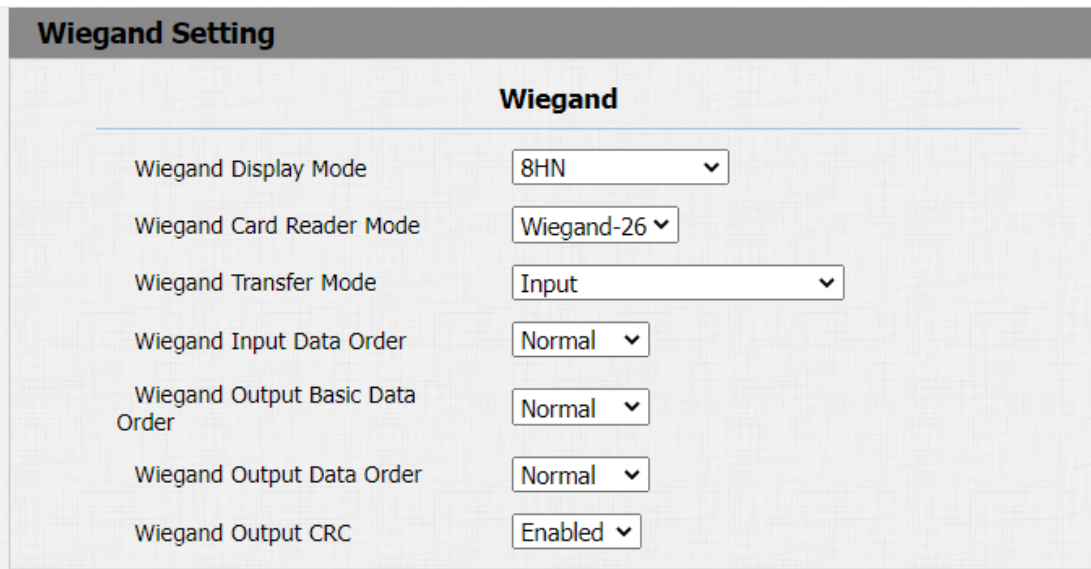
**Note:**

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

23.Integration with Third Party Device

23.1.Integration via Wiegand

If you want to integrate Akuvox door phone with third party devices via Wiegand, you can configure the Wiegand on the web interface. Path: **Intercom > Wiegand**.



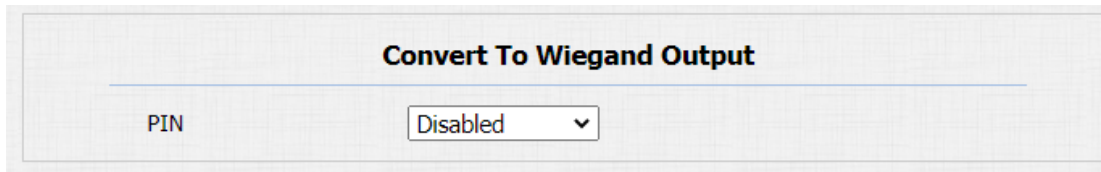
Wiegand	
Wiegand Display Mode	8HN
Wiegand Card Reader Mode	Wiegand-26
Wiegand Transfer Mode	Input
Wiegand Input Data Order	Normal
Wiegand Output Basic Data Order	Normal
Wiegand Output Data Order	Normal
Wiegand Output CRC	Enabled

Parameter Set-up:

- **Wiegand Display Mode:** select Wiegand Card code format among 8H10D; 6H3D5D; 6H8D; 8HN; 8HR; RAW.
- **Wiegand Card Reader Mode:** set the wiegand data transmission format among three options: “Wiegand 26”, “Wiegand 34”, “Wiegand 58”. The transmission format should be identical between the door phone and the device to be integrated.
- **Wiegand Transfer Mode:** select Input, Output, Convert to Card No.OutputWiegand. If the door phone is used as a receiver, then set it as “Input” for the door phone. Select “Output” if you want wiegand output to be converted to card number before sending it from the door phone to a receiver. For facial recognition access, the user card number corresponding to the facial recognition access will be sent out in binary system.
- **Wiegand Input Data Order:** set the Wiegand input data sequence between “Normal” and “Reversed” if you select “Reversed” then the input card number will be reversed and vice versa.

- **Wiegand Output Data Order:** set the Wiegand output data sequence between “Normal” and “Reversed” if you select “Reversed” then the input card number will be reversed and vice versa.
- **Wiegand Output CRC:** tick to enable the parity check function to ensure that signal-based data can be transmitted correctly according to the established data transmission format.

You can configure the wiegand output mode if needed. The output occurs when you press the PIN code on the device.



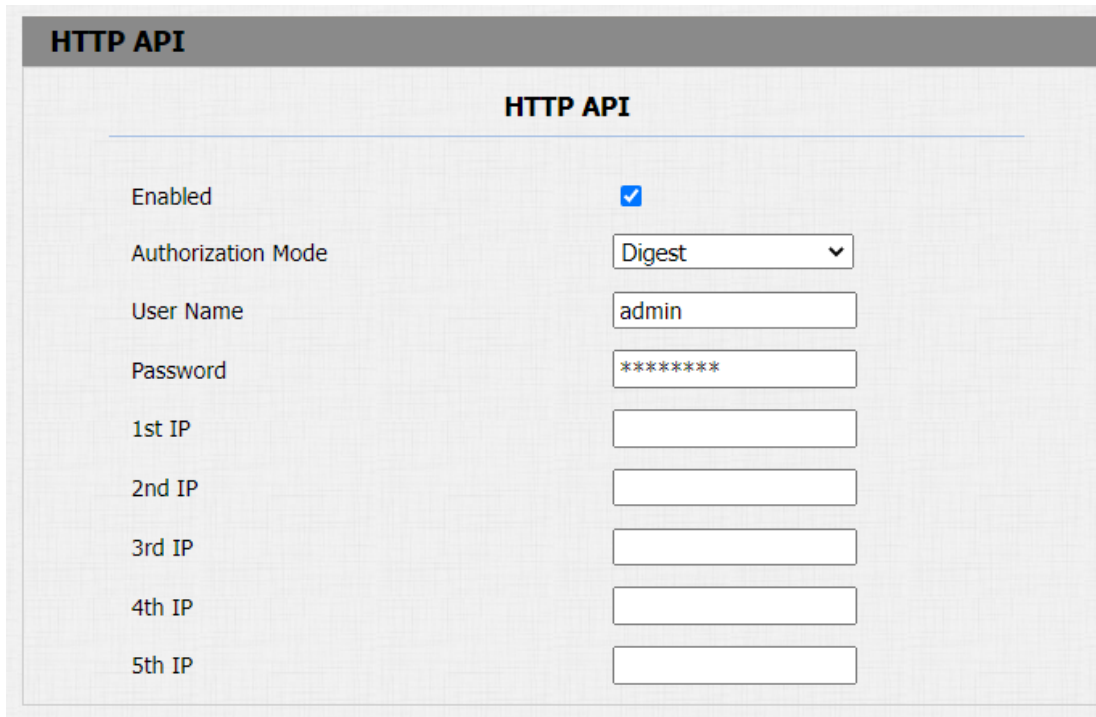
The screenshot shows a configuration window titled "Convert To Wiegand Output". Inside the window, there is a label "PIN" and a dropdown menu. The dropdown menu is currently set to "Disabled" and has a downward arrow icon.

Parameter Set-up:

- **PIN:** select “Disabled” if you want to disable the function. Select “4 bits per digit” if you want to output the PIN code by four continuous bits as a set. Select “8 bits per digit” if you want to output the PIN code by eight continuous bits as a set.

23.2.Integration via HTTP API

HTTP API is designed to achieve an network-based integration between the third party device with the Akuvox intercom device. You can configure the HTTP API function on the web **Intercom > HTTP API** interface for the integration.



HTTP API	
HTTP API	
Enabled	☒
Authorization Mode	Digest
User Name	admin
Password	*****
1st IP	
2nd IP	
3rd IP	
4th IP	
5th IP	

Parameter Set-up:

- **Enabled:** enable or disable the HPTT API function for the third party integration. For example, if the function is disabled any request to initiate the integration will be denied and be returned HTTP 403 forbidden status.
- **Authorization Mode:** select among four options: “None” “WhiteList” “Basic”, “Digest” for authorization type, which will be explained in detail in the following chart.
- **User Name:** enter the user name when “Basic” and “Digest” authorization mode is selected. The default user name is “Admin”.
- **Password:** enter the password when “Basic” and “Digest” authorization mode is selected. The default user name is “Admin”.
- **1st IP-5th IP:** enter the IP address of the third party devices when the “WhiteList” authorization is selected for the integration.

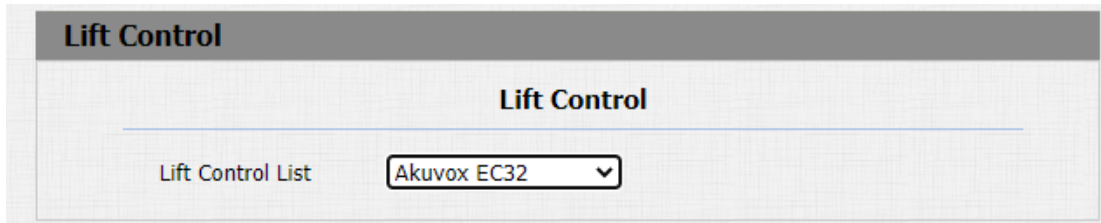
Please refer to the following description for the Authentication mode:

NO.	Authorization Mode	Description
1	None	No authentication is required for HTTP API as it is only used for demo testing.
2	Normal	This mode is used by Akuvox developers only.
3	WhiteList	If this mode is selected, you are only required to fill in the IP address of the third party device for the authentication. The whitelist is suitable for operation in the LAN.
4	Basic	If this mode is selected, you are required to fill in the User name and the password for the authentication. In Authorization field of HTTP request header, use Base64 encode method to encode of username and password.
5	Digest	Password encryption method only supports MD5. MD5(Message-Digest Algorithm) In Authorization field of Http request header: W W W - A u t h e n t i c a t e : D i g e s t r e a l m = " H T T P A P I " , q o p = " a u t h , a u t h - i n t " , n o n c e = " x x " , o p a q u e = " x x " .
6	Token	This mode is used by Akuvox developers only.

23.3.Lift Control Configuration

Integration between the door phone and third party devices such as intercom devices for door access and lift control should be configured in the device web interface before the integration can be made.

Life control should be configured properly on the door phone's web **Intercom > Lift Control > Lift Control List** interface before you can implement the integration between the door phone and the third party devices.



Parameter Set-up:

- **Life Control List** : select the lift controller brand you need.

NO.	Integration Mode	Description
1	None	If you select “None” then the RS485 integration will be disabled.
2	Akuvox EC32	Select” Akuvox EC32” if you want to connect the device with Akuvox EC32 lift controller.
3	KEKING	Select “KEYKING” if you want to integrate with KEYKING lift controller.
4	ZKT	Select “ZKT” if you want to integrate with ZKTeco lift controller
5	Chiyu	Select “Chiyu” if you want to integrate with Chiyu lift controller

**Note:**

- Please consult with Akuvox technical support if you have any inquiries on the integration mode of any OEM lift controller integration project.

23.4.KeyKing Setting

To integrate KeyKing lift controller, you are required to set up the KeyKing address obtained from your solution provider. You can navigate to **Intercom > Lift Control > KeyKing Advance Setting**.

Lift Control

Lift Control

Lift Control List KeyKing

KeyKing Advance Setting

KeyKing Address 1

Parameter Set-up:

KeyKing Address: enter the KeyKing address provided by your solution provider. The address number must be identical with the address number on the lift controller board.

23.5.Akuvox EC32 Lift Controller

You are required to configure Akuvox EC32 before you can connect the door phone to the lift controller. You can navigate to **Intercom > Lift Control > Akuvox EC32 & ZKT Advance Setting**.

Lift Control

Lift Control

Lift Control List

Akuvox EC32 ▼

Akuvox EC32 & ZKT Advance Setting

Server IP

Port

80

(1~65535)

Timeout(Sec)

60

(1~60)

Akuvox EC32 Action

User Name

Password

Floor No. Parameter

\$floor

URL To Trigger Specific Floor

/cdor.cgi?open=0&door=\$floor

URL To Trigger All Floors

/cdor.cgi?open=8

URL To Close All Floors

/cdor.cgi?open=9

Parameter Set-up:

- **Server IP:** enter the IP address of the Akuvox EC32 controller server.
- **Port:** enter the port of Akuvox EC32 controller server.
- **Timeout (Sec):** enter the lift controller timeout. For example, if you set the timeout as “30 seconds” have to press the lift button corresponding to the floor you are going to within 30 seconds, otherwise, the button will be locked again, and you have to go out of the lift and do it all over again.
- **User Name:** enter the user name of the lift controller for the authentication.
- **Password:** enter the password of the lift controller for the authentication.
- **Floor NO. Parameter:** enter the Floor number parameter provided by Akuvox. The default parameter string is “\$floor”. You can define your own parameter string if needed.
- **URL To Trigger Specific Floor:** enter the Akuvox life control URL for triggering a specific floor. The URL is “/cdor.cgi?open=0&door=\$floor”, but the string “\$floor” at the end must be identical with the parameter string you

- **URL To Trigger All Floors:** enter the Akuvox URL for triggering all floors.
- **URL To Close All Floors:** enter the Akuvox URL used for closing all floors.

23.6.ZKT Lift Controller

You are required to configure ZKteco lift controller before you can connect the door phone to the lift controller. You can navigate to **Lift Control > Akuvox EC32 & ZKT Advance Setting**.

Lift Control

Lift Control List: ZKT

Akuvox EC32 & ZKT Advance Setting

Server IP:

Port: (1~65535)

Timeout(Sec): (1~60)

Parameter Set-up:

- **Server IP:** enter the IP address of the Akuvox EC32 controller server.
- **Port:** enter the port of Akuvox EC32 controller server.
- **Timeout (Sec):** enter the lift controller timeout. For example, if you set the timeout as “30 seconds” have to press the lift button corresponding to the floor you are going to within 30 seconds, otherwise, the button will be locked again, and you have to go out of the lift and do it all over again.

23.7.Chiyu Lift Controller

You need to select Chiyu lift controller to integrate with Chiyu lift controller. You can navigate to **Intercom > Lift Control**.

The screenshot shows a web interface titled "Lift Control" in a dark header bar. Below the header, the title "Lift Control" is repeated. A horizontal line separates the title from the content area. In the content area, the text "Lift Control List" is on the left, and a dropdown menu is on the right. The dropdown menu is open, showing the selected item "Chiyu" and a downward arrow.

24.Password Modification

24.1.Modifying Device Web Interface Password

To change the default web password on web **Security > Basic** interface. Select "**admin**" for the administrator account and "**User**" for the User Account. Click the **Change Password** tab to change the password.

The screenshot shows a web interface titled "Security-Basic" in a dark header bar. Below the header, the title "Web Password Modify" is centered. A horizontal line separates the title from the content area. In the content area, there are two sections. The first section, "User Name", has a dropdown menu with "admin" selected and a "Change Password" button. The second section, "Account Status", has a table with two rows: "admin" with a checked checkbox and "user" with an unchecked checkbox.

Change Password
✕

The password must be at least eight characters long containing one uppercase letter, one lowercase letter and one digit at least

User Name	user
Old Password	
New Password	
Confirm Password	

Parameter Set-up:

- **User Name:** modify the Admin or user password if needed.
- **User:** enable the user account if needed.

24.2. Configure Web Interface Automatic Logout

It is a protection design. When there is no operation on the website and when the Session Time Out Value time is reached, the website will automatically log out.
Path: **Security > Basic > Session Time Out**.

Session Time Out

Session Time Out Value	900	(60~14400 Sec)
------------------------	-----	----------------

Parameters Set-up:

- **Session Time Out Value:** the range from 60 to 14400 sec. If there is no operation over time, you need to log in to the website again.

25. System Reboot&Reset

25.1. Reboot

If you want to restart the device system, you can operate it on the device **Upgrade > Basic** web interface as well.

Reboot	Submit
--------	---------------------------------------

25.2. Reset

If you want to reset the device system to the factory setting, navigate to the web **Upgrade > Basic** interface.

Reset To Factory Setting	Reset
--------------------------	--------------------------------------

26. Abbreviations

ACS: Auto Configuration Server

Auto: Automatically

AEC: Configurable Acoustic and Line Echo Cancelers

ACD: Automatic Call Distribution

Autop: Automatical Provisioning

AES: Advanced Encryption Standard

BLF: Busy Lamp Field

COM: Common

CPE: Customer Premise Equipment

CWMP: CPE WAN Management Protocol

DTMF: Dual Tone Multi-Frequency

DHCP: Dynamic Host Configuration Protocol

DNS: Domain Name System

DND: Do Not Disturb

DNS-SRV: Service record in the Domain Name System

FTP: File Transfer Protocol

GND: Ground

HTTP: Hypertext Transfer Protocol

HTTPS: Hypertext Transfer Protocol Secure Socket Layer

IP: Internet Protocol

ID: Identification

IR: Infrared

LCD: Liquid Crystal Display

LED: Light Emitting Diode

MAX: Maximum

POE: Power Over Ethernet

PCMA: Pulse Code Modulation A-Law

PCMU: Pulse Code Modulation μ -Law

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
SMTP: 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

27.FAQ

Q1: How to obtain IP address of R2X

A1: ✓ For devices with a single button - E21/ R20/ R23/ R26:

While E21/ R20/ R23/ R26 power up normally, hold the call button for 5 seconds after the statue LED turns blue and it will enter into IP announcement mode. In announcement mode, the IP address will be announced repeatedly. Press call button again to quit the announcement mode.

✓ For devices with multiple numeric keyboard - R27:

While R27 power up normally, press “*2396#” to enter home screen and press “1” to go to system Information screen to check the IP address.

✓ For devices with touch screen - X915/R29:

While it power up normally, in the dial interface, press “9999”, “Dial key”, “3888” and “OK” to enter the system setting screen. Go to info screen to check the IP address.

✓Common method:

Using Akuvox IP Scanner to search Akuvox devices in the same LAN network.

Q2: Do Akuvox devices support opus codec?

A2: For now, only Akuvox Android video IP phone R48G can support Opus audio codec.

Q3: What is the supported temperature range for akuvox doorphone?

A3: R20/E21/R26/R23/Standard R27/Standard X915 -- 14° to 112°F (-10° to 45°C)

R27/X915 with heating supporting --- 40 degrees

R28 -- (-40°C~55°C)

Indoorphone -- 14° to 112°F (-10° to 45°C)

IPPhone -- 32°~104°F(0~40°C)

Q4: Do Akuvox devices support Modbus protocol?

A4: No.

Q5: Failure in importing the X915 face data to another X915 using the exported face data.

A5: Please confirm the following steps:

The import format is zip;

1.After you export, you need to unzip the .tgz folder, then make the unzipped folder into .zip again.

Q6: Which version of ONVIF do R20 and X915 support?

A6: Onvif 18.04 profiles

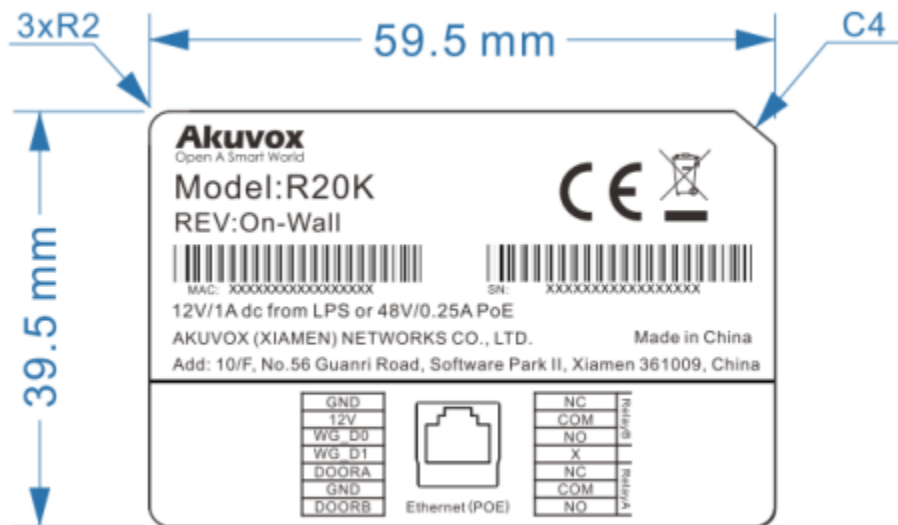
Q7: Do door phones support these card types? Prox, Legacy iClass, iClassSE, HID Mifare, HID DESFire, HID SEOS

A7: Sorry, they are not supported. They need to be implemented via hardware modifications.

Q8: How to confirm whether my device is hardware version 1 or hardware version 2?

A8: 1.Label

- **Hardware version 1**



- **Hardware version 2**



- **Firmware Version**

The firmware is different between hardware version1 and hardware version 2.
Go to Web-Status -Firmware Version.

20.X.X.X is hardware version 1.

220.X.X.X is hardware version 2.

- **Hardware version**

The firmware is different between hardware version1 and hardware version 2.
Go to Web-Status -Firmware Version.

If the hardware version is 220.x, then the device is hardware version 2.

Status	
Product Information	
Model	R20K
MAC Address	0C:11:05:08:00:6D
Firmware Version	20.30.4.8
Hardware Version	20.9.0.0.0.0.0

28.Contact us

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

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