

Akuvox Smart
Intercom



R23C



R23P

R23X Door Phone Admin Guide

About This Manual

Thank you for choosing Akuvox's R23X door phone. This manual is intended for end users, who need to properly configure the door phone. It provides all functions and configuration of R23X, the information detailed in this user manual applicable to firmware version 26.0.2.57 rom or lower version.

- Please verify the packaging content and network status before setting.
- The old firmware may be a little different from 26.0.2.57 rom about some configuration. Please consult your administrator for more information.

Contact us

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We highly appreciate your feedback about our products.

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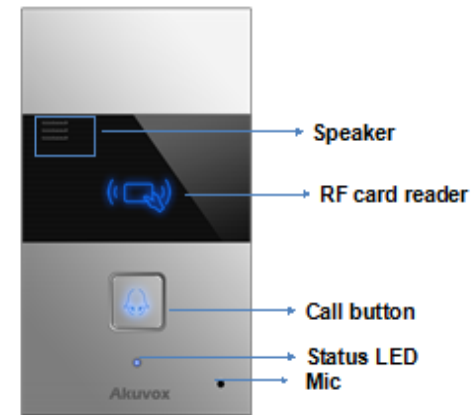
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1. Product Overview

1.1. Instruction

Akuvox R23A is a SIP-compliant, hands-free one button video outdoor phone. It can be connected with your Akuvox IP Phone for remote unlock control and monitor. Users can operate the indoor phone to communicate with visitors via voice and video, and use RF card to unlock the door. It's applicable in villas, office and so on.

R23C



R23P



1.2. At a Glance

Features	
Physical & Power	Body material: all-aluminum
	Camera: 3 Mega pixels, automatic lighting, 120° wide angle
	Button: 1 call button
	12V DC connector&POE
	Water-proof & Dust-proof: IP65
	RF Card Reader:13.56MHz Supported (R23C only)
Sip Endpoint	SIP v1(RFC2543), SIP v2(RFC3261)
	Audio codecs: G.711a, G.711μ, G.722, G.729
	Video codecs: H.264
	Echo Cancellation
	Voice Activation Detection & Comfort Noise Generator
Video	Resolution: up to 720p
	Maximum image transfer rate: 720p - 30fps
	High intensity IR LEDs for picture lighting during dark hours with internal light sensor

	Compatible to 3rdPartyVideo components, e.g. NVRs
Door Entry Features	Relays controlled individually by DTMF tones
	Camera permanently operational
	White balance: auto
	Auto-night mode with LED illumination
	Office door phone with on-site or hosted IP-PBX
	Remote site entry over Internet
	Apartment/flat intercom with door access control

1.3. Daily Use

1.3.1. Making a Call

Press the call button to call out the predefined number or IP address and if LED turns green, it means the call has been answered.

1.3.2.Receiving a Call

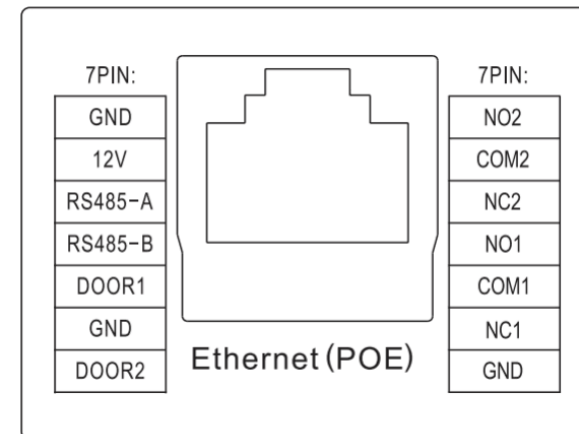
User can use IP phone or indoor monitor to call R23X and R23X will answer it automatically by default. If user disable auto answer, pressing button to answer incoming call.

1.3.3.Unlock by RF Card (R23C Only)

Place the predefined RF card on the card sensor area. The door phone will announce ‘the door is now opened’ and open the door. 13.56MHz RF card is supported by R23C.

1.4. Connector Introduction

Connector	
Ethernet(POE)	Ethernet(POE) connector which can provide both power and network connection.
12V/GND	External power supply terminal if POE is not



	available.
RS485A/B	RS485 terminal for automation system control(e.g. Elevator control).
DOOR1/2	Trigger signal input terminal(e.g. Press indoor button to open relay).
RelayA/B	NO/NC Relay control terminal.

2. Basic Setting

2.1. Getting Started

2.1.1.IP Announcement

While R23X starts up normally, hold the call button for several seconds after the Status LED turns blue, voice system will enter IP announcement mode. In announcement mode, the IP

address will be announced periodically and "IP 0.0.0.0" would be announced if no IP address is gained. Press Call Button again to quit the announcement mode.

2.1.2. Access the device website

Open a web browser, access the corresponding IP address. Then, enter the default user name and password to login.

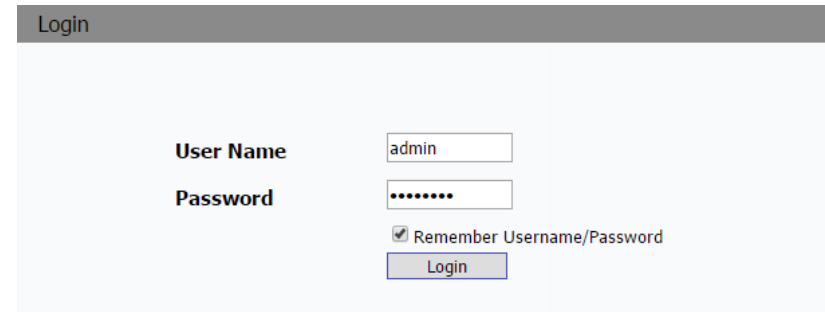
The default administrator User Name and Password are shown below:

User name: **admin**

Password: **admin**

2.2. Network Setting

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



The screenshot shows a web browser window with a title bar that says "Login". The page content includes a "User Name" label next to a text input field containing the text "admin". Below that is a "Password" label next to a password input field filled with dots. Underneath the password field is a checkbox that is checked, with the text "Remember Username/Password" next to it. At the bottom of the form is a button labeled "Login".

2.2.1.DHCP

R23X uses DHCP by default, it will get IP address, Subnet Mask, Default Gateway and DNS server address from DHCP server automatically.

2.2.2.Static IP

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

The screenshot shows a configuration window titled "Network-Basic" with a sub-section "LAN Port". Under "LAN Port", there are two radio button options: "DHCP" (unselected) and "Static IP" (selected). Below the "Static IP" option, there are five input fields for network configuration: "IP Address" (192.168.1.118), "Subnet Mask" (255.255.255.0), "Default Gateway" (192.168.1.1), "LAN DNS1" (192.168.1.1), and "LAN DNS2" (empty). At the bottom of the window, there are "Submit" and "Cancel" buttons.

2.3. Account

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

2.3.1.SIP Account

Status: To display register result.

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

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

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

User Name: To enter user name of the extension.

Password: To enter password for the extension.

2.3.2.SIP Sever 1

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

2.4. Call Setting

Go to Intercom->Basic, to configure basic call setting.

The screenshot shows a configuration interface for SIP settings. It is divided into two main sections: 'SIP Account' and 'SIP Server 1'. The 'SIP Account' section includes fields for Status (Registered), Account (Account 1), Account Active (Enabled), Display Label (172), Display Name (R23), Register Name (172), User Name (172), and Password (masked with dots). The 'SIP Server 1' section includes fields for Server IP (192.168.10.27), Port (5060), and Registration Period (1800 seconds, with a note '(30~65535s)').

SIP Account	
Status	Registered
Account	Account 1
Account Active	Enabled
Display Label	172
Display Name	R23
Register Name	172
User Name	172
Password	*****

SIP Server 1			
Server IP	192.168.10.27	Port	5060
Registration Period	1800		(30~65535s)

2.4.1.No Answer Call

Enable it, if there is no answer from push button number over 60s (default value), R23X will call predefined 'No Answer Call' number.

2.4.2. Push Button

Push Button: To configure the destination number or IP you want to contact with. If you would like to call multiple numbers at same time, divide them by semicolon.

No Answer Call 1&2: To setup one or two no answer call number.

The screenshot shows a configuration interface with two main sections: 'Basic' and 'Push Button'. The 'Basic' section contains two dropdown menus: 'Select Account' set to 'Auto' and 'No Answer Call' set to 'Disabled'. The 'Push Button' section contains a table with two columns: 'Key' and 'Number'. The 'Push Button' key is set to '192.168.35.57', while 'No Answer Call1' and 'No Answer Call2' are empty.

Basic	
Select Account	Auto
No Answer Call	Disabled

Push Button	
Key	Number
Push Button	192.168.35.57
No Answer Call1	
No Answer Call2	

2.4.3.Push Button Action

Action To Execute: To choose suitable way to receive message or snapshot when pushing button.

HTTP URL: If you tick HTTP URL, enter corresponding HTTP server IP address in the HTTP URL area.

2.4.4.Web Call

To dial out or answer incoming call from website.

2.4.5.Call&Dial Time

Max Call Time: To configure the max call time.

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

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

The screenshot shows a configuration interface with five sections, each separated by a horizontal line:

- PushButton Action:** Contains three checkboxes: "FTP" (unchecked), "Email" (unchecked), and "Http URL" (unchecked). Below them is a text input field labeled "Http URL:".
- Web Call:** Contains a text input field labeled "Web Call(Ready)", a dropdown menu set to "Auto", and two buttons: "Dial Out" and "Hang Up".
- Max Call Time:** Contains a text input field with the value "5" and the text "(2~120Minutes)" to its right.
- Max Dial Time:** Contains two text input fields, both with the value "60". The first is labeled "Dial In Time" and the second "Dial Out Time". Both have "(30~120Sec)" to their right.
- Push To Hang Up:** Contains a dropdown menu set to "Enabled".

2.4.6. Push to Hang up

To enable or disable pushing button to hang up.

2.5. Action

Go to Intercom->Action to set action receiver.

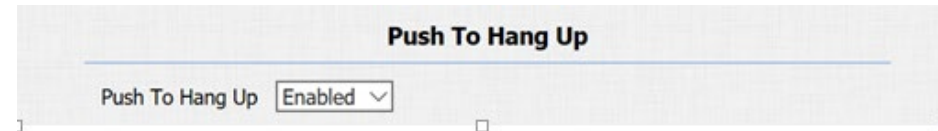
2.5.1. Email Notification

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

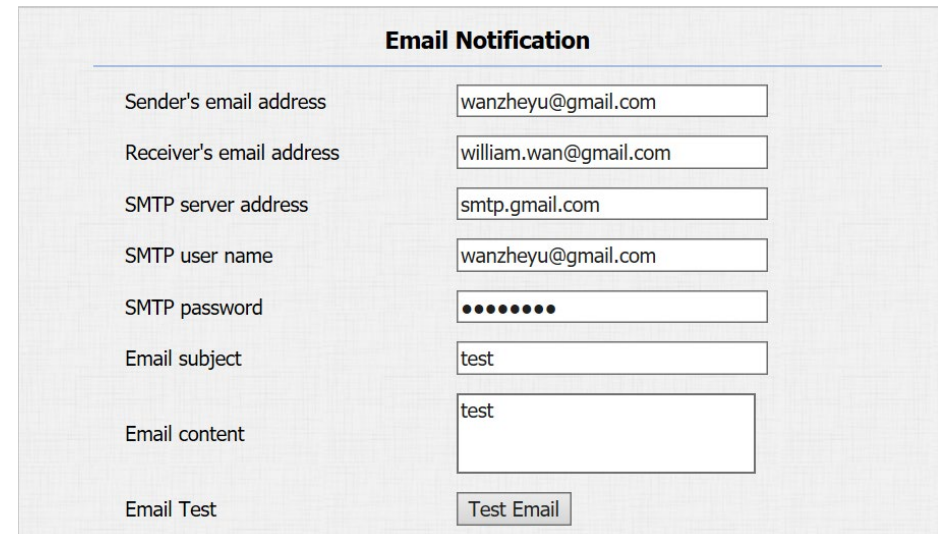
Receiver's Email Address: To configure email address of receiver.

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

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



Push To Hang Up



Email Notification

Sender's email address	<input type="text" value="wanzheyu@gmail.com"/>
Receiver's email address	<input type="text" value="william.wan@gmail.com"/>
SMTP server address	<input type="text" value="smtp.gmail.com"/>
SMTP user name	<input type="text" value="wanzheyu@gmail.com"/>
SMTP password	<input type="password" value="••••••"/>
Email subject	<input type="text" value="test"/>
Email content	<input type="text" value="test"/>
Email Test	<input type="button" value="Test Email"/>

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

Email Subject: To configure subject of email.

Email Content: To configure content of email.

Email Test: To test whether email notification is available.

2.5.2.FTP Notification

FTP Server: To configure URL of FTP server.

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

FTP Password: To configure password of FTP server.

FTP Test: To test whether FTP notification is available.

2.5.3.SIP Notification

SIP Call Number: To configure sip call number.

The screenshot displays a configuration interface with two sections: 'FTP Notification' and 'SIP Call Notification'. The 'FTP Notification' section includes fields for 'FTP Server' (ftp://192.168.35.118), 'FTP User Name' (admin), 'FTP Password' (masked with dots), and a 'Test FTP' button. The 'SIP Call Notification' section includes fields for 'SIP Call Number' (1101) and 'SIP Caller Name' (william).

FTP Notification	
FTP Server	<input type="text" value="ftp://192.168.35.118"/>
FTP User Name	<input type="text" value="admin"/>
FTP Password	<input type="password" value="••••••••"/>
FTP Test	<input type="button" value="Test FTP"/>

SIP Call Notification	
SIP Call Number	<input type="text" value="1101"/>
SIP Caller Name	<input type="text" value="william"/>

SIP Call Name: To configure display name of R23X.

2.6. Card Setting(R23C Only)

Go to Intercom->Card setting, to manage card access system.

2.6.1.Import/Export Card Data

R23X supports import or Export the card data file, which is convenient for administrator to deal with a large number of cards.

2.6.2.Obtain and Add Card

- ① Switch card status to 'Card Issuing' and click 'Apply' ;
- ② Place card on the card reader area and click 'Obtain' ;
- ③ Name card and choose which door you want to open ;

The screenshot displays the 'Card Setting' web interface. It is divided into three main sections:

- Import/Export Card Data(.xml):** This section contains a file selection area with a '浏览...' (Browse) button, and two buttons labeled 'Import' and 'Export'.
- Card Status:** This section features a 'Card Status' label, a dropdown menu currently set to 'Card Issuing', and an 'Apply' button.
- Card Setting:** This section includes three input fields: 'IC Key DoorNum' with a dropdown menu showing '1', 'IC Key Name' with a text input field, and 'IC Key Code' with a text input field. To the right of these fields are two buttons labeled 'Obtain' and 'Add'.

④ Click 'Add' to add it into list.

2.6.3. Door Card Management

Notes: User can use card to access only when card status has been switched to 'Normal'.

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

2.7. Relay Setting

Go to Intercom->Relay, to configure relay.

2.7.1. Relay

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

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

Index	Name	Code	Door	<input type="checkbox"/>
1				<input type="checkbox"/>
2				<input type="checkbox"/>
3				<input type="checkbox"/>
4				<input type="checkbox"/>
5				<input type="checkbox"/>
6				<input type="checkbox"/>
7				<input type="checkbox"/>
8				<input type="checkbox"/>
9				<input type="checkbox"/>
10				<input type="checkbox"/>

Page 1

Relay ID: R23X supports two relays, user can configure them respectively.

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

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

DTMF Option: To select digit of DTMF code, R23X supports maximum 4 digits DTMF code.

DTMF: To configure 1 digit DTMF code for remote unlock

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

Relay		
Relay ID	RelayA ▾	RelayB ▾
Relay Type	Default state ▾	Default state ▾
Relay Delay(sec)	3 ▾	3 ▾
DTMF Option	1 Digit DTMF ▾	
DTMF	# ▾	0 ▾
Multiple DTMF		
Relay Status	RelayA: Low	RelayB: Low

Relay Status: Low means that COM is connecting to NC while High means that COM is connecting to NO .

2.7.2.Web Relay

R23X supports extra web relay.

Type: To choose web relay type(only supports 2N web relay currently).

IP Address: To enter corresponding web relay IP address.

UserNmae: To enter correct UserName of web relay.

Password: To enter correct Password of web relay.

2.7.3.Open Relay via HTTP

User can use a URL to remote unlock the door.

Switch: Enable this function. Disable by default.

The image shows two configuration panels. The top panel is titled "WebRelay" and contains four fields: "Type" with a dropdown menu set to "Disabled", "IP Address" with an empty text box, "UserName" with an empty text box, and "Password" with a masked text box containing seven dots. The bottom panel is titled "Open Relay via HTTP" and contains three fields: "Switch" with a dropdown menu set to "Disabled", "UserName" with an empty text box, and "Password" with a masked text box containing seven dots.

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

URL format:

http://IP_address/fcgi/do?action=OpenDoor&UserName=&Password=&DoorNum=1

2.8. Input

R23X supports two input triggers Input A/B(DOOR A/B), and go to Intercom->Input to configure.

Input Service: To enable or disable input trigger service.

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

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

The screenshot shows a configuration page titled "Input" with two sections: "Input A" and "Input B". Each section contains the following fields:

- Input Service:** A dropdown menu set to "Disabled".
- Trigger Option:** A dropdown menu set to "Low".
- Action to execute:** Radio buttons for FTP, Email, Sip Call, and HTTP, all of which are currently unchecked.
- Http URL:** An empty text input field.
- Open Relay:** A dropdown menu set to "None".
- Door Status:** A text label indicating "DoorA: High" for the top section and "DoorB: High" for the bottom section.

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

Open relay: To configure relay to open

Door status: To show the status of input signal.

3. Advance Setting

3.1. Intercom-Advanced

Photoresistor: The setting is for night vision, when the surrounding of R23X is very dark, infrared LED will turn on and R23X will turn to night mode. Photoresistor value relates to light intensity and larger value mean that light intensity is smaller. User can configure the upper and lower bound and when photoresistor value is larger than upper bound, IF LED

Intercom-Advanced	
Photoresistor	
Photoresistor Setting	<input type="text" value="30"/> - <input type="text" value="37"/> (0~100)
Tamper Alarm	
Tamper Alarm	<input type="text" value="Disabled"/>
Gravity Sensor Threshold	<input type="text" value="32"/> (0~127)

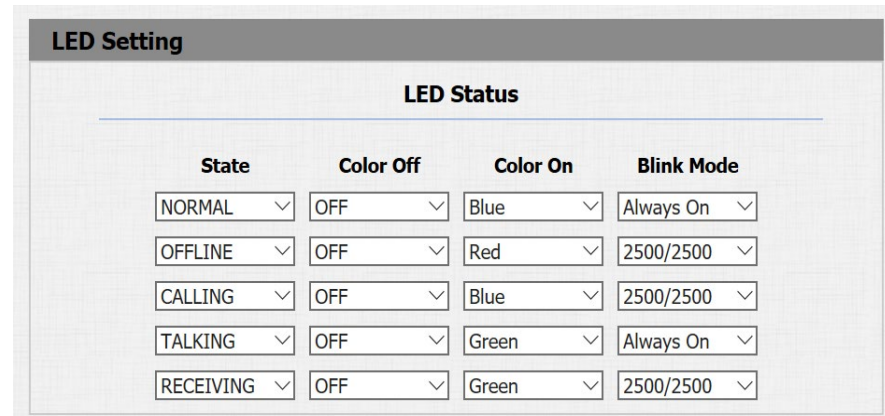
will turn on. As contrast, when photoresistor value is smaller than lower bound, infrared LED will turn off and device turns to normal mode.

Tamper Alarm: R23X integrates internal gravity sensor for the own security, and after enabling Tamper Alarm, if the gravity of R23X changes dramatically, the phone will alarm. Gravity Sensor Threshold stands for sensitivity of sensor.

3.2. LED Setting

There are five LED statuses for R23X: NORMAL, OFFLINE, CALLING, TALKING and RECEIVING.

Go to Intercom->Led setting, to configure corresponding LED response.



The screenshot shows a web interface for LED settings. At the top is a header 'LED Setting'. Below it is a sub-header 'LED Status'. The main content is a table with four columns: 'State', 'Color Off', 'Color On', and 'Blink Mode'. Each cell in the table contains a dropdown menu. The rows correspond to the five LED statuses: NORMAL, OFFLINE, CALLING, TALKING, and RECEIVING.

State	Color Off	Color On	Blink Mode
NORMAL	OFF	Blue	Always On
OFFLINE	OFF	Red	2500/2500
CALLING	OFF	Blue	2500/2500
TALKING	OFF	Green	Always On
RECEIVING	OFF	Green	2500/2500

3.3. Account-Advanced

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

3.3.1. Audio Codec

Sip Account: To choose which account to configure.

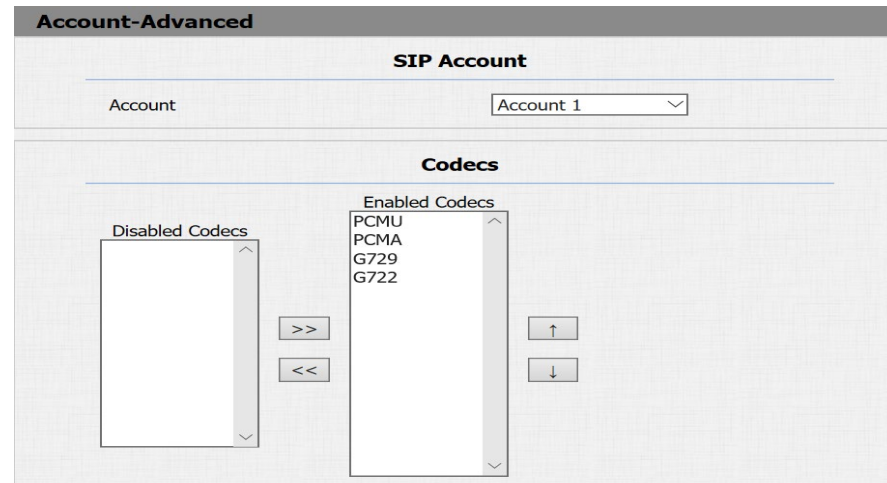
Audio Codec: R23X support four audio codec: PCMA, PCMU, G729, G722. Different audio codec requires different bandwidth, user can enable/disable them according to different network environment.

Bandwidth consumption and sample rates.

PCMA: 64kbit/s 8kHz

PCMU: 64kbit/s 8kHz

G729: 8kbit/s 8kHz Least consumption



3.3.2.DTMF

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

3.3.3.Call

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

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

Caller ID Header: To choose Caller ID Header format

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

Anonymous Call: If enabled, R23X will lock its information when calling out.

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

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

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

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

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

3.3.4. Session Timer

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

3.3.5. Encryption

If enabled, voice will be encrypted.

Session Timer	
Active	Disabled <input type="button" value="v"/>
Session Expire	1800 (90~7200s)
Session Refresher	UAC <input type="button" value="v"/>

Encryption	
Voice Encryption(SRTP)	Disabled <input type="button" value="v"/>

3.4. Time/Lang

Go to Phone->Time/Lang, to select local Time Zone for NTP server.

3.5. Call Feature

Go to Phone->Call Feature, to configure Phone-Call Feature.

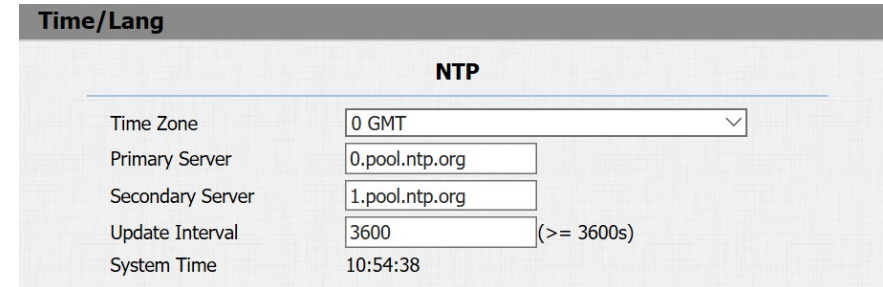
Return Code When Refuse: To configure return sip status code.

Auto Answer Delay: To configure answer delay when receiving a call.

Auto Answer Mode: To choose Video or Audio mode for auto answer.

Multicast Codec: To configure video codec for multicast.

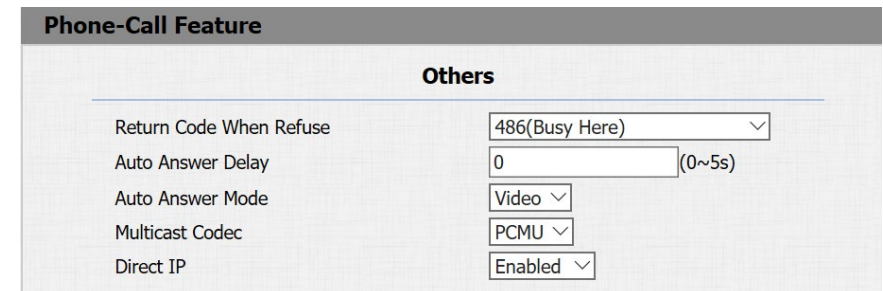
Direct IP: If disabled, incoming direct IP call will be blocked.



Time/Lang

NTP

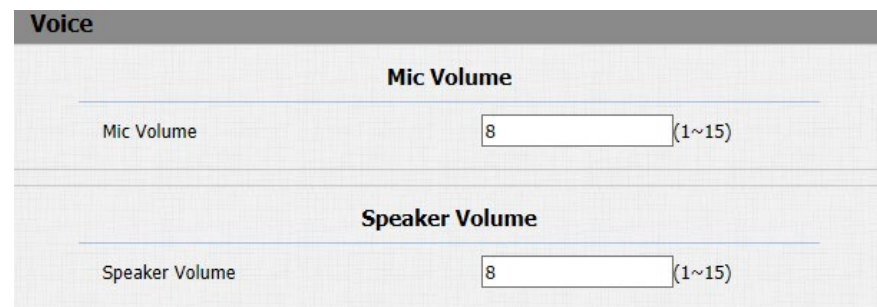
Time Zone	<input type="text" value="0 GMT"/>
Primary Server	<input type="text" value="0.pool.ntp.org"/>
Secondary Server	<input type="text" value="1.pool.ntp.org"/>
Update Interval	<input type="text" value="3600"/> (>= 3600s)
System Time	10:54:38



Phone-Call Feature

Others

Return Code When Refuse	<input type="text" value="486(Busy Here)"/>
Auto Answer Delay	<input type="text" value="0"/> (0~5s)
Auto Answer Mode	<input type="text" value="Video"/>
Multicast Codec	<input type="text" value="PCMU"/>
Direct IP	<input type="text" value="Enabled"/>



Voice

Mic Volume

Mic Volume	<input type="text" value="8"/> (1~15)
------------	---------------------------------------

Speaker Volume

Speaker Volume	<input type="text" value="8"/> (1~15)
----------------	---------------------------------------

3.6. Voice

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

Mic Volume:To configure Microphone volume.

Speaker Volume:To configure Speaker volume.

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

IP Announcement:To setup the IP Announcement active time. Over the configured value, the phone will not announce its IP address, even you hold the button.

RingBack Upload: To upload the ring back tone by yourself.

Opendoor Tone Upload:To upload the Opendoor tone by yourself.

3.7. Log

3.7.1. Call Log

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

3.7.2. Door Log

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

Call Log						
Call History						
Index	Type	Date	Time	Local Identity	Name	Number
1	Received	2017-12-22	06:35:09	192.168.35.3 5@192.168.35.35	Unknown	192.168.35.78@192.168.35.78
2	Received	2017-12-21	10:39:07	192.168.35.3 5@192.168.35.35	Unknown	192.168.35.22@192.168.35.22
3	Received	2017-12-21	10:38:50	192.168.35.3 5@192.168.35.35	Unknown	192.168.35.22@192.168.35.22
4	Dialed	2017-12-21	09:57:26	11151@47.88.77.14	Unknown	11100@47.88.77.14
5	Dialed	2017-12-21	08:48:45	11151@47.88.77.14	Unknown	11100@47.88.77.14
6	Received	2017-12-21	01:59:01	11151@47.88.77.14	Extension 11103	11103@47.88.77.14
7	Dialed	2017-12-21	01:43:21	11151@47.88.77.14	Unknown	11100@47.88.77.14
8	Dialed	2017-12-20	09:25:45	11151@47.88.77.14	Unknown	11100@47.88.77.14
9						
10						
11						
12						
13						
14						
15						

Door Log				
Index	Name	Code	Date	Time
1	William	57FAC741	2017-12-22	10:30:34
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				

3.8. Upgrade

3.8.1. Upgrade-Basic

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

3.8.2. Upgrade-Advanced

System log: System log is used to debug, higher LogLevel means more specific system log will be recorded. When device failure occur, user can export System Log send to Akuvox techsupport and we would try our best to address the issue for you.

PCAP: To capture packet which is useful for us to address issue.

Other: To export and import config file.

The screenshot shows the 'Upgrade-Basic' configuration page. It displays the current Firmware Version as 26.0.2.57 and Hardware Version as 23.0.0.0.0.0.0.0. There are three main sections: 'Upgrade' with a file selection button (浏览...) and Submit/Cancel buttons; 'Reset To Factory Setting' with a Submit button; and 'Reboot' with a Submit button.

The screenshot shows the 'Upgrade-Advanced' configuration page, divided into three sections: 'System Log', 'PCAP', and 'Others'. The 'System Log' section has a LogLevel dropdown set to 3 and an Export Log button. The 'PCAP' section has Start, Stop, and Export buttons, and a PCAP Auto Refresh dropdown set to Disabled. The 'Others' section has a file selection button (浏览...), Export (Encrypted), Import, and Cancel buttons.

3.9. Security-Basic

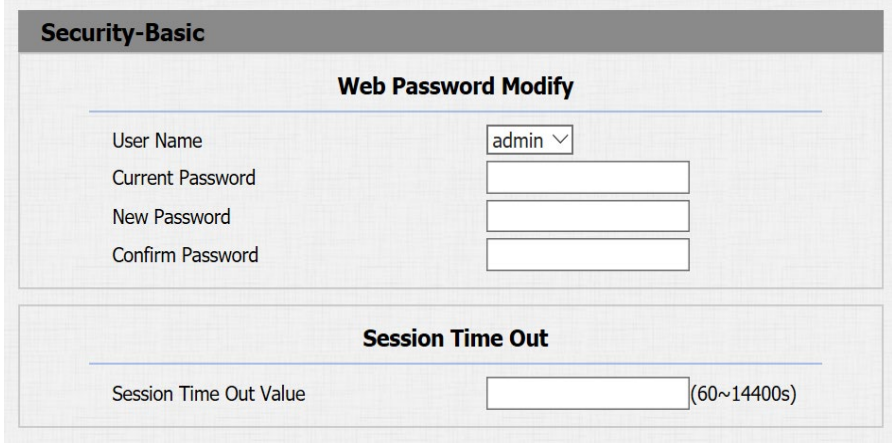
Go to Security->Basic, to modify password and session time.

3.9.1. Web Password Modify

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

3.9.2. Session Time Out

To configure session time out value. Over the value, user need to login again to continue configuring.



The screenshot displays the 'Security-Basic' configuration interface. It is divided into two main sections: 'Web Password Modify' and 'Session Time Out'. The 'Web Password Modify' section includes a dropdown menu for 'User Name' (set to 'admin'), and three text input fields for 'Current Password', 'New Password', and 'Confirm Password'. The 'Session Time Out' section features a text input field for 'Session Time Out Value' with a range constraint '(60~14400s)' indicated to its right.