



R26B Door Phone Admin Guide

About this manual

Thank you for choosing Akuvox's R26B door phone. This manual is intended for end users who need to properly configure the door phone. This manual is applicable to 26.31.4.xx version, and it provides all functions' configurations of R26B. Please visit Akuvox forum or consult technical support for any new information or latest firmware.

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

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

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

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

—Reorient or relocate the receiving antenna.

—Increase the separation between the equipment and receiver.

—Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

—Consult the dealer or an experienced radio/TV technician for help.

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1. Product Overview

1.1. Product Description

Akuvox R26B is a SIP-compliant, hands-free, five buttons door phone. It can be connected with Akuvox indoor monitors for remote unlock control and monitor. Users can operate the indoor phone to communicate with visitors via voice and video. Users can also use RFID cards to unlock the door. It's applicable in villas, office and so on.

1.2. Connector Introduction

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

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

RS485 A/B: RS485 terminal.



Figure 1.1 Product Description

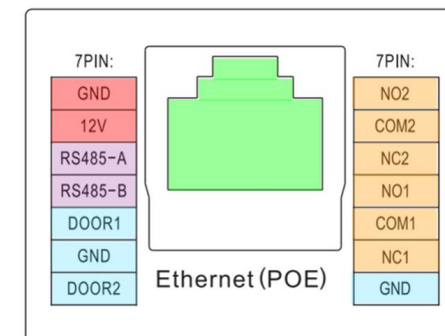


Figure 1.2-1 R26B's interface

DOOR A/B: Trigger signal input terminal.

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

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

1.3. LED Status Information

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

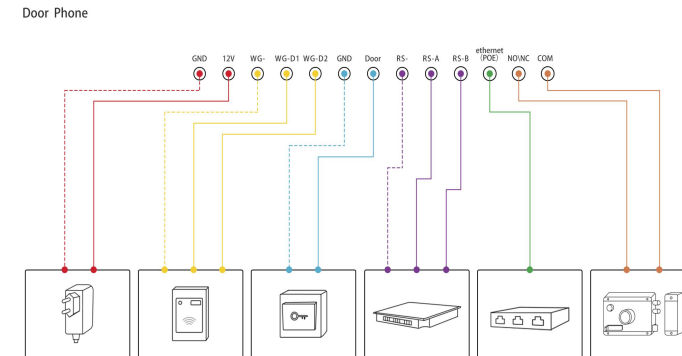


Figure 1.2-2 General interface

2. Daily Use

2.1. Making a Call

Press one of the call buttons to call out the predefined SIP account or IP address and if LED turns green, it means the call has been answered.

2.2. Receiving a Call

User can use IP phone or indoor monitor to call R26B and R26B will answer it automatically by default. If user disable auto answer, pressing button to answer incoming call.

2.3. Unlock

2.3.1. Unlock by RFID Cards

Place the predefined user cards in RFID card reader to unlock. Under normal conditions, R26B will announce “The door is now opened.” 13.56 MHz RF card is supported on R26B.

2.3.2. Unlock by DTMF Codes

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

3. Basic Setting

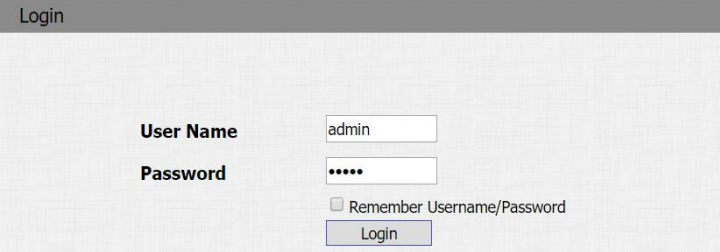
3.1. Getting Started

3.1.1. IP Announcement

While R26B starts up normally, hold the top of 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.

3.1.2. Access the device website

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



Login

User Name admin

Password

☐ Remember Username/Password

Login

Figure 3.1.2 Access the device website

User Name: **admin**

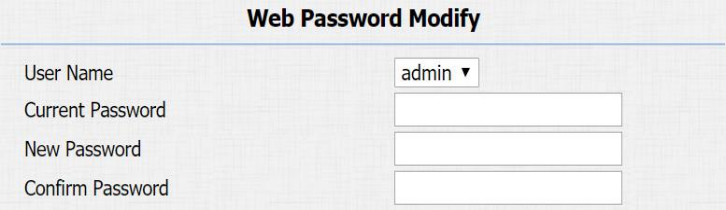
Password: **admin**

Note: The recommended browser is Google Chrome.

3.2. Password Modification

3.2.1. Modify the Web Password

Go to **Security - Basic** to modify password for webpage. To modify password for “admin” or “user” account.



The image shows a web form titled "Web Password Modify". It contains four fields: "User Name" with a dropdown menu showing "admin", "Current Password" with a text input field, "New Password" with a text input field, and "Confirm Password" with a text input field.

Figure 3.2.1 Modify the web password

3.3. Phone Configuration

3.3.1. Language

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



The image shows a web form titled "Web Language". It contains one field: "Type" with a dropdown menu showing "English".

Figure 3.3.1 Language

3.3.2. Time

Go to **Phone - Time/Langto** configure it.

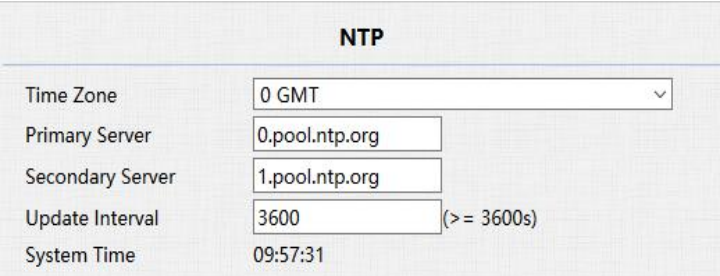
Time Zone: To select local time zone for NTP server.

Primary Server: To configure primary NTP server address.

Secondary Server: To configure secondary NTP server address, it takes effect if primary NTP server is unreachable.

Update Interval: To configure interval between two consecutive NTP requests.

System Time: The current time of the phone.



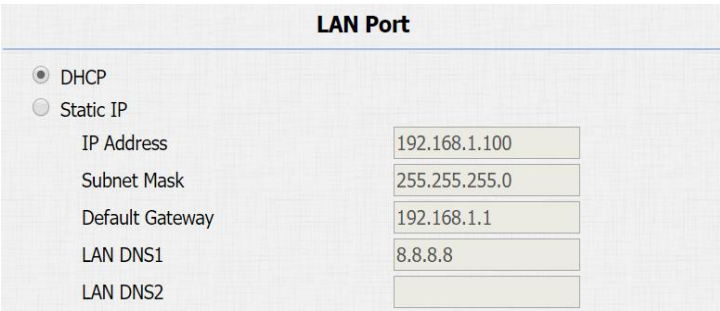
NTP	
Time Zone	0 GMT
Primary Server	0.pool.ntp.org
Secondary Server	1.pool.ntp.org
Update Interval	3600 (> = 3600s)
System Time	09:57:31

Figure 3.3.2 Time

3.3.3. Network

DHCP Mode

In website, go to **Network - Basic**.



LAN Port	
<input checked="" type="radio"/> DHCP	
<input type="radio"/> Static IP	
IP Address	192.168.1.100
Subnet Mask	255.255.255.0
Default Gateway	192.168.1.1
LAN DNS1	8.8.8.8
LAN DNS2	

Figure 3.3.3.1 Static IP mode

R26B uses DHCP mode by default which will get IP address, subnet mask, default gateway and DNS server address from DHCP server automatically.

Static IP Mode

In Website, go to **Network - Basic**.

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

Local RTP

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

Local RTP: To display and configure local RTP settings.

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

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

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

Figure 3.3.3-2 Local RTP

SNMP

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

SNMP: To display and configure SNMP settings.

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.

Note: SNMP is Internet-standard protocol for managing devices on IP networks.

3.3.3.1. VLAN

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

VLAN: To display and configure VLAN settings.

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.

SNMP	
Active	Disabled ▼
Port	<input type="text"/> (1024~65535)
Trusted IP	<input type="text"/>

Figure 3.3.3-3 SNMP

VLAN	
LAN Port	Active ▼
	VID <input type="text"/> (1~4094)
	Priority <input type="text"/>

Figure 3.3.3.1 VLAN

Note: Please consult administrator for specific VLAN settings in the networking environment.

3.3.3.2. TR069

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

TR069: To display and configure TR069 settings.

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.

TR069		
ACS	Active	Disabled ▼
	Version	1.0 ▼
	URL	<input type="text"/>
	User Name	<input type="text"/>
	Password	••••••
Periodic Inform	Active	Disabled ▼
	Periodic Interval	1800 (3~24×3600s)
CPE	URL	<input type="text"/>
	User Name	<input type="text"/>
	Password	••••••

Figure 3.3.3.2 TR069

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.

3.3.4. Sound

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

Mic Volume: To configure microphone volume.

Speaker Volume:To configure speaker volume.

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

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

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

The screenshot displays a web-based configuration interface for sound settings. It is organized into five distinct sections, each with a title bar and a light blue background. The 'Mic Volume' section contains a label 'Mic Volume' and a numeric input field set to '8', with a range '(1~15)' indicated. The 'Speaker Volume' section similarly has a 'Speaker Volume' label and an input field set to '8' with a range '(1~15)'. The 'Open Door Warning' section features a label 'Open Door Warning' and a dropdown menu currently showing 'Enabled'. The 'RingBack Upload' section includes a 'Choose File' button, a status 'No file chosen', and three action buttons: 'Upload', 'Delete', and 'Export'. Below these buttons, it specifies 'File Format: wav, size: < 200KB, samplerate: 16000, Bits: 16'. The 'Opendoor Tone Upload' section follows the same layout as the RingBack Upload section, with a 'Choose File' button, 'No file chosen' status, 'Upload', 'Delete', and 'Export' buttons, and the same file format specifications.

Figure 3.3.4 Sound

3.3.5. DND

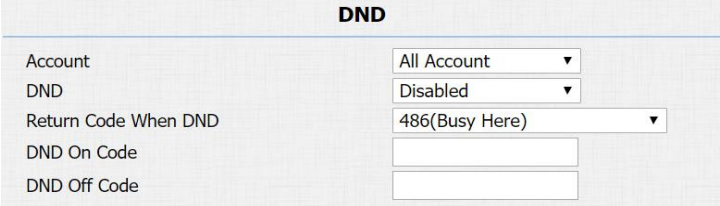
Go to **Phone - Call Feature** to configure DND feature.

DND: DND allows phones to ignore any incoming calls.

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

DND On Code: The code is used to turn on DND on server's side, if configured, door phones will send a SIP message to server to turn on DND on server side if users press DND when DND is off.

DND Off Code: The code is used to turn off DND on server's side, if configured, door phones will send a SIP message to server to turn off DND on server side if users press DND when DND is on.



The screenshot shows a configuration window titled "DND". It contains five rows of settings:

DND	
Account	All Account ▼
DND	Disabled ▼
Return Code When DND	486(Busy Here) ▼
DND On Code	<input type="text"/>
DND Off Code	<input type="text"/>

Figure 3.3.5 DND

3.4. Intercom Call

3.4.1. Direct IP Call

Without sip server, users can also use IP address to call each other, but this way is only suitable in the LAN.

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

Go to **Intercom - Basic** to configure the IP address of the destination(E.g.IP address 192.168.10.91).One button for each button.After, press the push button to make direct IP call.

Note: The push button number can also enter the SIP account.



Direct IP Enabled ▾

Figure 3.4.1-1 Direct IP call

Push Button				
Key	Number1	Number2	Number3	Number4
Push Button 1	192.168.10.91	100		
Push Button 2	192.168.10.5			
Push Button 3	100			
Push Button 4	101			
Push Button 5	102			

Figure 3.4.1-2 Push button

3.4.2. SIP Call

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

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

3.4.2.1. SIP Account

Status: To display register result.

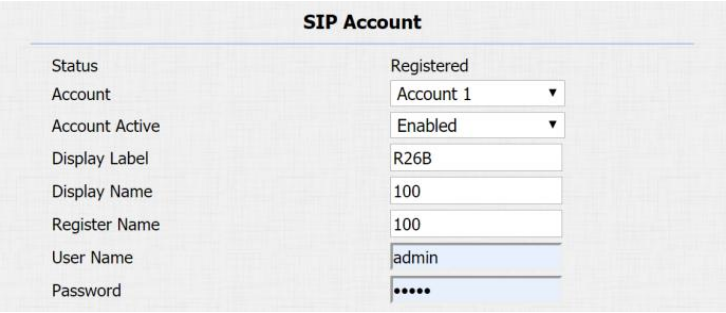
Display Label: To configure label displayed.

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

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

User Name: To enter user name of the extension.

Password: To enter password for the extension.



The screenshot shows a web form titled "SIP Account". It contains several fields for configuration:

SIP Account	
Status	Registered
Account	Account 1
Account Active	Enabled
Display Label	R26B
Display Name	100
Register Name	100
User Name	admin
Password	*****

Figure 3.4.2.1 SIP Account

3.4.2.2. SIP Server 1&2

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

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

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

3.4.2.3. Outbound Proxy Server

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

3.4.2.4. Transport Type

To display and configure transport type for SIP message.

- **UDP:** UDP is an unreliable but very efficient transport layer protocol.
- **TCP:** Reliable but less-efficient transport layer protocol.

SIP Server 1		
Server IP	<input type="text" value="120.78.230.239"/>	Port <input type="text" value="5070"/>
Registration Period	<input type="text" value="1800"/>	(30~65535s)

SIP Server 2		
Server IP	<input type="text"/>	Port <input type="text" value="5060"/>
Registration Period	<input type="text" value="1800"/>	(30~65535s)

Figure 3.4.2.2 SIP server 1&2

Outbound Proxy Server		
Enable Outbound	<input type="text" value="Disabled"/>	
Server IP	<input type="text"/>	Port <input type="text" value="5060"/>
Backup Server IP	<input type="text"/>	Port <input type="text" value="5060"/>

Figure 3.4.2.3 Outbound proxy server

Transport Type	
Transport Type	<input type="text" value="UDP"/>

Figure 3.4.2.4 Transport type

- **TLS:** Secured and reliable transport layer protocol.
- **DNS-SRV:** DNS record for specifying the location of services.

3.4.2.5. NAT

To display and configure NAT settings.

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

Note:By default, NAT is disabled.

After configuring SIP call related parameters, users can refer to the direct IP call part to dial out a SIP call.

3.4.3. Auto Answer

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



NAT	
NAT	Disabled ▼
Stun Server Address	<input type="text"/>
Port	3478

Figure 3.4.2.5 NAT



Auto Answer	Enabled ▼
-------------	-----------

Figure 3.4.3 Auto answer

3.4.4. Web Call

Go to **Intercom-Basic** to dial out or answer incoming call from website.

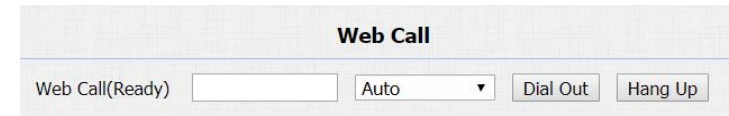


Figure 3.4.4 Web call

3.4.5. Push To Hang Up

Go to **Intercom - Basic** to configure. To enable or disable pushing button to hang up.

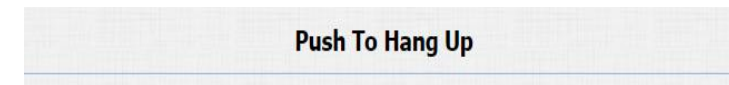


Figure 3.4.5 Push to hang up

3.5. Security

3.5.1. Live view

Go to **Intercom - Live Stream** to check the real-time video from R26B.

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



Figure 3.5.1 Live view

3.5.2. RTSP

R26B supports RTSP stream, go to **Intercom - RTSP** to enable or disable RTSP server. The URL for RTSP stream is:

rtsp://IP_address/live/ch00_0.

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

R26B supports H.264 video codec by default.

H.264 Video Parameters: H.264 is a video stream compression standard. Different from H.263, it provides an approximately identical level of video stream quality but a half bit rate. This type of compression is sometimes called MPEG-4 part 10. To modify the resolution, framerate and bitrate of H.264.

MPEG4 Video Parameters: MPEG4 is one of the network video image compression standard. It supports the maximum compression ratio 4000:1. It is an important and common video function with great communication application integration ability and

RTSP Basic	
RTSP Server Enabled	<input checked="" type="checkbox"/>
RTSP Stream	
RTSP Video Enabled	<input checked="" type="checkbox"/>
RTSP Video Codec	H.264 ▼
H.264 Video Parameters	
Video Resolution	VGA ▼
Video Framerate	30 fps ▼
Video Bitrate	2048 kbps ▼
MPEG4 Video Parameters	
Video Resolution	VGA ▼
Video Framerate	30 fps ▼
Video Bitrate	2048 kbps ▼

Figure 3.5.2 RTSP

less core program space. To modify the resolution, framerate and bitrate of MPEG4.

3.5.3. ONVIF

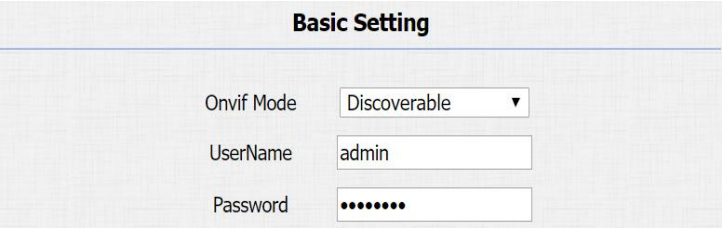
R26B supports ONVIF protocol, which means R26B's camera can be searched by other devices, like NVR which supports ONVIF protocol as well.

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

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

The ONVIF's URL is:

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



The screenshot shows a web interface titled "Basic Setting" for ONVIF configuration. It contains three fields: "Onvif Mode" with a dropdown menu set to "Discoverable", "UserName" with a text box containing "admin", and "Password" with a text box containing seven dots.

Basic Setting	
Onvif Mode	Discoverable ▼
UserName	admin
Password	•••••••

Figure 3.5.3 ONVIF

3.6. Access Control

3.6.1. Relay

Go to **Intercom - Relay** to configure relay.

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

Relay ID: R26B supports two relays, users can configure them respectively.

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

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

DTMF Option: To select digit of DTMF code, R26B supports maximum 4 digits DTMF code.

DTMF: To configure 1 digit 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 ▼	0 ▼
Multiple DTMF		
Relay Status	RelayA: Low	RelayB: Low

Figure 3.6.1 Relay

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

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

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

3.6.2. Card Setting

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

Import/Export Card Data

R26B supports import or export the card data file, which is convenient for administrator to deal with a large number of cards. The maximum card data file is 200K which is around 500 cards.

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

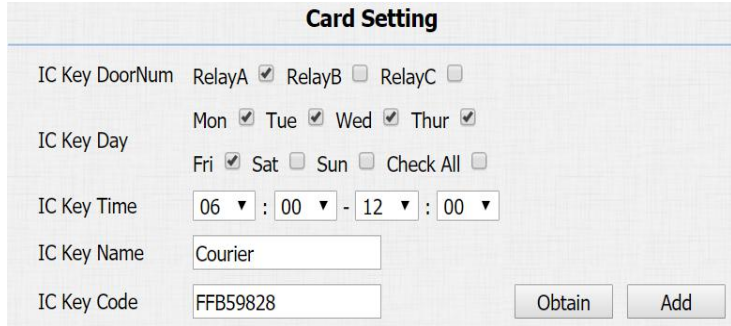
Obtain and Add Card



Import/Export Card Data(.xml)

Choose File No file chosen Import Export

Figure 3.6.2-1 Card setting



Card Setting

IC Key DoorNum RelayA ☒ RelayB ☐ RelayC ☐

IC Key Day Mon ☒ Tue ☒ Wed ☒ Thur ☒
Fri ☒ Sat ☐ Sun ☐ Check All ☐

IC Key Time 06 : 00 - 12 : 00

IC Key Name Courier

IC Key Code FFB59828 Obtain Add

Figure 3.6.2-2 Card setting

Switch card status to “Card Issuing” and click “Apply”;
Place card on the card reader area and click “Obtain”;
Name card, choose which door you want to open and the valid day and time;
Click “Add” to add it into list.

Note: Users can use card to access only when card status has been switched to “Normal”.

Door Card Management

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

Door Card Management				
Index	Name	Code	Door	
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 ▾ Prev Next Delete Delete All				

Figure 3.6.2-3 Card setting

3.6.3. Open Relay via HTTP

Users can use a URL to remote unlock the door.

Go to **Intercom - Relay** to configure.

Switch: Enable this function. Disable by default.

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

Open Relay via HTTP	
Switch	Disabled ▾
UserName	<input type="text"/>
Password	<input type="password"/>

Figure 3.6.3 Open relay via HTTP

URL format:

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

3.6.4. Unlock via Exit Button

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

R26B supports two input triggers Input A/B (DOOR A/B).

Input Service: To enable or disable input trigger service.

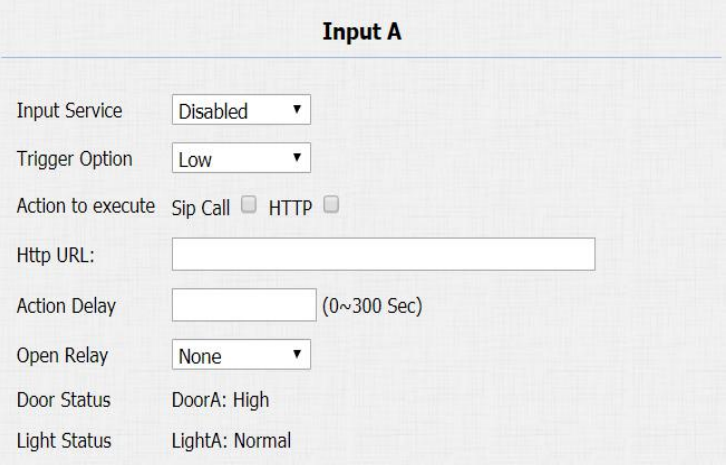
Trigger Option: To choose open circuit trigger or closed circuit trigger. Low means that connection between door terminal and GND is closed, while high means the connection is opened.

Action to execute: To choose which action to execute after the input terminal is triggered.

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.



Input A	
Input Service	Disabled ▼
Trigger Option	Low ▼
Action to execute	Sip Call <input type="checkbox"/> HTTP <input type="checkbox"/>
Http URL:	<input type="text"/>
Action Delay	<input type="text"/> (0~300 Sec)
Open Relay	None ▼
Door Status	DoorA: High
Light Status	LightA: Normal

Figure 3.6.4 Unlock via exit button

3.7. Reboot

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



Figure 3.7 Reboot

3.8. Reset

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



Figure 3.8.Reset

4. Advance Feature

4.1. Phone Configuration

4.1.1. LED

Go to **Intercom - LED** Setting to configure the LED status. To setup the LED lighting mode.

State: There is five states: Normal, Offline, Calling, Talking and Receiving.

Color Off: The default status is OFF.

Color On: It can support three color: Red, Green, Blue.

Blink Mode: To setup the different blink frequency.

LED Control:

Use HTTP URL to remote control the LED status.

Http format:

LED Status			
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 ▼

Figure 4.1.1-1 LED

LED Control	
LED Control	Disabled ▼

Figure 4.1.1-2 LED

<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

4.1.2. IR LED

Go to **Intercom - Advanced** to configure.

Photoresistor: The setting is for night vision, when the surrounding of R26B is very dark, infrared LED will turn on and R26B will turn to night mode. Photoresistor value relates to light intensity and larger value means that light intensity is smaller. Users can configure the Min and Max bound and when photoresistor value is larger than Max bound, infrared LED will turn on. As contrast, when photoresistor value is smaller than Min bound, infrared LED will turn off and device turns to normal mode.

LED	
LED Type	Auto ▼
Min Photoresistor	5
Max Photoresistor	37

Figure 4.1.2 IR LED

4.1.3. RF Card Code Display Related

Go to **Intercom - Advanced** to configure.

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



The screenshot shows a configuration window titled "RFID". Inside, there is a label "RFID Display Mode" followed by a dropdown menu. The dropdown menu is open, showing "8HN" as the selected option.

Figure 4.1.3 RF card code display related

4.2. Intercom

4.2.1. Call Time Related

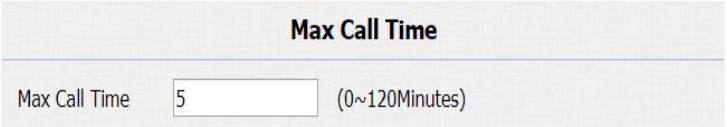
Go to **Intercom - Basic** to configure.

Max Call Time: To configure the max call time.

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

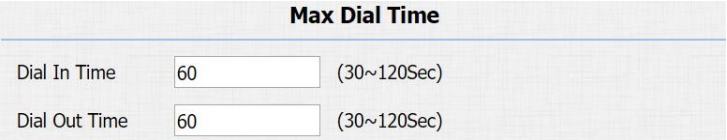
Dial Out Time: To configure the max no answer call time.

Hang Up After Open Door: To set the time that hang up the call after open the door.



The screenshot shows a configuration window titled "Max Call Time". It contains a label "Max Call Time" followed by a text input field containing the number "5". To the right of the input field is the text "(0~120Minutes)".

Figure 4.2.1-1 Call time related



The screenshot shows a configuration window titled "Max Dial Time". It contains two rows. The first row has a label "Dial In Time", a text input field containing "60", and the text "(30~120Sec)". The second row has a label "Dial Out Time", a text input field containing "60", and the text "(30~120Sec)".

Figure 4.2.1-2 Call time related



The screenshot shows a configuration window titled "Hang Up After Open Door". It contains a label "Time Out" followed by a text input field containing the number "5". To the right of the input field is the text "(0~15)".

Figure 4.2.1-3 Hang up after open door

4.2.2. Return Code When Refuse

Go to **Phone - Call Feature - Others** to configure.

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

A screenshot of a web interface showing a configuration field labeled 'Return Code When Refuse'. The field is a dropdown menu with the text '486(Busy Here)' selected and a small downward arrow on the right side.

Figure 4.2.2 Return code when refuse

4.2.3. SIP Call Related

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

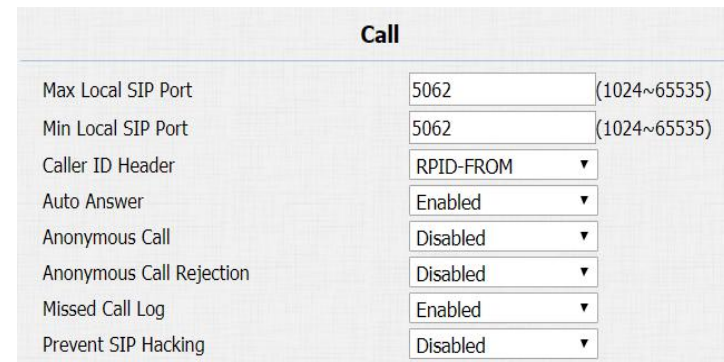
Max Local SIP Port: To configure maximum local SIP port for designated SIP account.

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

Caller ID Header: To choose caller ID header format.

Anonymous Call: If enabled, R26B will block its information when calling out.

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

A screenshot of a web interface showing a configuration section titled 'Call'. It contains several settings, each with a label, a value field, and a range or status indicator in parentheses. The settings are: Max Local SIP Port (5062, 1024~65535), Min Local SIP Port (5062, 1024~65535), Caller ID Header (RPID-FROM), Auto Answer (Enabled), Anonymous Call (Disabled), Anonymous Call Rejection (Disabled), Missed Call Log (Enabled), and Prevent SIP Hacking (Disabled).

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

Figure 4.2.3 SIP call related

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

Prevent Hacking: If enabled, it will prevent SIP messages from hacking.

4.2.4. Codec

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

SIP Account: To choose which account to configure.

Audio Codec: R26B support four audio codec: PCMA, PCMU, G729, G722. Different audio codec requires different bandwidth, users can enable/disable them according to different network environment.

Note: Bandwidth consumption and sample rates are as below:

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

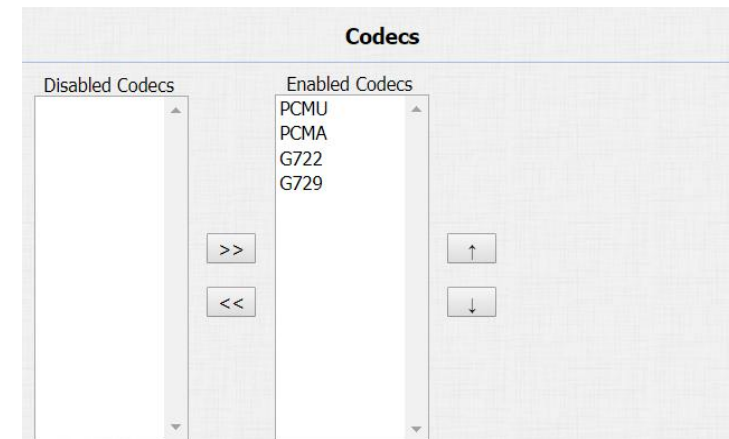


Figure 4.2.4-1 Codec

G729	8kbit/s	8kHz
G722	64kbit/s	16kHz

Video Codec: R26B supports H.264 standard, which provides better video quality at substantially lower bit rates than previous standards.

Codec Resolution: R26B supports four resolutions: QCIF, CIF, VGA, 4CIF and 720P.

Codec Bitrate: To configure bit rates of video stream.

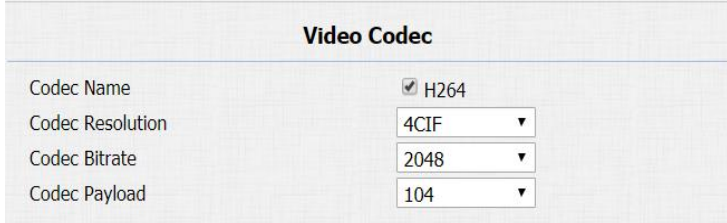
Codec Payload: To configure RTP audio video profile.

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

4.2.5. DTMF

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

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



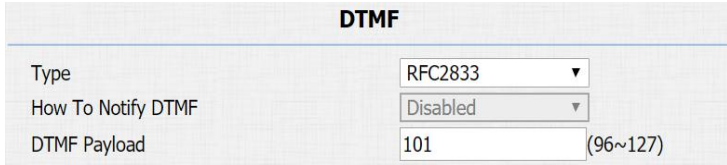
Video Codec	
Codec Name	<input checked="" type="checkbox"/> H264
Codec Resolution	4CIF ▼
Codec Bitrate	2048 ▼
Codec Payload	104 ▼

Figure 4.2.4-2 Codec



Multicast Codec	PCMU ▼
-----------------	--------

Figure 4.2.4-3 Codec



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

Figure 4.2.5 DTMF

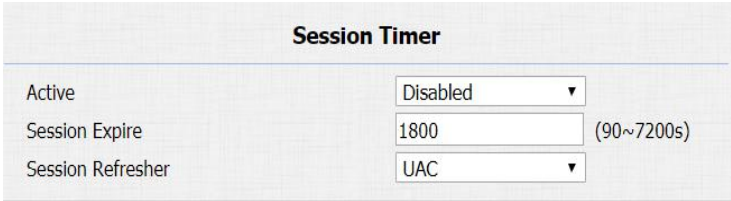
How To Notify DTMF: Only available when DTMF type is Info.

DTMF Payload: To configure payload type for DTMF.

4.2.6. Session Timer

Go to **Account - Advanced** to configure it.

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



The screenshot shows the 'Session Timer' configuration page. It has a title bar 'Session Timer'. Below it, there are three settings: 'Active' with a dropdown menu set to 'Disabled', 'Session Expire' with a text input field containing '1800' and a range '(90~7200s)' to its right, and 'Session Refresher' with a dropdown menu set to 'UAC'.

Figure 4.2.6 Session timer

4.2.7. Encryption

Go to **Account - Advanced** to configure it. If enabled, voice will be encrypted.



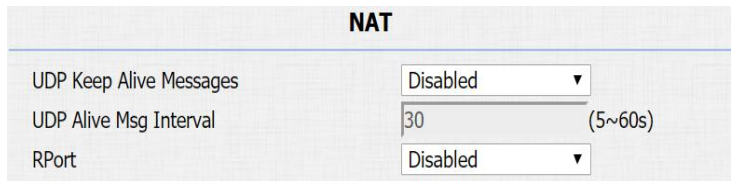
The screenshot shows the 'Encryption' configuration page. It has a title bar 'Encryption'. Below it, there is one setting: 'Voice Encryption(SRTP)' with a dropdown menu set to 'Disabled'.

Figure 4.2.7 Encryption

4.2.8. NAT

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

UDP Keep Alive message: If enabled, R26B will send UDP keep-alive message periodically to router to keep NAT port alive.



The screenshot shows the 'NAT' configuration page. It has a title bar 'NAT'. Below it, there are three settings: 'UDP Keep Alive Messages' with a dropdown menu set to 'Disabled', 'UDP Alive Msg Interval' with a text input field containing '30' and a range '(5~60s)' to its right, and 'RPort' with a dropdown menu set to 'Disabled'.

Figure 4.2.8 NAT

UDP Alive Msg Interval: Keep alive message interval.

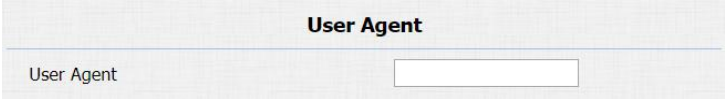
Rport: Remote Port, if enabled, it will add remote port into outgoing SIP message for designated account.

4.2.9. User Agent

Go to **Account - Advanced** to configure it.

To customize user agent field in the SIP message.

If users agent is set to specific value, users could see the information from network package. If user agent is not set by default, users could see the company name, model number and firmware version from network package.



The screenshot shows a configuration interface for the 'User Agent' field. The title 'User Agent' is centered at the top. Below it, there is a label 'User Agent' on the left and a text input box on the right.

Figure 4.2.9 User agent

4.3. Access Control

4.3.1. Web Relay

R26B can support extra web relay which is connected with the door phone via network.

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

Type: Connect web relay and choose the type.

IP Address: Enter web relay's IP address.

UserName: It is an authentication for connecting web relay.

Password: It is an authentication for connecting web relay.

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

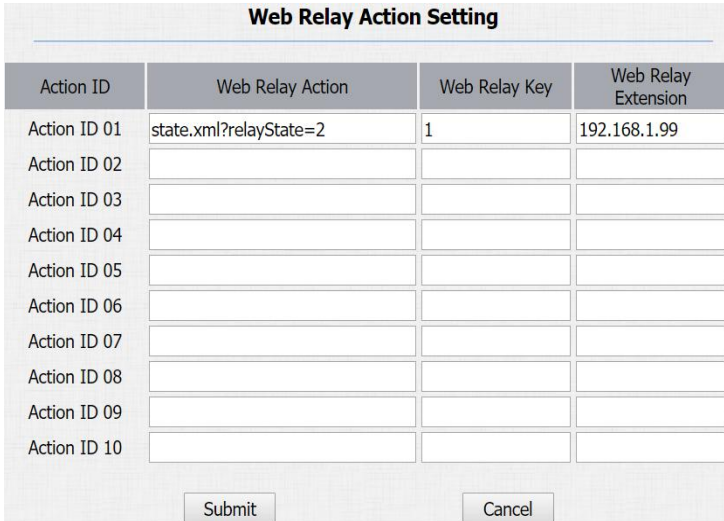
Web Relay Key: If the DTMF keys same as the local relay, the web relay will be open with local relay. But if there are different, the web relay is invalid.



The 'Web Relay' configuration form contains the following fields:

- Type: A dropdown menu with 'Default' selected.
- IP Address: A text input field.
- UserName: A text input field.
- Password: A text input field with masked characters (dots).

Figure 4.3.1-1 Web relay



The 'Web Relay Action Setting' table is structured as follows:

Action ID	Web Relay Action	Web Relay Key	Web Relay Extension
Action ID 01	state.xml?relayState=2	1	192.168.1.99
Action ID 02			
Action ID 03			
Action ID 04			
Action ID 05			
Action ID 06			
Action ID 07			
Action ID 08			
Action ID 09			
Action ID 10			

At the bottom of the table are 'Submit' and 'Cancel' buttons.

Figure 4.3.1-2 Web relay

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

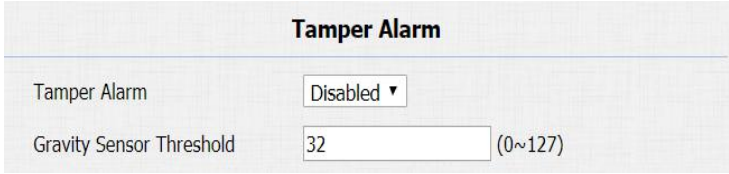
Note: Users can modify username and password in web relay website.

4.4. Security

4.4.1. Anti-alarm

Go to **Intercom - Advanced** to configure.

R26B integrates internal gravity sensor for the own security, and after enabling tamper alarm, if the gravity of R26B changes dramatically, the phone will alarm. Gravity sensor threshold stands for sensitivity of sensor.



The screenshot shows a configuration window titled "Tamper Alarm". It contains two settings: "Tamper Alarm" set to "Disabled" with a dropdown arrow, and "Gravity Sensor Threshold" set to "32" with a range "(0~127)" indicated to the right.

Tamper Alarm	
Tamper Alarm	Disabled ▼
Gravity Sensor Threshold	32 (0~127)

Figure 4.4.1 Anti-alarm

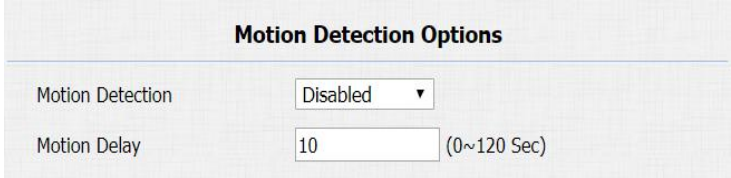
4.4.2. Motion

R26B supports motion detection, go to **Intercom - Motion** to configure detection parameter.

Motion Detection: To enable or disable motion detection.

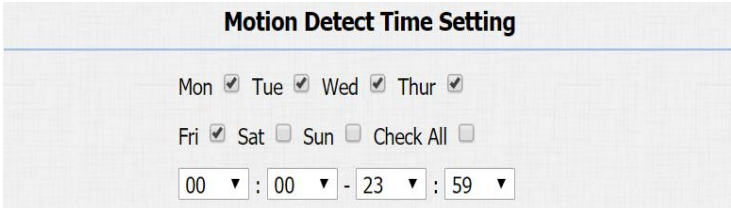
Motion Delay: To configure minimum time gap between two snapshots.

Motion Detect Time Setting: To make motion detect time for a whole week.



The screenshot shows the 'Motion Detection Options' configuration page. It has two settings: 'Motion Detection' is set to 'Disabled' via a dropdown menu, and 'Motion Delay' is set to '10' seconds, with a range of '(0~120 Sec)' indicated to the right.

Figure 4.4.2-1 Motion



The screenshot shows the 'Motion Detect Time Setting' configuration page. It includes checkboxes for each day of the week: Mon (checked), Tue (checked), Wed (checked), Thur (checked), Fri (checked), Sat (unchecked), and Sun (unchecked). There is also a 'Check All' checkbox which is unchecked. Below the checkboxes is a time range selector showing '00 : 00 - 23 : 59'.

Figure 4.4.2-2 Motion

4.4.3. Action

R26B supports to send notifications, snapshots via email and ftp transfer method, or calls via SIP call method, when trigger specific actions.

4.4.3.1. Action Parameters

Go to **Intercom - Action** to set action receiver.

Email Notification

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

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

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

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

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

Email subject: To configure subject of email.

Email content: To configure content of email.

Email Test: To test whether email notification is available.

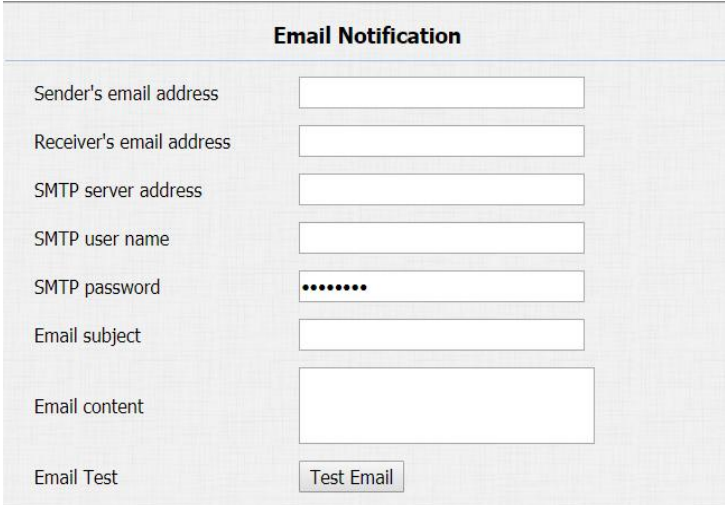
FTP Notification

FTP Server: To configure URL of FTP server.

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

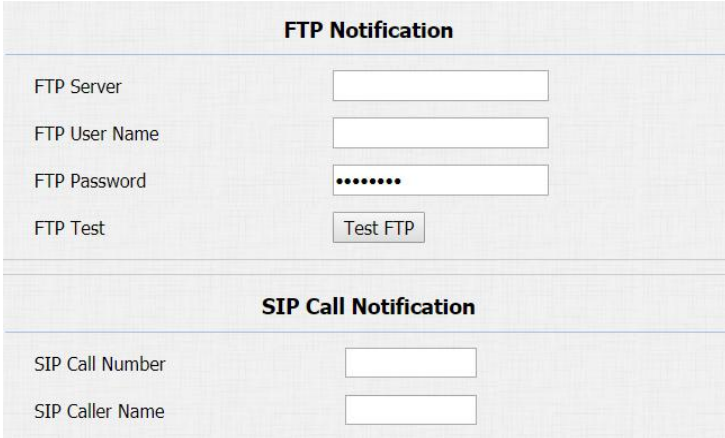
FTP Password: To configure password of FTP server.

FTP Test: To test whether FTP notification is available.



The screenshot shows a web form titled "Email Notification". It contains several input fields: "Sender's email address", "Receiver's email address", "SMTP server address", "SMTP user name", "SMTP password" (masked with dots), "Email subject", and "Email content" (a larger text area). At the bottom, there is a "Test Email" button.

Figure 4.4.3.1-1 Action parameters



The screenshot shows two web forms. The top form is titled "FTP Notification" and contains input fields for "FTP Server", "FTP User Name", "FTP Password" (masked with dots), and a "Test FTP" button. The bottom form is titled "SIP Call Notification" and contains input fields for "SIP Call Number" and "SIP Caller Name".

Figure 4.4.3.1-2 Action parameters

SIP Call Notification

SIP Call Number: To configure SIP call number.

SIP Call Name: To configure display name of R26B.

Three specific actions which will be triggered in R26B:

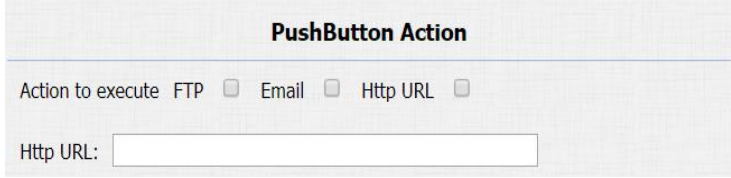
4.4.3.2. Push Button Action

Go to **Intercom - Basic** to configure.

Enable this function, the device will record any changes of the surrounding environment then send the message or picture to the corresponding receiver.

Action to execute: Tick the suitable way to receive the action message.

HTTP URL: If you tick HTTP URL, and then enter the HTTP server IP address in the HTTP URL area. When the device detects any changes, it will send HTTP network package.



The screenshot shows a configuration window titled "PushButton Action". Inside, there is a section "Action to execute" with three options: "FTP" (with an unchecked checkbox), "Email" (with an unchecked checkbox), and "Http URL" (with an unchecked checkbox). Below this, there is a label "Http URL:" followed by a text input field.

Figure 4.4.3.2 PushButton action

4.4.3.3. Input Interface Triggered Action

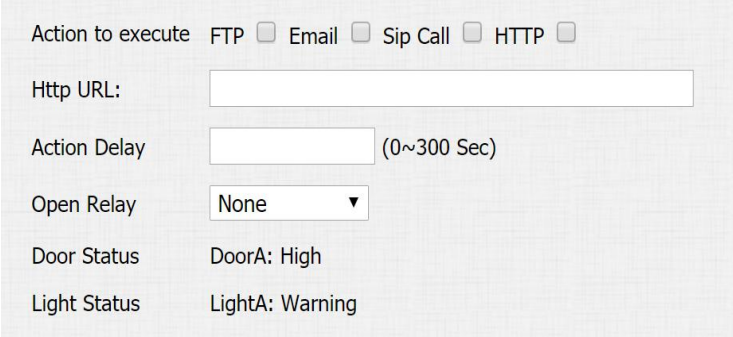
Go to **Intercom - Input** to configure.

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

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

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

Open Relay: To configure which relay to trigger.



The screenshot shows a configuration form for the 'Input Interface Triggered Action'. It includes the following fields and options:

- Action to execute:** A row of checkboxes for FTP, Email, Sip Call, and HTTP. All are currently unchecked.
- Http URL:** A text input field.
- Action Delay:** A text input field with a range of (0~300 Sec) indicated to its right.
- Open Relay:** A dropdown menu currently set to 'None'.
- Door Status:** A text field containing 'DoorA: High'.
- Light Status:** A text field containing 'LightA: Warning'.

Figure 4.4.3.3 Input interface trigger action

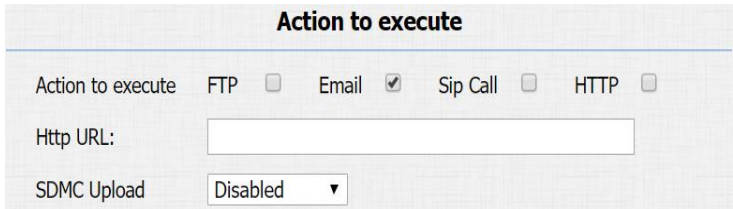
4.4.3.4. Motion Triggered Action

Go to **Intercom - Motion** to configure.

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

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

SDMC Upload: Upload the capture to the SDMC.



The screenshot shows a configuration form for the 'Motion Triggered Action'. It includes the following fields and options:

- Action to execute:** A row of checkboxes for FTP, Email, Sip Call, and HTTP. The 'Email' checkbox is checked, while the others are unchecked.
- Http URL:** A text input field.
- SDMC Upload:** A dropdown menu currently set to 'Disabled'.

Figure 4.4.3.4 Motion trigger action

4.4.3.5. Action URL

Action URL can be triggered by some predefined incidents.

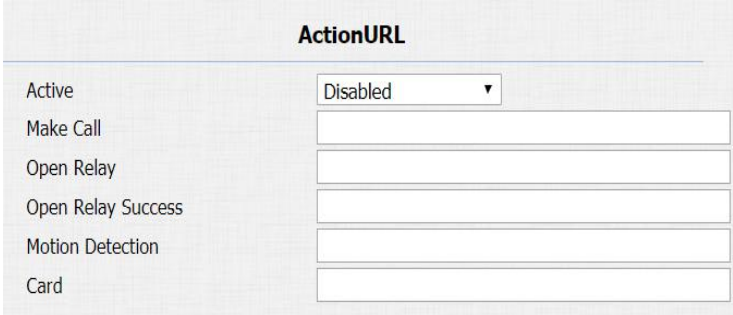
Go to **Phone - Action URL**, pick Active to be “Enabled”, pick to demand triggered incident, each “HTTP” request to have to including the key and value, use “=” to separate, each value starting with “\$.” For example, “Open Relay Success” incident, input `http://server IP address/help.xml?mac=$mac`, when the relay of R26B is triggered successfully, the phone will send a HTTP packet to the server, through the HTTP package to know the MAC of the phone.

4.5. Upgrade

4.5.1. Web Upgrade

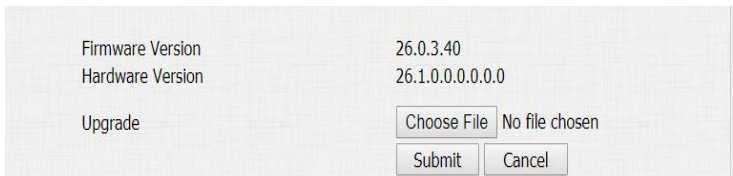
Go to **Upgrade - Basic**, users can upgrade firmware. Reset to factory setting and reboot.

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



ActionURL	
Active	Disabled ▼
Make Call	<input type="text"/>
Open Relay	<input type="text"/>
Open Relay Success	<input type="text"/>
Motion Detection	<input type="text"/>
Card	<input type="text"/>

Figure 4.4.3.5 Action URL



Firmware Version	26.0.3.40
Hardware Version	26.1.0.0.0.0.0.0
Upgrade	<input type="button" value="Choose File"/> No file chosen <input type="button" value="Submit"/> <input type="button" value="Cancel"/>

Figure 4.5.1 Web update

4.5.2. Autop Upgrade

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

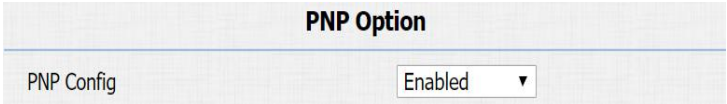
PNP Option

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

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

Manual Autop

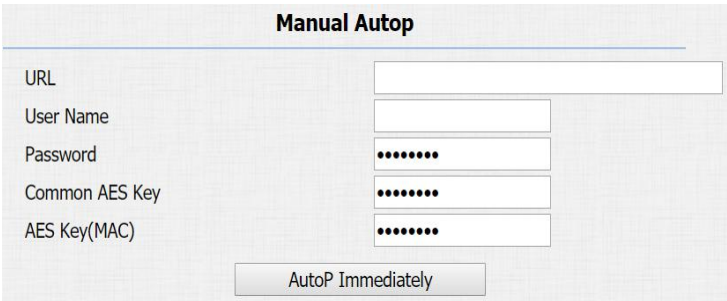
Autop (Auto-Provisioning) is a centralized and unified upgrade of telephone. It is a simple and time-saving configuration for phone. It is mainly used by the device to download corresponding configuration document from the server using TFTP / FTP / HTTP / HTTPS network protocol. To achieve the purpose of updating the device configuration, making the users to change the phone



PNP Option

PNP Config Enabled ▾

Figure 4.5.2-1 Autop update



Manual Autop

URL

User Name

Password

Common AES Key

AES Key(MAC)

AutoP Immediately

Figure 4.5.2-2 Autop update

configuration more easily. This is a typical C/S architecture upgrade mode, mainly by the terminal device or PBX server to initiate an upgrade request.

URL: Auto provisioning server address.

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

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

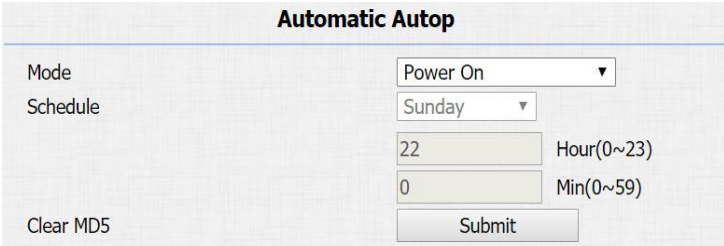
Common AES Key: Used for phone to decipher common auto provisioning configuration file.

AES Key (MAC): Used for phone to decipher MAC-oriented auto provisioning configuration file (for example, file name could be 0C1105888888.cfg if phone's MAC address is 0C1105888888).

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

Automatic Autop

To display and configure auto provisioning mode settings.



The screenshot shows a web-based configuration interface titled "Automatic Autop". It contains several input fields and a submit button. The "Mode" field is a dropdown menu set to "Power On". The "Schedule" field is a dropdown menu set to "Sunday". Below the schedule, there are two numeric input fields: "22" for "Hour(0~23)" and "0" for "Min(0~59)". At the bottom left, there is a "Clear MD5" link, and at the bottom right, there is a "Submit" button.

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

Figure 4.5.2-3 Autop update

This auto provisioning mode is actually self-explanatory.

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

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

4.5.3. Backup Config File

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

Export Autop Template: To export current config file.

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

4.5.4. DHCP Option

To display and configure DHCP setting for AutoP. Option 66/43 is enable by default. It can support HTTPS, HTTP, FTP, TFTP server.

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



Figure 4.5.3-1 Backup config file



Figure 4.5.3-2 Backup config file

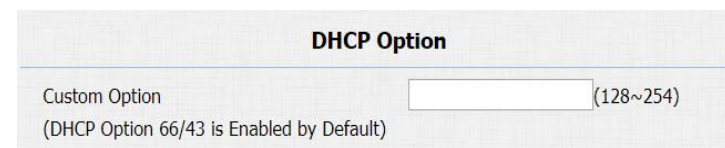


Figure 4.5.4 DHCP Option

Note: To make DHCP autop URL works, the PNP should be disable.

4.6. Log

4.6.1. Call log

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

4.6.2. Door Log

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

4.6.3. System Log

Go to **Upgrade - Advanced** to configure system log level and export system log file.

Call History						
All						
Index	Type	Date	Time	Local Identity	Name	Number
1	Received	2018-09-30	08:28:46	192.168.35.1 0@192.168.35.10	192.168.35.68	192.168.35.68 8@192.168.35.68

Figure 4.6.1 Call log

Door Log						
Index	Name	Code	Type	Date	Time	Status
1	Courier	FFB59828	Card	2018-09-30	10:49:19	Failed
2	unknown	1FEDBA28	Card	2018-09-30	10:49:16	Failed
3	Courier	FFB59828	Card	2018-09-30	10:49:09	Failed
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						

Figure 4.6.2 Door log

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

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

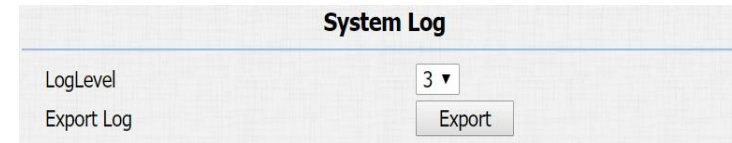


Figure 4.6.3 System log

4.6.4. PCAP

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

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

Stop: To stop capturing packets.

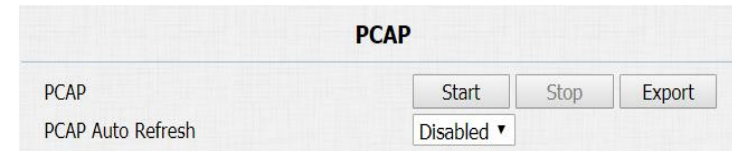


Figure 4.6.4 PCAP

Abbreviations

ACS:Auto Configuration Server

Auto:Automatically

AEC:Configurable Acoustic and Line Echo Cancelers

ACD:Automatic Call Distribution

Autop:Automatic Provisioning

AES:Advanced Encryption Standard

BLF:Busy Lamp Field

COM:Common

CPE:Customer Premise Equipment

CWMP:CPE WAN Management Protocol

DTMF:Dual Tone Multi-Frequency

DHCP:Dynamic Host Configuration Protocol

DNS:Domain Name System

DND:Do Not Disturb

DNS-SRV:Service record in the Domain Name System

FTP: File Transfer Protocol

GND: Ground

HTTP: Hypertext Transfer Protocol

HTTPS: Hypertext Transfer Protocol Secure

IP: Internet Protocol

ID: Identification

IR: Infrared

LCD: Liquid Crystal Display

LED: Light Emitting Diode

MAX: Maximum

POE: Power Over Ethernet

PCMA: Pulse Code Modulation A-Law

PCMU: Pulse Code Modulation μ -Law

PCAP: Packet Capture

PNP: Plug and Play

RFID: Radio Frequency Identification

RTP: Real-time Transport Protocol

RTSP: Real Time Streaming Protocol

MPEG: Moving Picture Experts Group

MWI: Message Waiting Indicator

NO: Normal Opened

NC: Normal Connected

NTP: Network Time Protocol

NAT: Network Address Translation

NVR: Network Video Recorder

ONVIF: Open Network Video Interface Forum

SIP: Session Initiation Protocol

SNMP: Simple Network Management Protocol

STUN: Session Traversal Utilities for NAT

SNMP: Simple Mail Transfer Protocol

SDMC: SIP Devices Management Center

TR069: Technical Report069

TCP: Transmission Control Protocol

TLS: Transport Layer Security

TFTP: Trivial File Transfer Protocol

UDP: User Datagram Protocol

URL: Uniform Resource Locator

VLAN: Virtual Local Area Network

WG: Wiegand

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