



SDP-R29 Door Phone User Manual

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Product Overview

1. Product Description



The Akuvox SDP-R29 is the video door phone, that you can connect with your Akuvox IP Phones for remote unlock control and monitoring. You can operate the indoor handset to communicate with visitors via audio and video, and unlock the door if you wish. Visitors can either enter password to unlock the door or dial room number to call the host. It's applicable in apartment, villas, Office, building and so on.

2.Features

➤ Phone Features

- HD Voice
- 2 Lines (support 2 SIP accounts)
- Phonebook (1000 Contacts, 100 Groups)
- Volume Adjustable
- Auto Answer
- Dial Replace Rule
- Wideband Codec: G.722
- Narrowband Codec: PCMA, PCMU, G.729
- AGC, Echo Canceller
- Full-Duplex Speakerphone
- Support RF Key to unlock
- Support Private Key to unlock
- DTMF Code
- RTSP
- Motion Detection
- LED Configuration
- Web Relay

➤ Physical Features

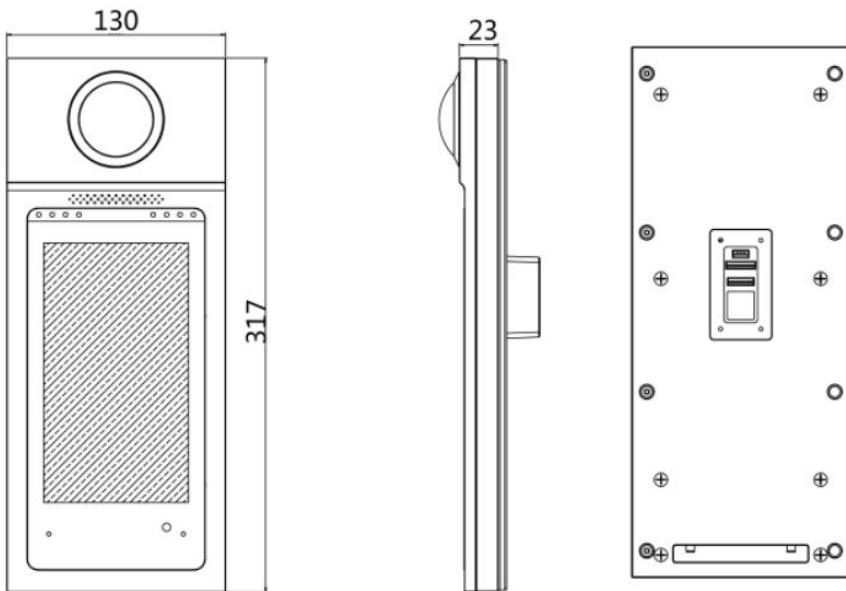
- Size: 317x130x23mm (HxWxD)
- Weight: 1.34kg
- Body material: all-aluminum
- Display: 7" IPS LCD
- Screen: 7" capacitive touch screen
- Camera: 5 Mega pixels, automatic lighting
- 12V DC connector
- Water-proof & Dust-proof: IP65
- Collision-proof: IK06

➤ SIP Features

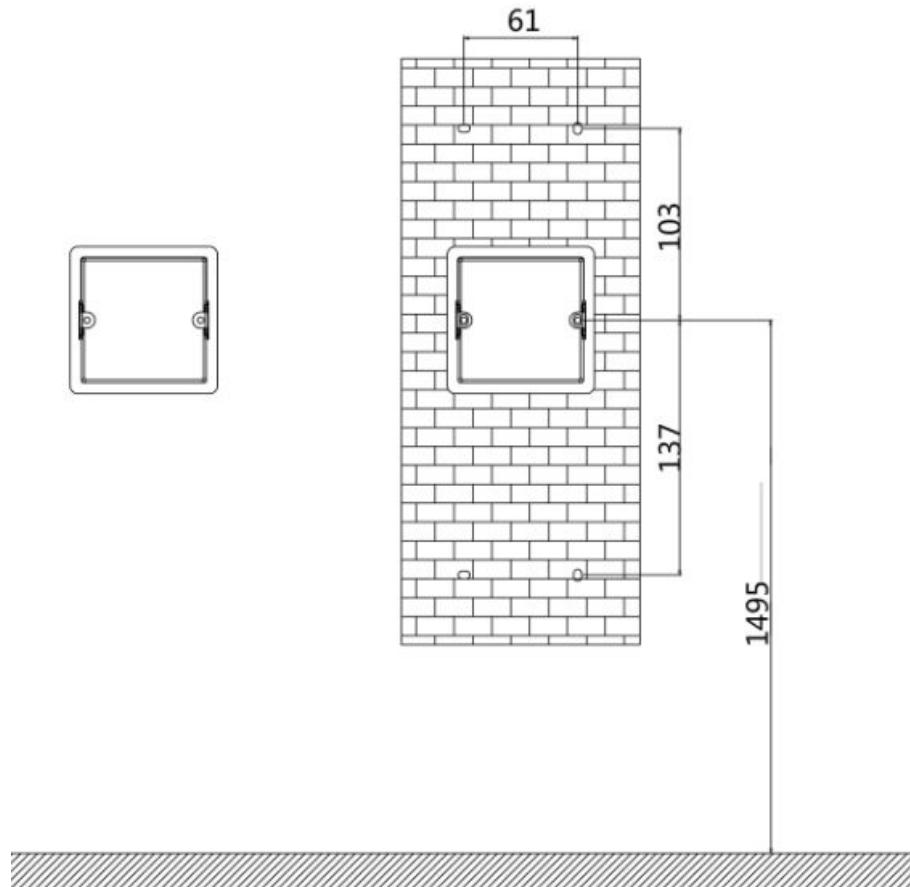
- SIP v1(RFC2543), SIP v2(RFC3261)
- Audio codecs: G.711a, G.711μ, G.722
- Video codecs: H.263, H.264
- Echo Cancellation
- Voice Activation Detection

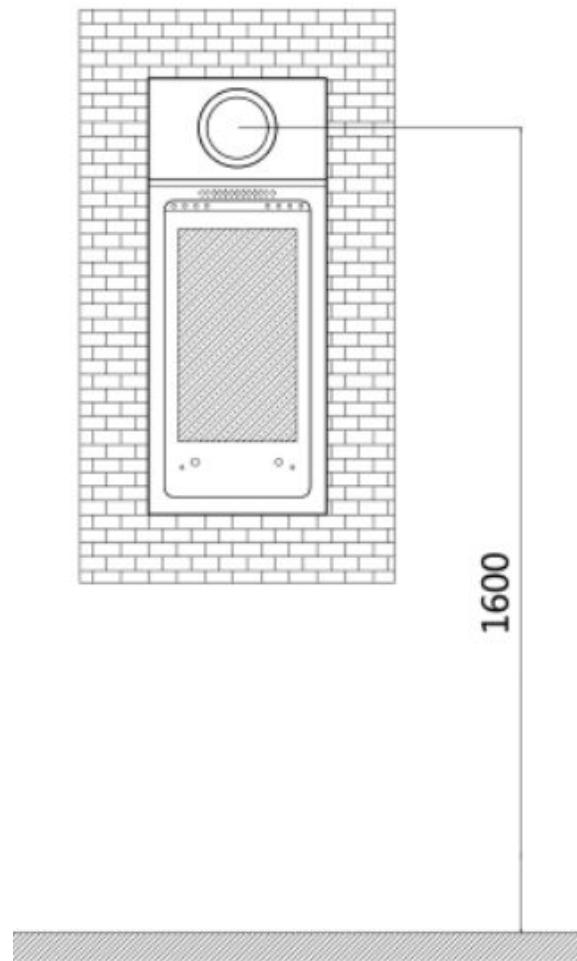
- Comfort Noise Generator
- Video Features
 - Resolution: Up to 1080p
 - Maximum image transfer rate: 1080p - 30fps
 - Video codecs: H.263, H.264
 - High intensity white LEDs for picture lighting during dark hours with internal light sensor
- Network Features
 - SIP V1(RFC2543), V2(RFC3261)
 - 3 DTMF modes: In-Band,RFC2833,SIP INFO
 - HTTP Web Server for Management
 - Upgrade Firmware From Website
 - 10/100 Mbps Ethernet connection
 - DHCP Client or Static IP
 - Network-Time-Protocol
- Door Entry Features
 - Android OS for any 3rd party software or customization
 - Internal DPDT relay for controlling a door opener;
 - Relays controlled individually by DTMF tones or messages
 - Multi-way Unlock: IC Card, PassNumber
 - G-sensor for self-defence alarm
 - Volume control for speaker
 - Gain control for microphone
 - Camera permanently operational, not just during calls
 - White balance: auto
 - Viewing angle: 90°
 - Auto-night mode with LED illumination
 - Minimum illumination: 1LUX (without LED illumination)
 - Max call length setting
 - Input DTMF code in talking interface

3. Dimension



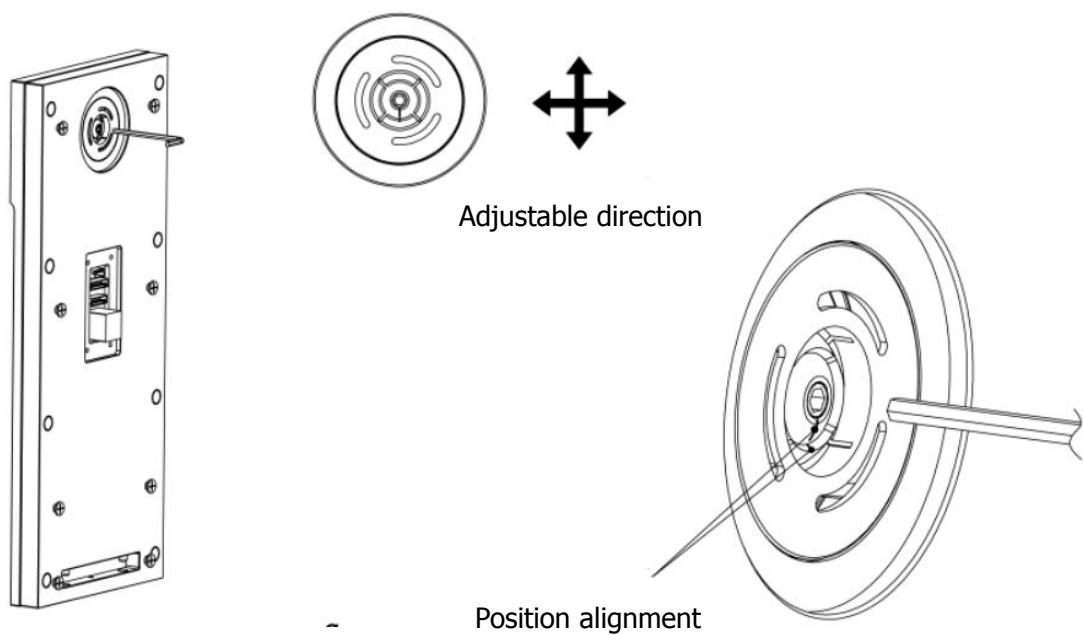
4. Installation height





*It is recommended that the distance between camera and ground remains 1.6m.

5. Adjust camera angle



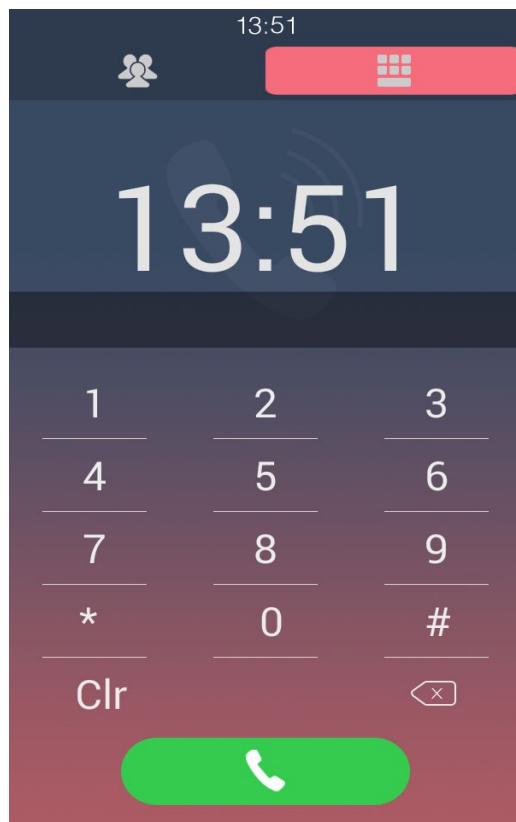
Network

1. Product topology



Web UI & Operation

1.Main interface

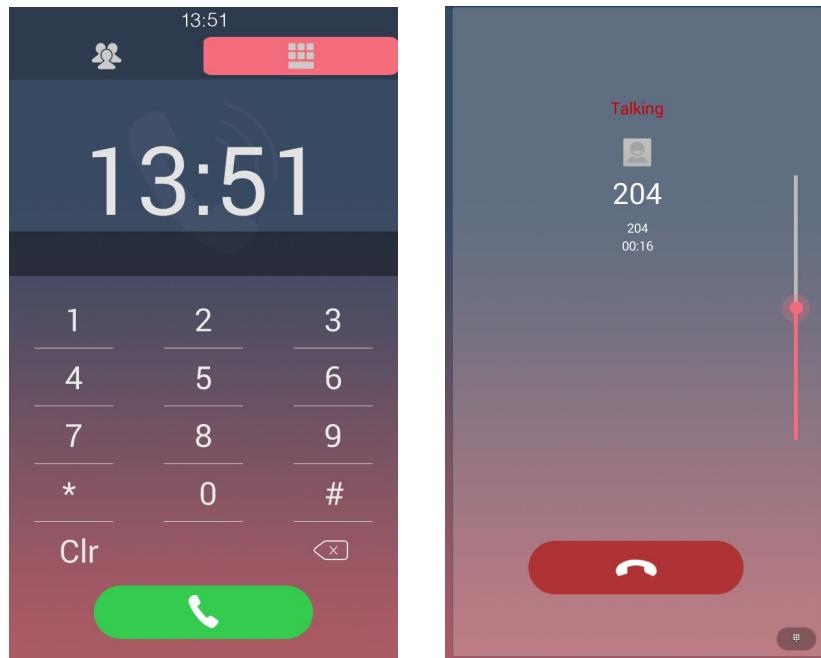


The default screen after boot up is the password unlock screen, touch  to switch screen to dial pad.

2.Calling out

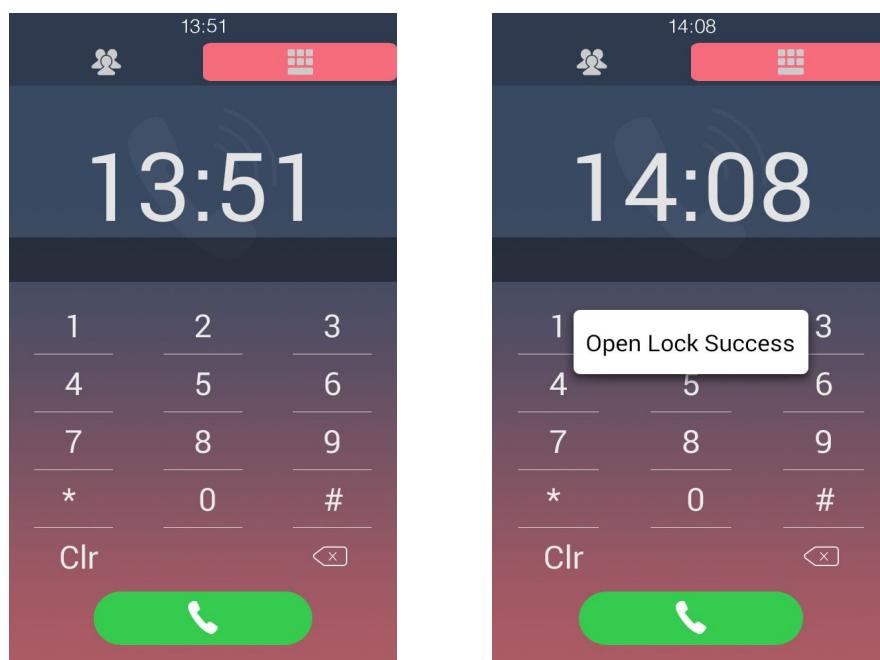


In dial pad, input desired number than press  to dial out. The screen will turn to calling, or talking when there is a conversation.



3.Unlock by password

Input 8 digits password to unlock the door. Once password is correct, R29 will prompt “Open Lock Success” and door will open. Otherwise, screen will prompt “Open Lock failed”. To configure password, please refer to “Configure password” in Configuration section.



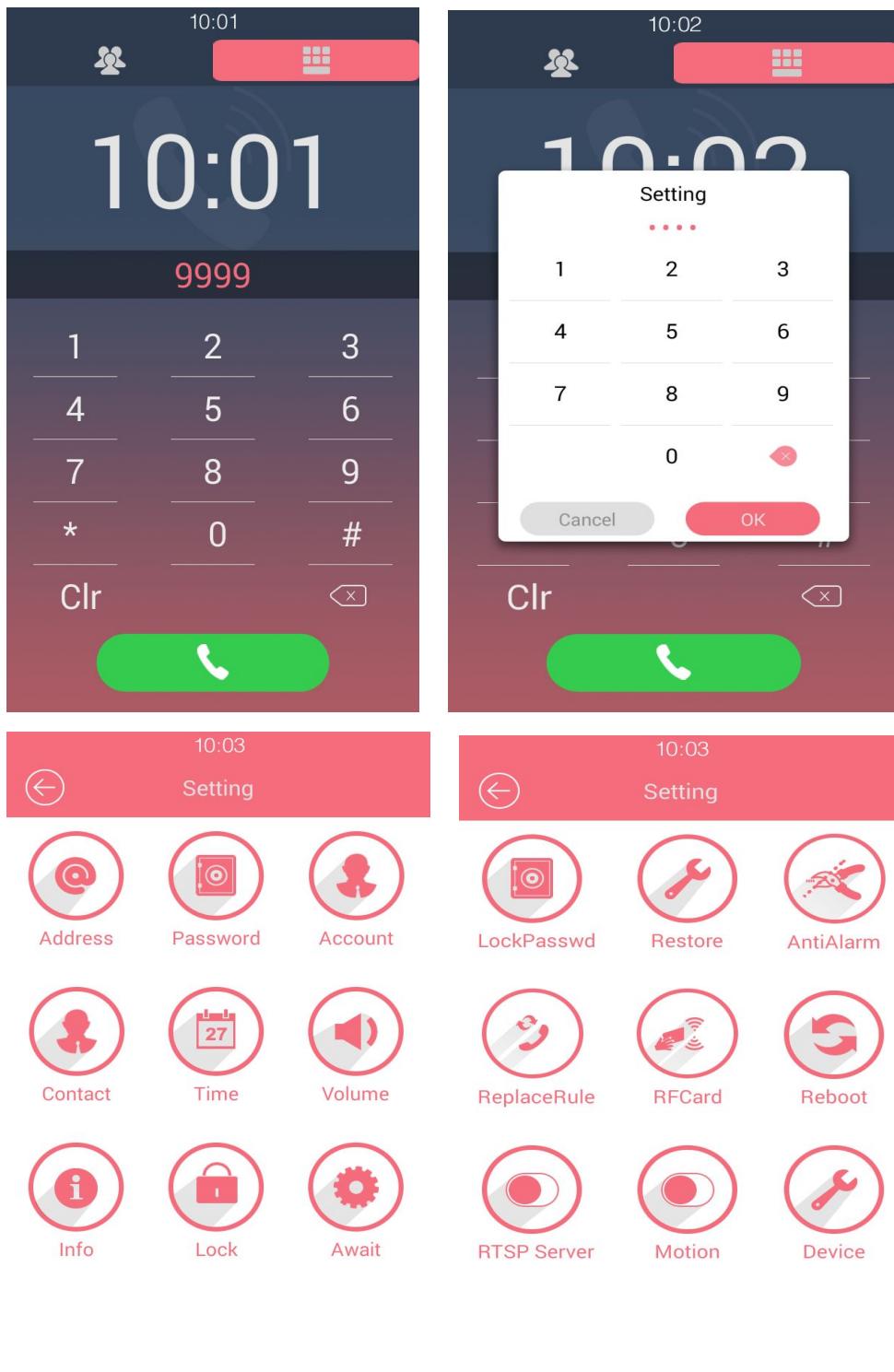
4.Unlock by RF card

Place RF card close to sensor area, if the card was bound to the door phone before, R29 will prompt “Open Lock Success”. For RF card recognition, please refer to “RF card” in Configuration section.



Configuration in doorphone

To configure each feature on R29, users need activate Factory setting mode. On the dial mode, dial “9999” then press “dial”. When prompt Setting interface, press “3888”(default) then “OK” to enter Factory setting.

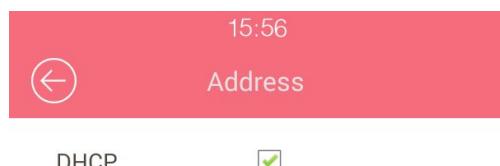




• • •

1. Configure Address

DHCP: Connect the Ethernet cable and tick DHCP. The device will access the network parameter automatically.

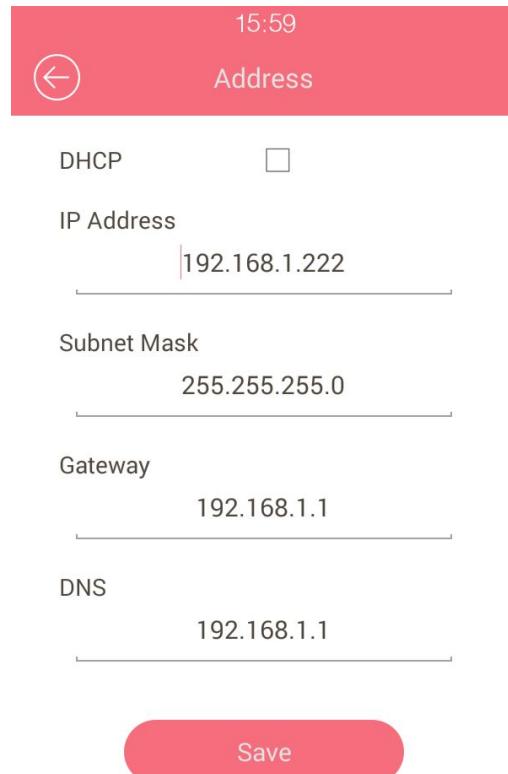


DHCP



Save

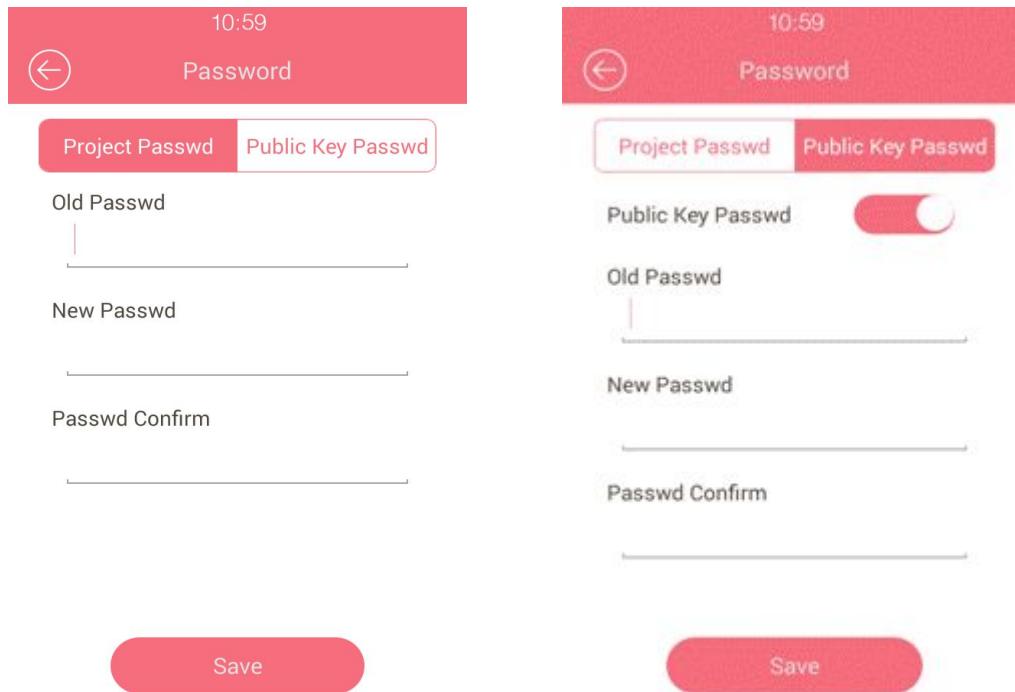
Static IP: Press “Address” to setup network address, and then input “IP Address”, “Subnet Mask” & “Gateway” to modify default parameters. Press “Save” to save configuration.



2. Configure Password

To configure unlock or factory setting password for door phone, Press “Password” to enter password setting interface.

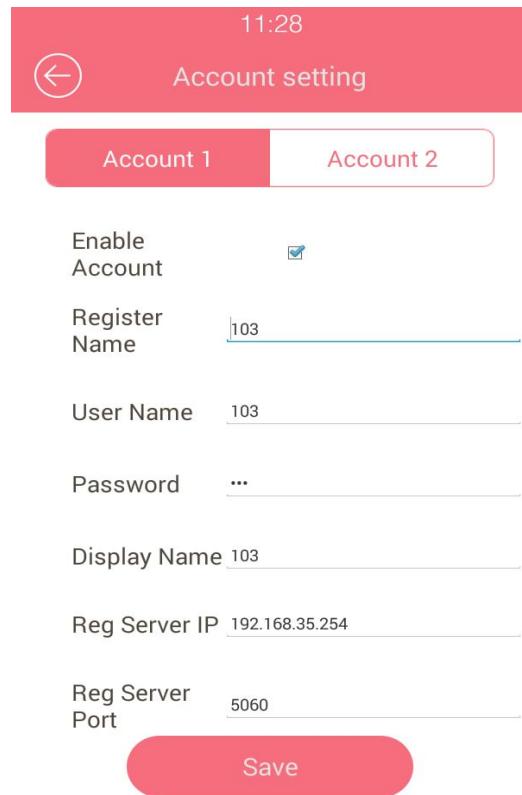
- Under “Project password” interface, input old password (“9999” by default) and new password, confirm the new password again, and then press “Save” to save configuration.
- Public key is the general unlock key for the building. It is enabled by default and the default password for public key is “33333333”. User can reset the 8 digits new password and confirm it. Click “Save” to save the configuration.



3. Account

R29 supports 2 lines. To register an SIP platform, Input account, password, SIP server IP and port value. Once finished, press “Save” then the door phone will send out registration detail to the server.

Note: Account 2 is only used to answer the phone now. User Name can't support all special characters.



4. Contact

Users not only can add the new contact in the Contact interface, also can do some modifications. Mean while, users can create groups, then add the contact to the corresponding group.

Create a contact:

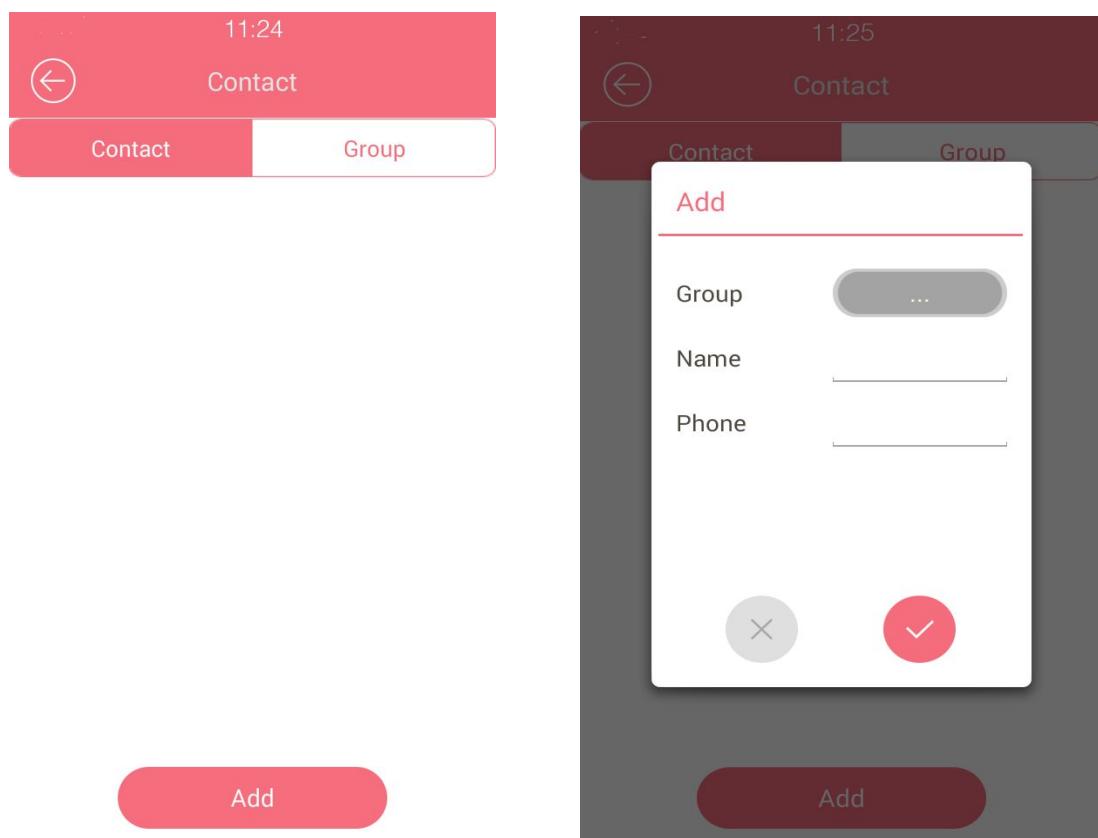
1. Enter Contact interface;
2. Click Add;
3. Enter Name ,Phone number and select Group in modification interface;
4. If you want to setup contact photo, please select the picture from the library.(please refer to Import Contact Picture)
5. Click OK;

If you don't setup any group, please keep default status.

Create a group:

1. Enter Group interface

2. Click Add



Import Contact picture:

Note: R29 can only support “JPG” format picture

There are two ways to import the contact picture:

Login in the website

1. Go to the path: Phone-> Import/Export;
2. Click Select;
3. Select the “Zip” folder in your PC;
4. Click Import;

This method can support upload multiple pictures in the same time.

The screenshot shows the Akuvox web interface under the 'Files Import/Export' section. On the left sidebar, under the 'Phone' category, there are links for Time/Lang, Call Feature, Dial Plan, and Door Setting. The main area displays three sections: 'Contacts' (with Import and Export buttons), 'Profiles' (which is highlighted with a red box), and 'Config' (with Import and Export buttons). To the right, there's a 'Help' section with notes about input box lengths and specific URL fields, a 'Warning' section, and a 'Field Description' section.

Or you can also import a single picture for a contact.

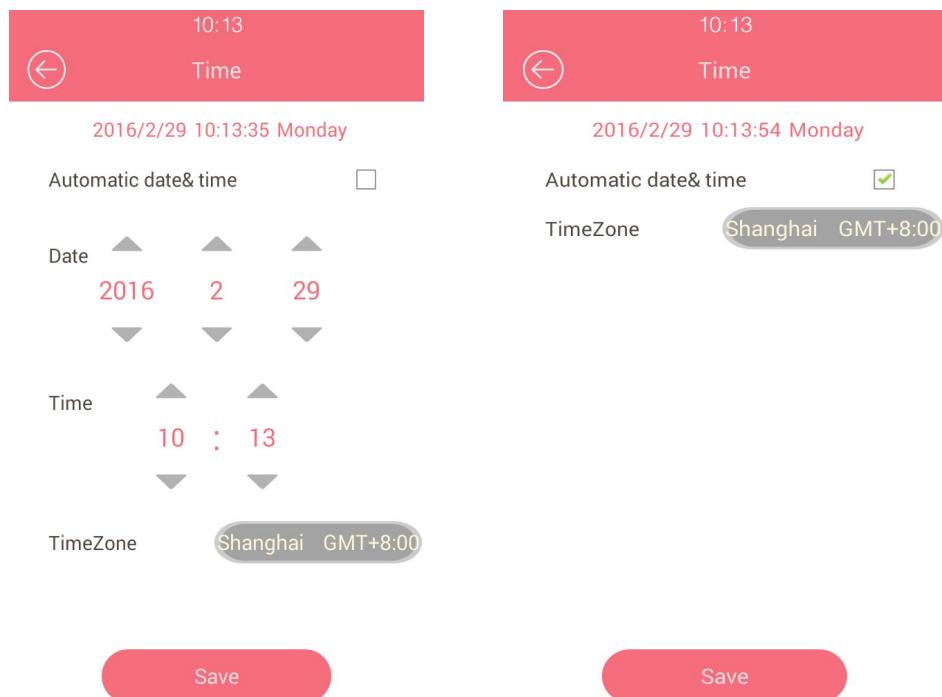
1. Go to the path: PhoneBook-> Local Book;
2. Select picture from your PC;
3. Click Import;
4. Then enter the Name and Phone ,select the Group;
5. Click Add;

The screenshot shows the 'Contact Setting' form. It includes fields for 'Name' (with two input boxes), 'Phone' (with one input box), 'Group' (with a dropdown menu set to 'Default'), and 'Photo' (with a large empty preview area). Below the form are buttons for 'Add', 'Edit', 'Cancel', '选择文件' (Select File), '未选择...文件' (File not selected...), 'Import', and 'Delete'.

5. Time

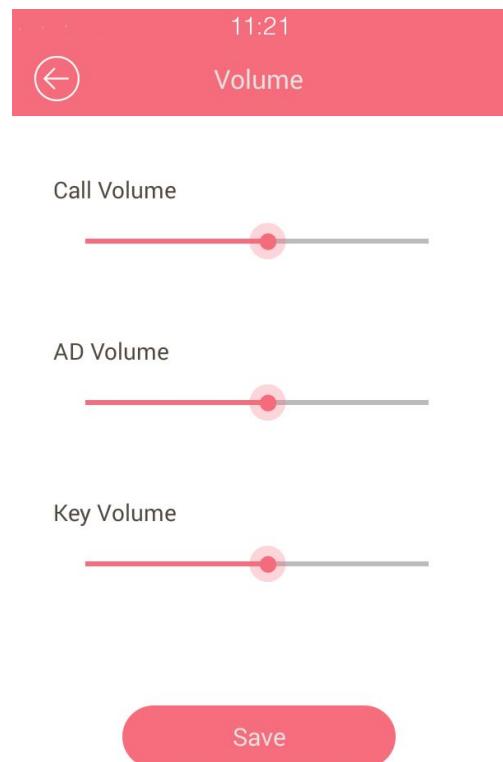
To configure doorphone time, please press "Time" to enter time setup interface. User can adjust both Date ,Time and Time zone manually, or just tick Automatic date&time , the device will access the time information automatically. Click Save to

save the configuration.



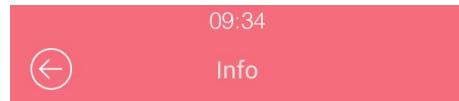
6. Volume

To configure doorphone volume, please press “Volume” to enter volume setup interface. User can adjust three types of volume: Call, Advertisement and Key. Then press “Save” to save configuration.



7. Info

To view system information, press “Info” on the screen. It includes Machine number, Network address, MAC address, Software version and Hardware version.



MODEL:SDP-R29

IP:192.168.35.20

MAC ADDR:C4:09:38:D2:D7:43

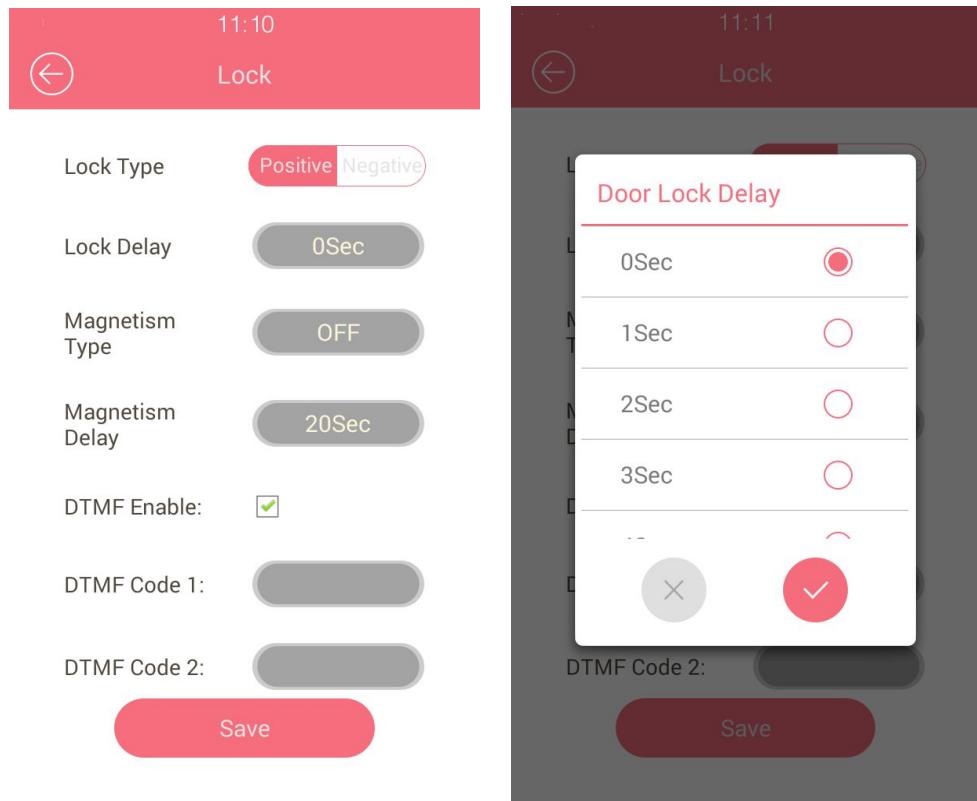
SoftVersion:29.0.2.320

HWVersion:29.0.0.0.0.0.0

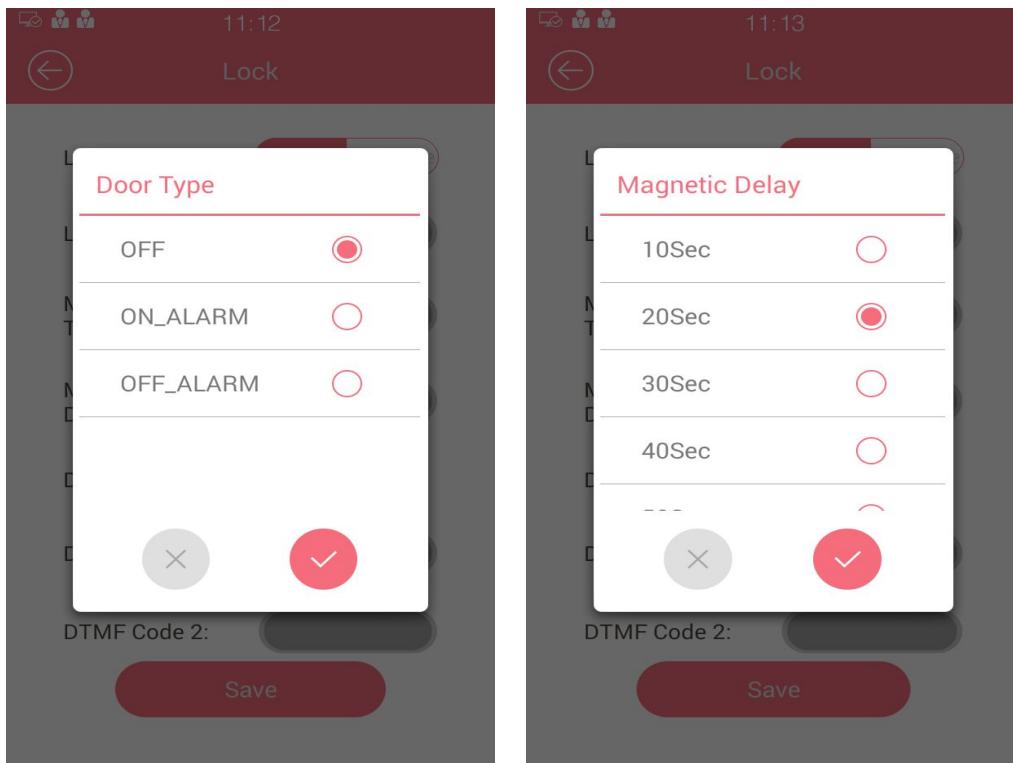
8. Lock

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

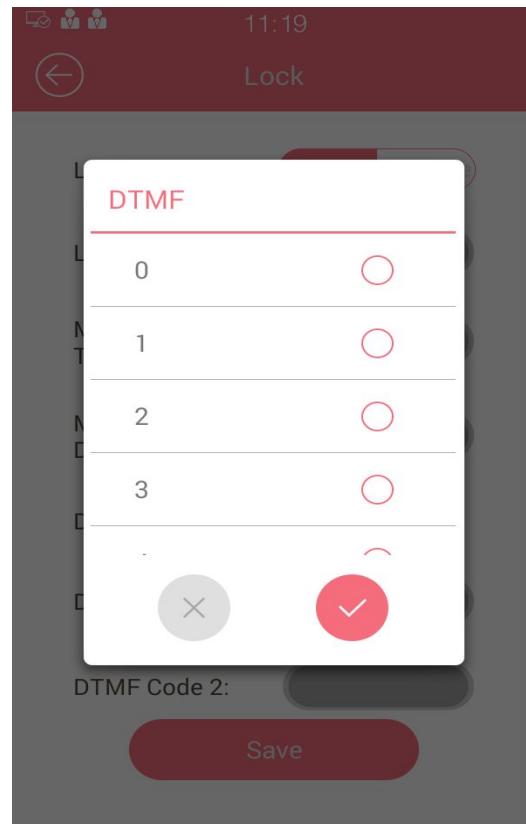
- Door lock can be configure as “Positive” or “Negative”. Different types depends on connecting the wire to corresponding interface on the back. When you use positive lock to connect NO and COM contact, please select Lock Type as “Positive”. When you select “Negative” mode, please connect NC and COM contact.
- Lock delay allows door remain “open” for certain period. The range of this period is from 0s to 10s.



- Magnetism Type supports 3 modes: “OFF”, “On_Alarm” and “Off_Alarm”. “OFF” indicates disable door sensor. “On_Alarm” means short circuit alarm and “Off_Alarm” means open circuit alarm. Different modes depends on different types magnetism. Please consult manufacturer about magnetism type.
- Magnetism Delay: R29 will alarm after the magnetism delay time.

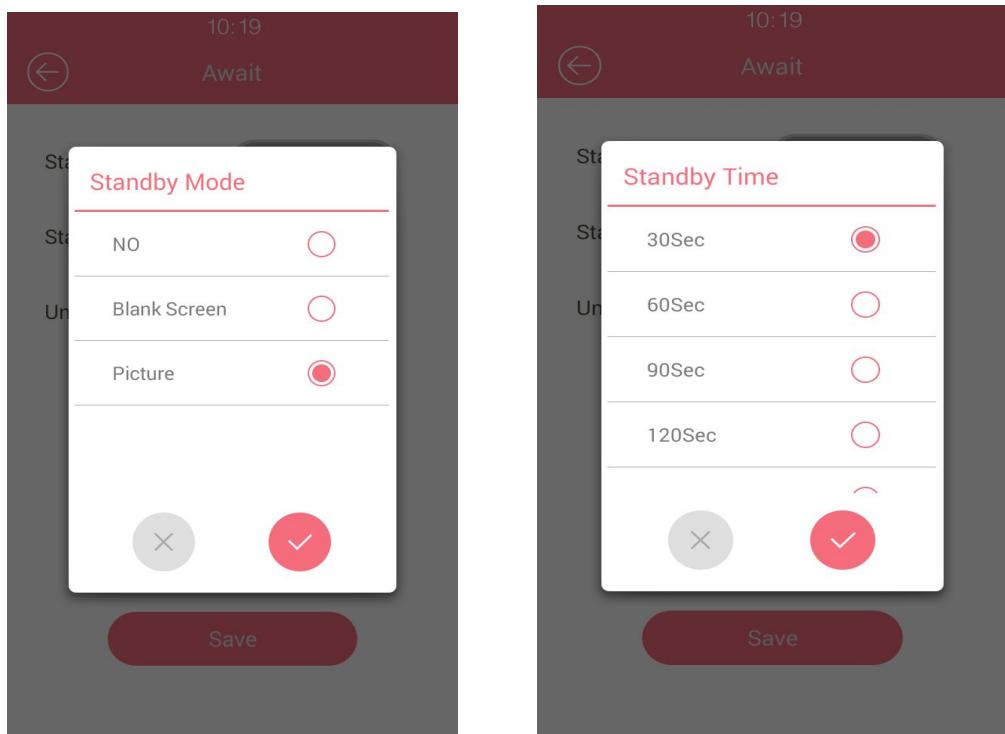


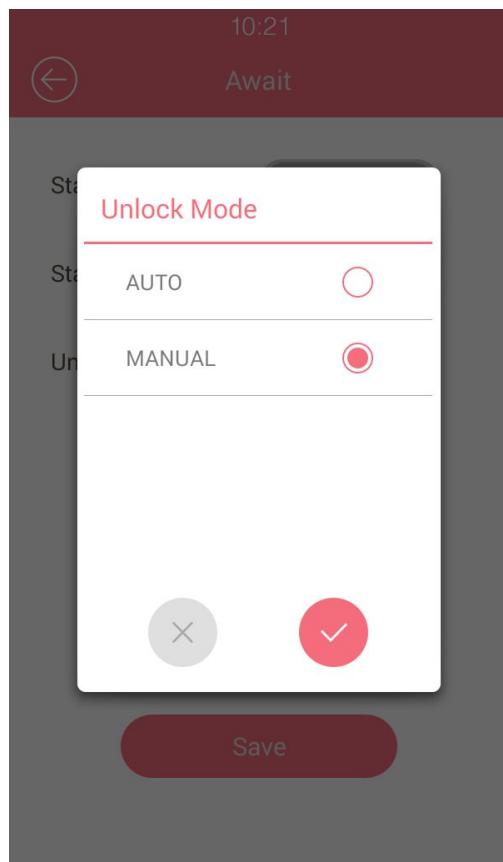
- User can setup 2 DTMF codes. They are used for the owner to unlock via pressing the corresponding number during the call.



9. Await

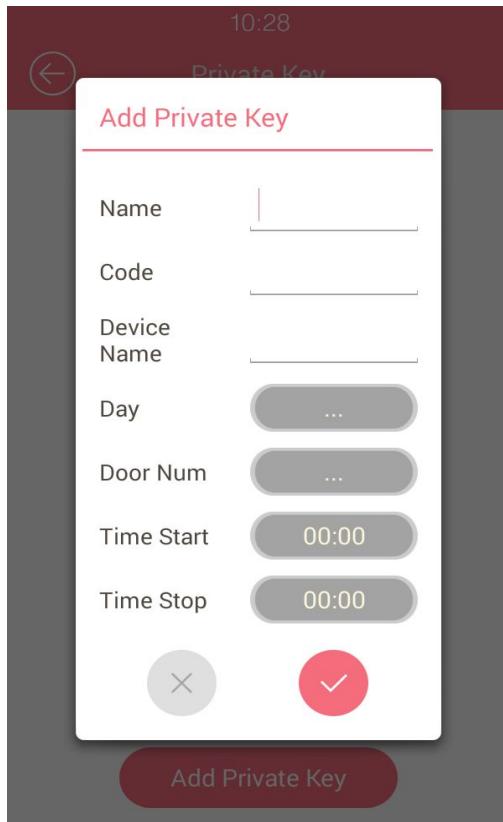
In "Await", there are three options for standby mode "No", "Blank Screen", "Picture". Screen will enter standby mode when reach Standby time, and user can customize standby time according to their needs. Unlock Mode is used for wake up the await interface.





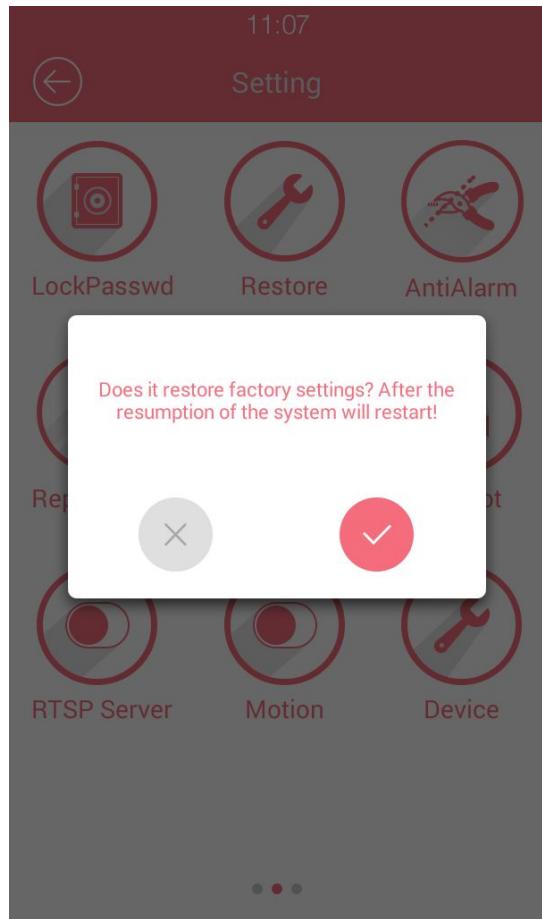
10. Lock Password

To setup the private key to unlock. Click Add Private Key, and input 8 digits codes, press Save. User can also configure Day and Time of the private key to limit permission. Click the exited code to edit or delete.



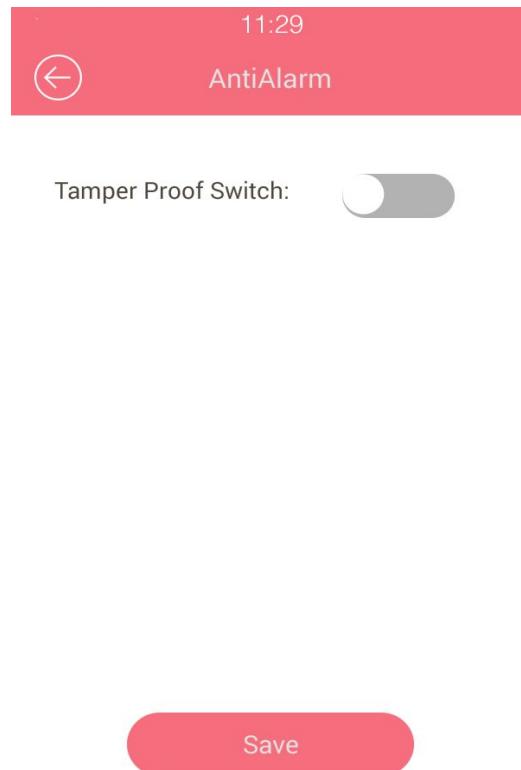
11. Restore

Factory Reset will reset all configuration to default, please be cautious to use this feature.



12. AntiAlarm

To protect door phone from any malicious damage, user can enable protection in “Tamper Proof Switch”. When tamper switch is on, any tamper movement will trigger alarm. If trigger the alarm accidentally, user need to enter Tamper Sets and turn off Tamper switch manually.

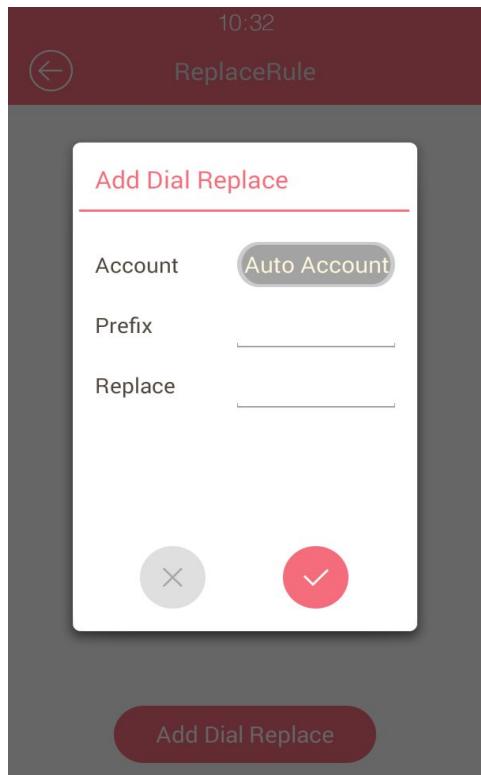


13. ReplaceRule

Allow user to add replace rule, you can modify related accounts, prefix and replace.

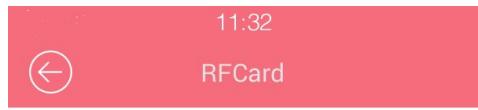
For example:

1. Select Account 1;
2. Enter 101 in Prefix;
3. Input 102 in Replace;
4. Click save;
5. Input 101 in dial interface;
6. R29 will call to 102 via using account 1 in fact.



14. RF card

Enter “RF card” to add or delete the RF card. After the card has been registered, users can use it to unlock.



Del Card

Add Card

Add card:

- ① Press “Add Card”, it will show up a prompt “Please scan the RFCard to Add”.



Please scan RFCard to Add

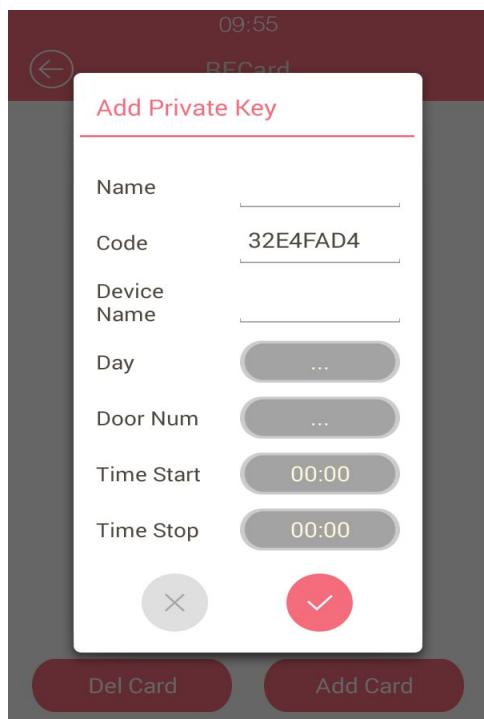
Del Card

Add Card

- ② Put card near the card sensor.



- ③ The device will show up the modify prompt, user can modify the valid day and time, then click Save.



Delete card:

- ① Press “Del Card”, it will show up a prompt “Please scan RFCard to Delete”.



Please scan RFCard to Delete

Del Card

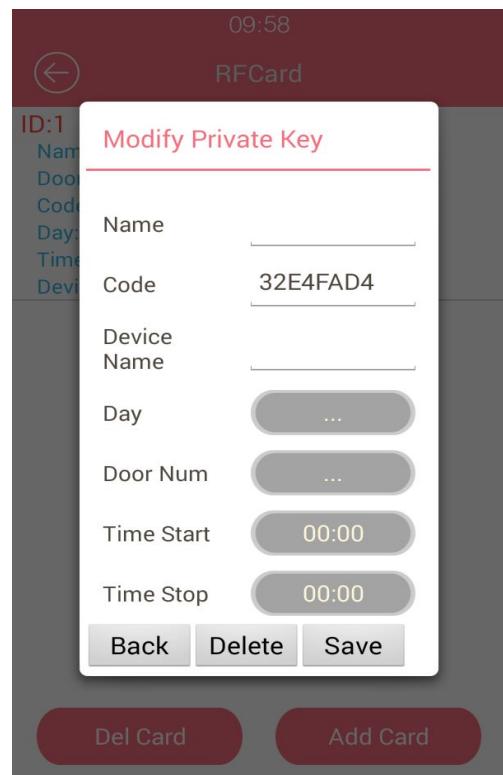
Add Card

② Put card near the card sensor.



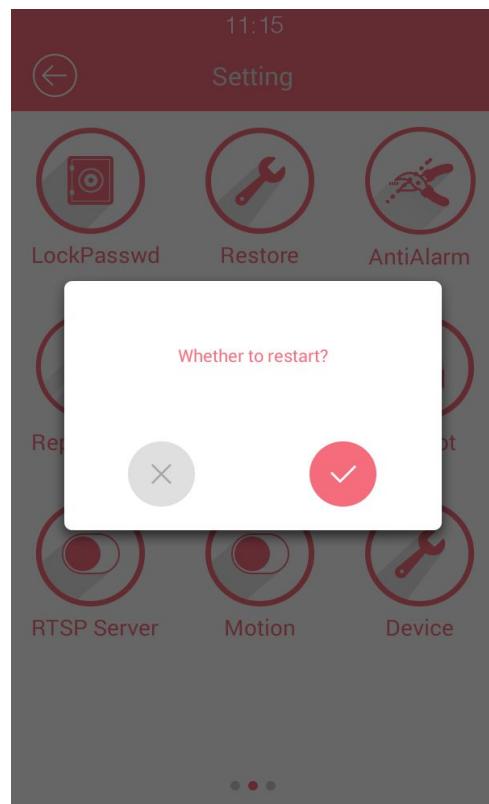
③ The device will show up the modify prompt, click Del to delete the RFCard.

Note: User can click exited RFCard, then select Del directly.



15. Reboot

Restart the device.



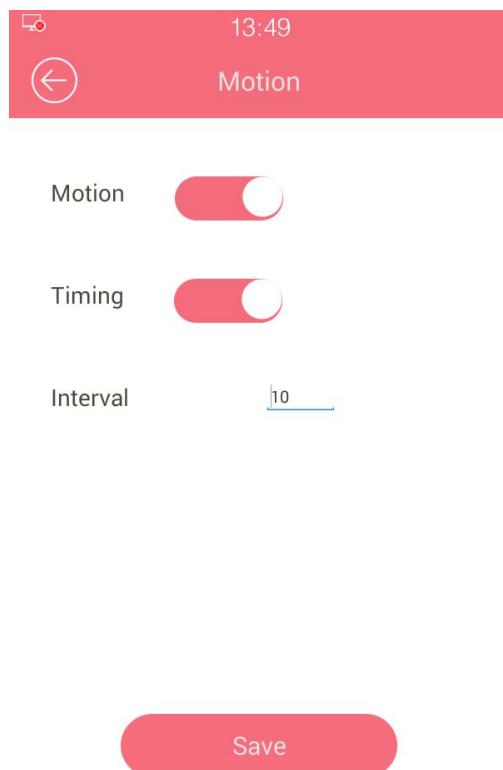
16. RTSP

Enable the RTSP function to monitor R29. The administrator can view the video from the door phone any time with the Onvif software. R29 supports RTSP format: rtsp://IP of R29:18554



17. Motion

Motion detection is used for recording any change of the surrounding environment. User can enable the motion function in R29 and setup the corresponding parameters on the web.



R29 supports two accepting modes: FTP and EMAIL. Choose the notification mode first. Setup the Detection Delay, Capture Delay and Detection Accuracy time. You can setup in website.

FTP Mode:

1. Enable the FTP server and configure the user name and password.
2. Create a folder named “picture”
3. Select the folder path in FTP server.
4. Enter the FTP server address ,user name and password in the web.
5. Input “picture” in FtpPath.
6. Click Submit to save the configuration.
7. You can check the motion capture in “picture” folder.

EMAIL Mode:

1. Setup the smtp server format in SmtpServer, port as 465

2. Enter the sender email address and password in SmtpServer and SmtpPwd.
3. Input the Email Subject.
4. Enter the receiver email address in EmailRecvMail and the receiver name in EmailRecvName.
5. Enter the sender address and name in EmailSendMail and EmailSendName.
6. Create any email content you want.
7. Click Submit to save the configuration.

Timing setting:

- If you only enable time mode and setup the interval . R29 will take the picture in every interval time.
- Only enable detection mode, R29 will capture if there is any change of surrounding in the detection time.
- Enable timing mode and detection mode in the same time, if there is no any change of surrounding , R29 will capture in the interval time. Otherwise ,the device will take the picture in detection mode.

Motion Detection

Enable	ON
Timing	ON
Notification	FTP
Timing Interval	(0~65535 Seconds)
Detection Delay	
Capture Delay	
Detection Accuracy	
FTP Server	Port
FTP User	
FTP Pwd	*****
FTP Path	
SMTP Server	Port
SMTP User	
SMTP Pwd	*****
Email Subject	
Email RecvMail	
Email RecvName	
Email SendMail	
Email SendName	
Email Content	

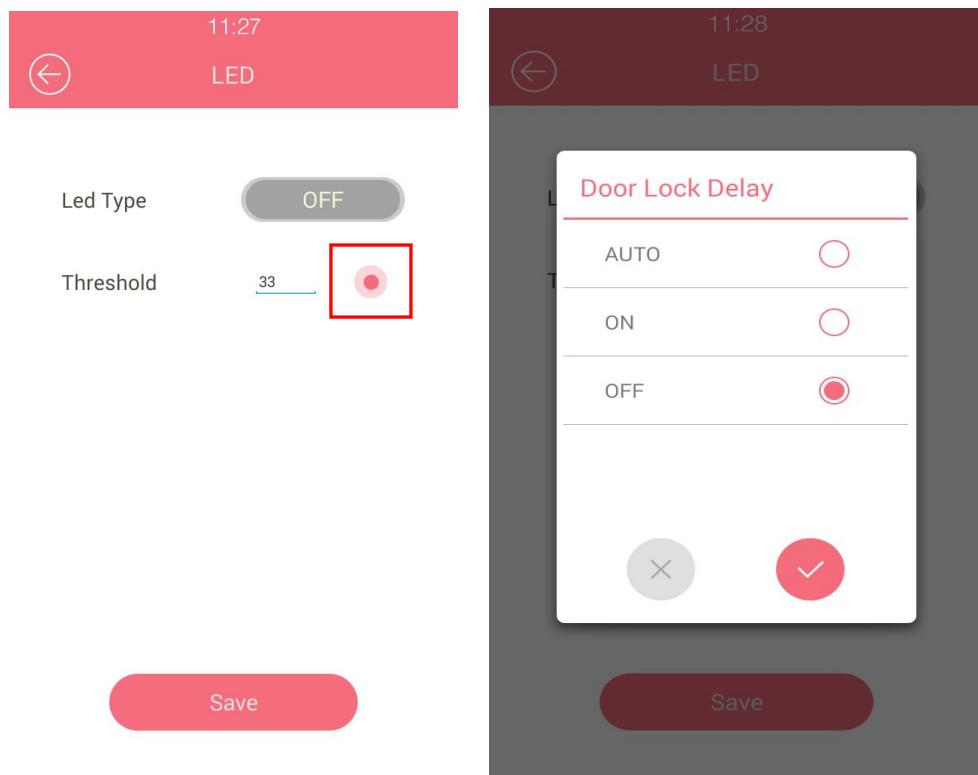
18. Device

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



19. LED

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



Configuration in website

Enter the doorphone IP into the website. Input the username and password(the user name is admin, the password is admin by default) to login in.

1.Status-> Basic

To check the information of the doorphone, included product information、network information and account information.

Go to the path: Web UI-> Status->Basic

The screenshot shows the Akuvox Status - Basic configuration page. The left sidebar has a 'Status' section expanded, showing 'Basic' selected. Other collapsed sections include Account, Network, Phone, PhoneBook, Upgrade, and Security. The main content area is divided into three sections: Product Information, Network Information, and Account Information. The Product Information section displays the device's model (SDP-R29), MAC address (C4:09:38:D2:D7:43), firmware version (29.0.2.320), and hardware version (29.0.0.0.0.0.0). The Network Information section shows the LAN port type (DHCP Auto), link status (Connected), IP address (192.168.35.7), subnet mask (255.255.255.0), gateway (192.168.35.1), and DNS servers (192.168.35.1 and 192.168.35.2). The Account Information section lists two accounts: Account1 and Account2, both set to None@None and disabled. A 'Help' panel on the right contains notes about input box lengths (max 63 characters) and specific URLs: 255 for Broadsoft Phonebook server address, 127 for Remote Phonebook URL & AUTOP Manual Update Server URL, and 63 for other input boxes. It also defines 'Note', 'Warning', and 'Field Description'.

Sections	Description
Product Information	To display the device's information such as Model name, MAC address (IP device's physical address), Firmware version and Hardware firmware.
Network Information	To display the device's Networking status(LAN Port),such as Port Type(which could be DHCP/Static), Link Status, IP Address, Subnet Mask, Gateway, Primary DNS server, Secondary DNS server, Primary NTP server

Account Information	To display device's Account information and Registration status (account username, registered server's address, Register result).

2.Account-> Basic

To register some sip accounts.

Go to the path: Web UI-> Account-> Basic

Note :
Max length of characters for input box:
255: Broadsoft Phonebook server address
127: Remote Phonebook URL & AUTOP Manual Update Server URL
63: The rest of input boxes

Warning :
Field Description :
Submit Shortcut

Sections	Description
SIP Account	<p>To display and configure the specific Account settings.</p> <ul style="list-style-type: none"> ● Status: To display register result. ● Display Label: Which is displayed on the phone's LCD screen. ● Display Name: Which is sent to the other call party for

	<p>displaying.</p> <ul style="list-style-type: none"> ● Register Name: Allocated by SIP server provider, used for authentication. ● User Name: Allocated by your SIP server provider, used for authentication. ● Password: Used for authorization.
SIP Server 1	<p>To display and configure Primary SIP server settings.</p> <ul style="list-style-type: none"> ● Server IP: SIP server address, it could be an URL or IP address. ● Registration Period: The registration will expire after Registration period, the IP phone will re-register automatically within registration period.
SIP Server 2	<p>To display and configure Secondary SIP server settings.</p> <p>This is for redundancy, if registering to Primary SIP server fails, the IP phone will go to Secondary SIP server for registering.</p> <p>Note: Secondary SIP server is used for redundancy, it can be left blank if there is not redundancy SIP server in user's environment.</p>
Outbound Proxy Server	<p>To display and configure Outbound Proxy server settings.</p> <p>An outbound proxy server is used to receive all initiating request messages and route them to the designated SIP server.</p> <p>Note: If configured, all SIP request messages from the IP phone will be sent to the outbound proxy server forcefully.</p>
Transport Type	<p>To display and configure Transport type for SIP message</p> <ul style="list-style-type: none"> ● UDP: UDP is an unreliable but very efficient transport layer protocol. ● TCP: Reliable but less-efficient transport layer protocol. ● TLS: Secured and Reliable transport layer protocol. ● DNS-SRV: A DNS RR for specifying the location of services.

3.Account-> Advanced

To configure more settings of the account.

Go to the path: Web UI-> Account-> Advanced

Note :
Max length of characters for input box:
255: Broadsoft Phonebook server address
127: Remote Phonebook URL & AUTOP Manual Update Server URL
63: The rest of input boxes

Warning :

Field Description :

Submit Shortcut

SIP Account

Codecs

Disabled Codecs	Enabled Codecs
	PCMU PCMA G729 G722

Video Codec

Codec Name	<input checked="" type="checkbox"/> H263	<input checked="" type="checkbox"/> H264
Codec Resolution	4CIF	4CIF
Codec Bitrate	320	320
Codec Payload	34	104

Subscribe

MWI Subscribe	Disabled
MWI Subscribe Period	1800 (120~65535s)
Voice Mail Number	
BLF Expire	1800 (120~65535s)
ACD Expire	1800 (120~65535s)

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
Provisional Response ACK	Disabled
Register with user=phone	Disabled
Invite with user=phone	Disabled
Anonymous Call	Disabled
Anonymous Call Rejection	Disabled
Missed Call Log	Enabled
Prevent SIP Hacking	Disabled

Session Timer

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

BLFList

BLFList URI	
BLFList PickUp Code	
BLFList BargeIn Code	

NAT

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

User Agent

User Agent	
------------	--

LogOut

Help

Submit Shortcut

Submit **Cancel**

Sections	Description
SIP Account	To display current Account settings or to select which account

	to display.
Codecs	To display and configure available/unavailable codecs list. Codec means coder-decoder which is used to transfer analog signal to digital signal or vice versa. Familiar codecs are PCMU(G711U), PCMA(G711A), G722 (wid-bandth codecs),G729.
Video codecs	There are two video codecs: H263 、 H264. With different codec resolution、bitrate and payload, it will present different effects.
Subscribe	To display and configure MWI, BLF, ACD subscription settings. <ul style="list-style-type: none"> ● MWI: Message Waiting Indicator which is used to indicate whether there is unread new voice message. ● BLF: BLF is short for Busy Lamp Field which is used to monitor the designated extension status. ● ACD: Automatic Call Distribution is often used in offices for customer service, such as call center. The setting here is to negotiate with the server about expire time of ACD subscription.
DTMF	To display and configure DTMF settings. <ul style="list-style-type: none"> ● Type: Support Inband,Info,RFC2833 or their combination. ● How To Notify DTMF: Only available when DTMF Type is Info. ● DTMF Payload: To configure payload type for DTMF. <p>Note: By default, DTMF type is RFC2833 which is the standard. Type Inband uses inband frequency to indicate DTMF tone which is most used to be compatible to traditional telephone server. Type Info use SIP Info message to indicate DTMF message.</p>
Call	To display and configure call-related features. <ul style="list-style-type: none"> ● Max Local SIP Port: To configure maximum local sip port for designated account. ● Min Local SIP Port: To configure minimum local sip port for designated account. ● Caller ID Header: To configure which Caller ID format to fetch for displaying on Phone UI. ● Auto Answer: If enabled, IP phone will be auto-answered when there is an incoming call for designated account. ● Ringtones: Choose the ringtone for each account. ● Provisioning Response ACK: 100% reliability for all provisional messages, this means it will send ACK every time the IP phone receives a provisional SIP message from SIP server.

	<ul style="list-style-type: none"> ● User=phone: If enabled, IP phone will send user=phone within SIP message. ● Anonymous Call: If enabled, all outgoing call for the designated account will be anonymous number. ● Anonymous Call Rejection: If enabled, all incoming anonym-out call for the designated account will be rejected. ● Is escape non Ascii character: To transfer the symbol to Ascii character. ● Missed Call Log: To display the miss call log. ● Prevent SIP Hacking: Enable to prevent SIP from hacking.
Session Timer	<p>To display or configure session timer settings.</p> <ul style="list-style-type: none"> ● Active: To enable or disable this feature, If enable, the ongoing call will be disconnected automatically once the session expired unless it's been refreshed by UAC or UAS. ● Session Expire: Configure session expire time. ● Session Refresher: To configure who should be response for refreshing a session. <p>Note: UAC means User Agent Client, here stands for IP phone. UAS means User Agent Server, here stands for SIP server.</p>
BLF List	<p>To display or configure BLF List URI address.</p> <ul style="list-style-type: none"> ● BLF List URI: BLF List is short for Busy Lamp Field List. ● BLFList PickUp Code: To set the BLF pick up code. ● BLFList Bargeln Code : To set the BLF barge in code.
NAT	<p>To display NAT-related settings.</p> <ul style="list-style-type: none"> ● UDP Keep Alive message: If enabled, IP phone will send UDP keep-alive message periodically to router to keep NAT port alive. ● UDP Alive Msg Interval: Keepalive message interval. ● Rport: Remote Port, if enabled, it will add Remote Port into outgoing SIP message for designated account.
User Agent	<p>One can customize User Agent field in the SIP message; If user agent is set to specific value, user could see the information from PCAP. If user agent is not set by default, user could see the company name, model number and firmware version from PCAP</p>

4.Phone-> Call Feature

Go to the path: Web UI-> Phone-> Call Feature

Sections	Description
Mode	To enable or disable feature key sync. <ul style="list-style-type: none"> ● Feature Key Sync: To enable or disable feature key sync. ● Mode: Select the desired mode.
DND	DND (Do Not Disturb) allows IP phones to ignore any incoming calls. <ul style="list-style-type: none"> ● Return Code when DND: Determine what response code should be sent back to server when there is an incoming call if DND on. ● DND On Code: The Code used to turn on DND on server's side, if configured, IP phone will send a SIP message to server to turn on DND on server side if you press DND when DND is off. ● DND Off Code: The Code used to turn off DND on server's side, if configured, IP phone will send a SIP message to server to turn off DND on server side if you

	press DND when DND is on.
Call Waiting	<p>To enable or disable Call Waiting.</p> <ul style="list-style-type: none"> ● Call Waiting Enable: If enabled, it allows IP phones to receive a new incoming call when there is already an active call. ● Call Waiting Tone: If enabled, it allows IP phones to play the call waiting tone to the waiting callee. ● On Code: The code used to enable call waiting on server's side, if configured, IP phone will send a SIP message to server to turn on call waiting on server side if you setup call waiting is disabled. ● Off Code: The code used to disable call waiting on server's side, if configured, IP phone will send a SIP message to disable call waiting on server side if you setup call waiting is enabled.
Intercom	<p>Intercom allows user to establish a call directly with the callee.</p> <ul style="list-style-type: none"> ● Active: To enable or disable Intercom feature. ● Intercom Mute: If enabled, once the call established, the callee will be muted.
Others	<ul style="list-style-type: none"> ● Return Code When Refuse: Allows user to assign specific code as return code to SIP server when an incoming call is rejected. ● Auto Answer Delay: To configure delay time before an incoming call is automatically answered. ● Direct IP: To call someone with dialing IP address directly.

5.Phone-> Dial Plan->Replace Rule

Go to the path: Web UI-> Phone-> Replace Rule

Index	Account	Prefix	Replace
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"/>

Note :
Max length of characters for input box:
255: Broadsoft Phonebook server address
127: Remote Phonebook URL & AUTOP Manual Update Server URL
63: The rest of input boxes

Warning :

Field Description :

Submit Shortcut

Submit **Cancel**

Sections	Description
Rules	Allow user to select Replace rule or Dial-now to display or edit.
Rules Modify	Allow user to modify selected rules information, for replace rule, you can modify related accounts, prefix and replace.
Area Code	<p>Area codes are also known as NPAs (Numbering Plan Areas). They usually indicate different geographical areas within one country. If entered numbers match the predefined area code rule, the IP phone will automatically prefix outgoing number with area code.</p> <p>Note: There is only one area code rule supported.</p>

6.Phone-> Dial Plan-> Dial Now

Go to the path: Web UI-> Phone-> Dial Now

Sections	Description
Rules	Allow user to select Replace rule or Dial-now to display or edit.
Dial Now Delay	Allow user configure dial now delay time for dial now. It means user can configure the IP phone to dial out the phone number automatically after the designated delay time if it match any dial now rule.
Rules Modify	Allow user to modify selected rules information, for dial-now rule, user can modify related accounts, Dial now Rule itself.
Area Code	Area codes are also known as NPAs(Numbering Plan Areas). They usually indicate different geographical areas within one country. If entered numbers match the predefined area code rule, the IP phone will automatically prefix outgoing number with area code. Note: There is only one area code rule supported.

7.Phone-> Door Setting

Go to the path: Feature->Door setting

The screenshot shows the Akuvox web interface for 'Door Setting General' configuration. The left sidebar contains navigation links for Status, Account, Network, Phone (Time/Lang, Call Feature, Dial Plan), PhoneBook, Upgrade, and Security. The main content area is titled 'Door Setting General' and includes sections for Display Type (Dial, 4), Tamper (OFF), RTP TimeOut (20), Number of Show Contacts (0), Password (PublicKey Enable OFF, PublicKey 3333333, ProjectKey 9999, User Setting Key 3888), Lock (Lock Type POWER OFF, Lock Delay 0, Lock Magnet Type Disable, Lock Magnet Delay 20), StandBy (StandBy Mode Image, StandBy Time 60, Unlocked Mode Auto), Open Door DTMF (DTMF Enable Enable, Code1, Code2), LED (LED Type Always OFF, LED Threshold 33), RTSP (Enable OFF), WebRelay (Type Default, IP Address, UserName, Password), Motion Detection (Enable ON, Timing ON, Notification FTP, Timing Interval (0~65535 Seconds), Detection Delay, Capture Delay, Detection Accuracy, FTP Server, FTP User, FTP Pwd, FTP Path, SMTP Server, SMTP User, SMTP Pwd, Email Subject, Email RecvMail, Email RecvName, Email SendMail, Email SendName, Email Content), and UDP Discover (CallNO, BuildNO, UnitNO, FloorNO, RoomNO, DeviceNO). The right side features a 'Help' section with notes about input box lengths and URL addresses, a 'Warning' section, a 'Field Description' section, and 'Submit Shortcut' buttons for 'Submit' and 'Cancel'.

Sections	Description
Door Setting General	<p>General setting allows users to control the default display when the device is turned on . Configuring display number when you input the number to call the host. And control whether turn on the tamper alarm.</p> <ul style="list-style-type: none"> ● Display Type: There are two display types: Contact and Dial. ● Display number: The default is 4. ● Tamper: The default is off. Users can enable it for safety. <p>Note: Please root the device after you setup .</p>
Password	<p>Users can configure project key and public key with this function.</p> <ul style="list-style-type: none"> ● Public Enable: the default status is on. ● Public Key: The default key is 33333333, users can reset a new public key. The key must be 8 digits number. ● Project Key: It is used to enter the project setting, the default project key is 9999. ● User Setting Key: The password which is used to enter the project setting.
Lock	<p>To setup the corresponding lock parameter.</p> <ul style="list-style-type: none"> ● Lock Type: There are two types: power on and power off. ● Lock Delay: The range is 0sec to 10sec. The default delay time is 0sec. ● Lock Magnet Type: Different lock with different Magnet types. Users can setup it as Open or Close. The default status is Disable. ● Lock Magnet Delay: The default is 20sec. The maximum is 120sec.
StandBy	<p>It will show the corresponding status when the device is idle.</p> <ul style="list-style-type: none"> ● StandBy Mode: There are 3- type modes: Image 、 Black and None. The default is Image. ● StandBy Time: The default is 60sec. The maximum is 180sec.
DTMF	<p>Users can setup DTMF function to unlock via pressing the corresponding code number. It can setup code1 and code2 in the same time.</p>
LED	<p>To setup LED parameters</p> <ul style="list-style-type: none"> ● LED Type: The default status is off ● Threshold: The current intensity of the environment.
RTSP	<p>Enable RTSP for monitoring function.</p>
Web Relay	<p>Connect external web relay.</p> <ul style="list-style-type: none"> ● Type: Select 2N WebRelay to enable this function. And the R29 relay will be disabled.

	<ul style="list-style-type: none"> ● IP Address: Setup web relay IP address. ● UserName: Setup web relay user name. ● Password: Setup web relay password.
Motion Detection	<p>Motion detection is used to record the change of the surrounding environment.</p> <ul style="list-style-type: none"> ● Enable: The default status is OFF ● Notification: It supports two types FTP and EMAIL. ● Timing interval: R29 will take the picture in the interval time. ● Detection Delay: Setup the time interval for detection ● Capture Delay: Setup the capture delay time ● Detection Delay: The smaller value, the capture picture is more accurate. ● FtpServer: Enter the FTP server address. ● Port: The Port is 21 by default. ● FtpUser: Enter the FTP server user name. ● FtpPwd: Enter the corresponding FTP server password. ● FtpPath: Enter "Picture". ● SsmtpServer: Enter the SMTP server format ● Port: Enter the SMTP server port. ● SsmtpUser: Enter the sender email address ● SsmtpPwd: Enter the sender email password ● Email Subject: Enter the subject name. ● EmailRecvMail: Enter the receiver email address. ● EmailRecvName: Enter the receiver name. ● EmailSendMail: Enter the sender email address. ● EmailSendName: Input the sender name. ● Email content: enter the content name.
UDP Discover	<p>To setup the UDP Discover parameters.</p> <ul style="list-style-type: none"> ● CallNo: Setup the other side number ● BuildNo: Setup the Build number as the other side has. ● UnitNo: Setup the Unit number as the other side has. ● Floor: Setup the Floor number as the other side has. ● RoomNo: Setup the RoomNo as the other side has. ● DeviceNo: Setup R29 serial number <p>Note: This function is used in some</p>

8.Phone->Import/Export

Go to the path: Web UI-> Phone-> Import/Export

Sections	Description
Import/Export Config	<ul style="list-style-type: none"> ● Contact: Click Export to export the existed contact. Choose the local file and click Import to import the new contact. The export format is ".vcf", the import format is ".vcf"、".csv" or ".xml". The import maximum is 1000. The export maximum is 500. ● Profiles: to import multiple contact photos. ● Config: Click Export to export the config file. And users can modify the config file then import it from local side.
Import/Export Private Key	<ul style="list-style-type: none"> ● PrivateKey: Export the existed private key information or import the private key from local side. It can only support ".xml" format. The maximum is 1000.
RF Key	<ul style="list-style-type: none"> ● RF Key: Export the existed RF Card information or import the local RF Card information. It can only support ".xml" format. The maximum is 1000

Screensaver1	<ul style="list-style-type: none"> ● Screensaver1: Upload the local picture as the screensaver. And users can remove the picture which is uploaded. It can only support ".jpg" format.
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9.PhoneBook-> Local Book

The screenshot shows the Akuvox Web UI interface for managing a local phonebook. The left sidebar includes a navigation menu with 'PhoneBook' expanded, showing 'Local Book' and 'Call Log'. The main content area displays a 'Local Book' table with columns for Index, Name, Phone, and Group. Below the table are sections for 'Contact Setting' (Name, Phone, Group, Photo) and 'Group Setting' (Name, Add, Edit, Cancel). A 'Help' panel on the right provides notes and warnings about input fields.

Sections	Description
Contact	To display and select local contact type. <ul style="list-style-type: none"> ● All Contacts: To display or edit all local contacts. ● Favorites: To display or edit favorites contacts. ● Black List: To display black list contacts.
Search	To search designated contacts from local phonebook.
Dial	To dial out a call or hangup an ongoing call from Web UI. Note: For this feature, you need to have the remote control

	privilege to control IP phone via Web UI. Please refer to section “Remote Control” in the Web UI->Phone->Call Feature page.
Group	To display or edit Group contacts.
Group Setting	To display or change Group name, related ringtone or description.
Import/Export	To import or export the contact or blacklist file.

10.Phone Book-> Call Log

Sections	Description
Call History	<p>To display call history records.</p> <p>Available call history types are All calls, Dialed calls, Received calls, Missed calls, Forwarded calls.</p> <p>HangUp: To click to hangup ongoing call on the IP phone.</p> <p>Note: For “HangUp” feature, you need to have the remote control privilege to control IP phone via Web UI. Please refer to section “Remote Control” in the Web UI->Phone->Call Feature page.</p>

11.Upgrade-> Basic

Go to the path: Web UI-> Upgrade-> Basic

The screenshot shows the Akuvox web interface. At the top, there's a blue header bar with the 'Akuvox' logo on the left and a 'Logout' link on the right. Below the header is a navigation menu on the left side with the following items:

- Status
- Account
- Network
- Phone
- PhoneBook
- Upgrade (this is the selected item)
- Basic (under Upgrade)
- Advanced (under Upgrade)
- Security

The main content area has a title 'Upgrade-Basic'. It contains several input fields and buttons:

- Firmware Version: 29.0.2.320
- Hardware Version: 29.0.0.0.0.0.0
- Upgrade: A file upload field with a '浏览...' button, and 'Submit' and 'Cancel' buttons below it.
- Reset To Factory Setting: A 'Submit' button.
- Reboot: A 'Submit' button.

To the right of the main content area, there are two sections:

- Note :**

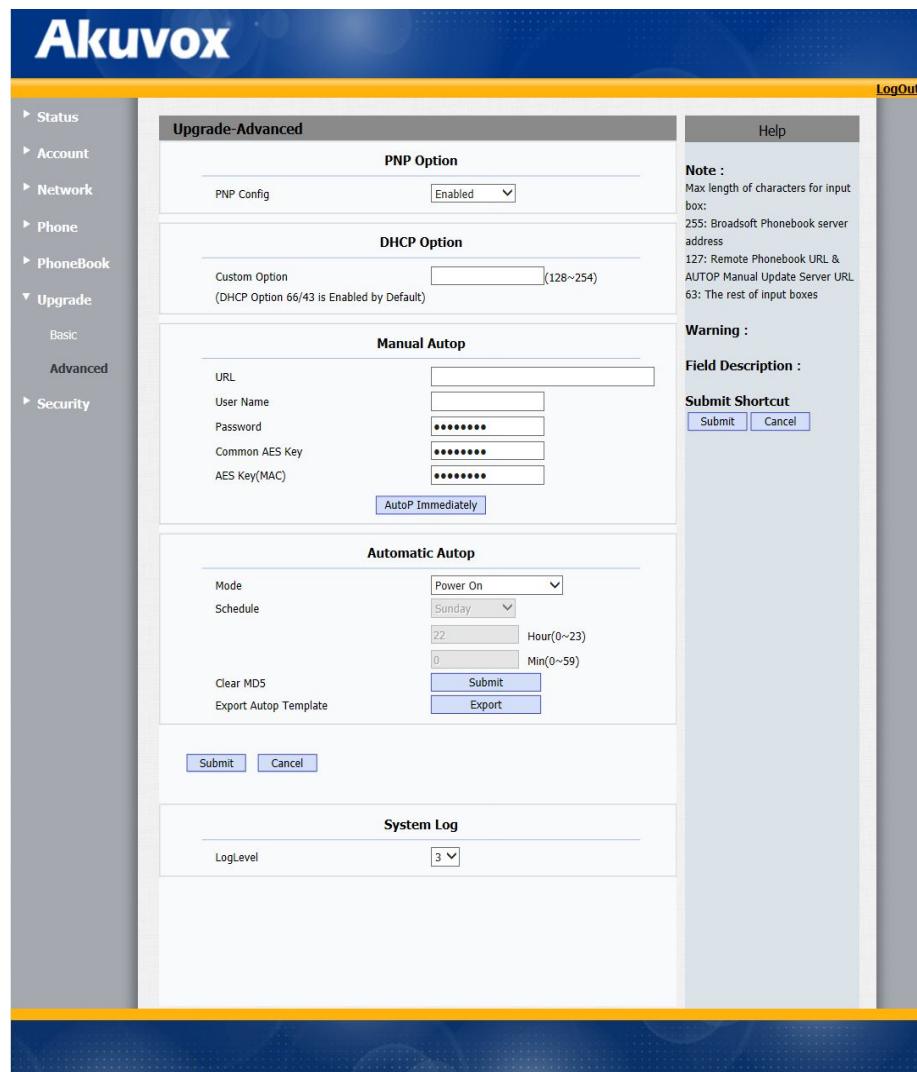
Max length of characters for input box:
255: Broadsoft Phonebook server address
127: Remote Phonebook URL & AUTOP Manual Update Server URL
63: The rest of input boxes
- Warning :**

Field Description :

Sections	Description
Upgrade	To select upgrading zip file from local side. Note: Please make sure it's right file format for right model.
Firmware version	To display firmware version, firmware version starts with MODEL name.
Hardware Version	To display Hardware version.

12.Upgrade-> Advanced

Go to the path: Web UI-> Upgrade-> Advanced



Sections	Description
PNP Option	To display and configure PNP setting for Auto Provisioning. <ul style="list-style-type: none"> ● PNP: Plug and Play, once PNP is enabled, the phone will send SIP subscription message to PNP server automatically to get Auto Provisioning server's address. By default, this SIP message is sent to multicast address 224.0.1.75(PNP server address by standard).
Manual Autop	To display and configure manual update server's settings. <ul style="list-style-type: none"> ● URL: Auto provisioning server address. ● User name: Configure if server needs an username to access, otherwise left blank. ● Password: Configure if server needs a password to access, otherwise left blank. ● Common AES Key: Used for IP phone to decipher common Auto Provisioning configuration file. ● AES Key(MAC): Used for IP phone to decipher MAC-oriented auto provisioning configuration file(for

	<p>example, file name could be 0c1105888888.cfg if IP phone's MAC address is 0c1105888888).</p> <p>Note: AES is one of many encryption, it should be configure only configure filed is ciphered with AES, otherwise left blank.</p>
Automatic AutoP	<p>To display and configure Auto Provisioning mode settings.</p> <p>This Auto Provisioning mode is actually self-explanatory.</p> <p>For example, mode "Power on" means IP phone will go to do Provisioning every time it powers on.</p>
System Log	<p>To display syslog level and export syslog file.</p> <ul style="list-style-type: none"> ● Syslog level: From level 0~7. The higher level means the more specific syslog is saved to a temporary file. By default, it's level 3.

13. Security-> Basic

Go to the path: Web UI-> Security-> Basic

The screenshot shows the Akuvox Web UI interface. At the top, there's a blue header bar with the 'Akuvox' logo on the left and a 'LogOut' button on the right. Below the header is a navigation menu on the left side with the following items:

- > Status
- > Account
- > Network
- > Phone
- > PhoneBook
- > Upgrade
- ▼ Security
- Basic

The main content area is titled 'Security-Basic' and contains a sub-section titled 'Web Password Modify'. This section has four input fields: 'User Name' (set to 'admin'), 'Current Password', 'New Password', and 'Confirm Password'. Below these fields are two buttons: 'Submit' and 'Cancel'. To the right of the form, there's a 'Help' panel with notes and warnings, and a 'Field Description' section with a 'Submit Shortcut' button.

Sections	Description
Web Password Modify	To modify user's password. <ul style="list-style-type: none">● Current Password: The current password you used.● New Password: Input new password you intend to use.● Confirm Password: Comfirm the new password. Note: For now, IP phone can only support user admin.

Troubleshooting

- Why the screen always black?

① Please check power connection.

② The door phone has entered “Blank Screen” standby mode, please touch screen to wake the door phone.

- Why can't hear voice during conversation?

① Please turn up the volume.

- Why the call fails?

① Please check your internet connection.

② Please check SIP registration detail.