# Akuvox

# **R27A Door Phone User Manual**

### **About This Manual**

Thank you for choosing Akuvox's products. In user manual, we provide all functions and configurations you want to know about R27A. Please verify the packaging content and network status before setting. This manual applies to firmware 26.0.2.170 or lower version.

Note:Theold firmware may be a little different from 27.0.2.170 about some configuration. Please consult your administrator for more information.



#### FCC Caution:

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. Overview

### 1.1. Product Description



**R27A** 

Akuvox R27A is a SIP-compliant, hands-free and video outdoor phone. It can be connected with your Akuvox IP Phone for remote unlock control and monitor. You can operate the indoor handset to communicate with visitors via voice and video, and unlock the door if you wish. Users can also use RF card to unlock the door( R27AC only). It's applicable in villas, office and so on.

#### 1.2. Features

### > Highlight

- Vandal resistant body, with a flush button
- Wild-angle camera:120°
- POE(IEEE802.3af, Power-over-Ethernet)
- Two-way audio communication over IP network with Echo cancel feature
- Complies with SIP Standard for easy integration in each SIP PBXes
- Complies with ONVIF standard for easy integration with any network surveillance system

### Physical&Power

- Body material: all-aluminum
- Camera: 3M pixels, automatic lighting
- Numeric keypad with extra buttons
- Infrared Sensor: Support
- Wiegand port: Support
- RF Card Reader:13.56MHz & 125kHz
- Output Relay: 3 output relays for door opener
- 802.3af Power-Over-Ethernet
- 12V DC connector(if not using POE)
- Water proof&Dust proof: IP65
- Installation: Flush-mounted & Wall-mounted
- Flush-mounted DIM:280x130x68mm
- Wall-mounted DIM:280x130x38mm

### > SIP Endpoint

• SIP v1(RFC2543), SIP v2(RFC3261)

• Audio codecs: G.711a, G.711 μ, G.722, G.729

Video codecs: H264

Speech Quality: 7kHz Audio

- Echo Cancellation
- Voice Activation Detection
- Comfort Noise Generator

### Video

- Resolution: up to 720p
- Maximum image transfer rate:720p-30pfs
- High intensity IR LEDs for picture lighting during dark hours with internal light sensor
- Compatible with 3<sup>rd</sup>.Party.Video components,e.g.NVRs.

### Door Entry Feature

- Relay control individually by DTMF tones
- Camera permanently operational
- White Balance: Auto
- Auto-night mode with LED illumination
- Minimum illumination: 0.1LUX

#### Network Features

• 1x10/100Mbps Ethernet Port

Protocols support: IPv4, HTTP, HTTPS, FTP, SNMP, DNS, NTP, RTSP, RTP, TCP, UDP,
 ICMP, DHCP, ARP

# 1.3. Keypad

Кеу	Description
10 2 3 43 5 6 77 8 9	Numeric Key
君	Manage Center Key
0	Dialing Key
C	Delete Key

# 2. Configuration

### 2.1. Administrator interface

Press \*2396# to enter administrator interface. Administrator interface provides some advanced permissions to administrators, including System Information, Admin Settings and System Settings.

### 2.1.1 System Information

Press 1 to enter System Information to check IP address, Mac address and Firmware version of the door phone.

### 2.1.2 Admin Settings

#### 2.1.2.1 Admin card setting

#### Add admin card

Enter Admin Card Setting interface, and press 1 to quick add admin card. When you see "Please Swipe Admin Card...", please place admin card in the RF card reader area. After the screen shows "An admin card is added +1", it means adding successfully.

#### Clean admin card data

Enter Admin Card Setting interface, press 2 to delete the current admin card. When you see "Please Swipe Admin Card....", and place the added admin card you want to delete in the RF card area. After the screen shows "An admin card is deleted", it means deleting successfully.

#### 2.1.2.2 Admin Code Setting

Admin code is used to enter administrator interface. The default code is 2396. Enter Admin Code Setting to input 4 digit new admin codes, click Dial key to save.

### 2.1.2.3 Service Code Setting

Service Code Setting is used to enter user interface. The default code is 3888. Enter service code setting to input 4 digit new user codes, and click Dial key to save.

### 2.1.3 System Setting

#### 2.1.3.1 Network settings

Enter System Setting interface, and press 1 to enter Network setting. Select DHCP mode, door phone will access network automatically. Choose Static mode, users need to setup IP address, subnet mask and default gateway. Press Dial key when you finish each step.

### 2.1.3.2 Station No. Settings

Users can setup the device ID to limit the unlock permissions.

(This function can not be used now. Akuvox will perfect it in next version)

#### 2.1.3.3 Restore default

Enter System setting, and press 3 to enter restore interface. After you sure to make the device restore to factory setting, you can swipe your admin card or enter admin code, then the device will restore.

### 2.2. User interface

Press \*3888# to enter user interface. User interface includes Public Pin Modif, Add User Cards and Add Private Pin. These functions can only be accessed by administrator.

#### 2.2.1 Public Pin Modif

The default public Pin is 33333333. Before you modify public Pin, users need to swipe admin card or enter admin code, then you can enter 8 digit new Public Pin, click Dial key to save.

#### 2.2.2 Add User Cards

User card is used to unlock. Before adding users card, users need to swipe admin card or enter admin code, then you will see "Please Swipe IC Card...", place user card in the RF card reader . Then the screen will show "Add IC Card +1", it means adding successfully.

#### 2.2.3 Add Private Pin

Users can also use private pin code to unlock. Before adding private pin , users need to swipe admin card or enter admin code. Then enter a 8 digit private pin, and click Dial key to save.

# 3. Basic Using

### 3.1. Make a call

In the idle interface, press the account or IP address + Dial key to make a call.

### 3.2. Receive a call

R27X will auto answer the incoming call by default. If users disable auto answer function, they can press dial key to answer the incoming call.

### 3.3. Unlock

**Unlock by Pin code:** Users can unlock the door by using predefined Public Pin or Private Pin. Press # + 8digit Pin Code + # to unlock, then you will hear "The door is now opened". If users input the wrong Pin code, the screen will show "Incorrect Code".

**Unlock by RF Card(Only R27A):** Place the predefined user card in RF card reader to unlock. Under normal conditions, the phone will announce "The door is now opened". If the card has not been registered, the phone will show "Unauthorized".

**Unlock by DTMF Code:** During the talking, the president can press the predefined DTMF code to remote unlock the door. ( Please refer to chapter 4.4.4 about DTMF code setting). Then you will also hear "The door is now opened".

# 4. Web

### 4.1. Obtain IP address

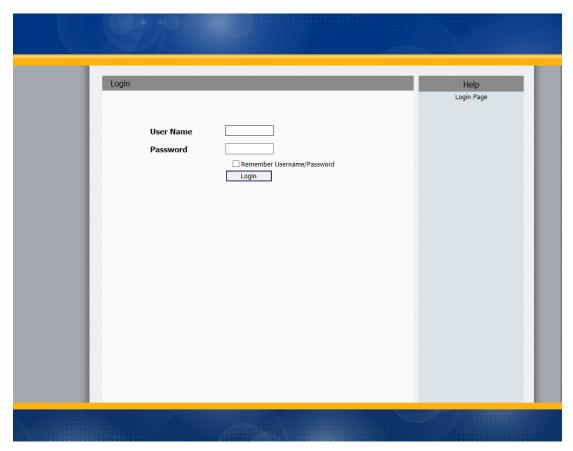
The Akuvox R27A use DHCP IP by default. Press \*2396# to enter Administrator interface. Enter System Information to check the phone IP address.

### 4.2. Login the web

Open a Web Browser, and enter the corresponding IP address. Then, type the default user name and password as below to log in:

User name: admin

Password: admin



### 4.3. Status

### 4.3.1 Basic

Status, including product information, network information and account information, can be viewed from Status -> Basic.

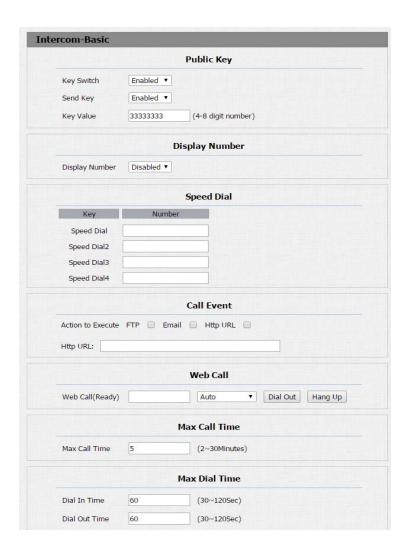
Pr	oduct Information
Model	R27-A
MAC Address	0C:11:05:05:63:AE
Firmware Version	27.0.2.170
Hardware Version	27.0.0.0.0.0.0
Ne	twork Information
LAN Port Type	Static IP
LAN Link Status	Connected
LAN IP Address	192.168.35.2
LAN Subnet Mask	255.255.255.0
LAN Gateway	192.168.35.1
LAN DNS1	192.168.35.1
LAN DNS2	8.8.8.8
Ac	count Information
Account1	1009@192.168.35.250
	Registered
Account2	None@None
	Disabled

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/PPPoE), Link Status, IP	
	Address, Subnet Mask, Gateway, Primary DNS server,	
	Secondary DNS server, Primary NTP server and Secondary	
	NTP server(NTP server is used to synchronize time from	
	INTERNET automatically).	
Account Information	To display device's Account information and Registration	
	status (account username, registered server's address,	
	Register result).	

### 4.4. Intercom

### 4.4.1 Basic

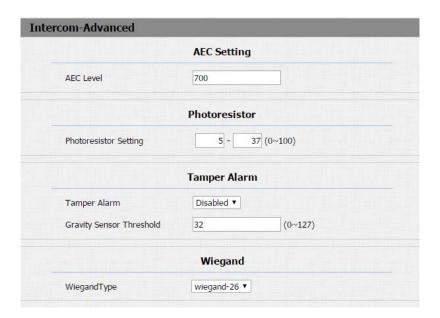
Go to the path: Intercom-Basic



Sections	Description	
Public Key	Public Key is used to unlock.	
	Key Switch: Users can disable or enable this function.	
	Key Value: The default public Key is 33333333. Users can	
	modify by yourself.	
Display Number	This function is used to hide or display the number when you	
	operate in the phone. If you select "Disabled", the phone will	
	show "*" when you dial.	
Speed Dial	This Feature is used to call out 4 numbers in the same time.	
	After setup the number you need to call, press manage	

	center key to call .	
Web Call	To dial out or answer the phone from website.	
Call Event	This feature is similar with the Input event. Once users make	
	a call , it will execute the action.	
	It supports 3 types - FTP, Email, and HTTP	
	To setup the FTP and Email in Action interface, the FTP server	
	and Email will receive the capture picture when call out. If	
	you choose HTTP mode, enter the URL format: http://http	
	server IP address/any information	
	(such as, http://192.168.35.48/mac=000 ).Then you will check	
	this information which captures the network packet.	
Max Call Time	To configure the max call time.	
Max Dial Time	Dial in Time: When other phone calls to R27A, if ring	
	tone is over the Dial in Time without answer. The call	
	will be hang up.	
	Dial out Time: When R27A call to the other party, if the	
	ringtone is over the Dial out Time without answer. R27A	
	will continue to call to no answer call number in order.	

### 4.4.2 Advanced



Sections	Description
AEC Level	AEC(Configurable Acoustic and Line Echo Cancelers) is used
	to adjust the echo effect during the communication. The
	default value is 700. Increase the level, the echo control is
	better.

Photoresistor	Photoresistor is used to sense the light intensity that R27A	
	will auto enable infrared LED. Users can adjust the	
	photosensitive value by yourselves.	
Tamper Alarm	Enable the Tamper Alarm, if the gravity of R27A changes, the	
	phone will alarm. The Threshold value is smaller, the faster	
	the reaction of device.	
Wiegand	Akuvox provides two Wiegand protocol. According to the	
	corresponding wiegand access device to choose the suitable	
	protocol.	

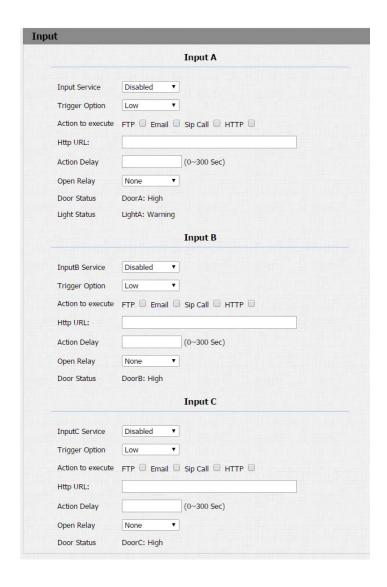
### 4.4.3 Relay



Sections	Description	
Private Key	Import or Export the Private Key template.	
Relay	To configure some settings about unlock	
	Relay Select: R27A support 3 relays	
	Relay Type: Different locks use different relay types, default	
	state or invert state. If you connect the Lock in NO	
	connector, select default state. Otherwise using invert	

	<ul> <li>state.</li> <li>Relay Delay(sec): Allows door remain "open" for certain period The range is from 1 to 10 seconds</li> <li>DTMF Option: R27A support 1、2、3、4 digits DTMF unlock code. Please select one type and enter the corresponding code.</li> <li>DTMF: Setup 1 digit DTMF code for remote unlock</li> <li>Multiple DTMF: Setup multiple digits DTMF code for remote unlock.</li> <li>Status: the status will be changed by the relay state.</li> </ul>
Open Relay via HTTP	Users can use a URL to remote unlock the door.  ■ Switch: Enable this function. Disable by default.  ■ Username & password: Users can setup the username and password for HTTP unlock. Null by default  URL format:http://192.168.1.102/fcgi/do?action=OpenDoor&  UserName=&Password=&DoorNum=1

### 4.4.4 Input



Sections	Description	
Input	Input function is used to open the door from inside.	
	Trigger Option: According to different lock connection to	
	choose different trigger mode. If users connect in normal	
	open contact, select low. If you choose High, please	
	connect in normal close contact.	
	Action to execute: Choose one or more ways to receive the	
	action message.	
	Http URL: If you tick Http URL, then enter the Http server	
	IP address in the HTTP URL area. When the Input is	
	triggered, it will send Http message. URL format:	
	http://http server IP address/any information (such as	
	http://192.168.35.48/mac=000 ). Then you will check this	

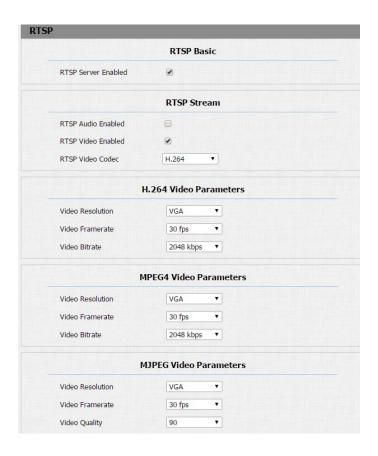
- information which captures the network packet.
- Action Delay: Setup the action delay time. After the delay time, the phone will send to the action information in the corresponding way.
- Open Relay: To choose a suitable relay for input connector.

### 4.4.5 Live Stream



Sections	Description
Live Stream	To check the real-time video from R27A.

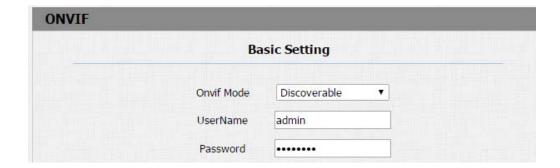
### 4.4.6 RTSP



Sections	Description
RTSP Basic	To active the RTSP function, then R27A can be monitored.
	RTSP stream format : rtsp:// device IP/live/ch00_0
RTSP Stream	To enable RTSP video and select the video codec. R27A
	supports H264 video codec.
H.264 Video Parameters	H264: A video stream compression standard. Different from
	H263, 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 H264
MPEG4 Video Parameters	MPEG4: It is one of the network video image Compression
	standard. It supports the maximum Compression ratio
	4000:1. It is an important and common video function with
	great communication application integration ability and less
	core program space.
	To modify the resolution, framerate and bitrate of MPEG4
MJPEG Video Parameters	MJPEG: called Motion Joint Photographic Experts Group. It is
	a video encoding format in which each image is compressed
	separately by JPEG. MJPEG compression can produce high

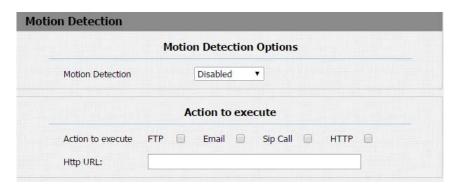
quality video image and has a flexible configuration in video definition and Compressed frames
To modify the resolution, framerate and bitrate of MJPEG

### **4.4.7 ONVIF**



Sections	Description
Basic Setting	To setup the ONVIF function parameters. It is used to connect
	with the corresponding ONVIF tool.
	● ONVIF Mode: Two modes - Discoverable and
	Non-discoverable. Discoverable by default. Only
	Discoverable mode, then Onvif software can search R27X
	User Name: To modify the user name you need. Admin
	by default.
	Password: To modify the password you want. Admin by
	default.
	<b>Note:</b> User name and password is used for authentication.

### 4.4.8 Motion



Sections	Description
<b>Motion Detection</b>	Motion detection is used to record the change of the
	surrounding environment.
	• Motion Detection Options: Enable to active this

	function.
•	Action to execute: Select a suitable way to receive the
	motion detection information. (FTP,EMAIL,SIP Call
	setting please refer to chapter 4.4.10)

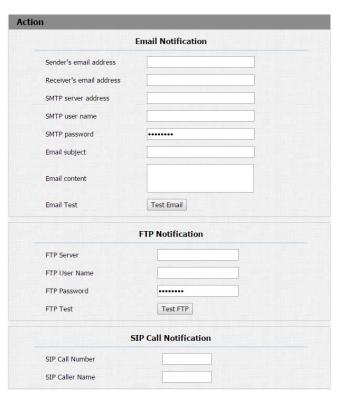
### 4.4.9 Card Setting(R27A only)



Sections	Description
Import/Export Card Data	To import or export the card data file. Only support .xml
	format.
Card Status	Normal: Choose Normal mode when reading card.
	Card Issuing: Choose Card Issuing mode when writing
	card.
Card Event	This feature is similar with the Input event. Once users use
	card to unlock, it will execute the action.
	It supports 3 types - FTP, Email, HTTP
	To setup the FTP and Email in Action interface, the FTP server
	and Email will receive the capture picture when unlocking. If
	you choose HTTP mode, enter the URL format: http://http
	server IP address/any information
	(such as http://192.168.35.48/mac=000 ).Then you will check

	this information which captures the network packet.
Card Setting	IC Key DoorNum: R27A can support to connect 3 relays
	Choose one and add the valid card for unlock.
	IC Key Day: To choose the valid day for the card you
	added.
	IC Key Time: Setup an accurate valid time for the card.
	IC Key Name: To setup corresponding name for the card.
	IC Key Code: Place the card in the R27A RF Card Read
	area, then click Obtain button. After R27A reads the card
	code, click Add, the card information will show in the
	Door Card Management list.
Door Card Management	Valid card information will show in the list. Users can tick the
	current card information then delete one or all in the list.

### 4.4.10 Action

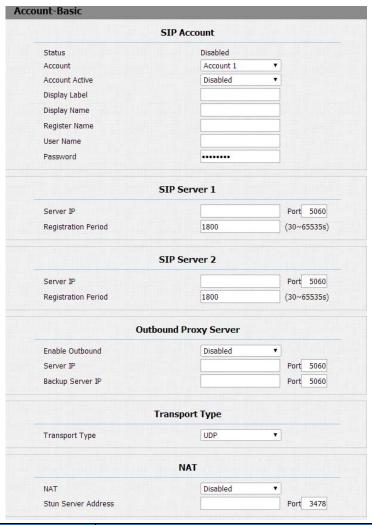


Sections	Description
<b>Email Notification</b>	Sender Email Address: Input the sender email address
	Receiver Email Address: Input the receiver email address
	SMTP Server Address: Enter the SMTP server format

	SMTP User name: Enter the SMTP
	SMTP password: Enter the sender email password
	Email Subject: Enter the subject name.
	Email content: Enter the content name.
	Email test: Click test to make sure the parameters you
	enter is right.
FTP Notification	FTP Server: Enter the FTP server address.
	• FTP User Name: Enter the FTP server user name.
	• FTP Password: Enter the corresponding FTP server
	password.
	• FTP test: Click test to make sure the parameters you
	enter is right.
SIP Call Notification	When you enable SIP Call function of motion. Enter the
	number and name in the corresponding area. When the
	motion is triggered, the device will call out the number
	automatically.

### 4.5. Account

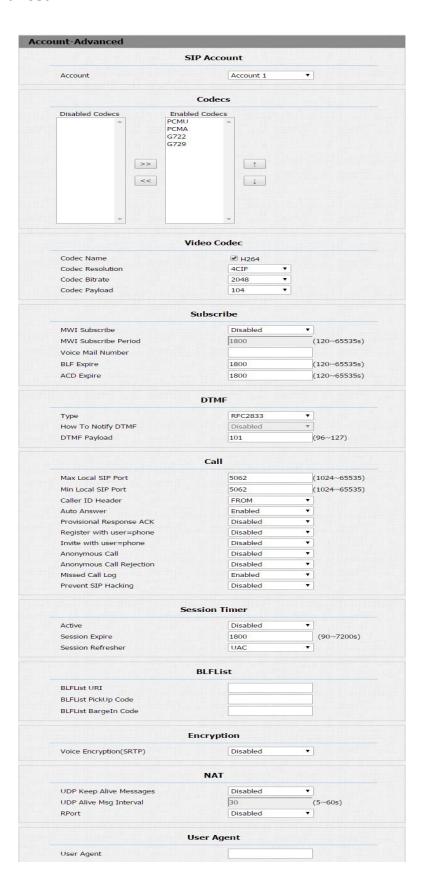
### 4.5.1 Basic



Sections	Description
SIP Account	To display and configure the specific Account settings.
	Status: To display register result.
	Display Name: Which is sent to the other call party for
	display.
	Register Name: Allocated by SIP server provider, used for
	authentication.
	User Name: Allocated by your SIP server provide, used
	for authentication.
	Password: Used for authorization.
SIP Server 1	To display and configure Primary SIP server settings.
	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.
CID Communication	
SIP Server 2	To display and configure Secondary SIP server settings.
	This is for redundancy, if registering to Primary SIP server
	fails, the IP phone will go to Secondary SIP server for
	registering.
	<b>Note</b> : Secondary SIP server is used for redundancy, it can be
	left blank if there is not redundancy SIP server in user's
	environment.
Outbound Proxy Server	To display and configure Outbound Proxy server settings.
	An outbound proxy server is used to receive all initiating
	request messages and route them to the designated SIP
	server.
	Note: If configured, all SIP request messages from the IP
	phone will be sent to the outbound proxy server forcefully.
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.
	<ul> <li>TLS: Secured and Reliable transport layer protocol.</li> </ul>
	<ul> <li>DNS-SRV: A DNS RR for specifying the location of</li> </ul>
	services.
NAT	To display and configure NAT(Net Address Translator)
	settings.
	<ul> <li>STUN: Short for Simple Traversal of UDP over NATS, a</li> </ul>
	solution to solve NAT issues.
	<b>Note</b> : By default, NAT is disabled.
	rece. by default, INAL is disabled.

### 4.5.2 Advanced



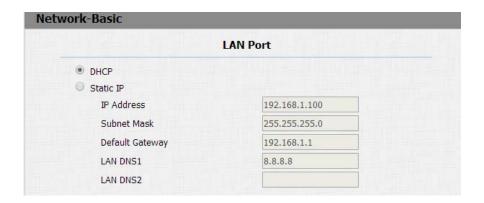
Sections	Description
SIP Account	To display current Account settings or to select which account
	to display.
Codecs	To display and configure available/unavailable codecs list.
	Codec means coder-decoder which is used to transfer analog
	signal to digital signal or vice versa.
	Familiar codecs are PCMU(G711U), PCMA(G711A), G722
	(wide-bandth codecs), G729 and so on.
Video Codec	To configure the video quality
	<ul> <li>Codec Name: The default video codec is H264.</li> </ul>
	<ul> <li>Codec Resolution: It can support QCIF, CIF, VGA, 4CIF, 720P.</li> </ul>
	<ul> <li>Codec Bitrate: The lowest bitrate is 128, the highest</li> </ul>
	bitrate is 2048.
	Codec payload: From 90-119.
Subscribe	To display and configure MWI, BLF, ACD subscription settings.
	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.
	• 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.
	<b>Note</b> : 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.
Call	To display and configure call-related features.
	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.
	User=phone: If enabled, IP phone will send user=phone
	within SIP message.
	PTime: Interval time between two consecutive RTP
	packets.
	Anonymous Call: If enabled, all outgoing call for the
	designated account will be anonymous number.
	Anonymous Call Rejection: If enabled, all incoming
	anonymous-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.
Seesien Times	Prevent SIP Hacking: Enable to prevent SIP from hacking.  To display as configure species times settings.
Session Timer	To display or configure session timer settings.
	• Active: To enable or disable this feature, if it is enabled,
	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: It is used to configure who should be
	responded for refreshing a session.
	Note: UAC means User Agent Client, here stands for IP
	phone. UAS means User Agent Server, here stands for SIP
	server.
BLF List	To display or configure BLF List URI address.
	BLF List URI: BLF List is short for Busy Lamp Field List.
	BLFList PickUp Code: To set the BLF pick up code.
	BLFList BargeIn Code : To set the BLF barge in code.
Encryption	To enable or disabled SRTP feature.
	Voice Encryption(SRTP): If enabled, all audio signal
	(technically speaking it's RTP streams) will be encrypted
	for more security.
NAT	To display NAT-related settings.
	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	One can customize User Agent field in the SIP message; if
	user agent is set to specific value, user can see the
	information from PCAP. If user agent is not set by default,
	users can see the company name, model number and
	firmware version from PCAP

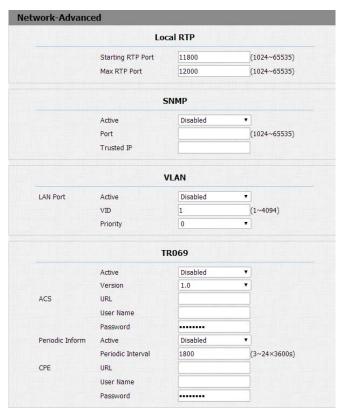
### 4.6. Network

### 4.6.1 Basic



Sections	Description
LAN Port	<ul> <li>To display and configure LAN Port settings.</li> <li>DHCP: If selected, IP phone will get IP address, Subnet Mask, Default Gateway and DNS server address from DHCP server automatically.</li> <li>Static IP: If selected, you have to set IP address, Subnet</li> </ul>
	Mask, Default Gateway and DNS server manually.

### 4.6.2 Advanced

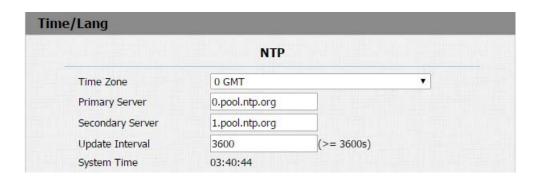


Sections	Description
Local RTP	To display and configure Local RTP settings.
	Max RTP Port: Determine the maximum port that RTP
	stream can use.
	Starting RTP Port: Determine the minimum port that RTP
	stream can use.
SNMP	To display and configure SNMP settings.
	Active: To enable or disable SNMP feature.
	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 (Simple Network Management Protocols) is
	Internet-standard protocol for managing devices on IP
	networks.
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.
	Note: Please consult your administrator for specific VLAN
	settings in your networking environment.

TR069	To display and configure TR069 settings.
	<ul> <li>Active: To enable or disable TR069 feature.</li> </ul>
	• Version: To select supported TR069 version (version 1.0
	or 1.1).
	• ACS/CPE: ACS is short for Auto configuration servers as
	server side, CPE is short for Customer-premise
	equipment as client side devices.
	<ul> <li>URL: To configure URL address for ACS or CPE.</li> </ul>
	User name: To configure username for ACS or CPE.
	Password: To configure Password for ACS or CPE.
	Periodic Inform: To enable periodically inform.
	Periodic Interval: To configure interval for periodic
	inform.
	Note: TR-069(Technical Report 069) is a technical
	specification entitled CPE WAN Management Protocol
	(CWMP).It defines an application layer protocol for remote
	management of end-user devices.

### **4.7. Phone**

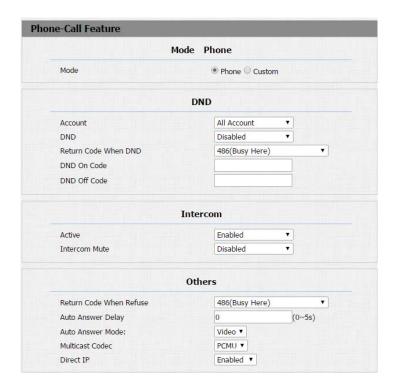
# 4.7.1 Time/Language



Sections	Description
NTP	To configure NTP server related settings.
	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.
	Note: NTP, Network Time Protocol is used to automatically

synchronized local time with INTERNET time, since NTP server only response GMT time, so that you need to specify the Time Zone for IP phone to decide the local time.

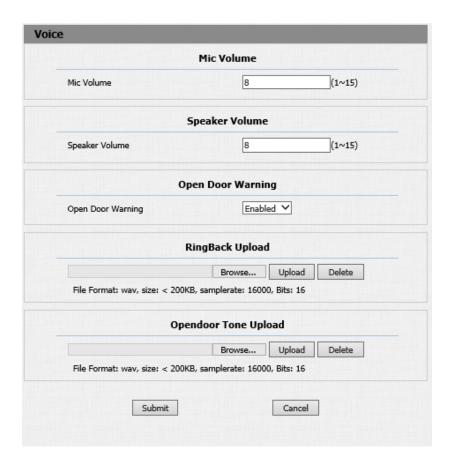
### 4.7.2 Call Feature



Sections	Description
Mode	Mode: Select the desired mode.
DND	DND (Do Not Disturb) allows IP 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 on.
	DND On Code: The Code is 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 is 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.
Intercom	Intercom allows users to establish a call directly with the
	callee.
	Active: To enable or disable Intercom feature.

	Intercom Mute: If enabled, once the call established, the
	callee will be muted.
Others	• 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.
	Auto Answer Mode: To set video or audio mode for auto
	answer by default.
	Direct IP: Direct IP call without SIP proxy.

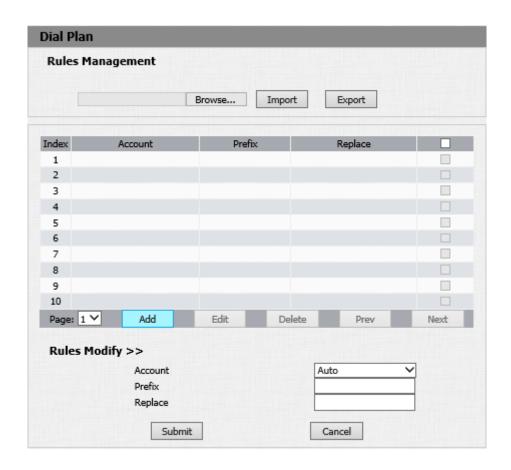
### 4.7.3 Voice



Sections	Description
Mic Volume	To configure Microphone volume, from 1-15. 8 by default.
Speaker Volume	To configure Speaker Volume, from 1-15,8 by default.
Open Door Warning	When the door is opened, users will hear that opendoor
	prompt voice. If you disable it, you won't hear the
	announcement.
RingBack Upload	During the calling, user will hear the ringback tone before the
	other party answer. User can upload the suitable RingBack

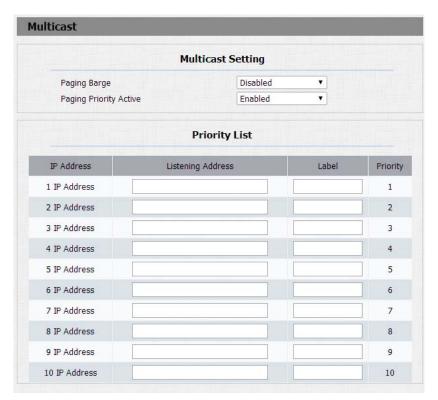
	Tone by yourselves. Please note the file format and size.
Opendoor Tone Upload	Choose a suitable opendoor warning tone to upload.
	Please not the file format and size.

### 4.7.4 Dial Plan



Sections	Description
Rules Management	For easy management, users can export and import the
	replace rule file directly. (The export file format is .tgz, users
	need to unzip it, then check the .XML file. The Import
	format is .XML)
Rules	Allow user to select Replace rule to display or edit.
Rules Modify	Allow user to modify selected rules information, for replace
	rule, you can modify related accounts, prefix and replace.
	Such as: Account:1
	Prefix: 100
	Replace: 110
	Then users dial 100 with account1, the phone will call out
	110 actually.

### 4.7.5 Multicast



Sections	Description
Multicast Setting	To display and configure the Multicast setting.
	Paging Barge: Choose the multicast number, the range
	is 1-10.
	Paging priority Active: Enable o disable the multicast.
Priority List	To setup the multicast parameters.
	Listening Address: Enter the IP address you need to
	listen.
	Label: Input the label for each listening address.

### 4.7.6 Call log



Sections	Description
Call History	To display call history records.
	Available call history types are All calls, Dialed calls, Received
	calls, Missed calls, Forwarded calls.
	Users can check the call history in detail. Tick the number to
	delete or delete all logs. R27A supports 100 call logs.

### **4.7.7 Door log**



Sections	Description
Door Log	To display unlock history. This interface can only show the RF
	card unlock history now.
	Users can check the unlock information in detail. Users can
	delete one or all logs. The maximum door log is 500.

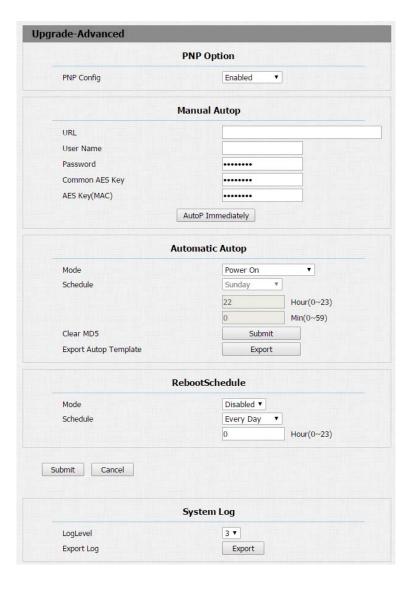
# 4.8. Upgrade

### 4.8.1 Basic



Upgrade	To select upgrading zip file from local or a remote server
	automatically.
	<b>Note:</b> 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.
Reset to Factory Setting	To enable you to reset IP phone's setting to factory settings.
Reboot	To reboot IP phone remotely from Web UI.

### 4.8.2 Advanced



Sections	Description
PNP Option	To display and configure PNP setting for Auto Provisioning.
	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.
	URL: Auto provisioning server address.
	User name: Configure if server needs a 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
	example, file name can be 0c1105888888.cfg if IP phone's
	MAC address is 0c1105888888).
	Note: AES is one of many encryption, it should be configure
	only configure file is ciphered with AES, otherwise left blank.
Automatic Autop	To display and configure Auto Provisioning mode settings.
	This Auto Provisioning mode is actually self-explanatory.
	For example, mode "Power on" means IP phone will go to do
	Provisioning every time when it powers on.
System Log	To display system log level and export system log file.
	• System log level: From level 0~7.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.

# 4.9. Security

### 4.9.1 Basic



Sections	Description
Web Password Modify	To modify user's password.
	Current Password: The current password you used.
	New Password: Input new password you intend to use.
	Confirm Password: Repeat the new password.