

R27X Door Phone User Manual

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About This Manual

Thank you for choosing Akuvox's products. In user manual, we provides all functions and configurations you want to know about R27X. Please verify the packaging content and network status before setting. This manual applies to firmware 27.0.2.170.

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1. Overview

1.1. Product Description



Akuvox R27X 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. User 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.711µ, 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 3rd.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
1 2 3 4 5 6 7 8 9 ☆ 0 #	Numeric Key
8	Manage Center Key
6	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, 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....", 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 is 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, click Dial key into save.

2.1.3 System Setting

2.1.3.1 Network settings

Enter System Setting interface ,press 1 to enter Network setting. Select DHCP mode , door phone will access network automatically. Choose Static mode, user 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

User 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 , press 3 to enter restore interface. After you sure to make the device restore to factory setting, swipe you 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 , 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 is to make a call.

3.2. Receive a call

R27X will auto answer the incoming call by default. If users disable auto answer function, 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 R27X 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, enter the corresponding IP address. Then, type the default user name and password as below to log in:

User name: admin

Password: admin

Login User Nan Password	e j _ Remember Username/Password _ Login	Help Login Page

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
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

		Public Key
Key Switch	Enabled 🔻	
Send Key	Enabled •	
Key Value	3333333	(4-8 digit number)
	Dis	splay Number
Display Number	Disabled 🔻	
		Speed Dial
Кеу	Number	
Speed Dial		
Speed Dial2		
Speed Dial3		
Speed Dial4		
		Call Event
Action to Execute	FTP 🔲 Email	Http URL
Http URL:		
Http URL:		Web Call
Http URL:		Web Call Auto
Http URL:	M	Web Call Auto Dial Out Hang Up lax Call Time
Http URL:	Б Б	Web Call Auto Dial Out Hang Up Ax Call Time (2~30Minutes)
Http URL:	5 M	Web Call Auto Dial Out Hang Up Aax Call Time (2~30Minutes) Aax Dial Time
Http URL:	5 60	Web Call Auto Dial Out Hang Up Auto (2~30Minutes) Ax Dial Time (30~1205ec)

Sections	Description
Public Key	Public Key is used to unlock.
	• Key Switch: User 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 disable, the phone will
	show "*" when you dial.
Speed Dial	This Feature is used t 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 user make a
	call , 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 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 capture the network packet.
Max Call Time	To configure the max call time.
Max Dial Time	• Dial in Time: When other phone calls to R27X, if ring
	tone is over the Dial in Time without answer. The call will
	be hang up.
	• Dial out Time: When R27X call to the other party, if the
	ringtone is over the Dial out Time without answer. R27X
	will continue to call to no answer call number in order.

4.4.2 Advanced

rcom-Advanced	
	AEC Setting
AEC Level	700
	Photoresistor
Photoresistor Setting	5 - 37 (0~100)
	Tamper Alarm
Tamper Alarm	Disabled V
Gravity Sensor Threshold	32 (0~127)
	Wiegand
WiegandType	wiegand-26 🔻

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 R27X		
	will auto enable infrared LED. Users can adjust the		
	photosensitive value by yourself.		
Tamper Alarm	Enable the Tamper Alarm, if the gravity of R27X 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

	Priv	ate Ke <mark>y(.</mark> xı	ml)		
选择文件 未选	择任何文件		[Import	Export
		Relay			
Relay ID	RelayA 🔻	RelayB	T	RelayC	•
Relay Type	Default state 🔻	Default sta	ate 🔻	Default stat	e 🔻
Relay Delay(sec)	3 🔹	3	¥	1	T
DTMF Option	1 Digit DTMF 🔻				
DTMF	0 •	0	Ŧ	0	T
Multiple DTMF					
Relay Status	RelayA: Low	RelayB: Lov	N	RelayC: Low	
	Open	Relay via H	нтр		
Switch	Disabled 🔻				
UserName					
Password					

Sections	Description
Private Key	 Import or Export the Private Key template.
Relay	To configure some settings about unlock
	 Relay Select: R27X 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
	state.
	• Relay Delay(sec): Allows door remain "open" for certain
	period The range is from 1 to 10 seconds
	• DTMF Option: R27X support 1、2、3、4 digits DTMF unlock

	code. Please select one type and enter the corresponding		
	code.		
	• DTMF: Setup 1 digit DTMF code for remote unlock		
	• Multiple DTMF : Setup multiple digits DTMF code for		
	remote unlock.		
	• Status: the status will be changed by the relay state.		
Open Relay via HTTP	User 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

		Input A
Input Sopico	Disabled	
	Disableu	
Trigger Option	Low	-
Action to execute	FTP 🗆 Email	Sip Call HTTP
Http URL:		
Action Delay		(0~300 Sec)
Open Relay	None	•
Door Status	DoorA: High	
Light Status	LightA: Warning	9
		Input B
InputB Service	Disabled	
Trigger Option	Low	•
Action to execute	FTP 🔲 Email	Sip Call HTTP
Http URL:		
Action Delay		(0~300 Sec)
Open Relay	None	•
Door Status	DoorB: High	
		Input C
InputC Service	Disabled	T
Trigger Option	Low	T
Action to execute	FTP Email	Sip Call C HTTP
Http URL:		
Action Delay		(0~300 Sec)
	2	

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 user 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 capture 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 R27X.

4.4.6 RTSP

	RTSP Basic	
RTSP Server Enabled	۲	
	RTSP Stream	
RTSP Audio Enabled	0	
RTSP Video Enabled		
RTSP Video Codec	H.264 V	
H	1.264 Video Parameters	
Video Resolution	VGA	
Video Framerate	30 fps 🔹	
Video Bitrate	2048 kbps 🔻	
м	IPEG4 Video Parameters	
Video Resolution	VGA	
Video Framerate	30 fps 🔹	
Video Bitrate	2048 kbps 🔻	
м	1JPEG Video Parameters	
Video Resolution	VGA	
Video Framerate	30 fps 🔻	
Video Quality	90 •	

Sections	Description
RTSP Basic	To active the RTSP function, then R27X can be monitored.
RTSP Stream	To enabled RTSP video and select the video codec. R27X
	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

ONVIF			
	Ba	sic Setting	
	Onvif Mode	Discoverable	
	UserName	admin	
	Password		

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.
	Note: User name and password is used for authentication.

4.4.8 Motion

	Moti	on Detec	tion	Options			
Motion Detection		Disabled	1	•			
		Action to	exe	cute			
Action to execute	FTP	Email		Sip Call		HTTP	
		- Contraction	-	oip cui	0		1

Sections		Descriptio	n		
Motion Detection	Motion detection is	used to re	cord the	e change	e of the
	surrounding environn	nent.			
	Motion Detection	Options:	Enable	to act	ive this

	function.
•	Action to execute: Select a suitable way to receive the
	motion detection information. (FTP,EMAIL,SIP Call
	setting please refer to chapter4.4.10)

4.4.9 Card Setting(R27A only)

	Import/Exp	ort Card Data(.xi	nl)
选择文件 未选择	¥任何文件	Import	Export
	C	ard Status	
Card Status	Normal 🔻	Apply	
	c	CardEvent	
Action to execute	FTP Email		
Http URL:			
	Ca	ard Setting	
IC Key Day IC Key Time	Mon Tue Fri Sat S HH T: MM	Wed Thur un Check All	T
IC Key Name IC Key Code	Door Ca	rd Management	Obtain
IC Key Name IC Key Code	Door Ca	ard Management	Obtain
IC Key Name IC Key Code Index	Door Ca	rd Management Code	Obtain
IC Key Name IC Key Code Index 1 2	Door Ca	ord Management Code	Obtain
IC Key Name IC Key Code Index 1 2 3	Door Ca	ord Management Code	Obtain Relay
IC Key Name IC Key Code Index 1 2 3 4	Door Ca	ord Management Code	Obtain Relay
IC Key Name IC Key Code Index 1 2 3 4 5	Door Ca	ord Management Code	Obtain Relay
IC Key Name IC Key Code Index 1 2 3 4 5 6	Door Ca	ord Management Code	Obtain
IC Key Name IC Key Code Index 1 2 3 4 5 6 7	Door Ca	ord Management Code	Obtain
IC Key Name IC Key Code Index 1 2 3 4 5 6 7 8	Door Ca	ord Management Code	Obtain
IC Key Name IC Key Code Index 1 2 3 4 5 6 7 8 9	Door Ca	Code	Obtain

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 user using
	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 capture the network packet.
Card Setting	• IC Key DoorNum: R27X 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 a 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

E	mail Notification	
Sender's email address		
Receiver's email address		
SMTP server address		
SMTP user name		
SMTP password	••••••	
Email subject		
Email content		
Email Test	Test Email	
	FTP Notification	
FTP Server		
FTP User Name		
FTP Password		
FTP Test	Test FTP	
SI	P Call Notification	
SIR Call Number		

Sections	Description
Email Notification	• 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

	SIP Account	
Status	Disabled	
Account	Account 1	•
Account Active	Disabled	•
Display Label		
Display Name Register Name		
Jser Name		
Password	•••••	
	SIP Server 1	
Server IP		Port 5060
Registration Period	1800	(30~65535s)
	SIP Server 2	
Server IP		Port 5060
Registration Period	1800	(30~65535s)
Outl	oound Proxy Server	
Enable Outbound	Disabled	•
Server IP		Port 5060
Backup Server IP		Port 5060
	Transport Type	
Fransport Type	UDP	•
	NAT	
JAT	Disabled	•]
Stup Sequer Address		Port 2479

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.
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.
	Note: 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 CID request massages from the ID
	Note: Il configured, all SIP request messages from the IP
	phone will be sent to the outbound proxy server forcefully.
Transport Type	phone will be sent to the outbound proxy server forcefully. To display and configure Transport type for SIP message
Transport Type	 Note: In configured, all SIP request messages from the IP phone will be sent to the outbound proxy server forcefully. To display and configure Transport type for SIP message UDP: UDP is an unreliable but very efficient transport
Transport Type	 Note: In configured, all SIP request messages from the IP phone will be sent to the outbound proxy server forcefully. To display and configure Transport type for SIP message UDP: UDP is an unreliable but very efficient transport layer protocol.
Transport Type	 Note: In configured, all SIP request messages from the IP phone will be sent to the outbound proxy server forcefully. 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.
Transport Type	 Note: In configured, all SIP request messages from the IP phone will be sent to the outbound proxy server forcefully. 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. TLS: Secured and Reliable transport layer protocol.
Transport Type	 Note: In configured, all SIP request messages from the IP phone will be sent to the outbound proxy server forcefully. 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. TLS: Secured and Reliable transport layer protocol. DNS-SRV: A DNS RR for specifying the location of
Transport Type	 Note: In configured, all SIP request messages from the IP phone will be sent to the outbound proxy server forcefully. 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. TLS: Secured and Reliable transport layer protocol. DNS-SRV: A DNS RR for specifying the location of services.
Transport Type	 Note: In configured, all SIP request messages from the IP phone will be sent to the outbound proxy server forcefully. 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. TLS: Secured and Reliable transport layer protocol. DNS-SRV: A DNS RR for specifying the location of services. To display and configure NAT(Net Address Translator)
Transport Type	 Note: In configured, all SIP request messages from the IP phone will be sent to the outbound proxy server forcefully. 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. TLS: Secured and Reliable transport layer protocol. DNS-SRV: A DNS RR for specifying the location of services. To display and configure NAT(Net Address Translator) settings.
Transport Type	 Note: In configured, all SIP request messages from the IP phone will be sent to the outbound proxy server forcefully. 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. TLS: Secured and Reliable transport layer protocol. DNS-SRV: A DNS RR for specifying the location of services. To display and configure NAT(Net Address Translator) settings. STUN: Short for Simple Traversal of UDP over NATS, a
Transport Type	 Note: In configured, all SIP request messages from the IP phone will be sent to the outbound proxy server forcefully. 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. TLS: Secured and Reliable transport layer protocol. DNS-SRV: A DNS RR for specifying the location of services. To display and configure NAT(Net Address Translator) settings. STUN: Short for Simple Traversal of UDP over NATS, a solution to solve NAT issues.

4.5.2 Advanced

SII	P Account			
Account	Account 1	•)	
	Codecs			
Disabled CodecsEnabled	I Codecs			
PCMU PCMA	-			
G722				
G729				
>>				
·				
Vic	leo Codec			
Codec Name	C H264			
Codec Resolution	4CIF	•		
Codec Bitrate	2048	•		
Codec Payload	104	•		
S	ubscribe			
MMI Subscribe	Directural		1	
MWI Subscribe Period	1800		(120~65535¢	
Voice Mail Number	1.000		(120 000000	
BLF Expire	1800		(120~65535s	
ACD Expire	1800		(120~65535s	
	DTMF			
Туре	RFC2833	•		
How To Notify DTMF	Disabled	٣		
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	•	1	
Provisional Response ACK	Disabled	•]	
Register with user=phone	Disabled	•		
Invite with user=phone	Disabled	•		
Anonymous Call	Disabled			
Missed Call Log	Enabled	•		
Prevent SIP Hacking	Disabled	•		
Ses	sion Timer			
Active	Disabled	•		
Session Expire	1800		(90~7200s)	
Session Refresher	UAC	•	J	
	BLFList			
BLFList URI				
BLFList PickUp Code				
BLFList BargeIn Code				
Er	cryption		1	
voice Encryption(SRTP)	Disabled	•	1	
	NAT			
	Disabled]	
UDP Keep Alive Messages	District		(5~60s)	
UDP Keep Alive Messages UDP Alive Msg Interval	30		(5~60s)	
UDP Keep Alive Messages UDP Alive Msg Interval RPort	30 Disabled	•	(5~60s)	

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
	• Codec Name: The default video codec is H264.
	• Codec Resolution: It can support QCIF, CIF, VGA, 4CIF,
	720P.
	• Codec Bitrate: The lowest bitrate is 128, the highest
	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
	How to notify DTMF: Only available when DTMF type is
	DTME Dayload: To configure havload type for DTME
	Driver Payload. To configure payload type for Driver.
	standard Type Inhand uses inhand frequency to indicate
	DTME 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.
	• Prevent SIP Hacking: Enable to prevent SIP from hacking.
Session Timer	To display or configure session timer settings.
	• Active: To enable or disable this feature, If enable, the
	on going 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.
	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	Io display NAT-related settings.
	 UDP Keep Alive message: If enabled, IP phone will send
	UDP keep-alive message periodically to router to keep
	NAI 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 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

4.6. Network

4.6.1 Basic

	I AN Port	
	Dutton	
DHCP		
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	
LAN DNS2		

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

4.6.2 Advanced

	Lo	cal RTP			
	Starting RTP Port	11800	(10	024~65535)	
	Max RTP Port	12000	(1)	024~65535)	
	5	SNMP			
	Active	Disabled	•		
	Port		(10	(1024~65535)	
	Trusted IP				
	,	VLAN			
LAN Port	Active	Disabled	•		
	VID	1	(1-	~4094)	
	Priority	0	•		
	Т	R069			
	Active	Disabled	•		
	Version	1.0	Ŧ		
ACS	URL				
	User Name				
	Password				
Periodic Inform	Active	Disabled	T		
	Periodic Interval	1800	(3-	~24×3600s)	
CPE	URL				
	User Name				

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.
	• 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, CPE is short for Customer-premise
	equipment as client side devices.
	• URL: To configure URL address for ACS or CPE.
	• User name: To configure username for ACS or CPE.
	• Password: To configure Password for ACS or CPE.
	• Periodic Inform: To enable periodically inform.
	• Periodic Interval: To configure interval for periodic
	inform.
	Note: TR-069(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

Time/Lang		
	NTP	
Time Zone	0 GMT	•
Primary Server	0.pool.ntp.org	
Secondary Server	1.pool.ntp.org	
Update Interval	3600	(>= 3600s)
System Time	03:40:44	

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 I	local	time	with	INTERNET	time,	since	NTP
server only res	spons	e GM	Г time	, so that yo	ou nee	d to sp	ecify
the Time Zone	for IP	phon	e to de	ecide the lo	cal tim	e.	

4.7.2 Call Feature

M	ode Phone
Mode	Phone O Custom
	DND
Account	All Account
DND	Disabled 🔹
Return Code When DND	486(Busy Here) 🔻
DND On Code	
DND Off Code	
	Intercom
	Intercom
Active	Enabled
Intercom Mute	Disabled
	Others
Return Code When Refuse	486(Busy Here) 🔻
Auto Answer Delay	0 (0~5s)
	Nidea *
Auto Answer Mode:	Video +
Auto Answer Mode: Multicast Codec	PCMU V

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 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.					
Intercom	Intercom allows user 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

	Mic Volume	
Mic Volume	8	(1~15)
Sp	eaker Volume	
Speaker Volume	8	(1~15)
Орег	n Door Warning	
Open Door Warning	Enabled T	
Rin	gBack Upload	
选择文件 未选择任何文件	Uplo	ad Delete
File Format: wav, size: < 200KB,	samplerate: 16000, Bits:	16
Openo	loor Tone Upload	

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 yourself. 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

Rules Man	agement				
选择:	文件 未选择任何	文件	Import	Export	
ndex	Account	Prefix		Replace	
1		11-111		, approved	
2					
3					
4					
5					
6					
7					
8					
9					
10					
Page: 1 🔻	Add	Edit	Delete	Prev	Next
Rules Moo	lify >> Account	Ear	Delete	luto	T Next
	Prefix				
	Replace				

Sections	Description
Rules Management	For easy management, users can export and import the
	replace rule file directly. (The export file format is .tgz, user
	need to unzip it, then check the .XML file. The Import
	format is .XML)
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.
	Such as: Account:1
	Prefix: 100
	Replace: 110
	Then user dial 100 with account1 , the phone will call out 110
	actually.

4.7.5 Multicast

	Multicast Setting		
Paging Barge	Disable	d V	
Paging Priority Activ	/e Enabled	•	
	Priority List		
IP Address	Listening Address	Label	Priorit
1 IP Address			1
2 IP Address			2
3 IP Address			3
4 IP Address			4
5 IP Address			5
6 IP Address			6
7 IP Address			7
8 IP Address			8
9 IP Address			9
			17

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

Call	Log						
Ca	ll History	,	All	•			
Index	Туре	Date	Time	Local Identity	Name	Number	
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
Page	e 1 V	Prev	N	lext	Delete	Delete All	

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. R27X supports 100 call logs.

4.7.7 Door log

Door Log Index Name Code Date Time 1						
Index Name Code Date Time 1 Image: Code Date Time 2 Image: Code Date Time 3 Image: Code Image: Code Image: Code 3 Image: Code Image: Code Image: Code Image: Code 3 Image: Code Image: Cod			Do	or Log		
1	Index	Name	Code	Date	Time	
2	1					
3	2					
4 4 5 5 6 5 7 5 8 5 9 5 10 5 11 5 12 5 13 5 14 5	3					
5	4					
6 7 7 7 8 7 9 7 10 7 11 7 12 7 13 7 14 7	5					
7	6					
8 9 9 9 10 11 12 13 14 14	7					
9 10 10 11 12 13 14 14	8					
10 11 12 13 14	9					
11 12 13 14	10					
12 13 14	11					
13 14	12					
14	13					
	14					
15	15					

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. User can
	delete one or all logs. The maximum door log is 500.

4.8. Upgrade

4.8.1 Basic

de-Basic	
Firmware Version	27.0.2.170
Hardware Version	27.0.0.0.0.0.0
Upgrade	选择文件 未选择任何文件
	Submit Cancel
Reset To Factory Setting	Submit
Reboot	Submit

Sections	Description
Upgrade	To select upgrading zip file from local or a remote server

	automatically.
	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.
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

Enabled	T
Autop	T Hour(0~23)
Autop Power On Sunday v 22 0	T Hour(0~23)
Autop Power On Sunday * 22 0	T Hour(0~23)
Autop Power On Sunday 22 0	▼ Hour(0~23)
Autop Power On Sunday ¥ 22 0	▼ Hour(0~23)
Autop Power On Sunday ¥ 22 0	• Hour(0~23)
Autop Power On Sunday ¥ 22 0	• Hour(0~23)
Autop Power On Sunday ¥ 22 0	• Hour(0~23)
Power On Sunday • 22 0	• Hour(0~23)
Sunday v 22 0	Hour(0~23)
22 0	Hour(0~23)
0	
	Min(0~59)
Submit	
Export	
nedule	
Disabled T	
Every Day	
0	Hour(0~23)
Log	
	bedule Disabled V Every Day V 0

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 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
	example, file name could be 0c11058888888.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 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

Security-Basic	
We	eb Password Modify
User Name	admin 🔻
Current Password	
New Password	
Confirm Password	

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.