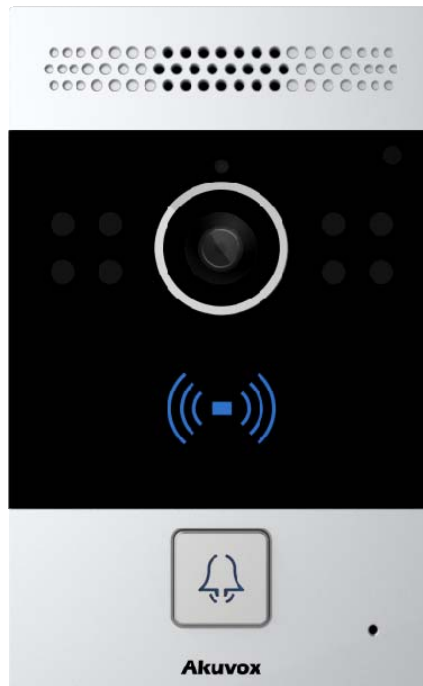




R20A Door Phone User Manual



About this manual

Thank you for choosing Akuvox's R20A door phone. This manual is intended for end users, who need to use and configure the door phone. It provides an overview of the most essential functions and features of the product, whose firmware version is 20.0.1.102.

FCC Warning

Any Changes expressly or modifications not 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.

Contact us

For more information about the product, please visit us at www.akuvox.com or feel free to contact us by

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We highly appreciate your feedback about our products.

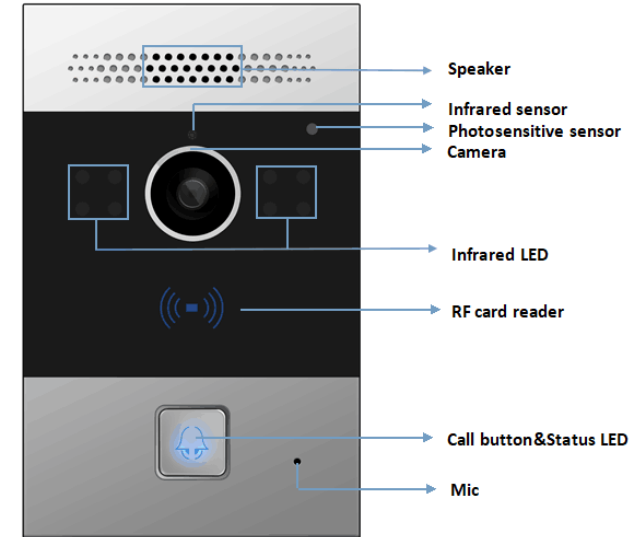
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1. Product Overview

1.1 Product Description

Akuvox R20A is a SIP-compliant, hands-free one button video outdoor phone. It can be connected with your Akuvox IP Phone for remote unlock control and monitor. Users can operate the indoor phone to communicate with visitors via voice and video, and use RF card to unlock the door. It's applicable in villas, office and so on



1.2 Connector Introduction

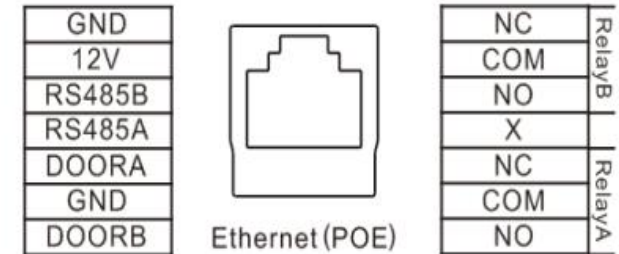
Ethernet(POE): Ethernet(POE) connector which can provide both power and network connection.

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

RS485A/B: RS485 terminal.

DOORA/B: Trigger signal input terminal.

RelayA/B (NO/NC): Relay control terminal.



Note: 12V/1A dc from LPS (power cord ≤ 3m) or POE.

2. Daily Use

2.1 Making a Call

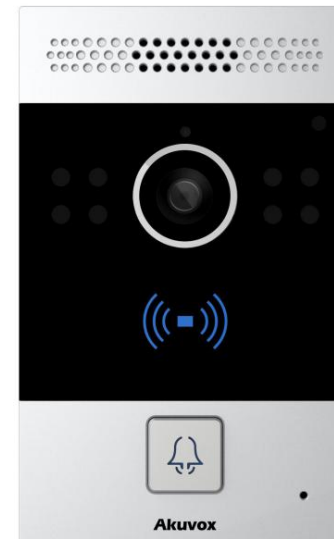
Press the call button to call out the predefined number or IP address and if LED turns green, it means the call has been answered.

2.2 Receiving a Call

User can use IP phone or indoor monitor to call R20A and R20A will answer it automatically by default. If user disable auto answer, pressing button to answer incoming call.

2.3 Unlock by RF Card

Place the predefined RF card on the card sensor area. The door phone will announce 'the door is now opened' and open the door. 13.56MHz and 125KHz RF card is supported by R20A.



3. Configuration

3.1 Web Login

3.1.1. Obtaining IP Address

The Akuvox R20A uses DHCP IP address by default. If IP address is unknown, press and hold call button for a short period of time(about 5s) after LED light turns blue, R20A will announce its IP continuously. Press once again to stop.

3.1.2. Access the Device Website

Open a Web Browser, access the corresponding IP address. Then, enter the default user name and password to login. The default administrator User Name and Password are shown below:

User name: **admin**

Password: **admin**

Login

User Name

Password

Remember Username/Password

3.2 Basic Setting

3.2.1 Time/Lang

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

3.2.2 Voice

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

- (1)**Mic Volume:** To configure Microphone volume.
- (2)**Speaker Volume:** To configure Speaker volume.
- (3)**Open Door Warning:** Disable it, you will not hear the prompt voice when the door is opened.
- (4)**IP Announcement:** To setup the IP Announcement active time. Over the configured value, the phone will not announce its IP address, even you hold the button.
- (5)**RingBack Upload:** To upload the ring back tone you need.
- (6)**Opendoor Tone Upload:** To upload the Opendoor tone you need.

The screenshot shows the 'Time/Lang' configuration page with the 'NTP' section. The 'Time Zone' is set to '0 GMT'. The 'Primary Server' is '0.pool.ntp.org' and the 'Secondary Server' is '1.pool.ntp.org'. The 'Update Interval' is '3600' seconds, with a note '(>= 3600s)'. The 'System Time' is '08:31:52'. There are 'Submit' and 'Cancel' buttons at the bottom.

The screenshot shows the 'Voice' configuration page with several sections: 'Mic Volume' (8, range 1~15), 'Speaker Volume' (8, range 1~15), 'Open Door Warning' (Enabled), 'IP Announcement' (0, range 0~180), 'RingBack Upload' (with Search, Upload, and Delete buttons), and 'Opendoor Tone Upload' (with Search, Upload, and Delete buttons). A file format note at the bottom of the RingBack Upload section reads: 'File Format: wav, size: < 200KB, samplerate: 16000, Bits: 16'.

3.3 IP Address Setting

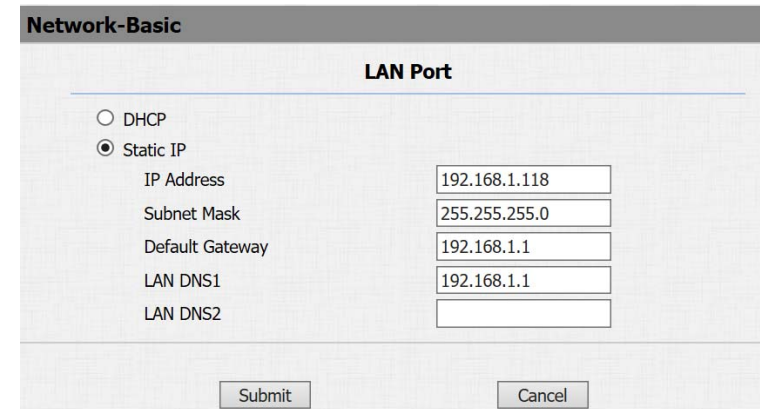
Go to Network->Basic, dynamically or statically to obtain IP address.

3.3.1 DHCP

R20A uses DHCP by default, it will get IP address, Subnet Mask, Default Gateway and DNS server address from DHCP server automatically.

3.3.2 Static IP

If selected, you could manually set IP address, Subnet Mask, Default Gateway and DNS server.



The screenshot shows a configuration window titled "Network-Basic" with a sub-section "LAN Port". It features two radio buttons: "DHCP" (unselected) and "Static IP" (selected). Below the "Static IP" option, there are five input fields for network configuration:

Field	Value
IP Address	192.168.1.118
Subnet Mask	255.255.255.0
Default Gateway	192.168.1.1
LAN DNS1	192.168.1.1
LAN DNS2	

At the bottom of the window, there are two buttons: "Submit" and "Cancel".

3.4 Call Setting

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

3.4.1 No Answer Call

Enable it, if there is no answer from push button number over 60s (default value), R20A will call predefined 'No Answer Call' number.

3.4.2 Push Button

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

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

The screenshot displays the 'Intercom-Basic' configuration page. It is divided into two main sections: 'Basic' and 'Push Button'.

Basic Section:

- 'Select Account' is set to 'Auto' (dropdown menu).
- 'No Answer Call' is set to 'Disabled' (dropdown menu).

Push Button Section:

Key	Number
Push Button	192.168.35.57
No Answer Call1	
No Answer Call2	

3.5 Card Setting

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

3.5.1 Import/Export Card Data

R20A supports import or Export the card data file, which is convenient for administrator to deal with a large number of cards.

3.5.2 Obtain and Add Card

- ① Switch card status to 'Card Issuing' and click 'Apply';
- ② Place card on the card reader area and click 'Obtain';
- ③ Name card and choose which door you want to open;
- ④ Click 'Add' to add it into list.

3.5.3 Door card Management

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

The screenshot shows the 'Card Setting' interface. It has three main sections: 'Import/Export Card Data(.xml)' with a search bar and 'Import'/'Export' buttons; 'Card Status' with a dropdown menu set to 'Card Issuing' and an 'Apply' button; and 'Card Setting' with fields for 'IC Key DoorNum' (set to 1), 'IC Key Name', and 'IC Key Code', along with 'Obtain' and 'Add' buttons.

The screenshot shows the 'Door Card Management' table. It has five columns: 'Index', 'Name', 'Code', 'Door', and a checkbox. The table contains 10 rows, all of which are currently empty. Below the table are navigation buttons: 'Page 1', 'Prev', 'Next', 'Delete', and 'Delete All'.

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