

Unpacking

Before you begin using the device, please check the version you obtained and ensure that the following items are included in the shipped box:

Universal Accessories:



R20A x 1



Back cover x 1



M2.5x6 screw x 6



Rope x 1



Cable locking plate x 1



Rubber Plug x 3 (S,M,L)



Diode x 2

Wall-mounting Accessories :



ST4x20 screw x 4



M4x30 screw x 2



Allen screw x 2



Allen Wrench x 1



Plastic Wall Anchor x 4

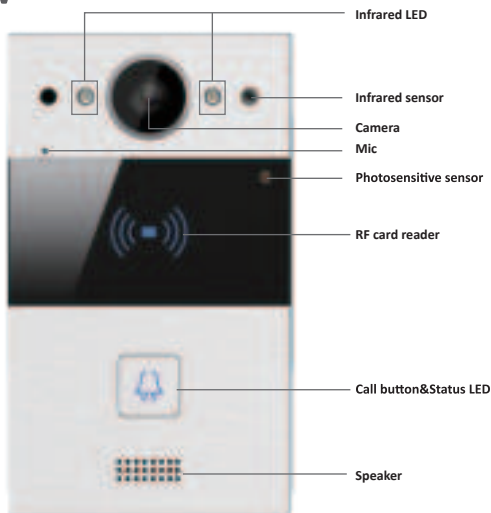


Wall-mounting screw x 4



Wall-mounting bracket x 1

Product Overview



R20A

Installation Environment

Indoor and outdoor installation are supported.

If installing the device outdoors, please don't place device under direct sunlight, it will bring a bad effect or be broken with the high temperature.

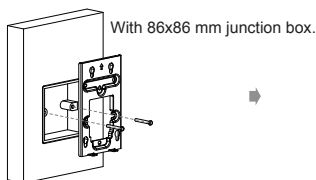
If installing the device indoors, please keep device at least 2 meters away from light, and at least 3 meters away from window and door.



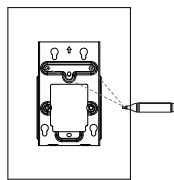
Installation

Step 1: Wall-mounting bracket Installation

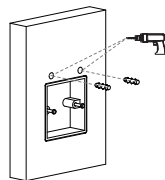
1. With embedded one-gang junction box (86x86 mm or 2x3 inches in size) in the wall.



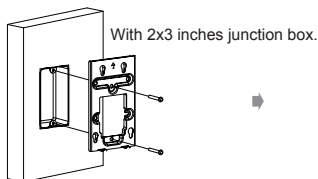
Fix the wall-mounting bracket on embedded box with two M4x30 screws.



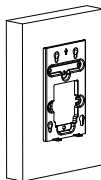
Mark the two holes of the wall-mounting bracket on the wall.



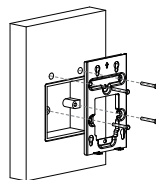
Remove the bracket to drill (5 mm drill bit required) the two marked fixing holes on the wall with a depth of 25 mm. Then insert two plastic wall anchors.



Fix the wall-mounting bracket on the 2x3 inches junction box with two M4x30 screws.

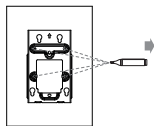


Finish the wall-mounting bracket installation.

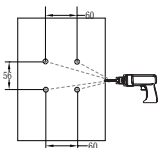


Tighten the wall-mounting bracket on the wall and junction box using two ST4x20 screws and two M4x30 screws.

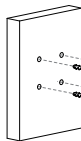
Without 86 embedded box in the wall



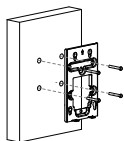
Mark the four holes of the wall-mounting bracket on the wall for the screws.



Use a hand drill with 5mm diameter bit to make four 25mm depth holes in the marked positions.

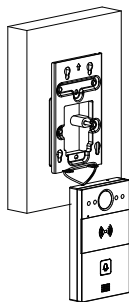


Insert four plastic wall anchors into the holes.

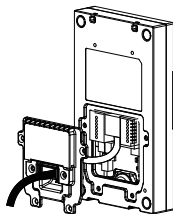


Fix the wall-mounting bracket with four ST4x20 screws.

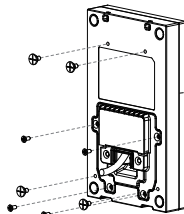
Step 2: Back cover Installation



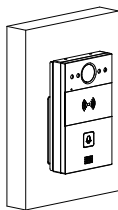
For convenient wiring, hang R20A on the wall-mounting bracket with rope.



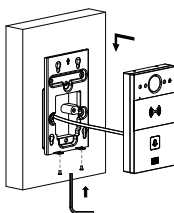
Make cables go through the back cover, connecting to the corresponding interfaces of the main board.



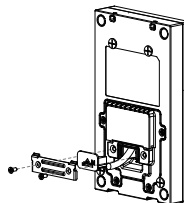
Fasten the back cover with four M2.5x6 screws, then fix four wall-mounting screws on the back of R20A.



After successful installation, check the stability of device.

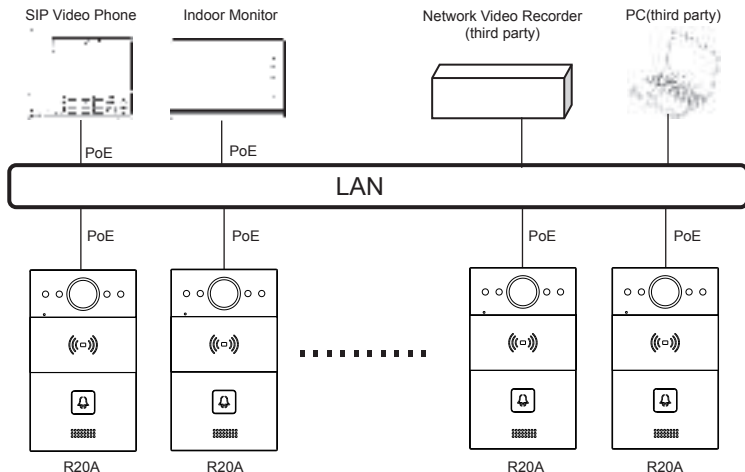


Insert the four wall-mounting screws on the device into the corresponding holes on the wall-mounting bracket, and then press down to slide the wall-mounting screws into the groove. Then use the Allen Wrench to tighten the device with two Allen screws.



Select a suitable size rubber plug to push all the cables into the back cover. Fix cable locking plate to the back cover with two M2.5x6 screws.

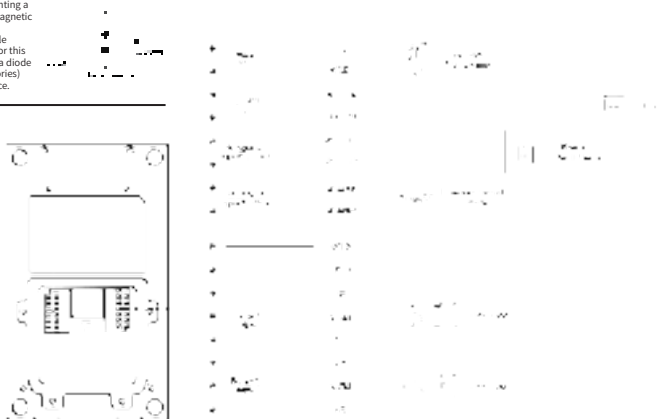
Application Network Topology



Device Wiring

⚠ Warning

When you connect a device containing a coil, such as a relay or an electromagnetic lock, it is necessary to protect the intercom against voltage peak while switching off the induction load. For this way of protection we recommend a diode 1 A / 200 V (included in the accessories) connected antiparallel to the device.



IP Announcement

1. While R20A starts up normally, hold the call button for several seconds after the Status LED turns blue, voice system will enter IP announcement mode.
2. In announcement mode, the IP address will be announced periodically.
3. Press Call Button again to quit the announcement mode.
4. In announcement mode, phone announces "IP 0.0.0.0" if no IP address is gained.

Configuration

1. Access the Web UI: Input the IP address into web browser to configure the phone.
2. Account Registration: On web UI, go to the path: **Account -> Basic** page to register account and fill in the account information. (*Please refer to admin guide for more information*)
3. Configure the Push Button: On web UI, go to the path: **Intercom -> Basic -> Push Button** to configure the call number.
4. Configure the code to open the relay: On web UI, go to the path: **Intercom -> Relay -> Relay ID/DTMF** and choose the DTMF code number in corresponding area.

Operation

Make a call:

1. Press the call button to call indoor SIP Phone.
2. During the talk, called party can press pre-configured code number to unlock the door.

Receive a call:

R20A supports Auto Answer by default. Incoming call will be answered automatically.

Indicators

 Light ON  Light OFF

Name	Status	Description
Status indicator	Blue	 Normal status
		 0.25sec →  0.25sec
	Red	 0.05sec →  0.05sec
		 0.25sec →  0.25sec
	Green	 Initialing/Talking on a call
		 0.25sec →  0.25sec
	Red/Blue	 0.05sec →  0.05sec

Note: For more LED settings, please refer to R20 webUI: Intercom -> LED Setting.

Notice Information

Akuvox R20A firmware contains third-party open source software under the terms of the GNU General Public License (GPL). Akuvox is committed to meeting the requirements of the GNU General Public License (GPL) and will make all required source code available.

The source code of software under the terms of GNU GPL can be downloaded online: <http://www.akuvox.com/gpl>.

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