Installation
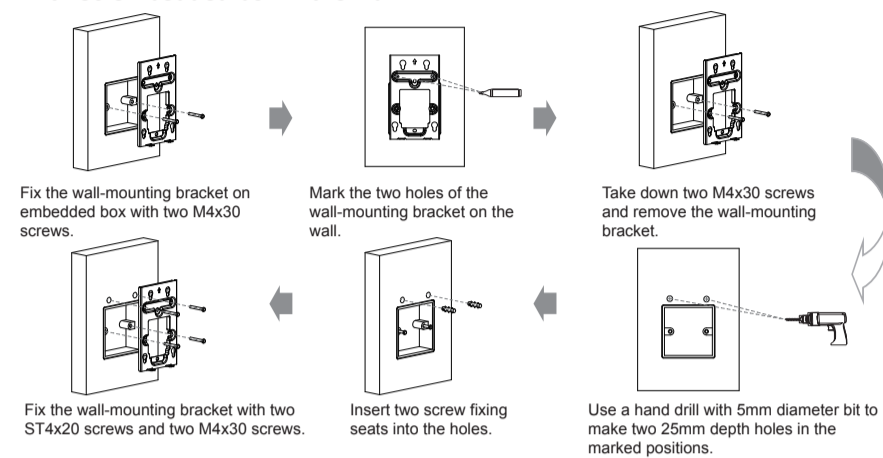### Step 1: Bracket/Box Installation
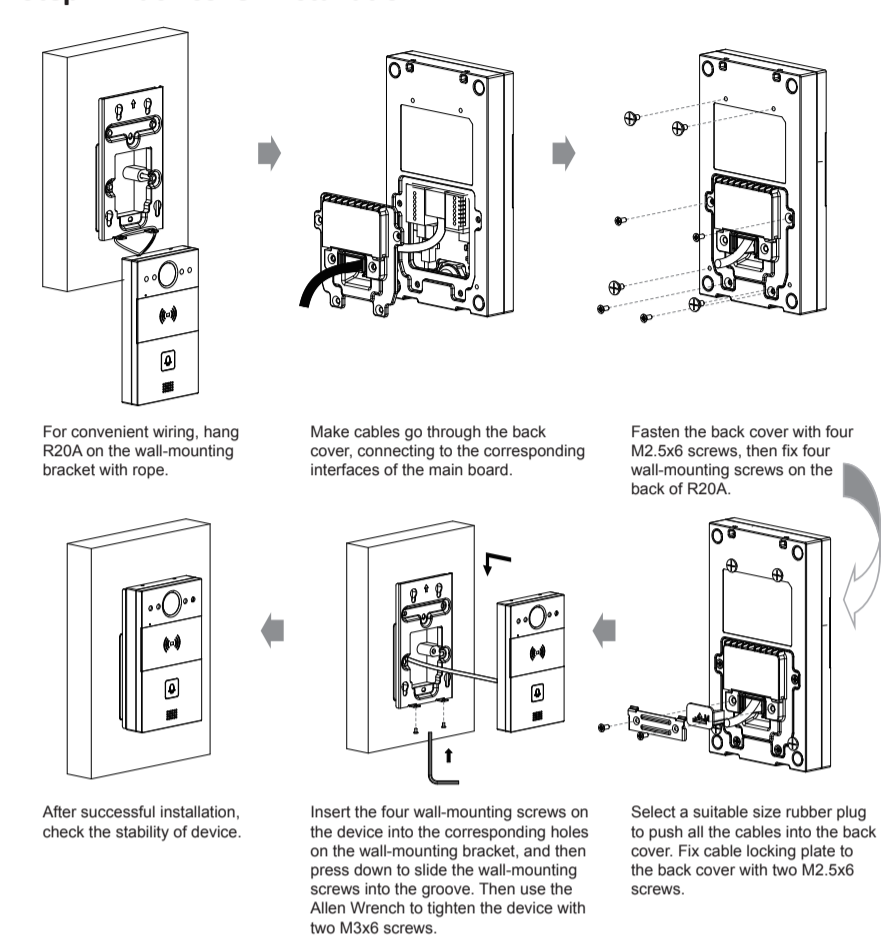**Wall Mounting**
With 86 embedded box in the wall

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

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

Take down two M4x30 screws and remove the wall-mounting bracket.

Fix the wall-mounting bracket with two ST4x20 screws and two M4x30 screws.

Insert two screw fixing seats into the holes.

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

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.

Fix the wall-mounting bracket with four ST4x20 screws.

Insert four screw fixing seats into the holes.
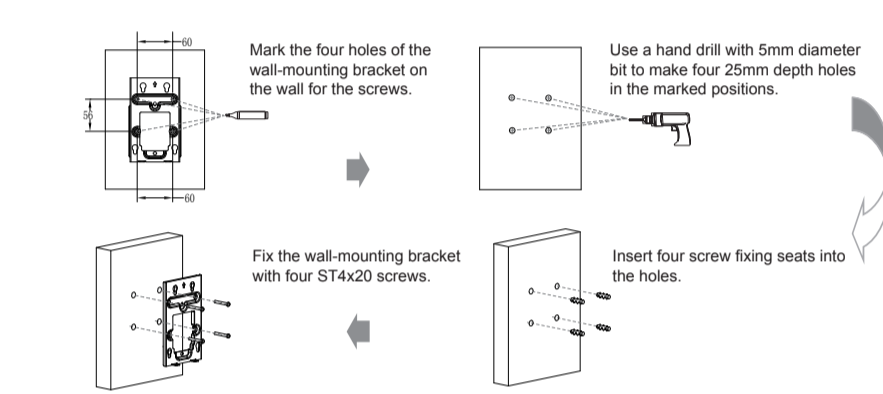
Step 2: Back cover Installation

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 M3x6 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

SIP Video Phone · Indoor Monitor · Network Video Recorder (third party) · PC(third party)

PoE · PoE · LAN · PoE · PoE · PoE · PoE

R20A · R20A · R20A · R20A
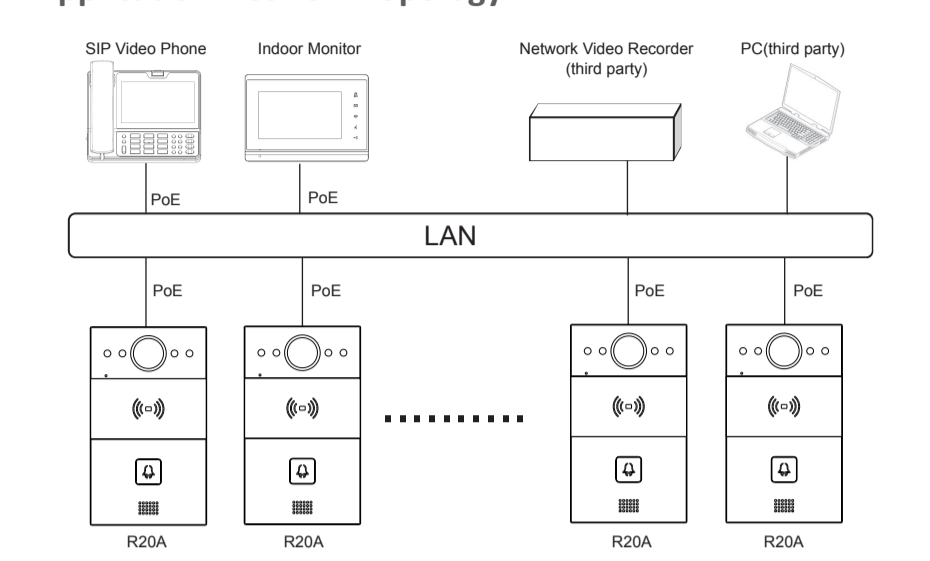
IP Announcement

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 Register Account and fill in the account information. *(Please refer to user manual 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	Calling
	Red	◯ 0.05sec → ◯ 0.05sec	Restarting
		◯ 0.25sec → ◯ 0.25sec	Network is unavailable
	Green	◯	Initialing/Talking on a call
		◯ 0.25sec → ◯ 0.25sec	Receiving a call
	Red/Blue	◯ 0.05sec → ◯ 0.05sec	Firmware upgrading

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.

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YS20000046

Unpacking

Please make sure the package contains the following items:
Universal Accessories:

R20A x 1 · Back cover x 1 · M2.5x6 screw x 6
ST4x20 screw x 4 · Screw fixing seat x 4 · Rope x 1
Allen Wrench x 1 · Cable locking plate x 1 · M3x6 screw x 2
M4x30 screw x 2 · Wall-mounting bracket x 1
Rubber Plug x 3 （S,M,L） · Wall-mounting screw x 4

Product Overview

- Infrared LED
- Infrared sensor
- Camera
- Mic
- Photosensitive sensor
- RF card reader
- Call button&Status LED
- Speaker

R20A