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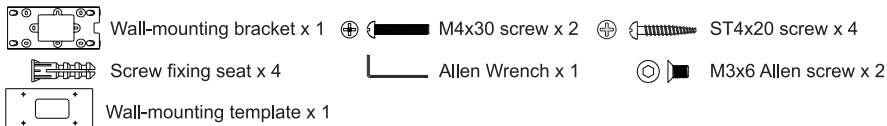
Before you begin using the device, please check the version you got and ensure that the following items are included in the shipped box:

Universal Accessories:

R20K x 1

Back cover x 1

Cable locking plate x 1

Rope x 1

Rubber Plug x 3 （S,M,L）

M2.5x6 screw x 6

Wall-mounting Accessories :

Wall-mounting bracket x 1

M4x30 screw x 2

ST4x20 screw x 4

Screw fixing seat x 4

Allen Wrench x 1

M3x6 Allen screw x 2

Wall-mounting template x 1

Product Overview

Infrared LED

Infrared sensor

Camera

Photosensitive sensor

RF card reader

Keypad

Manager dial key

Cancel key

Dial Key & Speed dial key

Status LED

Speaker

R20K
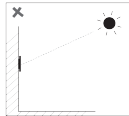
Installation Environment

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.
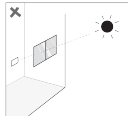If installing the device indoors, please keep device at least 2 meters away from light, and at least 3 meters away from window and door .
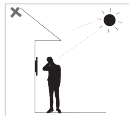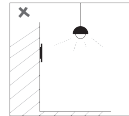
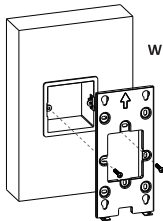| Backlight	Direct sunlight	Direct sun through window	Indirect sunlight through window	Close to light

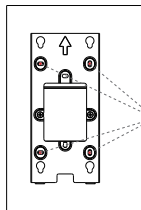## Wall-mounting Installation
Step1: Wall-mounting Bracket Installation
1.With embedded one-gang junction box(86x86 mm or 2x3 inches in size) in the wall.
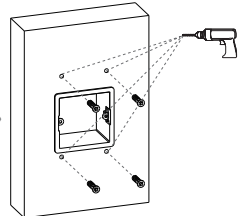
With 86x86 mm junction box.

Fix the wall-mounting bracket on 86x86 mm junction box with two M4x30 screws.
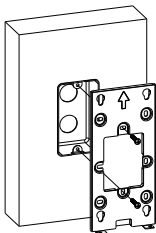
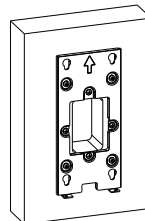Mark the four holes of the wall-mounting bracket on the wall.

Use a hand drill with 5 mm diameter bit to drill four screw holes with a depth of 25 mm at the marked positions. Then insert four screw fixing seats into the holes.
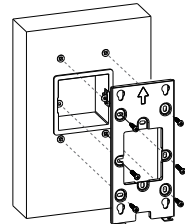
or

With 2x3 inches junction box

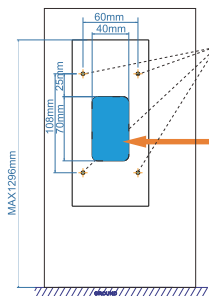Fix the wall-mounting bracket to the 2x3 inches junction box with two M4x30 screws.

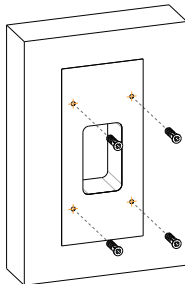Finish the wall-mounting bracket installation.

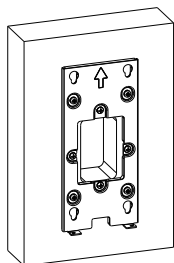Fix the wall-mounting bracket with two M4x30 screws screws and four ST4x20.
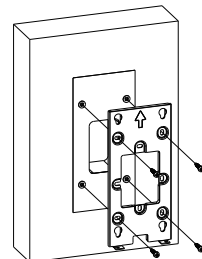
2

2.Without embedded junction box in the wall

According to the wall-mounting template, use a hand drill with 5 mm diameter bit to drill four screw holes with a depth of 25 mm and cut a rectangular hole on the wall of the diameter of 40x70 mm and depth of 40 mm that can accommodate and through out all necessary cables.
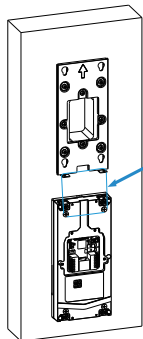
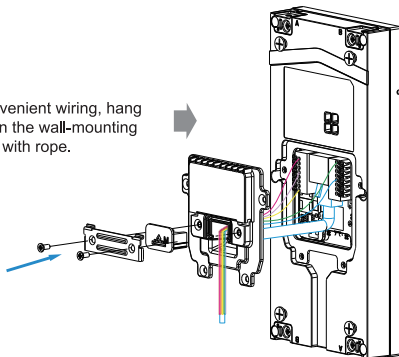Insert four screw fixing seats into the holes.

Fix the wall-mounting bracket with four ST4x20 screws.

Finish the wall-mounting bracket installation.

Step2： Back Cover Installation

For convenient wiring, hang R20K on the wall-mounting bracket with rope.

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

Note: In the case of less than 6 signal cables, use S-size rubber plugs. In the case of 7 to 10 signal cables, use M-size rubber plugs. When there are more than 11 signal cables, please use L-size rubber plug.
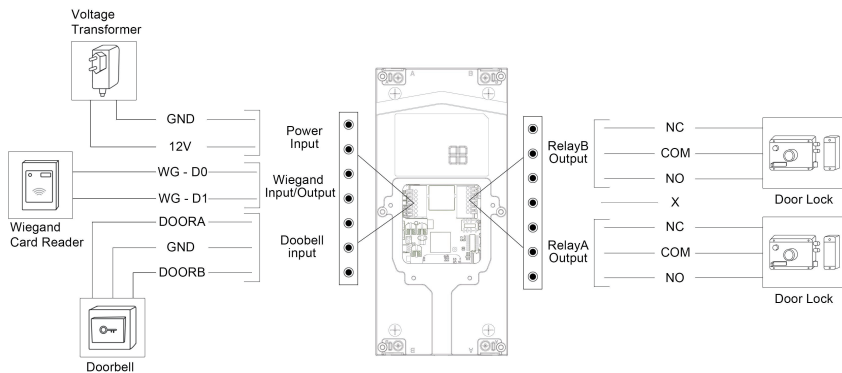
3

wall-mounting screws

wall-mounting screws holes
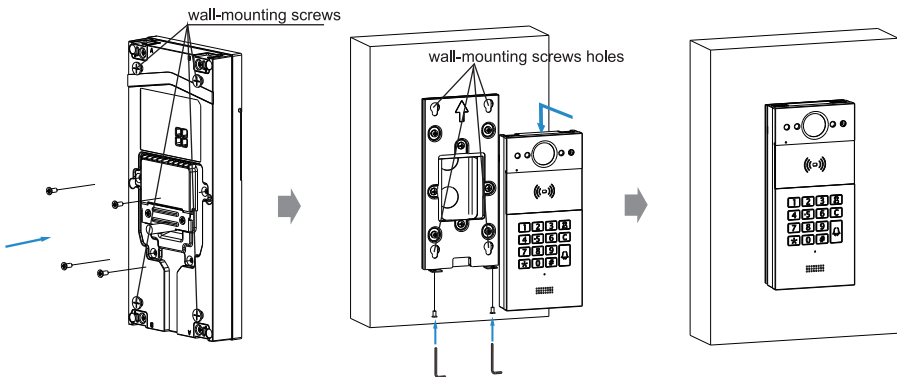
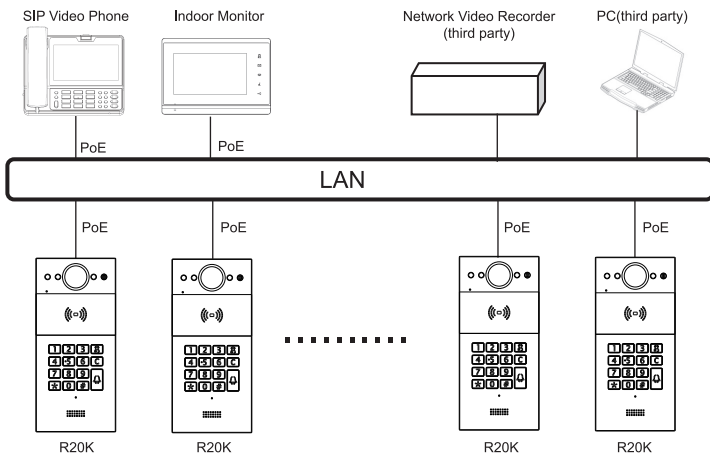Fasten the back cover with four M2.5x6 screws.

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.

Installation is completed.

Device Wiring

Voltage Transformer

GND
12V
WG - D0
WG - D1
DOORA
GND
DOORB

Wiegand Card Reader

Doorbell

Power Input
Wiegand Input/Output
Doobell input

RelayB Output
RelayA Output

NC
COM
NO
X
NC
COM
NO

Door Lock

Door Lock

Application Network Topology

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

PoE | PoE

LAN

PoE | PoE | PoE | PoE

R20K | R20K | R20K | R20K

IP Announcement

1. While R20K starts up normally, press *3258*, voice system will enter IP announcement mode.
2. In announcement mode, the IP address will be announced periodically.
3. Press Cancel 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.

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Akuvox Smart Intercom

Operation

Make a call:
Press the SIP number or IP address and dial key to make a call.
Receive a call:
R20K supports Auto Answer by default. Incoming call will be answered automatically.
Unlock:
1.During the talk, called party can press pre-configuredcode number to unlock the door；
2.Scan the predefined RFID card nearby the card reader tounlock；
3.Press the predefined pin code to unlock.

Indicators

Light ON   Light OFF

Name	Status		Description
Status indicator	Blue		Normal status
			Calling
	Red		Restarting
			Network is unavailable
	Green		Initialing/Talking on a call
			Receiving a call
	Red/Blue		Firmware upgrading

Note: For more LED settings, please refer to R20K webUI: Intercom -> LED Setting.

Notice Information

AKUVOX (XIAMEN) NETWORKS CO., LTD.
ADD: 10/F, NO.56 GUANRI ROAD, SOFTWARE PARK II, XIAMEN 361009, CHINA
www.akuvox.com

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