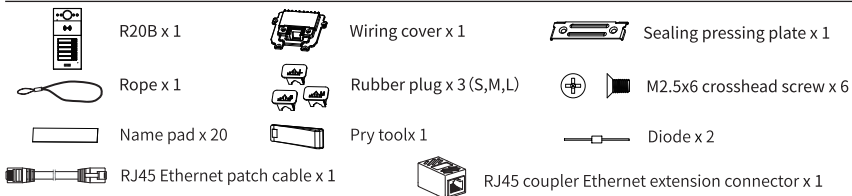


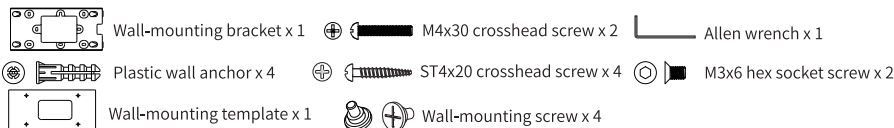
Unpacking

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:



Wall-mounting Accessories :



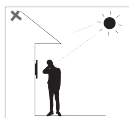
Product Overview



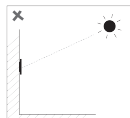
Installation Environment

Please don't place device under direct sunlight, which will bring bad effect and take damage to device with high temperature.

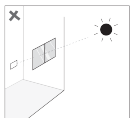
If installing the device indoors, please keep device at least 2 meters away from light, and at least 3 meters away from window and door .



Backlight



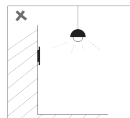
Direct sunlight



Direct sun through window



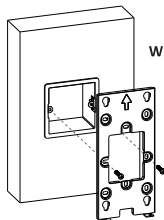
Indirect sunlight through window



Close to light

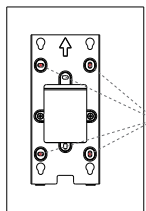
Wall-mounting Installation Step1: Wall-mounting Bracket Installation

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

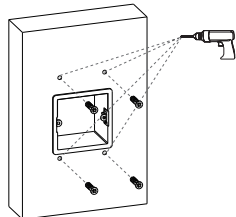


With 86x86 mm junction box.

Fix the wall-mounting bracket on 86x86 mm junction box with two M4x30 crosshead screws.

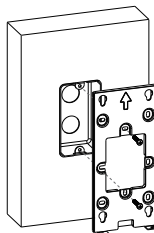


Mark the four holes of the wall-mounting bracket on the wall.



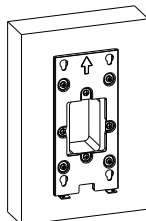
Take off the wall-mounting bracket and drill (6 mm drill bit required) the four marked fixing holes on the wall with a depth of 25 mm. Then insert four plastic wall anchors.

or

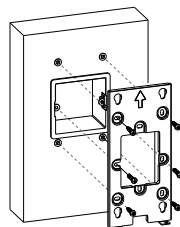


With 2x3 inches junction box

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

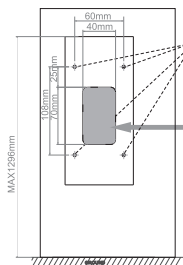


Finish the wall-mounting bracket installation.

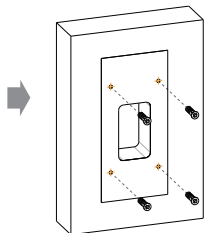


Tighten the wall-mounting bracket on the wall and junction box using four ST4x20 crosshead screws and two M4x30 crosshead screws.

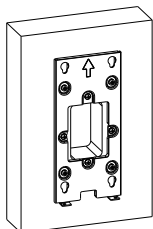
2. Without embedded junction box in the wall



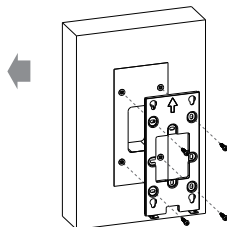
According to the wall-mounting template, drill (6 mm drill bit required) four screw holes with a depth of 25 mm and cut a rectangular hole on the wall with the diameter of 40x70 mm and depth of 40 mm that can accommodate and through out all necessary cables.



Insert four plastic wall anchors into the holes.

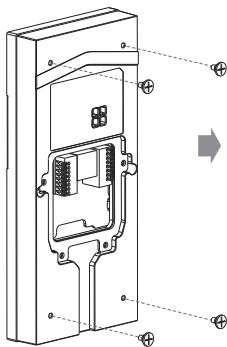


Finish the wall-mounting bracket installation.

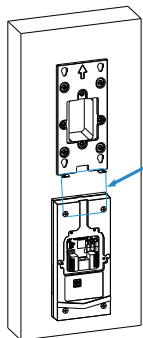


Tighten the wall-mounting bracket on the wall using four ST4x20 crosshead screws.

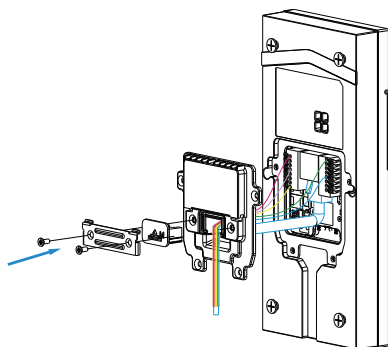
Step2: Wiring Cover Installation



Install 4 wall-mounting screws to the back of device.

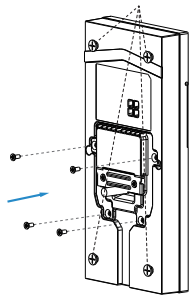


For convenient wiring, hang R20B on the wall-mounting bracket with rope.



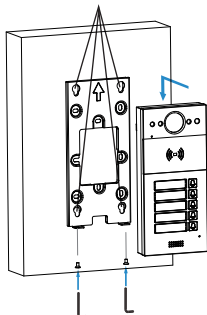
3. Make cables go through the wiring cover, connecting to the corresponding interface of the main board. Select a suitable size rubber plug to push all the cables into the wiring cover. Fix sealing pressing plate to the wiring cover with two M2.5x6 crosshead screws.

Wall-mounting screws

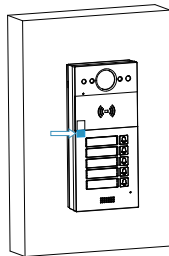


Fasten the back cover with four M2.5x6 crosshead screw.

Wall-mounting screws holes



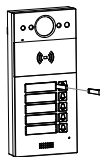
Insert the four wall-mounting screws on the device into the corresponding holes on the wall-mounting bracket, and then press down to slide the wall-mounting screws into the groove. Then use the Allen wrench to tighten the device with two M3x6 hex socket.



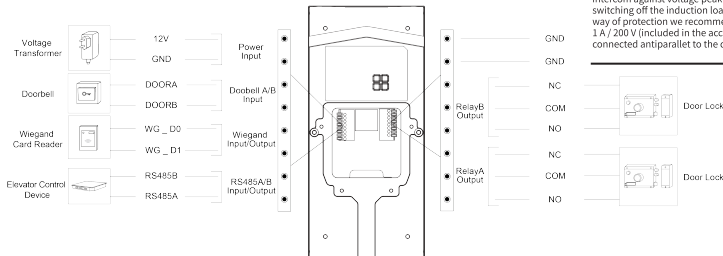
Installation completed, please remove the protective film.

Installation Tips

Open the name pad cover with a pay tool, put the filled-in name pad in the name pad cover, and put back to close it.

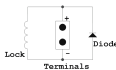


Device Wiring



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.

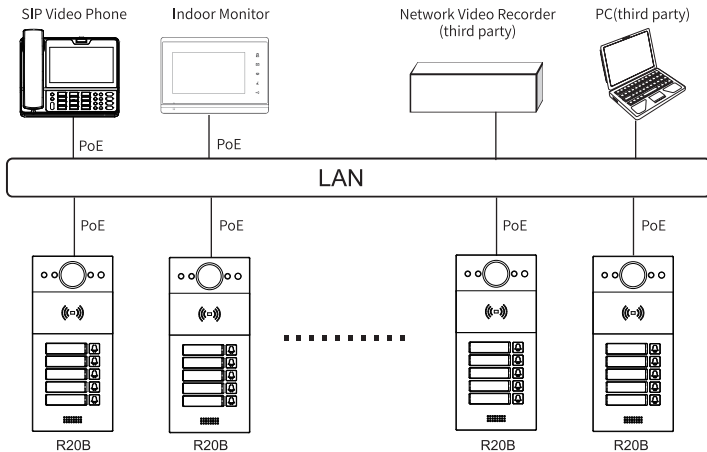


Wire Length & AWG Table

Please follow the properly measured wire gauge/length to install device:

	20 AWG	22 AWG	24 AWG	26 AWG
12V 1A Adapter	≤50m	≤40m	≤20m	\

Application Network Topology



IP Announcement

1. While R20B starts up normally, hold the first **Call Button** for several seconds after the LED light turns blue, voice system will enter IP announcement mode.
2. In announcement mode, the IP address will be announced periodically.
3. Press first **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 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 Push Button: On web UI, go to the path: **Intercom > Basic > Push Button** to configure the call number.
4. Configure DTMF Code: 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:

Press the SIP number or IP address and **Call Button** to make a call.

Receive a call:













R20B supports Auto Answer by default. Incoming call will be answered automatically.

Unlock:

1. During the talk, called party can press pre-configured code number to unlock the door;
2. Scan the predefined RFID card nearby the card reader to unlock;
3. Press the predefined pin code to unlock.

Indicators

 Light ON  Light OFF

Name	Status		Description
Status indicator	Blue		Normal status
		 0.25sec → 	Calling
	Red	 0.05sec → 	Restarting
		 0.25sec → 	Network is unavailable
	Green		Initialing/Talking on a call
		 0.25sec → 	Receiving a call
Red/Blue	 0.05sec →  0.05sec	Firmware upgrading	

Note: For more LED settings, please check in **Intercom > LED Setting** of R20B Web UI.

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