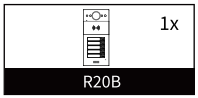
Akuvox Smart Intercom

R20B Quick Guide

Unpacking

Before using the device, check the device model and ensure that the shipped box includes the following items:


1x
R20B


1x
Wiring cover


6x
M2.5x6 crosshead screw


1x
Rubber Plug(small)


1x
Rubber Plug(medium)


1x
Rope


1x
Sealing pressing plate


2x
Diode


1x
Rubber Plug(large)


1x
Pry tool


20x
Name pad


1x
RJ45 Ethernet patch cable


1x
RJ45 coupler Ethernet extension connector

Wall-mounting Accessories :

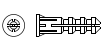

2x
M4x30 crosshead screw

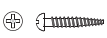

1x
Wall-mounting bracket


4x
Wall-mounting screw


2x
M3x6 hex socket screw


1x
Allen Wrench


4x
Plastic wall anchor


4x
ST4x20 crosshead screw


6x
Wall-mounting template

Product Overview



R20BX2



R20BX3



R20BX4



R20BX5

Before You Start

Tools needed

(not included in shipped box)

- Cat Ethernet Cable
- Crosshead Screwdriver
- Electric Drill

Voltage and Current Specifications

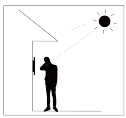
- It is suggested that use PoE or 12VDC 2A power adapter to power on device.

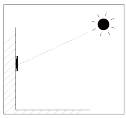
AWG Sizes and Properties Table

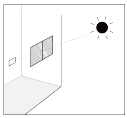
Power Supply	12VDC 2A		
AWG	20	22	24
Resistance(ohm/km)	33.9	48.5	79.6
Cross-sectional Area(mm^2)	0.5189	0.3247	0.2047
Wire Length(m)	⩽50	⩽40	⩽20

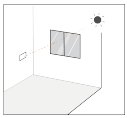
Requirements

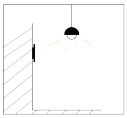
1.Place the device away from sunlight and light sources to prevent potential damage.
2.Do not place the device in the high-temperature, and humid environments or in surroundings impacted by magnetic field.
3.Install the device on the flat surface securely to avoid personal injuries and property loss caused by device’s falling.
4.Do not use or place the device near heating objects.
5.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

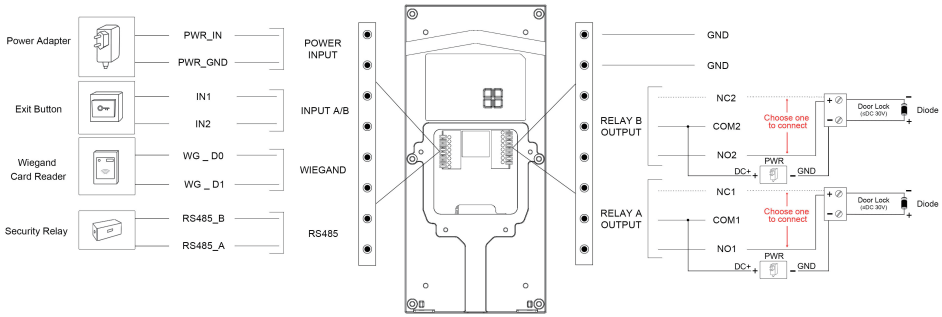
Warning!

1. To ensure safety, avoid touching power cord, power adapter, and device with wet hands, bending or pulling the power cord, damaging any components, and use only qualified power adapter and power cord.
2. Be careful that standing up on the area under the device in case of personal injuries cause by hitting the device.

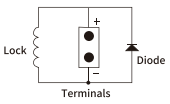
Caution

1. Do not knock device with hard objects.
2. Do not press down hard on the device screen.
3. Do not expose device to chemical products, such as alcohol, acid liquid, disinfectants, and so on.
4. To prevent the device installation from becoming loose, ensure accurate diameters and depths of screw holes. If the screw holes are too large, use glue to secure the screws.
5. Use wet cloth clean device surface softly, and then wipe the surface with dry cloth for cleaning the device.
6. If there is abnormal situation of the device, including uncommon sound and smell, please power off the device and contact Akuvox Technical Team immediately.

Wiring Interface



To protect the device from potential damage caused by over-voltage, it is recommended to wire a diode into the circuit. Connect the anode of the diode to the negative cable of the lock, and connect the cathode of the diode to the positive cable of the lock.

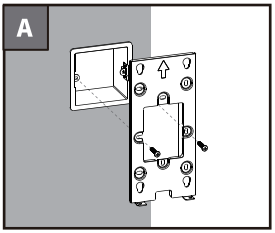


Installation

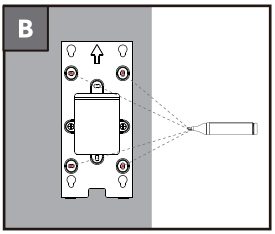
Step 1: Wall-mounting Bracket Installation

1.With electrical junction box in the wall

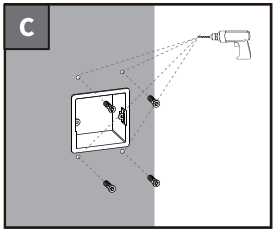
1.1With an 86x86 mm junction box



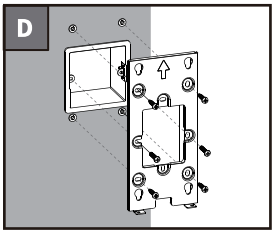
Fix the **wall-mounting bracket** on 86x86 mm junction box with two **M4x30 crosshead screws.**



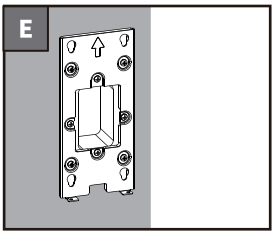
Mark the four holes on the wall.



a. Take off the **wall-mounting baracket.**
b. Use a 6 mm hand drill to make four marked fixing holes with a depth of 25 mm.
c. Insert four **plastic wall anchors** into the screw holes.

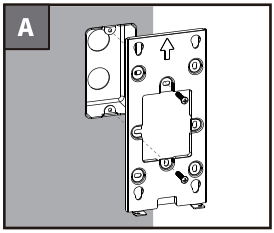


Tighten the **wall-mounting bracket** and junction box on the wall with four **ST4x20 crosshead screws** and two **M4x30 crosshead screws.**

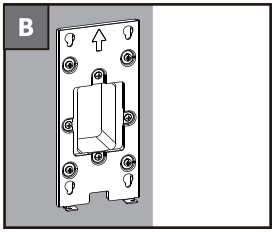


Finish the wall-mounting bracket installation.

1.2With a 2x3 inches junction box.

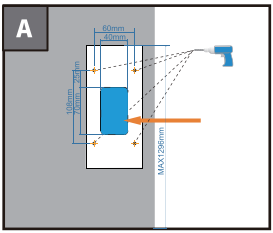


Fix the **wall-mounting bracket** on the 2x3 inches junction box with two **M4x30 crosshead screws.**

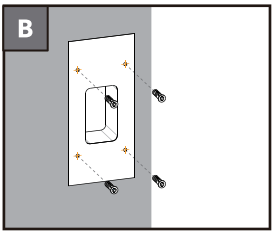


Finish the wall-mounting bracket installation.

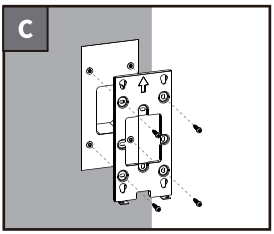
2.Without embedded junction box in the wall



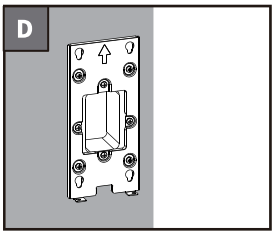
a. Use a 6 mm hand drill to make four screw holes with a depth of 25 mm.
b. Cut a rectangular hole on the wall with the diameter of 40x70 mm and depth of 40 mm.



Insert four **plastic wall anchors** into the holes.

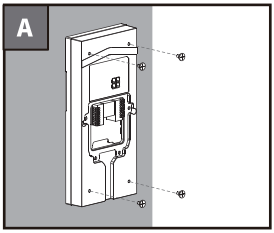


Fix the **wall-mounting bracket** on the wall using four **ST4x20 crosshead screws.**

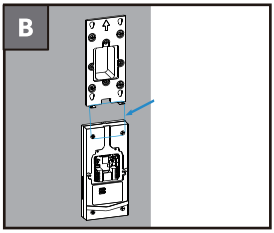


Finish the wall-mounting bracket installation.

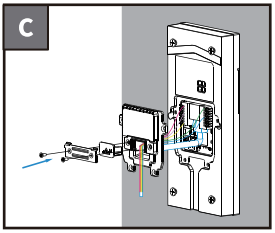
Step 2: Main Unit Installation



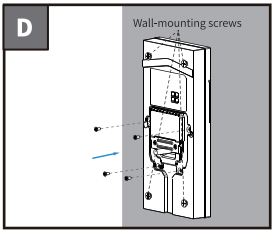
Install four **wall-mounting screws** to the back of device.



Hang R20B on **the wall-mounting bracket** with **rope.**

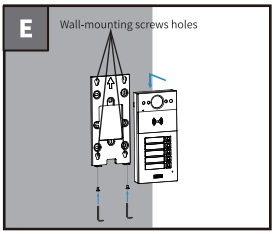


a. Make cables go through the **wiring cover,** connecting to the corresponding interfaces of the main board.
b. Select a suitable size **rubber plug** to push all the cables into the back cover.
c. Fix **sealing pressing plate** to the **wiring cover** with two **M2.5x6 crosshead screws.**

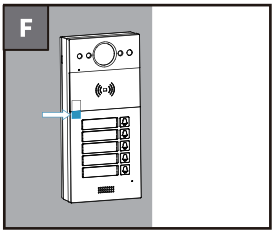


Fasten the back cover with four **M2.5x6 crosshead screws.**

YS20000085

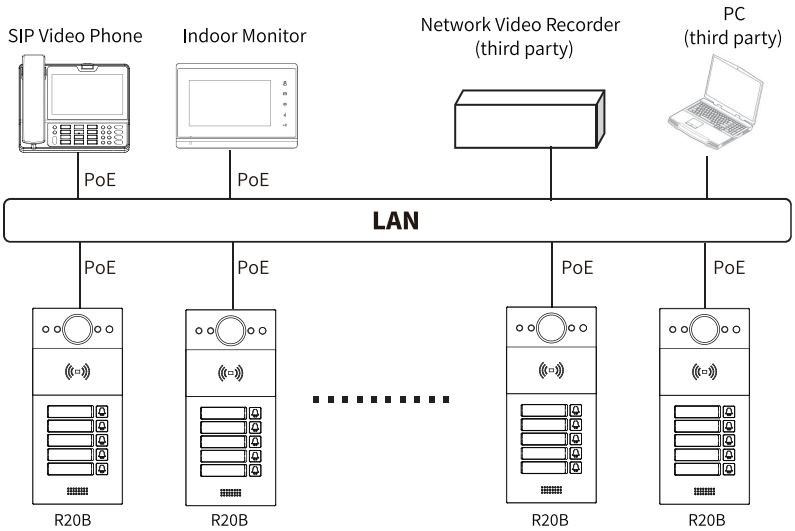


a. Insert four **wall-mounting screws** on the device into the corresponding holes on the **wall-mounting bracket.**
b. Press down to slide the **wall-mounting screws** into the groove.
c. Use **Allen Wrench** to tighten the device with two **M3x6 hex socket screws.**



Installation completed,please remove the protective film.

Application Network Topology



LED Status Information

LED Status		Description
Blue	Always on	Normal status
	Flashing	Calling
Red	Flashing	Offline
Green	Always on	Talking on a call
	Flashing	Receiving a call

Note: For more LED settings, please refer toR20B WEB: **Intercom> LED Setting .**

Device Test

Please verify the device status after installation:

1.**Network**: Press and hold **Call button** to obtain IP address, network is working properly if the device announce IP address. If no IP address is obtained, E12X will announce "IP 0.0.0.0".

2.**Intercom**: Press **Call button** to make a call. The call configuration is correct if the call is successful.

3.**Access Control**: Use pre-configured RF card to unlock door.

Warranty

1. Akuvox warranty does not cover intentional mechanical damage or destruction caused by improper installation.
2. Do not attempt to modify, alternate, maintain, or repair device by yourself. Akuvox warranty does not apply to damages caused by anyone who is not representative of Akuvox or an Akuvox authorized service provider. Please contact Akuvox Technical Team if the device need to be repaired.

Get Help

For help or more assistance, contact us at:

https://ticket.akuvox.com/

support@akuvox.com

Scan the QR code to get more videos, guides, and additional product information.

Notice Information

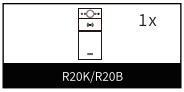
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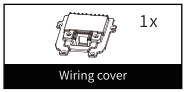
Akuvox Smart Intercom

R20K/R20B
Flush-mounting Installation Quick Guide

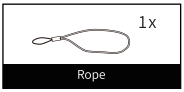
Unpacking

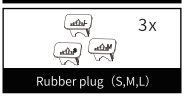
Before using the device, check the device model and ensure that the shipped box includes the following items:

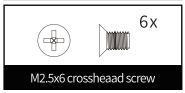




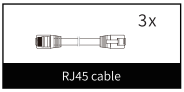


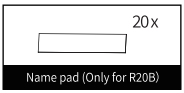




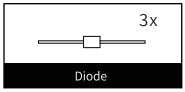






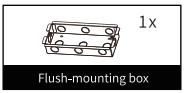




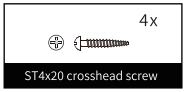




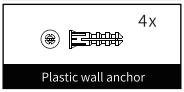
Flush-mounting Accessories:

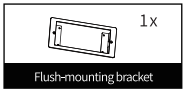




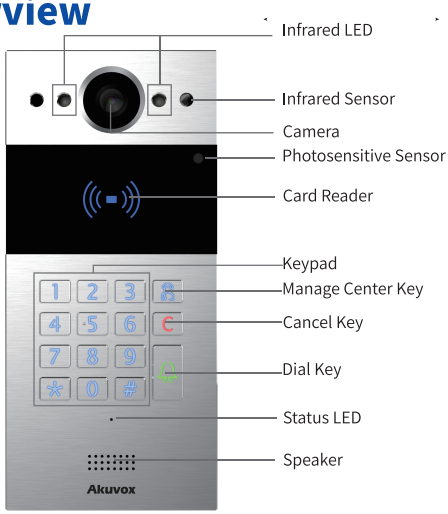








Product Overview



R20K

Before You Start

Tools needed

(not included in shipped box)

- Cat Ethernet Cable
- Crosshead Screwdriver
- Electric Drill

Voltage and Current Specifications

- It is suggested that use PoE or 12VDC 1A power adapter to power on device.

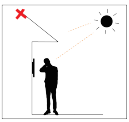
AWG Sizes and Properties Table

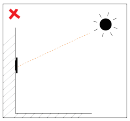
Please follow the properly wire data to install device:

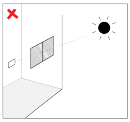
Power Supply	12VDC 1A		
AWG	20	22	24
Resistance (ohm/km)	33.9	48.5	79.6
Cross-sectional Area (mm^2)	0.5189	0.3247	0.2047
Wire Length (m)	⩽50	⩽40	⩽20

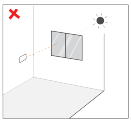
Requirements

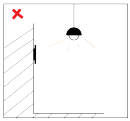
1.Place the device away from sunlight and light sources to prevent potential damage.
2.Do not place the device in the high-temperature, and humid environments or in surroundings impacted by magnetic field.
3.Install the device on the flat surface securely to avoid personal injuries and property loss caused by device' s falling.
4.Do not use or place the device near heating objects.
5.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

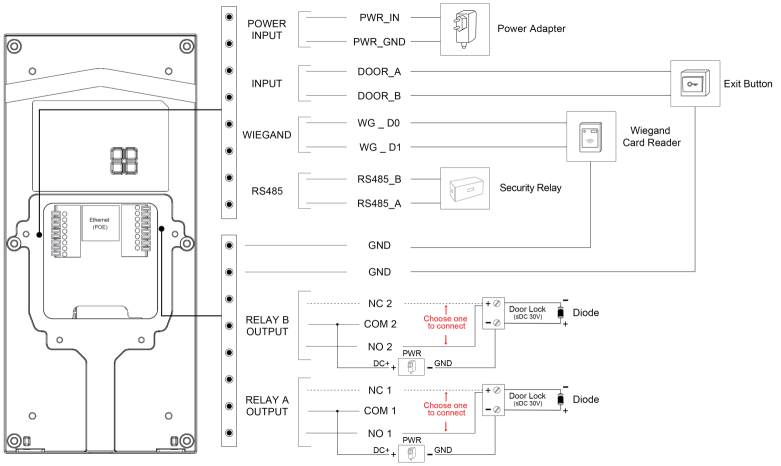
Warning!

1.To ensure safety, avoid touching power cord, power adapter, and device with wet hands, bending or pulling the power cord, damaging any components, and use only qualified power adapter and power cord.
2.Be careful that standing up on the area under the device in case of personal injuries cause by hitting the device.

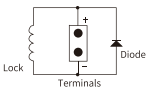
Caution

1.Do not knock device with hard objects.
2.Do not press down hard on the device screen.
3.Do not expose device to chemical products, such as alcohol, acid liquid, disinfectants, and so on.
4.To prevent the device installation from becoming loose, ensure accurate diameters and depths of screw holes. If the screw holes are too large, use glue to secure the screws.
5.Use wet cloth clean device surface softly, and then wipe the surface with dry cloth for cleaning the device.
6.If there is abnormal situation of the device, including uncommon sound and smell, please power off the device and contact Akuvox Technical Team immediately.

Wiring Interface



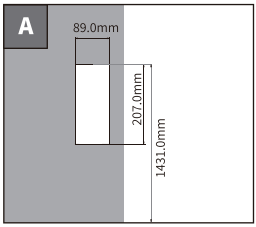
To protect the device from potential damage caused by over-voltage, it is recommended to wire a diode into the circuit. Connect the anode of the diode to the negative cable of the lock, and connect the cathode of the diode to the positive cable of the lock.



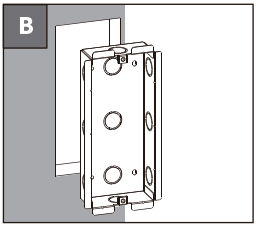
Installation

Step1: Bracket/Box Installation

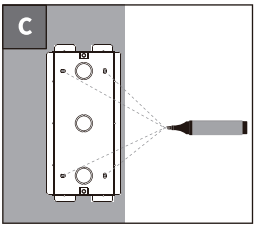
1. Normal Installation



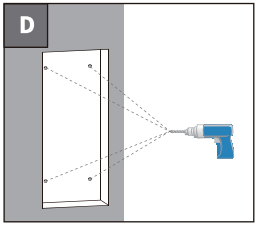
Cut a rectangular hole on the wall (height*wide*depth=207*89*40mm) that can accommodate all the cables.



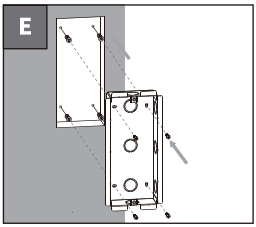
Insert the **flush-mounting box** into the hole.



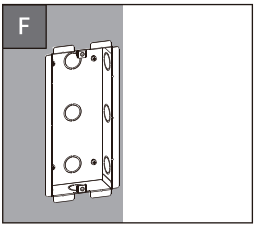
Mark the four holes of the flush-mounting box on the wall.



a.Remove **flush-mounting box.**
b.Use a 6 mm hand drill to make the four holes with a depth of 25 mm.

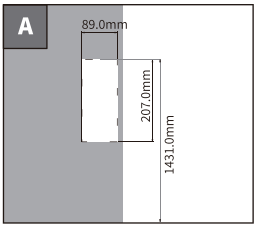


a.Insert four **plastic wall anchors** into the holes.
b.For fasten the flush-mounting box, tighten the four **ST4x20 crosshead screws** to **plastic wall anchors.**

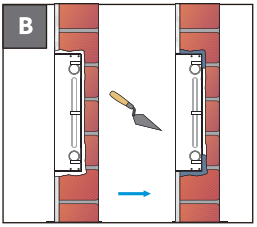


Flush-mounting box installation is completed.

2. Simple Installation (with lower resistance of vandalism)

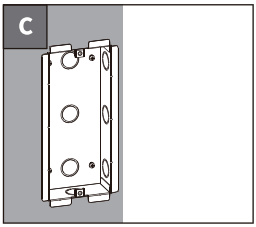


Cut out a square hole on the wall with the dimension 212*286*42mm (height*width*depth).



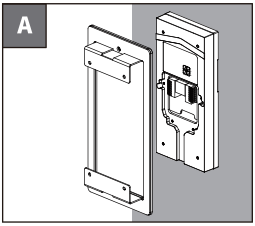
a.Use cement or non-corrosive structural adhesive to fill the gap between the wall and flush-mounting box.
b.Ensure that the adhesive material dry before proceeding to the next step.

Note: a.To prevent water from entering the back cover of the door phone, it is recommended to fill the gaps around with waterproof material.
b.Or it is recommended to use a rain cover.

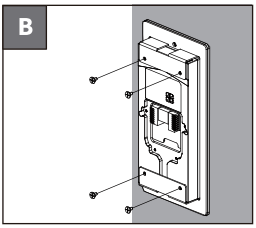


Finish the flush-mounting box installation.

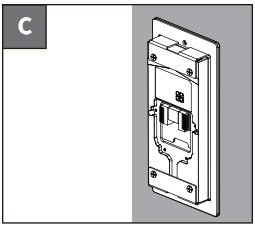
Step2：Flush-mounting Bracket Installation



Combine the device with the **flush-mounting bracket** following the orientation indicated in the diagram.

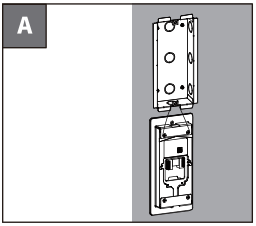


Tighten the device onto the flush-mounting bracket with four **wall-mounting screws.**

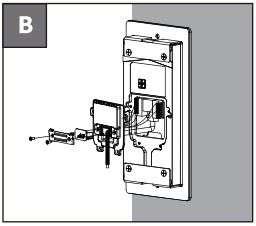


Flush-mounting bracket installation is completed.

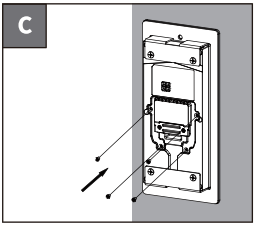
Step3：Main Unit Installation



For easier installation, hang the device on the bracket using the **rope.**

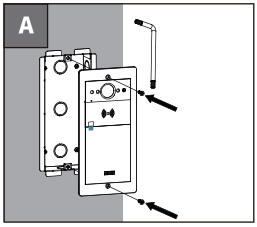


a.Make cables go through the **wiring cover**, connecting to the corresponding interfaces as needed (for details, refer to "Wiring Interface").
b.Select an appropriate **rubber plug** (small, medium, or large) to secure the wires.
c.Fasten **sealing pressing plate** with two **M2.5x6 crosshead screws.**

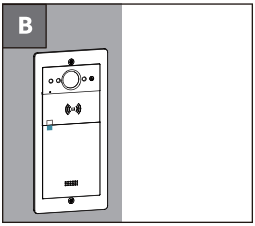


Use four **M2.5x6 crosshead screws** to fix the **wiring cover.**

Step4: Device Mounting



Fix the device on the flush-mounting bracket using two **M4x15 torx head screws.**



Installation is completed, please remove the protect film.

LED Status Information

LED Status		Description
Blue	Always on	Normal status
	Flashing	Calling
Green	Always on	Talking
	Flashing	Receiving a call
Red	Flashing	Offline

Get Help

For help or more assistance, contact us at:

https://ticket.akuvox.com/

support@akuvox.com

Scan the QR code to get more videos, guides, and additional product information.

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