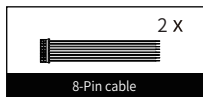
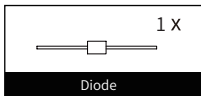
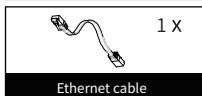
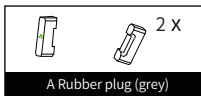
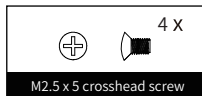
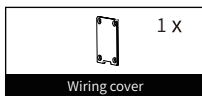
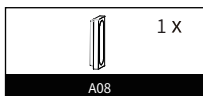
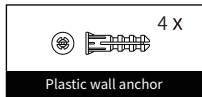
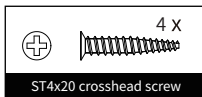
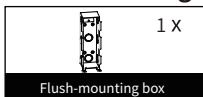


Unpacking

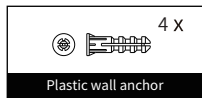
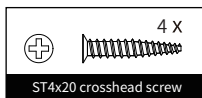
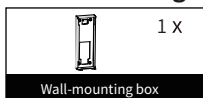
Before using the device, check the device model and ensure that the shipped box includes the following items:



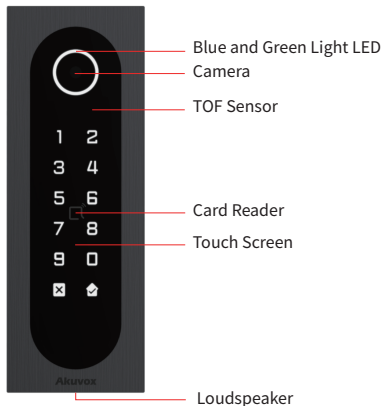
Flush-mounting Accessories:



Wall-mounting Accessories:



Product Overview



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.

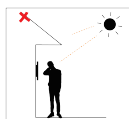
AWG Sizes and Properties Table

Please follow the properly wire data to install device:

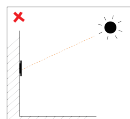
Power Supply	12VDC 1 A			
AWG	20	22	24	26
Resistance (ohm/km)	33.9	48.5	79.6	128
Cross-sectional Area (mm ²)	0.5189	0.3247	0.2047	0.1281
Wire Length (m)	≤50	≤40	≤30	≤15

Requirements

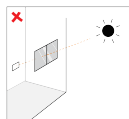
1. Place the device away from sunlight and light sources to prevent potential damage.
2. Do not place the device in the high-temperature, and humid environments or in surroundings impacted by magnetic field.
3. Install the device on the flat surface securely to avoid personal injuries and property loss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



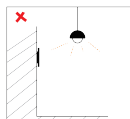
Direct sunlight



Direct sun through window



Indirect sunlight through window



Close to light

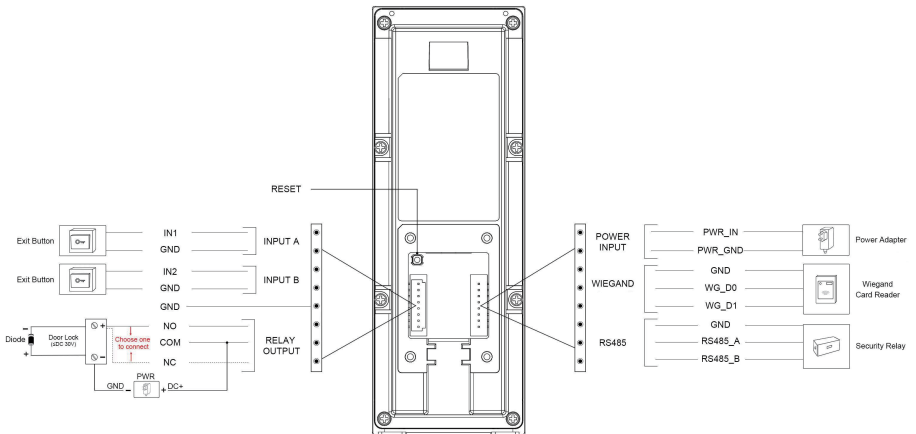
Warning!

1. To ensure safety, avoid touching power core, power adapter, and device with wet hands, bending or pulling the power core, 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.

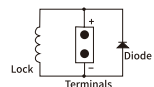
Caution

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



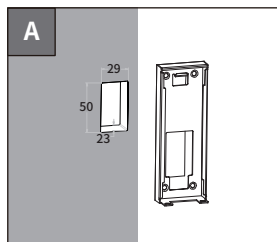
To protect the device from potential damage caused by over-voltage, it is recommended to wire a diode into the circuit. Connect the anode of the diode to the negative cable of the lock, and connect the cathode of the diode to the positive cable of the lock.



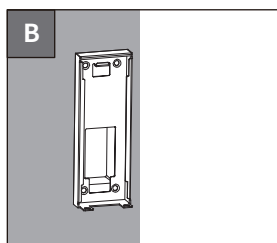
Installation

Step1: Wall-mounting or Flush-mounting Box Installation

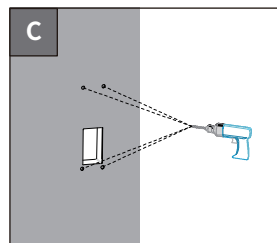
1. Wall-mounting Box Installation



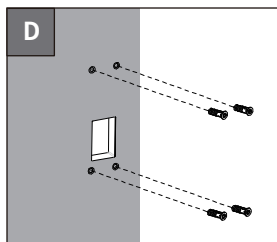
Cut a square hole on the wall according to the wire position with the dimension 50*29*23mm (height*width*depth).



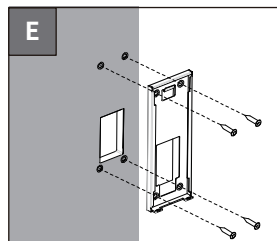
- Align the square hole of the **wall-mounting box** with the square hole on the wall, ensuring the box is closely against the wall.
- Mark the box' s four holes on the wall, ensuring the mark is at the center of each hole.



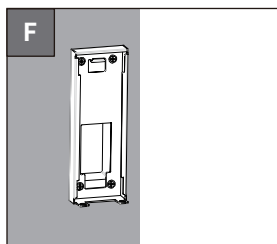
- Take down the **wall-mounting box**.
- Use a 6 mm electric drill to drill the four holes.



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



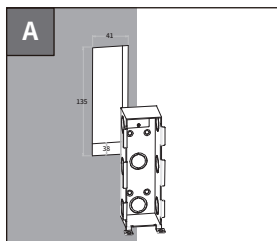
Tighten the four **ST4x20 crosshead screws** to the **plastic wall anchors** to fasten the **wall-mounting box** to the wall.



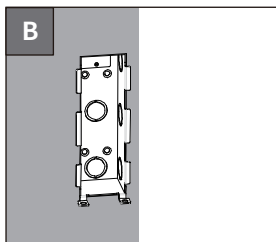
Wall-mounting installation is completed.

Note: Ensure the drilled holes are aligned with the box's holes and wall-mounting box is parallel to the ground.

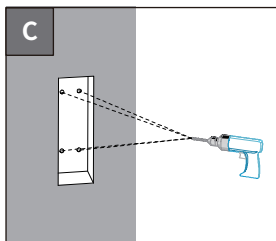
2. Flush-mounting Box Installation



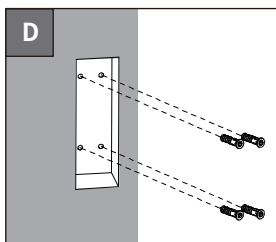
Cut a square hole on the wall according to the wire position with the dimension 135*42*38mm (height*width*depth).



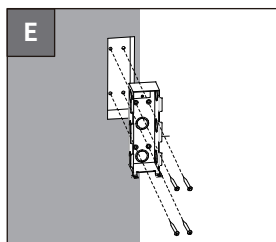
- a. Put the **flush-mounting box** into the hole, ensuring the flaps of box' s side are attached to the wall, and leave a gap at the bottom for drainage.
- b. Mark the box' s four holes on the wall, ensuring the mark is at the center of each hole.



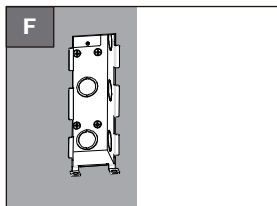
- a. Take down the **flush-mounting box**.
- b. Use a 6 mm electric drill to drill the four holes.



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

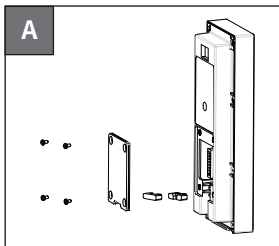


- a. Remove the box' s wiring holes, making the wires go through the box through the holes.
- b. Push the **flush-mounting box** into the hole.
- c. Tighten the four **ST4x20 crosshead screws** to the **plastic wall anchors** to fasten the **flush-mounting box** to the wall.

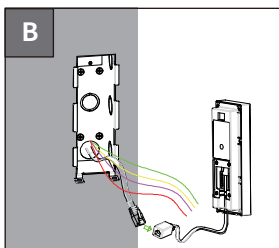


The installation is completed after checking the flaps of the box are attached to the wall and higher than the wall. And ensure there is a gap at the bottom for drainage.

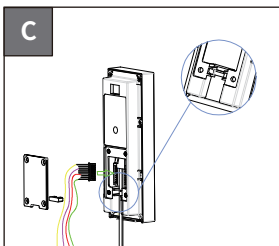
Step2: Main Unit Installation



Take out **A08, wiring cover, A and B rubber plugs**, and four **M2.5x5 crosshead screws**.



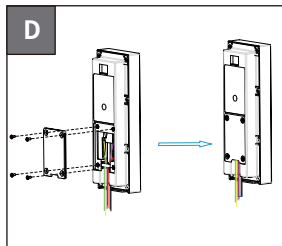
- Lead out the wires out of the flush-mounting/ wall-mounting box.
- Connect one end of the **Ethernet Cable** to the device's network interface, and the other to the **Ethernet connector**.



- Choose one or two 8-pin cable, connecting wires to 8-pin cable as needed and inserting 8-pin cable into main unit.
- Make wires go through two **rubber plugs**.
- Insert a **rubber plug** into the groove on the device's back cover, ensuring the side with tilt surface faces inward.
- Fix cable(s) with **rubber plugs** and press the **wiring cover**.

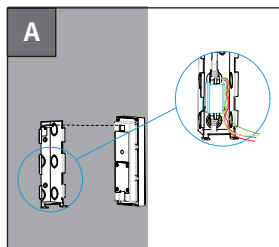
Note:

- Use two A plugs if only have one Ethernet cable.
- Use an A plug and a B plug if have an Ethernet cable and a set of eight wires.
- Use two B plugs if have an Ethernet cable and two sets of eight wires.

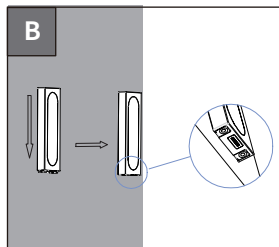


Fasten the **wiring cover** with four **M2.5x5 crosshead screws**.

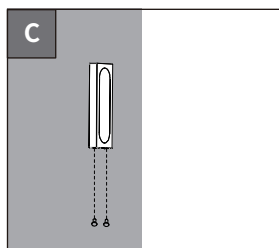
Step3: Device Mounting



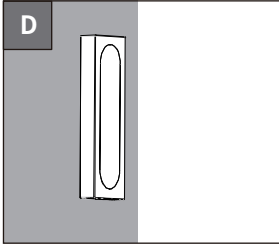
- Put all wires and Ethernet connector into the drilled square hole in the wall.
- Hang the slot of the main unit into the corresponding hooks of the box, and then gently lower the main unit into the box.



Lower the device down, ensuring the box's two hookers fit into the grooves at the bottom of the device.

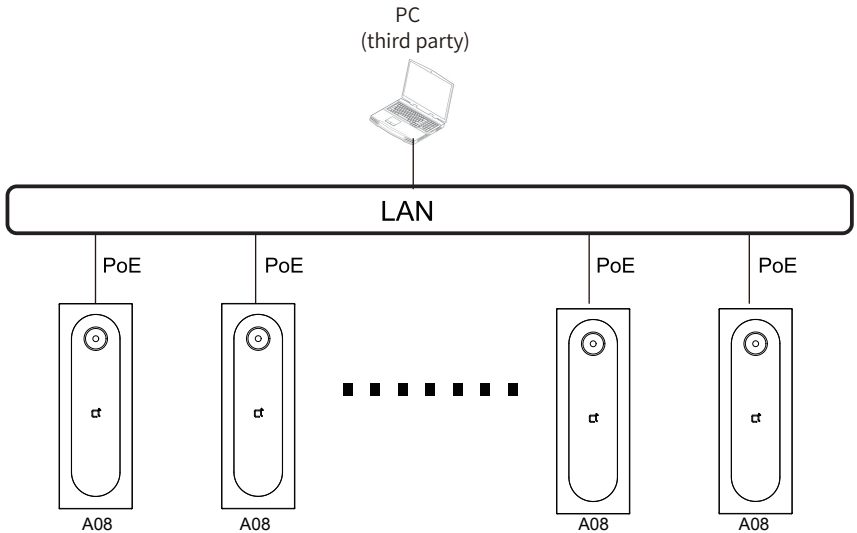


Fix two **M3x6 Torx head screws** into holes.



The installation is completed after checking gap around the device is even, the connection is secure, and the device can be powered on.

Application Network Topology



Device Test

Please verify the device status after installation:

1. **Network:** Press **Reset** button on the back of device shortly, the device will announce IP address. Network is working properly if the IP address is obtained.
2. **Access Control:** Use pre-configured PIN code and 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.



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