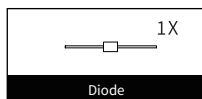
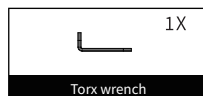
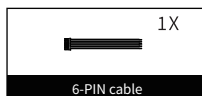
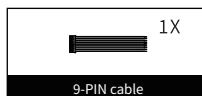
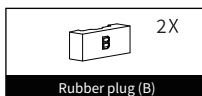
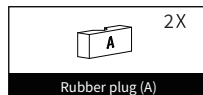
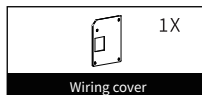
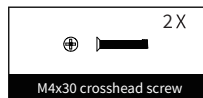
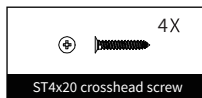
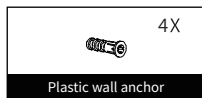
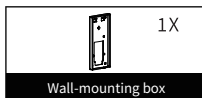


## Unpacking

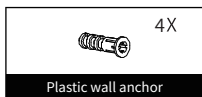
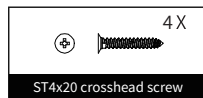
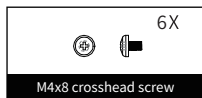
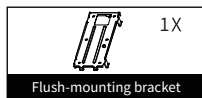
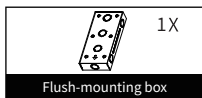
Before using the device, check the device model and ensure that the shipped box includes the following items:



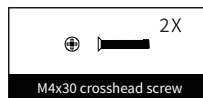
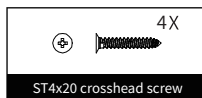
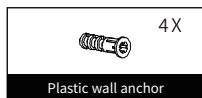
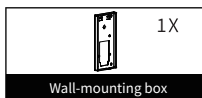
### Wall-mounting Accessories:



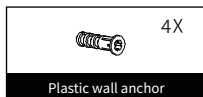
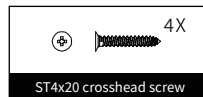
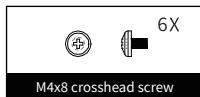
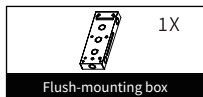
### Flush-mounting Accessories:



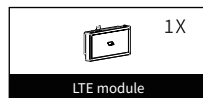
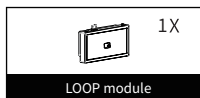
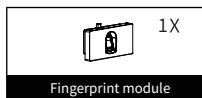
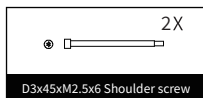
### Wall-mounting Accessories with Optional Module:



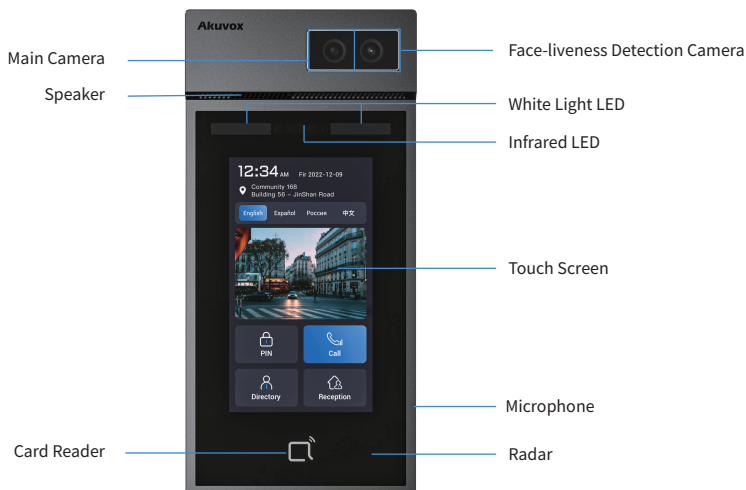
## Flush-mounting Accessories with Optional Module:



## Optional Module 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 12VDC power adapter or PoE+ to power on device.

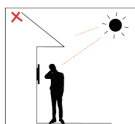
### AWG Sizes and Properties Table

Please follow the properly wire data to install device:

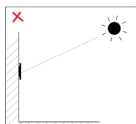
Device/AWG	16	18	20	22	Power Supply
Main unit + Fingerprint module	≤50m	≤35m	≤50m	≤15m	12V 2A
Main unit + Fingerprint module+ External power	≤35m	≤25m	≤15m	≤10m	12V 3A
Main unit + LOOP/LTE module	≤35m	≤25m	≤15m	≤10m	12V 3A
Main unit + LOOP/LTE module + Power output feature	≤25m	≤15m	≤10m	\	12V 4A

### Requirements

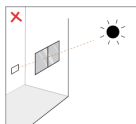
- 1.Place the device away from sunlight and light sources to prevent potential damage.
- 2.Do not place the device in the high-temperature, and humid environments or in surroundings impacted by magnetic field.
- 3.Install the device on the flat surface securely to avoid personal injuries and property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



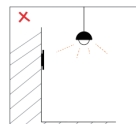
Direct sunlight



Direct sun through window



Indirect sunlight through window



Close to light



## Warning!

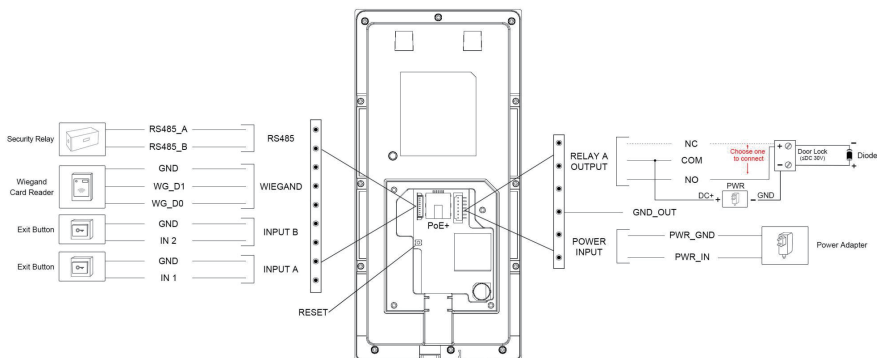
1. To ensure safety, avoid touching power cord, power adapter, and device with wet hands, bending or pulling the power cord, damaging any components, and use only qualified power adapter and power cord.
2. Be careful that standing up on the area under the device in case of personal injuries cause by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



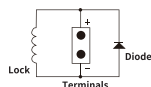
## Caution

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.

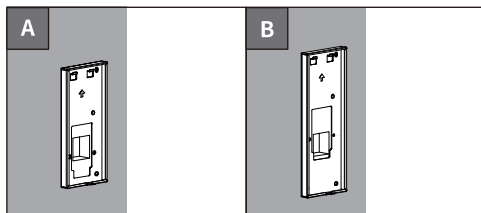




## Installation

### Step1: Bracket/Box Installation

#### 1.Wall Mounting

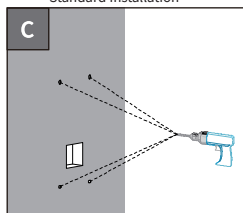


Standard Installation

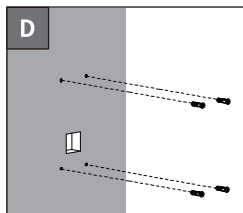
Installation with Optional Module

a.Position the **wall-mounting box** closely against the wall, aligning it with the wire's location. Please ensure the arrow on the box is pointing upward.

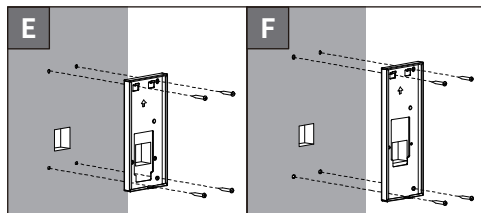
b.Mark the hole positions at the center of the four holes on the **wall-mounting box**.



Remove the box and use a 6mm diameter drill to make six holes with a depth of 25mm at the marked positions.



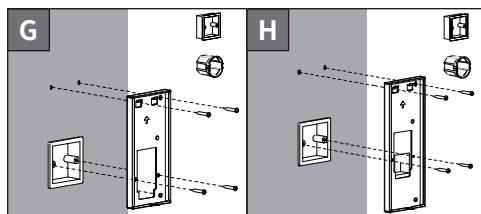
Insert four **plastic wall anchors** into the holes.



Standard Installation

Installation with Optional Module

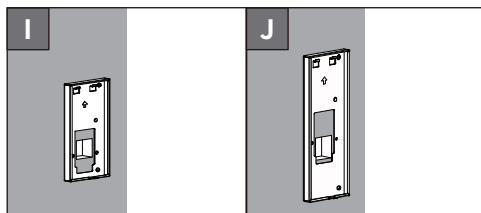
Use four **ST4x20 crosshead screws** to fix the wall-mounting box on the wall.



Standard Installation

Installation with Optional Module

If there is already a 86 embedded box or EU-standard box on the wall, secure two **ST4x20 crosshead screws** to the wall as shown in the figure, and the other two **ST4x20 crosshead screws** to the embedde box.

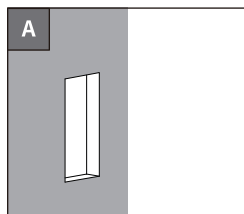


Standard Installation

Installation with Optional Module

Ensure the screws are securely fastened and the wall-mounting box is flush against the wall. The installation of the wall-mounting box is now complete.

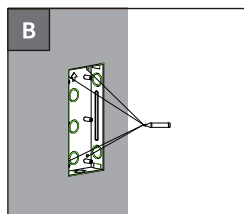
## 2. Flush Mounting



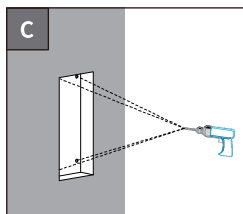
Dig out a square hole on the wall.

Wall Opening Dimensions:

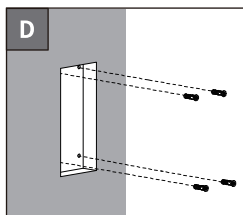
- Standard Installation: 203.5 x 94 x 34 mm (Height x Width x Depth)
- With Optional Module: 255.5 x 94 x 34 mm (Height x Width x Depth)



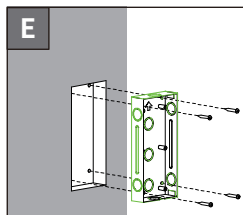
Mark four holes of the box on the wall.



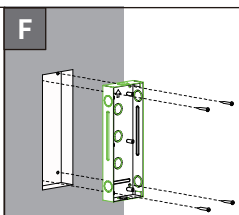
Remove the box and use a **6mm electric drill** to make six holes on the marked position with 25mm depth.



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

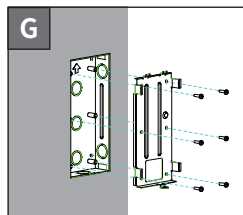


Standard Installation

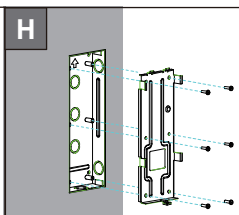


Installation with Optional Module

- Knock off a cable hole of flush-mounting box.
- Place the **flush-mounting box** on the hole, and lead cables through the hole.
- Use four **ST4x20 crosshead screws** to fix the box on the wall.

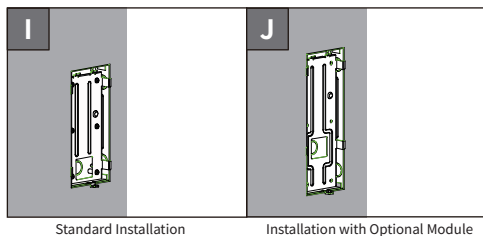


Standard Installation



Installation with Optional Module

Use six **M4x8 crosshead screws** to fix the **flush-mounting bracket** on the box.

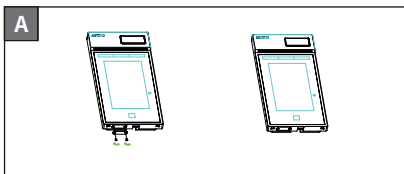


Standard Installation

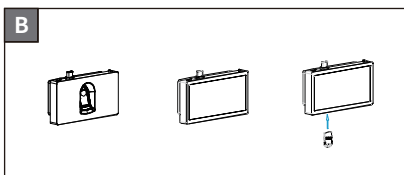
Installation with Optional Module

- Ensure the screws are securely fastened, and make sure the four tabs of the flush-mounting bracket are flush with the wall. The flush-mounting box should not protrude from the wall surface.
- If there are gaps around the in-wall box, fill them with materials that match the wall.

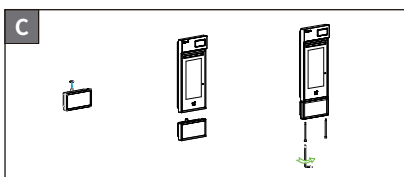
## Step2: Optional Module Installation (Optional)



Take out the device, and use a Phillips screwdriver to unscrew the expandable port cover located at the bottom-left of the device.



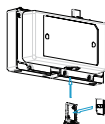
Select the needed module (Fingerprint module, LOOP module, LTE module), and insert module's plug into the socket at the bottom left of the device.



Use a **Torx wrench** to fasten the two **Shoulder screw with specifications D3×45×M2.5×6** on the module, securing it firmly to the main unit.

### Note:

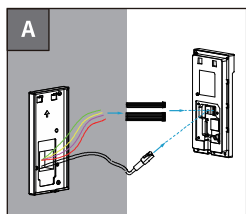
If using the LTE module, please insert the SIM card into the module in advance.



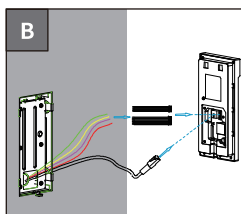
YS53500000

## Step3: Main Unit Installation

### Standard Installation

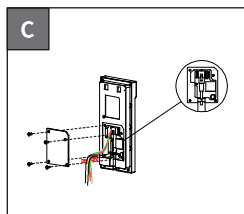


Wall-mounting



Flush-mounting

Take out the main unit, connect the wires as needed with **9-Pin** and **6-Pin** cables (for details, refer to "Device Wiring").



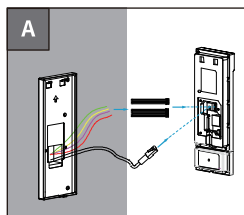
a. According to the wiring requirements, select the appropriate rubber plug combination:

- Use rubber plug A + A for using Ethernet cable only.
- Use rubber plug A + B if one additional terminal block is added.
- Use Seal B + B if two additional terminal blocks are added.

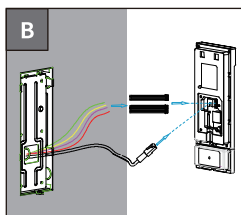
b. Pass all cables through the space between the two rubber seals. Clamp the cable bundle tightly using the rubber plugs.

c. Place **wiring cover** into the corresponding place, and tighten it by four **M2.5x5 crosshead screws**.

### Installation with Optional Module

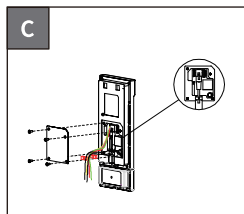


Wall-mounting



Flush-mounting

Take out the main unit, connect the wires as needed with **9-Pin** and **6-Pin** cables (for details, refer to "Device Wiring").



a. According to the wiring requirements, select the appropriate rubber plug combination:

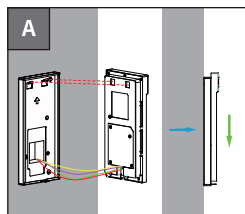
- Use rubber plug A + A for using Ethernet cable only.
- Use rubber plug A + B if one additional terminal block is added.
- Use Seal B + B if two additional terminal blocks are added.

b. Pass all cables through the space between the two rubber seals. Clamp the cable bundle tightly using the rubber plugs.

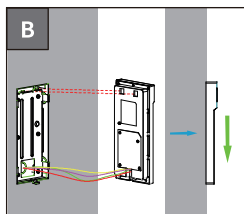
c. Place **wiring cover** into the corresponding place, and tighten it by four **M2.5x5 crosshead screws**.

## Step4: Device Mounting

### Standard Installation

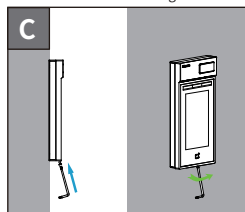


Wall-mounting

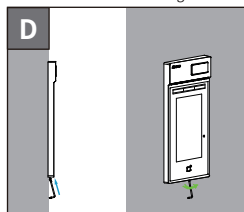


Flush-mounting

- Hang the device onto the **square hangers** on the wall-mounting box / flush-mounting bracket.
- Move the bottom of the device close to the box/bracket, ensuring the tab aligns with the groove on the bottom of the device.



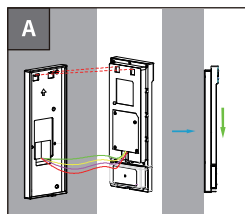
Wall-mounting



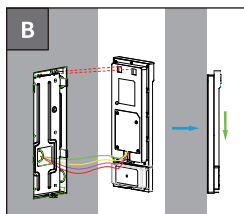
Flush-mounting

Use **Torx wrench** to fasten a **M3x6 Torx screw** at the bottom of the device at an angle as shown, securing the device to the wall-mounting box or flush-mounting bracket. The installation is complete.

### Installation with Optional Module

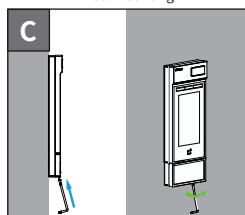


Wall-mounting

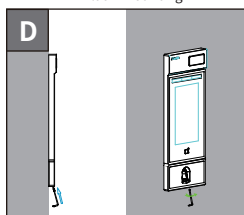


Flush-mounting

- Hang the device onto the **square hangers** on the wall-mounting box / flush-mounting bracket.
- Move the bottom of the module close to the box/bracket, ensuring the tab aligns with the groove on the bottom of the module.



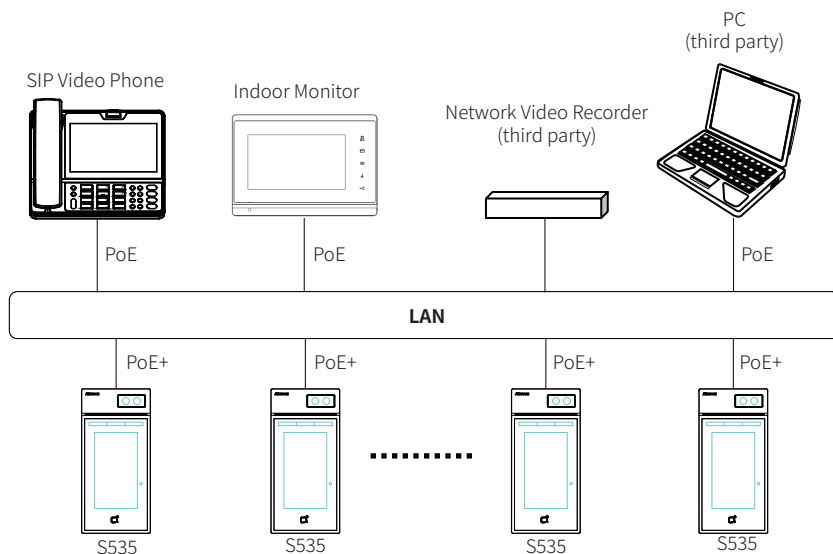
Wall-mounting



Flush-mounting

Use **Torx wrench** to fasten a **M3x6 Torx screw** at the bottom of the module at an angle as shown, securing the device and module to the wall-mounting box or flush-mounting bracket. The installation is complete.

## Application Network Topology



## Device Test

Please verify the device status after installation:

- 1. Network:** Press 9999 on the **Call screen**, then press 3888 to enter the **system screen** and click **Network** to check the device IP address. Network is working properly if the IP address is obtained.
- 2. Intercom:** Press **Call icon**, then enter the IP or SIP number to make a call. The call configuration is correct if the call is successful.
- 3. Access Control:** Use pre-configured PIN code, RF card and face 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](mailto:support@akuvox.com)

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



## Notice Information

Information contained in this document is believed to be accurate and reliable at the time of printing. This document is subject to change without notice, any update to this document can be viewed on Akuvox' s website: <http://www.akuvox.com> © Copyright 2025 Akuvox Ltd. All rights reserved.

