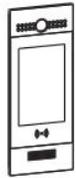


# Akuvox R29C-L

## Installation Guide

### Unpacking

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



R29C-L x1



Wiring cover x 1



LTE wrench x 1



Rope x 1



Allen wrench x 1



M3x5 crosshead screw x 4



Sealing ring x 1



M3x6 hex socket screw x 3



ST1.7x4 crosshead screw x 2



Diode x 2



Tweezers x 1



Sealing pressing plate x 1



Rubber plug (small) x 1



Rubber plug (medium) x 1



Rubber plug (large) x 1

# Akuvox R29C-L

LTE Module Accessories:



**LTE module x 1**



**M2x6 crosshead screw x 2**

Wall-mounting Accessories (Please find in On-Wall Installation Kit box):



**Wall-mounting box x 1**



**ST4x20 crosshead screw x 6**



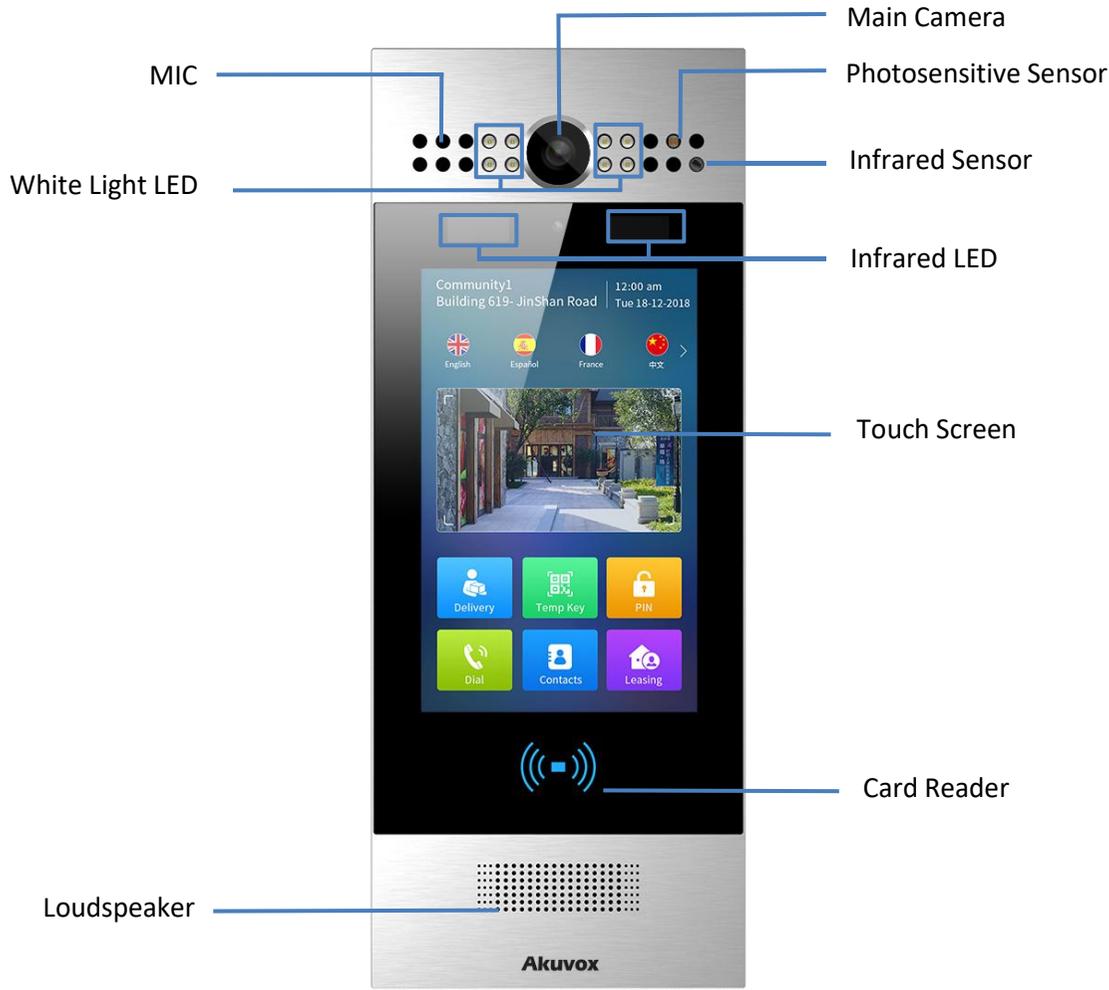
**Plastic wall anchor x 6**



**M4x30 crosshead screw x 2**

# Akuvox R29C-L

## Product Overview



# Akuvox R29C-L

## 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 1.6A power adapter to power on device.

### AWG Sizes and Properties Table

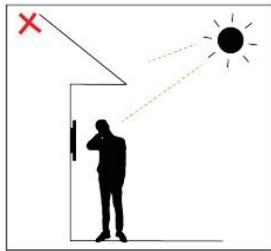
Please follow the properly wire data to install device:

Power Supply	12VDC 1.6A			
AWG	20	22	24	26
Resistance (ohm/km)	33.9	48.5	79.6	128
Cross-sectional Area (mm <sup>2</sup> )	0.5189	0.3247	0.2047	0.1281
Wire Length (m)	≤20	≤15	\	\

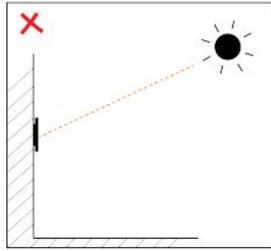
# Akuvox R29C-L

## Requirements

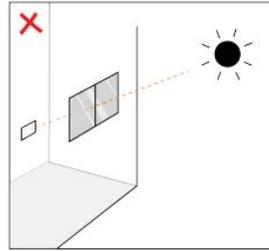
1. Place the device away from sunlight and light sources to prevent potential damage.
2. Do not place the device in the high-temperature, and humid environments or in surroundings impacted by magnetic field.
3. Install the device on the flat surface securely to avoid personal injuries and property loss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



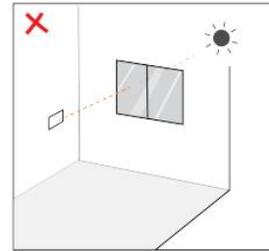
Backlight



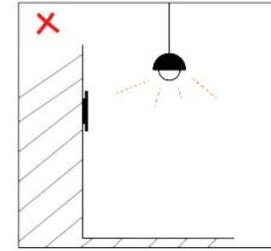
Direct sunlight



Direct sun  
through window



Indirect sunlight  
through window



Close to light

# Akuvox R29C-L

## Warning!

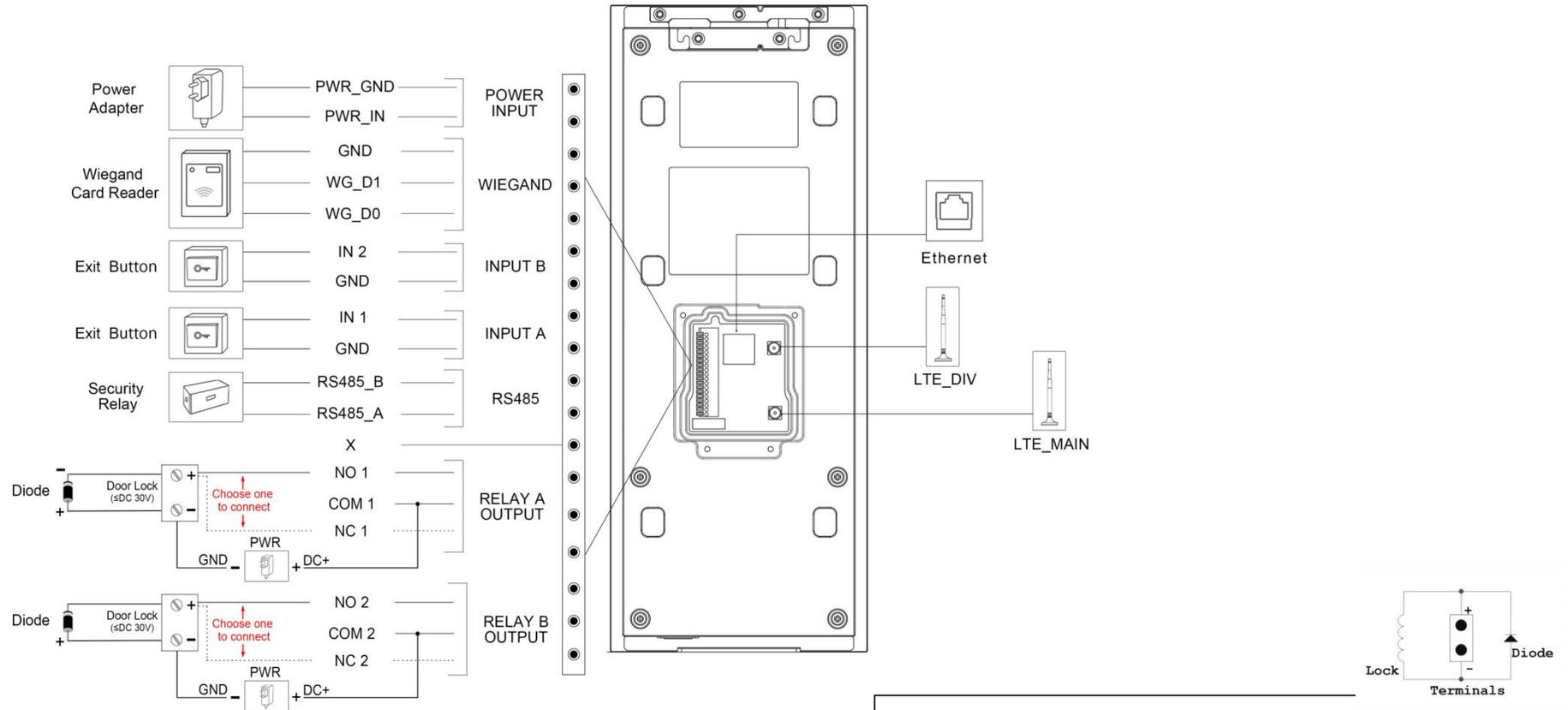
1. To ensure safety, avoid touching power core, power adapter, and device with wet hands, bending or pulling the power core, damaging any components, and use only qualified power adapter and power cord.
2. Be careful that standing up on the area under the device in case of personal injuries cause by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

## Cautious

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.

# Akuvox R29C-L

## Wiring Interface



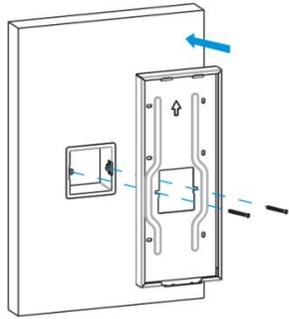
To protect the device from potential damage caused by over-voltage, it is recommended to wire a diode into the circuit. Connect the anode of the diode to the negative cable of the lock, and connect the cathode of the diode to the positive cable of the lock.

# Akuvox R29C-L

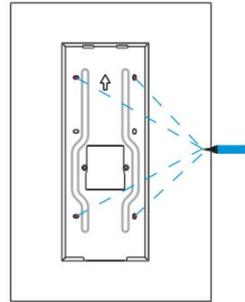
## Installation

### Step1: Wall-mounting Bracket Installation

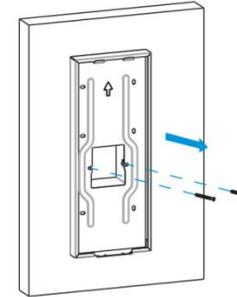
#### 1. With 86x86 mm embedded junction box in the wall



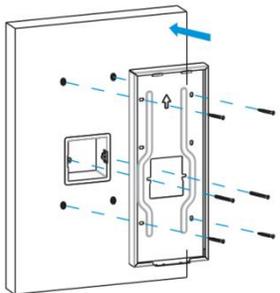
Attach the wall-mounting box to the embedded box (86) using two **M4x30 crosshead screws**.



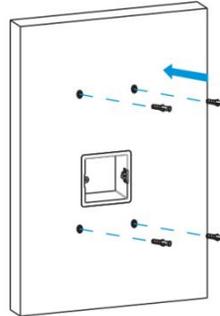
Mark the hole positions at the center of the four holes on the **wall-mounting box**.



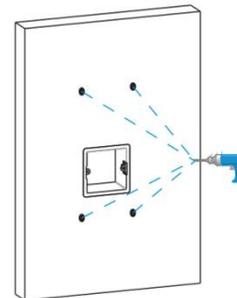
Remove two **M4x30 crosshead screws** and **wall-mounting box**.



For fasten the wall-mounting box, tighten the four **ST4x20 crosshead screws** to **plastic wall anchors** and two **M4x30 crosshead screws**.



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

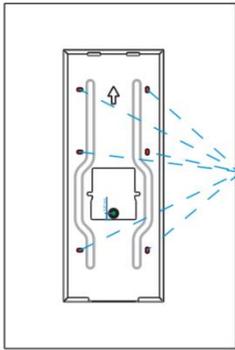


Use a 6mm electric drill to make four holes in the marked positions.

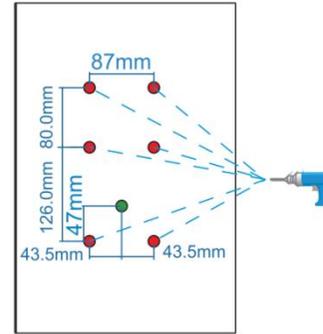


# Akuvox R29C-L

## 2. Without embedded box in the wall

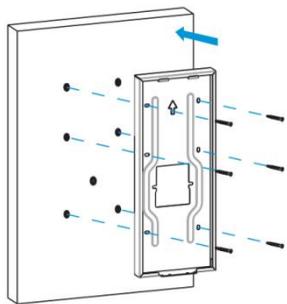


- Position the **wall-mounting box** closely against the wall, aligning it with the wire's location.
- Mark the hole positions at the center of the four holes on the **wall-mounting box**.

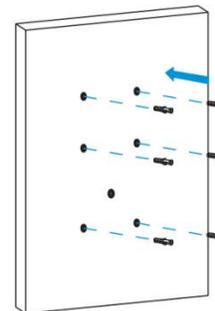


Remove the box and use a 6mm electric drill to make six holes in the marked positions.

Note: Check the dimensions on the figure and ensure that the error is no more than 5mm.



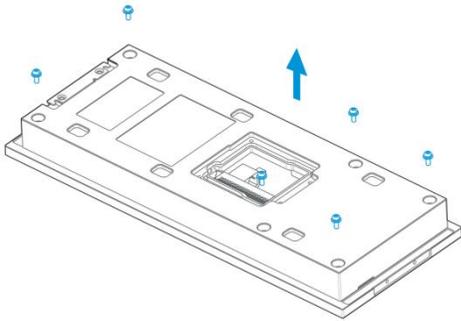
Fix the **wall-mounting box** with six **ST4x20 crosshead screws**.



Insert six **plastic wall anchors** into the drilled holes.

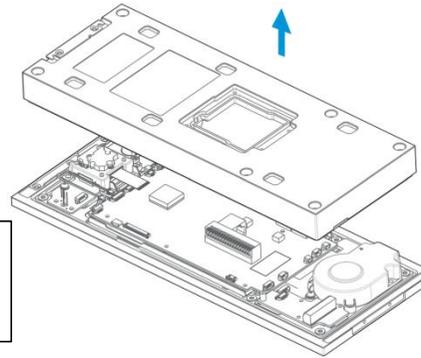
# Akuvox R29C-L

## Step2: LTE Module Installation



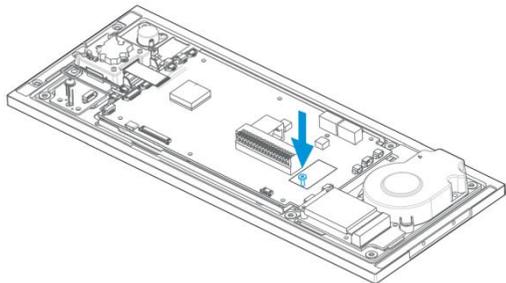
Remove the six **M3x8 crosshead screws** on the device's back cover.

**Note:**  
Please keep the screws carefully.

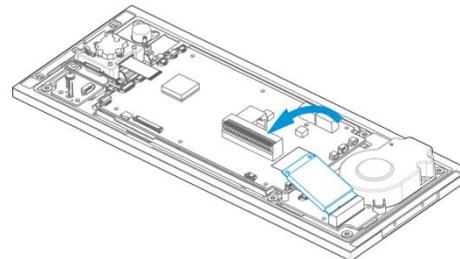


Remove the device's back cover.

**Warning:**  
Do not open the back cover when the SIM card is installed otherwise it might cause the damage to the device.



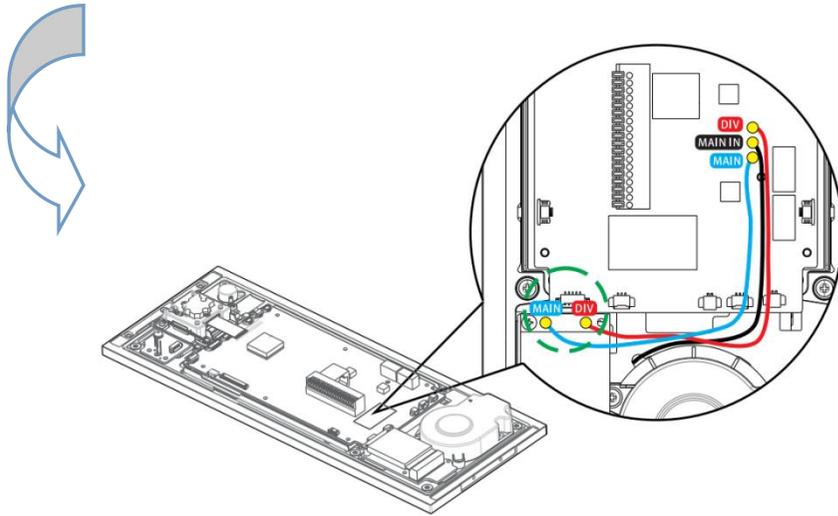
Use **M2x6 crosshead screw** to fix the module onto the bolt of device.



- Insert the **LTE module** into the interface as indicated in the figure.
- Press down the other end of module to align screw hole of left side with lower bolt.

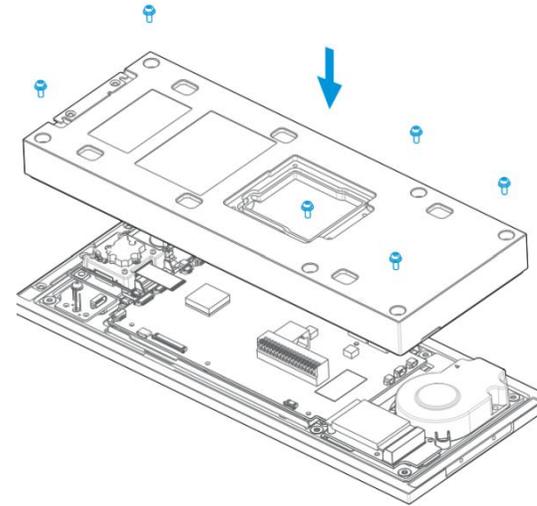


# Akuvox R29C-L



Connect the main RF cable and the div RF cable to the module as indicated in the dotted green circle. While the other ends of the two cables are already connected to the main-board.

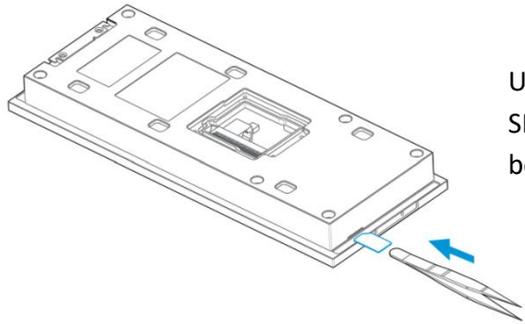
Note: The two cables are distinguished by the labels attached.



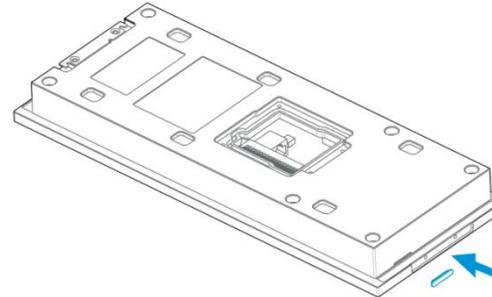
Put the back cover to the device and tighten it using the six **M3x8 crosshead screws** that are removed before.

# Akuvox R29C-L

## Step3: LTE SIM Card Installation



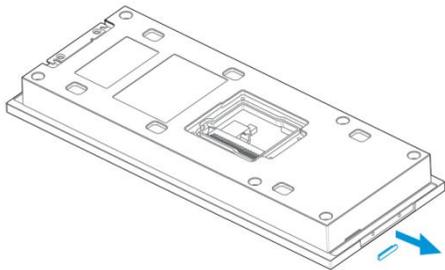
Use the back end of tweezers to push SIM card fully into card slot at the bottom until hear a click.



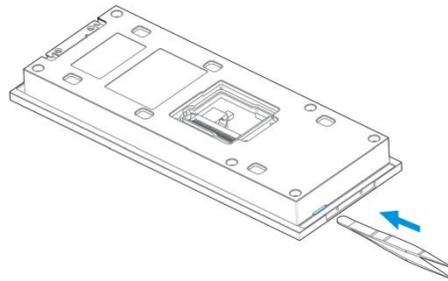
Plug the SIM card slot using the rubber plug.



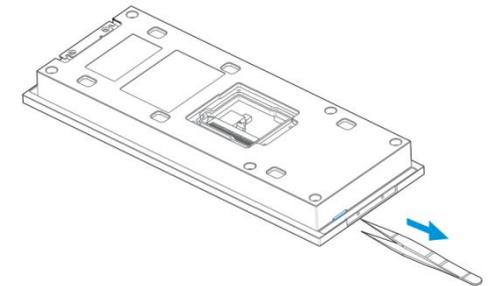
## Please follow the steps if need to remove the SIM card



Remove the SIM card rubber plug at the bottom of the device.



Use the back end of the tweezers to push the card against the slot base until hear a click.

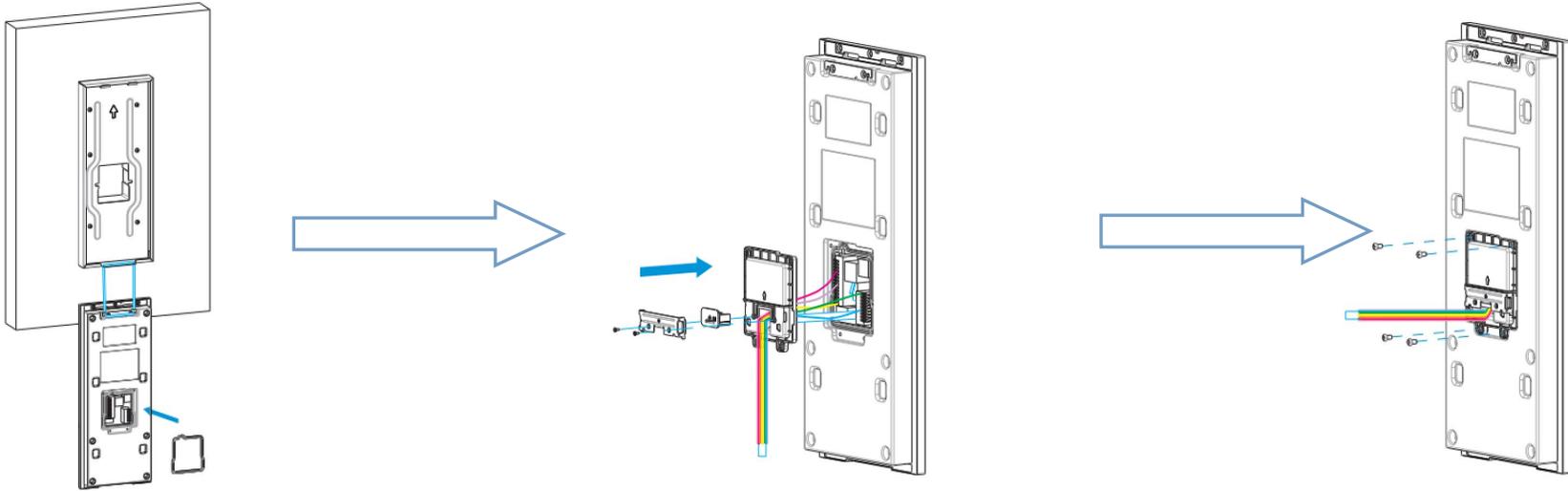


Use the tweezers to take out the SIM card from the slot



# Akuvox R29C-L

## Step4: Wiring Cover Installation



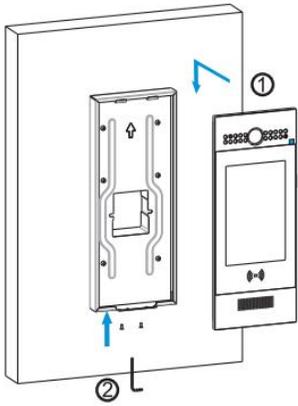
- For easier installation, hang the device on the box/bracket using a **rope**.
- Press **sealing ring** into the corresponding groove.

- Make cables go through the **wiring cover**, connecting to the corresponding interfaces as needed (for details, refer to "Wiring Interface").
- Select an appropriate **rubber plug** (small, medium, or large) to secure the wires.
- Fasten **sealing pressing plate** with two **ST1.7x4 crosshead screws**.

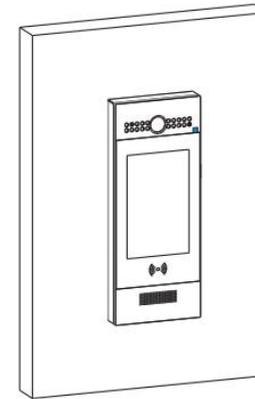
Use four **M3x5 crosshead screws** to fix the **wiring cover**.

# Akuvox R29C-L

## Step5: Device Mounting



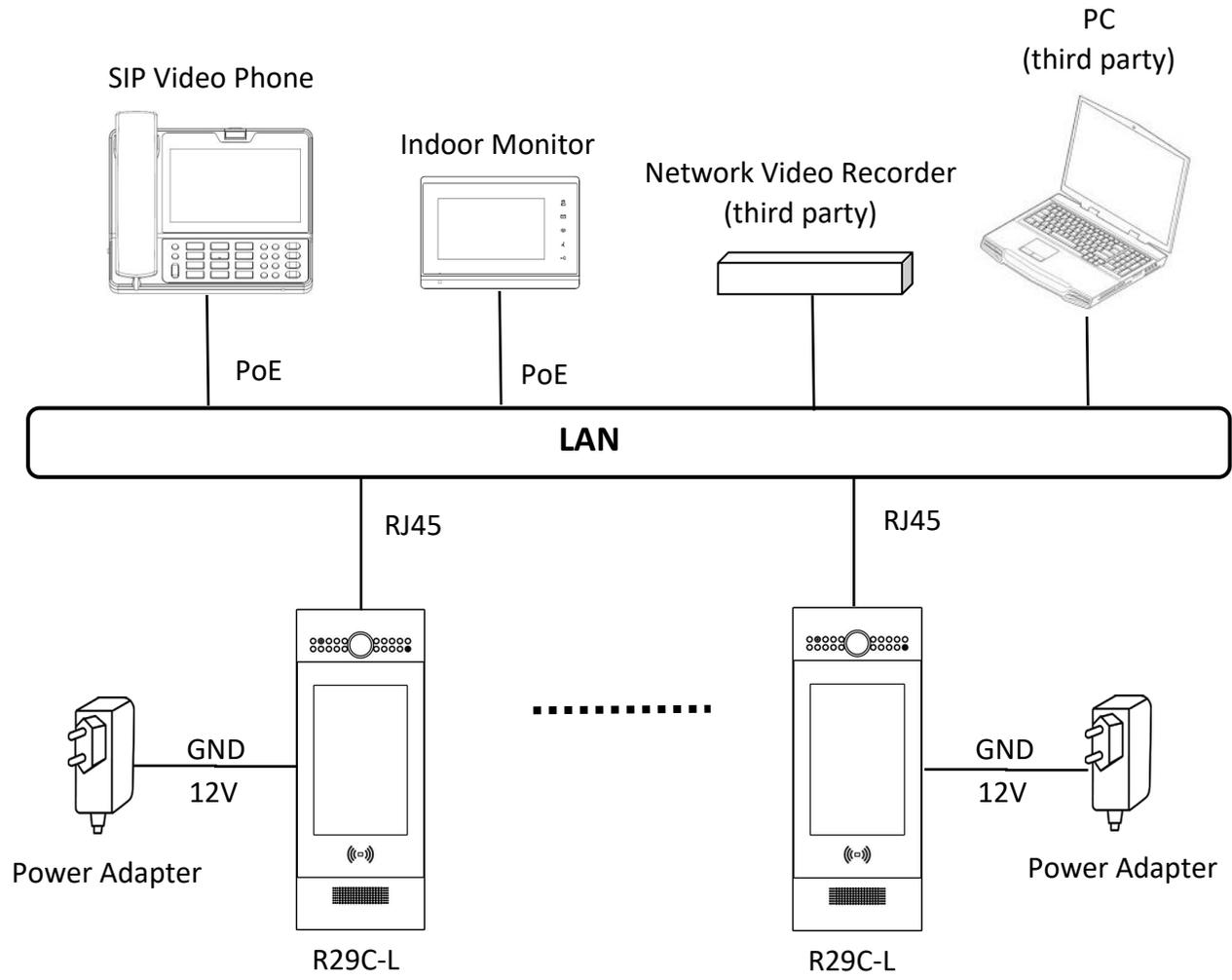
- ① Align the slots on the back upper of device with the corresponding hooks on the box, then press device downward into the box.
- ② Use the **Allen wrench** to tighten the device with two **M3x6 hex socket screws**.



Installation is completed, and please remove the protective film.

# Akuvox R29C-L

## Application Network Topology



# Akuvox R29C-L

## Device Test

Please verify the device status after installation:

1. **Network:** Press **Dial** key, enter 9999, and tap **Dial** key. Then, type 3888 and tap **OK** to access settings page. Go to **Info** to check the device's IP address and network status. Network is working properly if the IP address is obtained.
2. **Intercom:** Tap **Dial** key, enter the IP or SIP number and press **Dial** key to make a call. Or, tap APT number to 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

## 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 formation.



# Akuvox R29C-L

## *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 2023 Akuvox Ltd. All rights reserved.*

