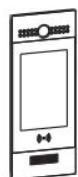# Akuvox R29C-L

Quick Guide

Unpacking

Before you start using the device, please check the version you have received and ensure that the following items are included in the shipped box:

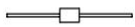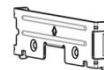|		
R29C-L x1	Wiring cover x 1	Rubber plug (small,medium, large) x3
Rope x 1	Allen wrench x 1	M3x5 crosshead screw x 4
Sealing ring x 1	M3x6 hex socket screw x 3	ST 1.7x4 crosshead screw x 2
Diode x 2	Tweezers x 1	Sealing pressing plate x 1
LTE wrench x 1		

Akuvox R29C-L

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

Wall-mounting box x 1

ST4 x 20 crosshead screw x 6

Plastic wall anchor x 6
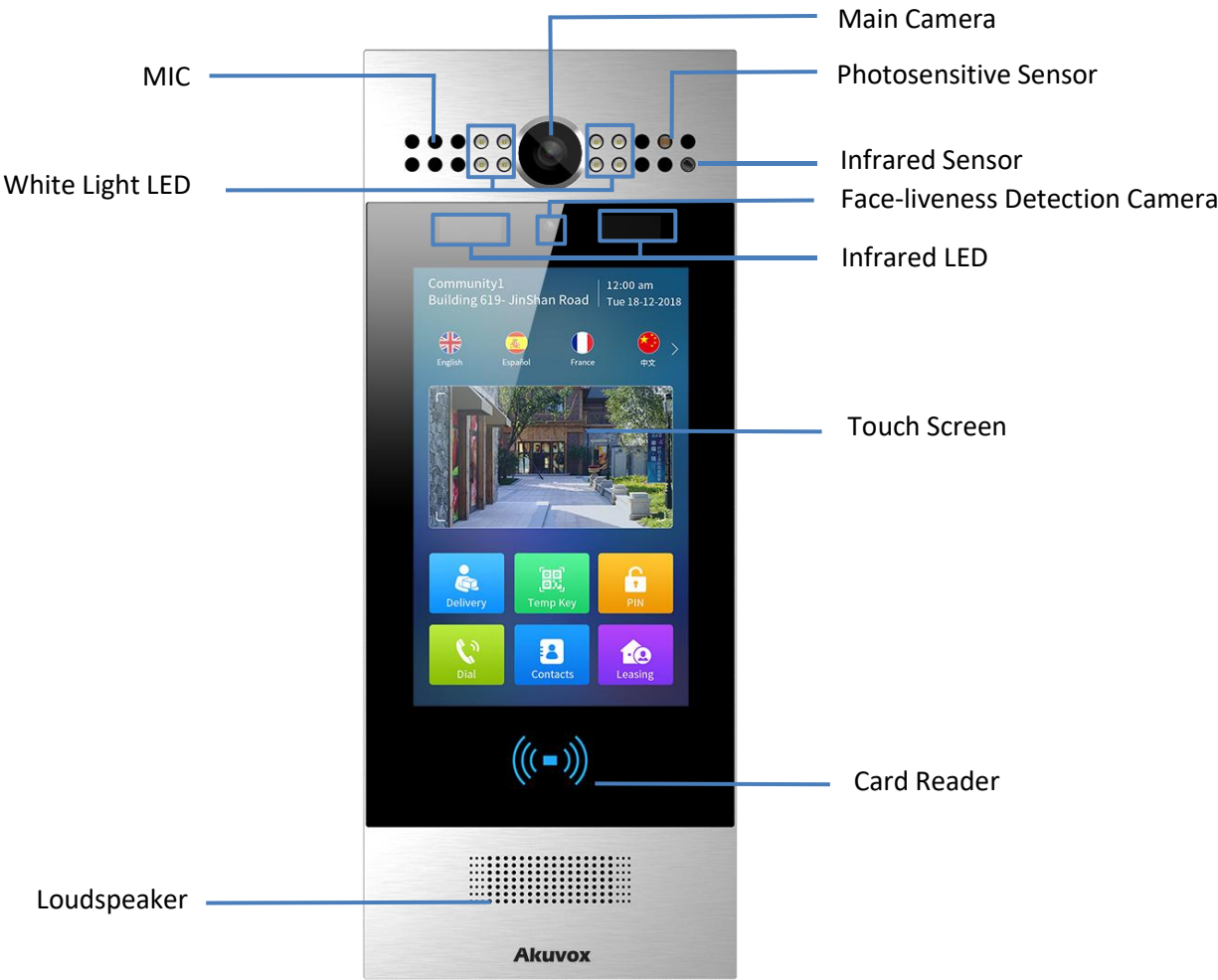
M4 x 30 crosshead screw x 2

LTE Module Accessories:

LTE module x 1

M2 x 6 crosshead screw x 2

Akuvox R29C-L

Product Overview

- MIC
- White Light LED
- Main Camera
- Photosensitive Sensor
- Infrared Sensor
- Face-liveness Detection Camera
- Infrared LED
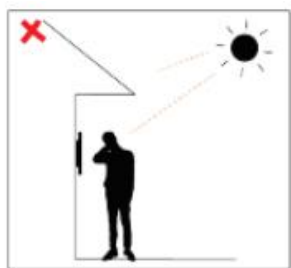- Touch Screen
- Card Reader
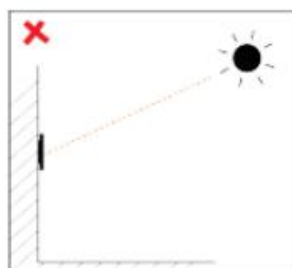- Loudspeaker

Akuvox R29C-L

Installation Environment

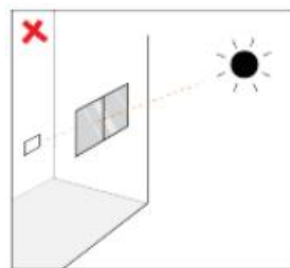Please do not place device under direct sunlight.

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.
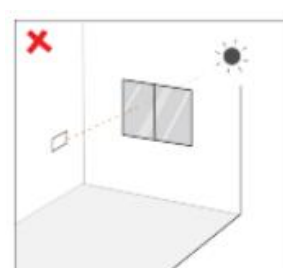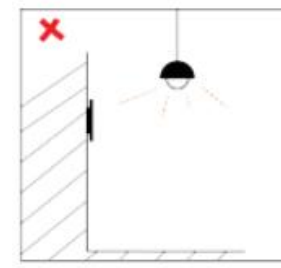
| Backlight | Direct sunlight | Direct sunlight through window | Indirect sunlight through window | Close to light |

Attention:

Biometric recognition product may not be considered 100% accurate in any identification application.

For higher security purpose or scenario, please set up access authentication along with biometric recognition.
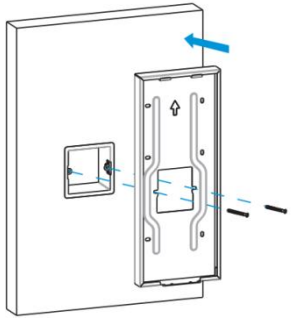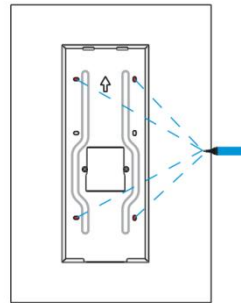
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Device Installation

Step1:   Wall-mounting Bracket Installation
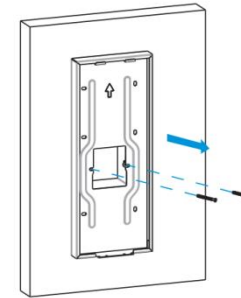
1.Wall Mounting

1.1. With 86x86 mm embedded junction box in the wall
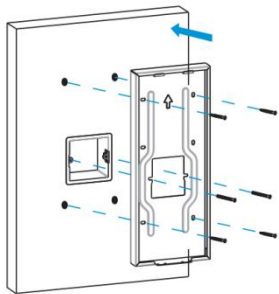
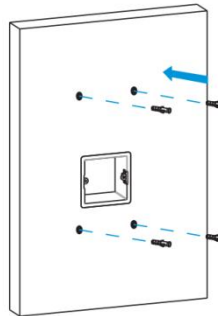Fix the wall-mounting box on to the 86 embedded box with two M4x30 crosshead screws.

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

Take down two M4x30 crosshead screws and wall-mounting box.
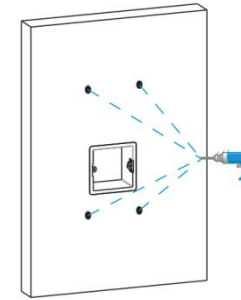
Use a hand drill with 6mm diameter bit to make holes in the marked positions.

Fix the wall-mounting box with four ST4x20 crosshead screws and two M4x30 crosshead screws.

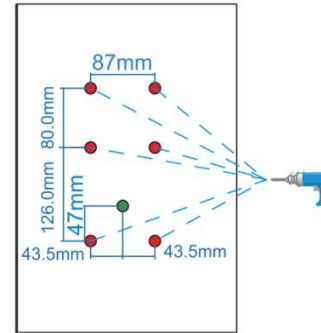Insert the plastic wall anchors into the holes.

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1.2. Without 86 embedded box in the wall
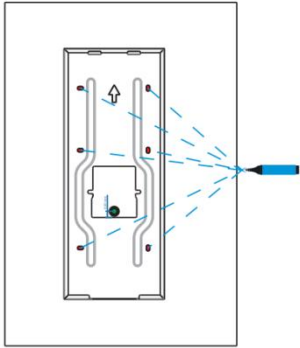
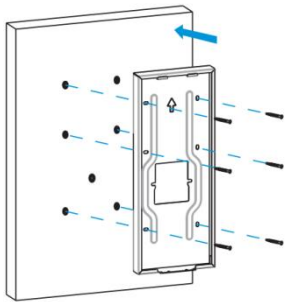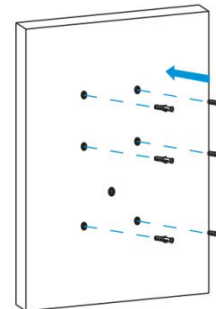Mark the six holes of the wall-mounting box on the wall.

Use a hand drill with 6mm diameter bit to make the hole in marked positions.

*Please note the relative position in the left figure and the maximum error should less than 5mm.

87mm
80.0mm
126.0mm
47mm
43.5mm   43.5mm

Fix the wall-mounting box with six ST4x20 crosshead screws.
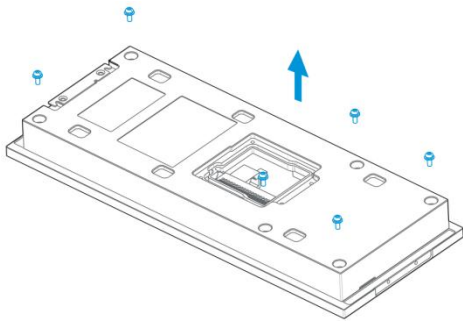
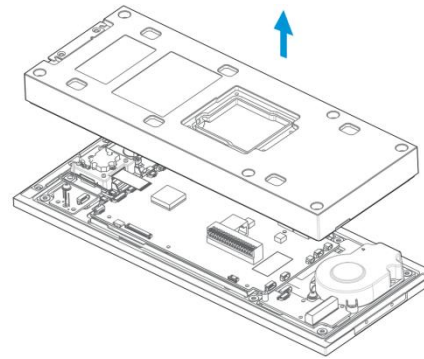Insert the plastic wall anchors into the holes you drilled before.

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Step2: LTE Module Installation

Remove the six M3x8 crosshead screws on the device's rear cover using cross screwdriver and keep the screws.

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.

Insert the LTE module connecting fingers into the interface as indicated in the drawing and press down the other end of module to line up the left screw hole with the lower screw column.

Lock the module on to the screw column of the device with the M2x6 crosshead screws.

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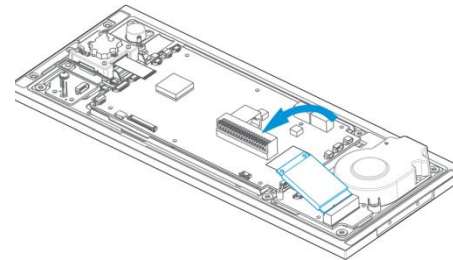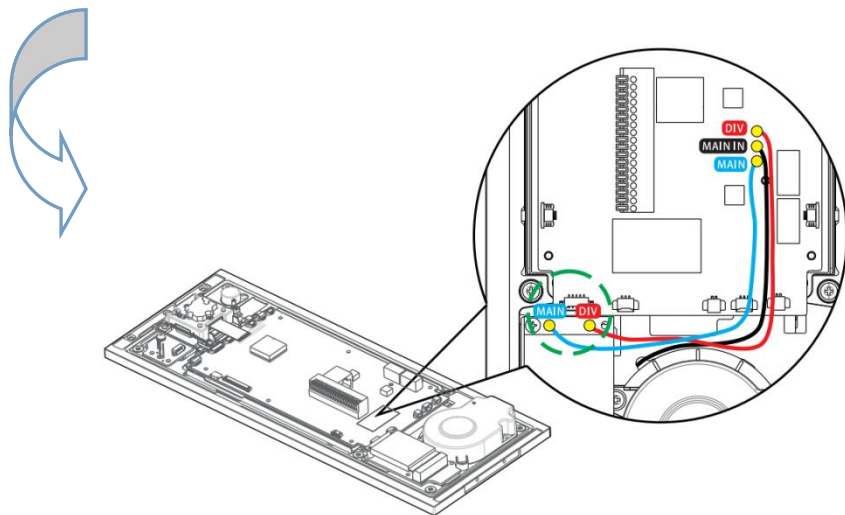Connect the main RF cable and the div RF cable to the module as indicated in the dotted green circle. While the other ends of the two cables are already connected to the main-board.

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

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

Akuvox R29C-L
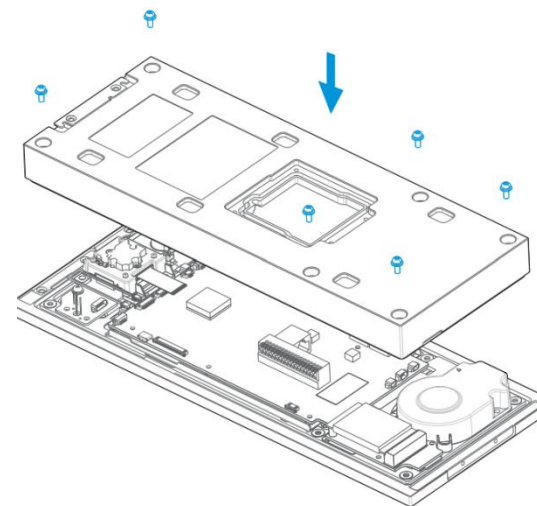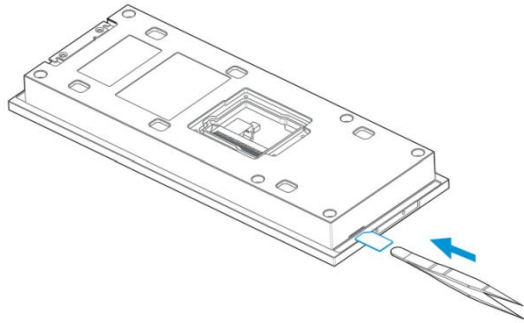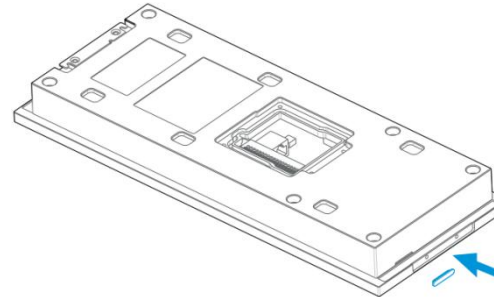
Step3: LTE SIM Card Installation

Insert the SIM card to the card slot at the bottom and push the card all the way in using the back end of the tweezers attached with the module until you hear a clattering sound.

Plug the SIM card slot using the silicone plug attached.

Please follow the steps if need to remove the SIM card
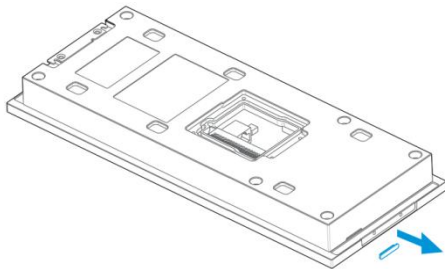
Remove the SIM card rubber plug at the bottom of the device.

Push the card against the slot base using the back end of the tweezers until you hear a clattering sound when the SIM card will be pushed out.
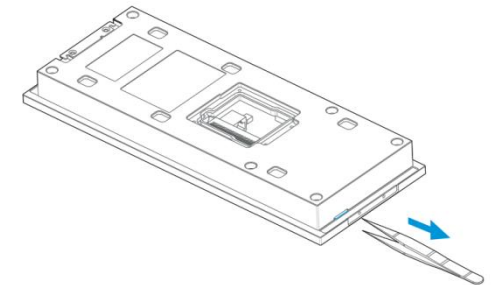
Take out the SIM card from the slot using the tweezers tips.

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Step4: Wiring Cover Installation
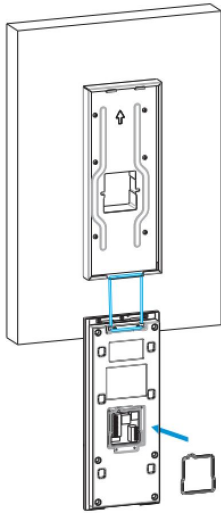
For convenient wiring, hang device on the wall-mounting box with rope. Then insert the sealing ring into the groove.
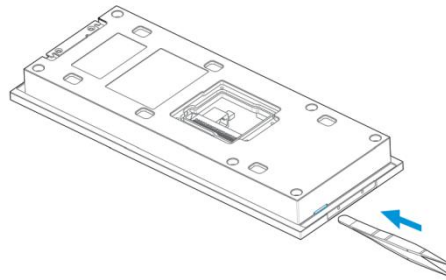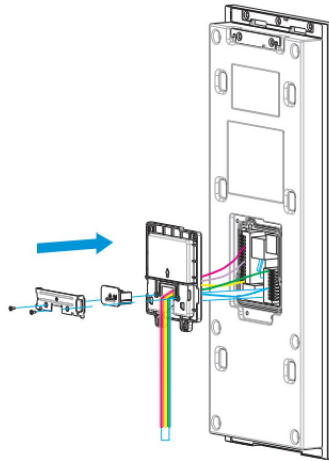
Make cables go through the wiring cover, connecting to the corresponding interfaces of the main board. Choose a suitable size rubber plug to compress cables, then fasten sealing pressing plate with two ST1.7x4 crosshead screws.
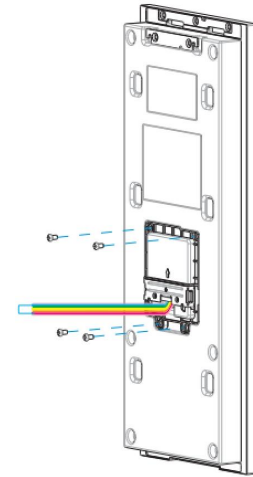
Use four M3x5 crosshead screws to fix the wiring cover.

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Step5: Device Mounting
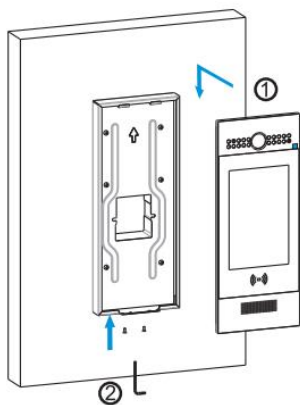
1. Place the device into the wall-mounting box until the edges of which align to the wall. Then pull the device downward and ensure the groove of it hooks to the lock catches of the back box.

2. Use the Allen wrench to tighten the device with two M3x6 crosshead screws.

Installation is completed, and please remove the protective film.

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Device Wiring

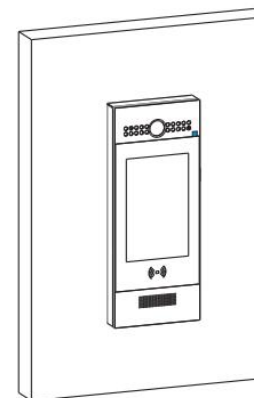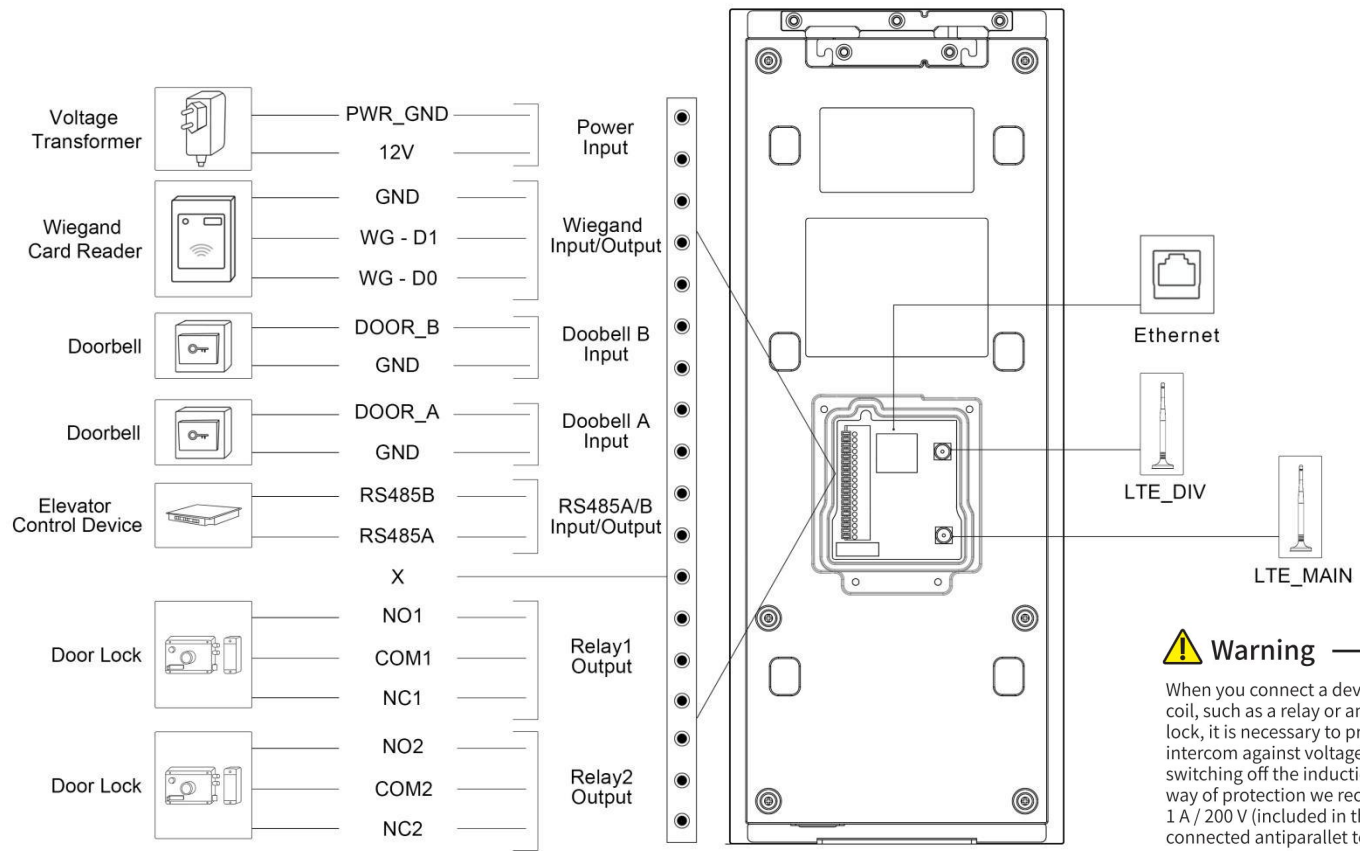| Device	Terminal	Function
Voltage Transformer	PWR_GND / 12V	Power Input
Wiegand Card Reader	GND / WG - D1 / WG - D0	Wiegand Input/Output
Doorbell	DOOR_B / GND	Doobell B Input
Doorbell	DOOR_A / GND	Doobell A Input
Elevator Control Device	RS485B / RS485A	RS485A/B Input/Output
	X	
Door Lock	NO1 / COM1 / NC1	Relay1 Output
Door Lock	NO2 / COM2 / NC2	Relay2 Output

Ethernet

LTE_DIV

LTE_MAIN

⚠ **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.

Lock   Diode
Terminals

Akuvox R29C-L

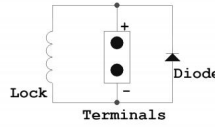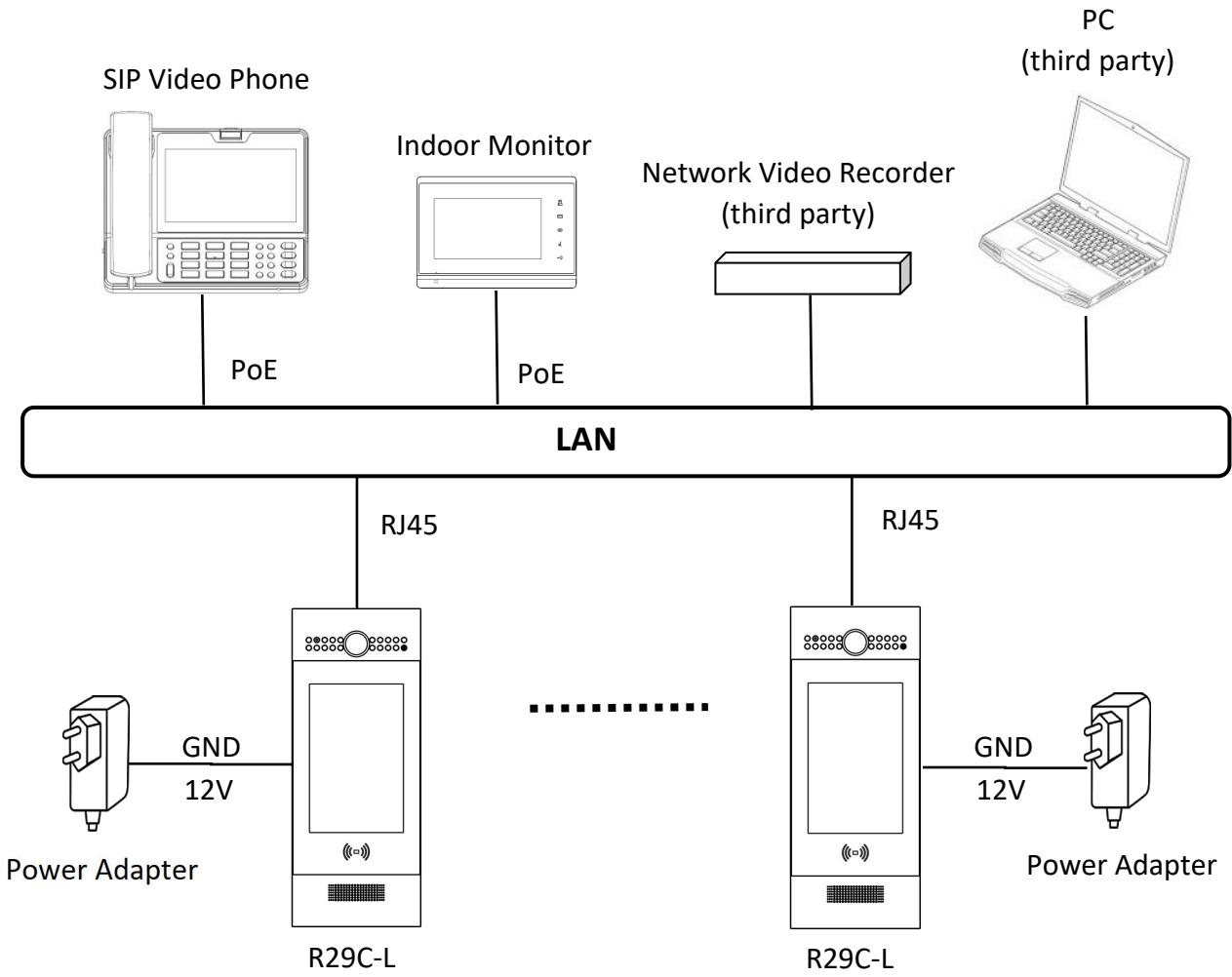## Wire Length & AWG Table

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

	20 AWG	22 AWG	24 AWG	26 AWG
12V 1.5A Adapter	≤20m	≤20m	\	\

Akuvox R29C-L

Application Network Topology

Akuvox R29C-L

Configuration

1. **IP Address Checking**: Press 9999 on the dial screen, then press 3888 to enter the system screen and click **Info** to check the device IP address. R29C-L uses DHCP by default.

2. **Account Registration**: On the device, go to **Setting > Account** to enable the function and fill in the account information, then click **Submit**. Or on the web UI, navigate to **Account > Basic** to do the configuration. (Please refer to admin guide for more information).

3. **DTMF Code Configuration**: On the device web UI, go to the path: **Intercom > Relay > Relay ID/DTMF**, choose the DTMF code number in corresponding area.

Operation

Make a call:

Enter the IP or SIP number and press **Dial tab** to make a call.

Receive a call:

R29C-L supports Auto Answer by default. Incoming call from indoor device will be answered automatically.

Unlock by PIN:

Click **PIN tab** to enter PIN code for the door access.

Unlock by RF Card:

Place the configured RF card on the RF card reader area for the door access.

Unlock by DTMF:

During the call, press the corresponding DTMF code on answer unit to unlock R29C-L remotely.

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Notice Information