



# Residential Video Intercom Bundle

User Manual

## User Manual

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This user manual is intended for users of the residential video intercom bundle.

The bundle contains:

Series	Model
Door Station	DS-KD3002-VM
Video/Audio Distributor	DS-KAD312
Indoor Station	DS-KH3200-L

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Should you have any questions, please do not hesitate to contact your local dealer.

## Regulatory Information

### FCC Information

Please take attention that changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**FCC compliance:** This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

### FCC Conditions

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

### EU Conformity Statement



This product and - if applicable - the supplied accessories too are marked with "CE" and comply therefore with the applicable harmonized European standards listed under the EMC Directive 2014/30/EU, the RoHS Directive 2011/65/EU.



2012/19/EU (WEEE directive): Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon the purchase of equivalent new equipment, or dispose of it at designated collection points. For more information see: [www.recyclethis.info](http://www.recyclethis.info)



2006/66/EC (battery directive): This product contains a battery that cannot be disposed of as unsorted municipal waste in the European Union. See the product documentation for specific battery information. The battery is marked with this symbol, which may include lettering to indicate cadmium (Cd), lead (Pb), or mercury (Hg). For proper recycling, return the battery to your supplier or to a designated collection point. For more information see: [www.recyclethis.info](http://www.recyclethis.info)

## Safety Instruction

These instructions are intended to ensure that user can use the product correctly to avoid danger or property loss.

The precaution measure is divided into **Warnings** and **Cautions**:

**Warnings:** Neglecting any of the warnings may cause serious injury or death.

**Cautions:** Neglecting any of the cautions may cause injury or equipment damage.

	
<b>Warnings</b> Follow these safeguards to prevent serious injury or death.	<b>Cautions</b> Follow these precautions to prevent potential injury or material damage.



### Warnings

- All the electronic operation should be strictly compliance with the electrical safety regulations, fire prevention regulations and other related regulations in your local region.
- Please use the power adapter, which is provided by normal company. The power consumption cannot be less than the required value.
- Do not connect several devices to one power adapter as adapter overload may cause over-heat or fire hazard.
- Please make sure that the power has been disconnected before you wire, install or dismantle the device.
- When the product is installed on wall or ceiling, the device shall be firmly fixed.
- If smoke, odors or noise rise from the device, turn off the power at once and unplug the power cable, and then please contact the service center.
- If the product does not work properly, please contact your dealer or the nearest service center. Never attempt to disassemble the device yourself. (We shall not assume any responsibility for problems caused by unauthorized repair or maintenance.)
- The video/audio distributor and its power adaptor should be placed in a fire enclosure cabinet.
- Use a qualified power adaptor to provide power for the video/audio distributor. User video/audio distributor to power the indoor station. The power that video/audio distributor provided conforms to LPS.



### Cautions

- Do not drop the device or subject it to physical shock, and do not expose it to high electromagnetism radiation. Avoid the equipment installation on vibrations surface or places subject to shock (ignorance can cause equipment damage).

- Do not place the device in extremely hot (refer to the specification of the device for the detailed operating temperature), cold, dusty or damp locations, and do not expose it to high electromagnetic radiation.
- The device cover for indoor use shall be kept from rain and moisture.
- Exposing the equipment to direct sun light, low ventilation or heat source such as heater or radiator is forbidden (ignorance can cause fire danger).
- Do not aim the device at the sun or extra bright places. A blooming or smear may occur otherwise (which is not a malfunction however), and affecting the endurance of sensor at the same time.
- Please use the provided glove when open up the device cover, avoid direct contact with the device cover, because the acidic sweat of the fingers may erode the surface coating of the device cover.
- Please use a soft and dry cloth when clean inside and outside surfaces of the device cover, do not use alkaline detergents.
- Please keep all wrappers after unpack them for future use. In case of any failure occurred, you need to return the device to the factory with the original wrapper. Transportation without the original wrapper may result in damage on the device and lead to additional costs.
- Improper use or replacement of the battery may result in hazard of explosion. Replace with the same or equivalent type only. Dispose of used batteries according to the instructions provided by the battery manufacturer.

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# 1 Introduction

## 1.1 Overview

The residential video intercom bundle is composed of an indoor station, a door station and a video/audio distributor. Featuring in the convenient installation and easy operation, it is mainly applied in the buildings for improving the living security.

## 1.2 Typical Application

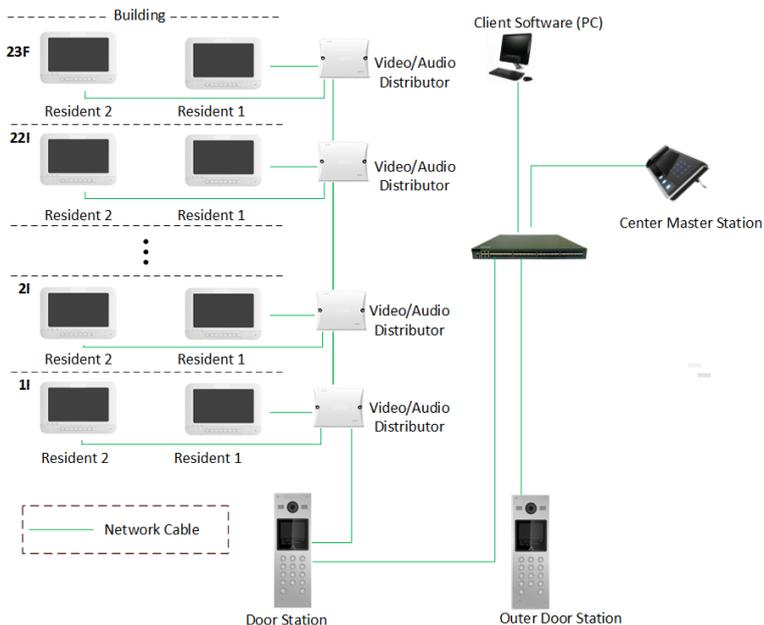


Figure 1-1 Typical Application



- Configure the room number before build the system on the video/audio distributor. See the *5 DIP Settings* for detailed DIP rules.
- The indoor station, door station and video/audio distributor are connected via network cable transferring analog signal.
- The door station, outer door station and master station should all connect to the same LAN via network cable transferring digital signal.

### 1.3 Bundle Wiring

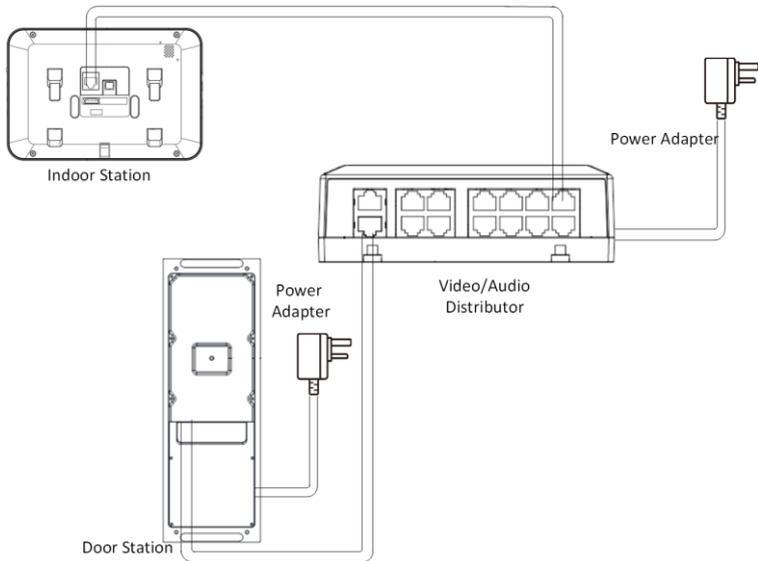
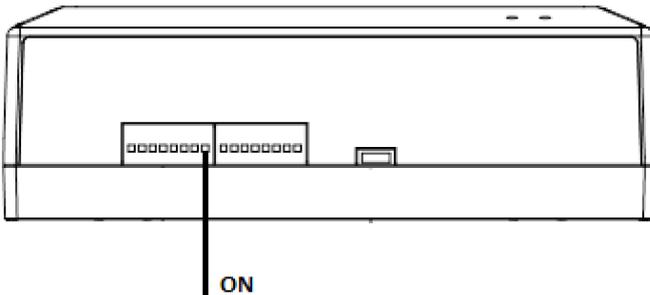


Figure 1-2 Bundle Wiring



- See the appendix for the power supply connection of door station and video/audio distributor.
- Connect LAN2 of door station to the bus input on the video/audio distributor via network cable.
- Before configure the device, set Digit 8 (RW1) as ON to adapt to the current indoor station version.





# 3 Appearance Description

## 3.1 Indoor Station

### 3.1.1 Front Panel

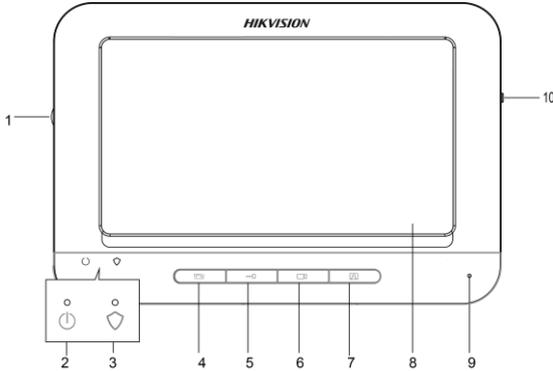


Figure 3-1 Front Panel

Table 3-1 Components Description

No.	Description
1	Volume Wheel
2	Power Supply Indicator
3	Alarm Indicator
4	Answer/Decline Key
5	Unlock Key
6	Live View Key
7	Management Center Key
8	LCD Display Screen
9	Microphone
10	Arm/Disarm Key



The Unlock key is valid only when does the indoor station speak with the door station or open the live view of the door station.

### 3.1.2 Rear Panel

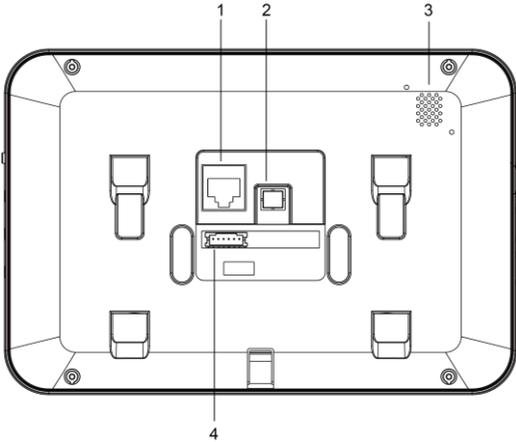


Figure 3-2 Rear Panel

Table 3-2 Components Description

No.	Description
1	Network Interface(24 VDC)
2	Reserved
3	Loudspeaker
4	Terminals

### 3.2 Door Station

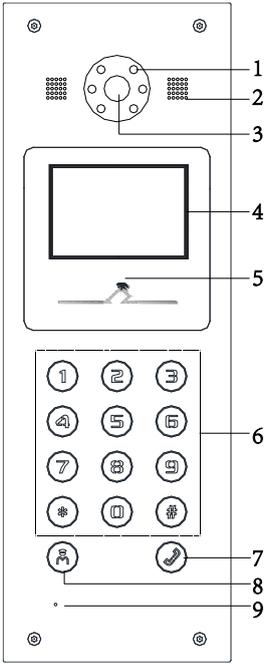


Figure 3-3 Front View

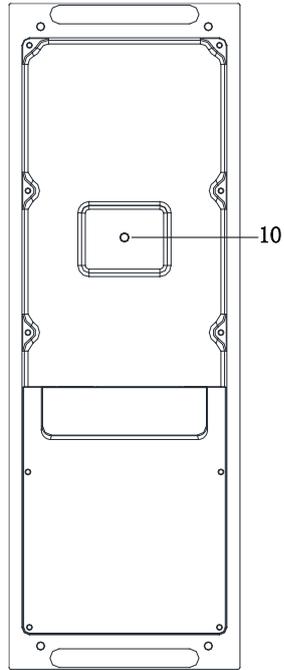


Figure 3-4 Rear View

Table 3-3 Components Description

No.	Description
1	Low Illumination Supplement Light
2	Built-in Camera
3	Loudspeaker
4	LCD Display Screen
5	Card Induction Area
6	Keypad
7	Call Button
8	Call Center Key
9	Microphone

No.	Description
10	TAMPER

### 3.3 Video/Audio Distributor

#### 3.3.1 Front Panel/Back Panel

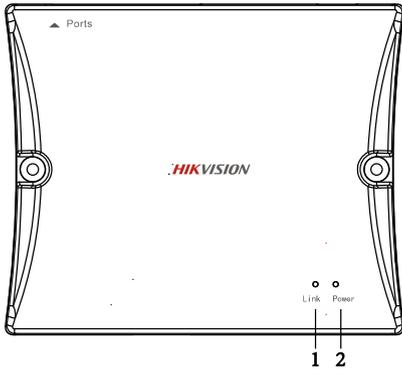


Figure 3-5 Front Panel

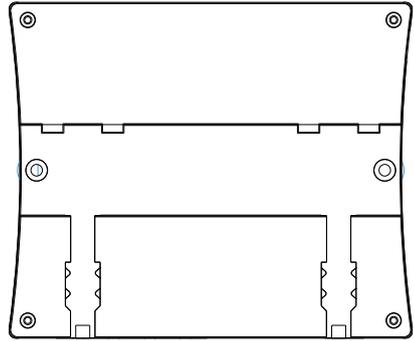


Figure 3-6 Back Panel

Table 3-4 Components Description

No.	Description
1	Signal Indicator
2	Power Indicator

### 3.3.2 Side Panel

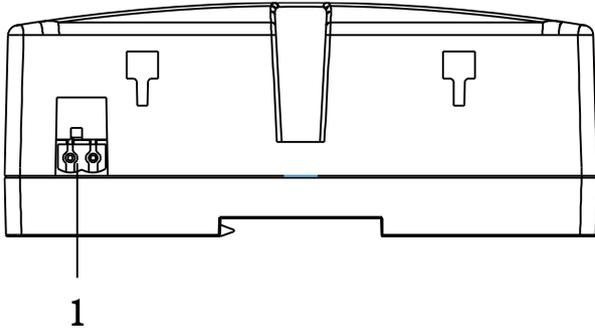


Figure 3-7 DS-KAD312 Side Panel 1

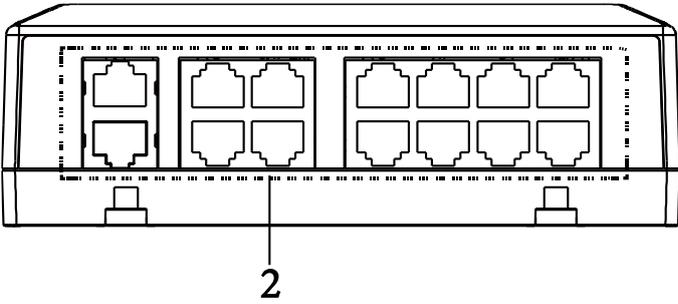


Figure 3-8 DS-KAD312 Side Panel 2

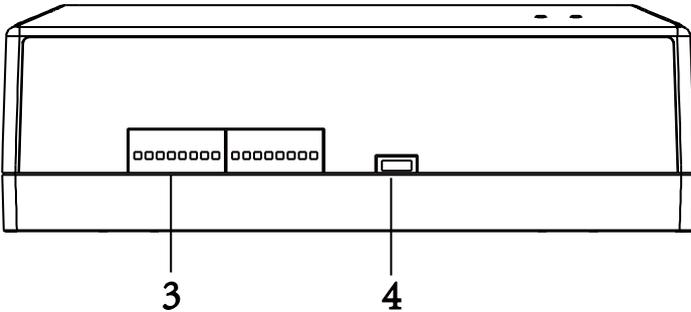


Figure 3-9 DS-KAD312 Side Panel 3

Table 3-5 Components Description

No.	Description
1	Power Socket

2	Network Interface
3	DIP Switch
4	Serial Port

# 4 Terminals and Wirings

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## 4.1 Terminals

### 4.1.1 Indoor Station Terminals

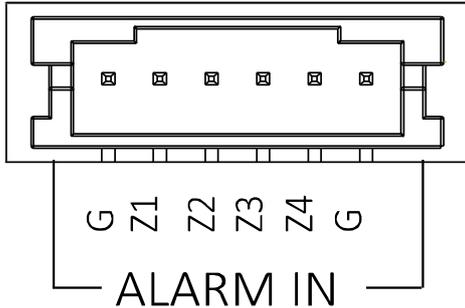


Figure 4-1 Terminals of DS-KH3200-L

Table 4-1 Descriptions of Terminals and Interfaces

No.	Description
G	Grounding
Z1	Zone Detector Input Terminal 1(Smoke Detector)
Z2	Zone Detector Input Terminal 2(Gas Detector)
Z3	Zone Detector Input Terminal 3(Door Magnetic)
Z4	Zone Detector Input Terminal 4(Active Infrared)
G	Grounding

### 4.1.2 Door Station Terminals

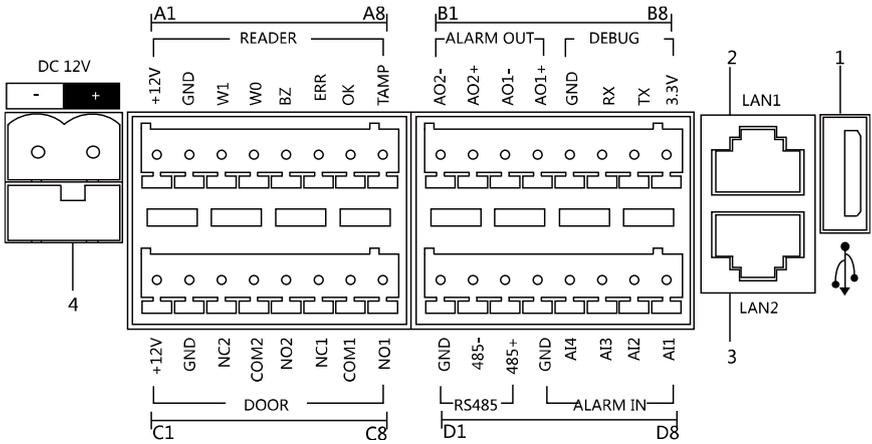


Figure 4-2 Terminals and Interfaces of DS-KD3002-VM

Table 4-2 Descriptions of Terminals and Interfaces

Name	No.	Interface	Description
USB	1	USB	USB Interface
LAN	2	LAN1	Network Interface
	3	LAN2	Analog Interface
Power Supply	4	DC 12V	DC 12V Power Supply Input
READER	A1	12V	Power Supply Output
	A2	GND	Grounding
	A3	W1	Data Input Interface Wiegand Card Reader: Data1
	A4	W0	Data Input Interface Wiegand Card Reader: Data0
	A5	BZ	Card Reader Buzzer Output
	A6	ERR	Card Reader Indicator Output (Invalid Card Output)
	A7	OK	Card Reader Indicator Output (Valid Card Output)
	A8	TAMP	Tamper-proof Input of Wiegand Card Reader
ALARM	B1	AO2-	Alarm Relay Output 2

Name	No.	Interface	Description
OUT	B2	AO2+	Alarm Relay Output 1
	B3	AO1-	
	B4	AO1+	
DEBUG	B5	GND	Grounding
	B6	RX	Serial Port Debugging/Receive data
	B7	TX	Serial Port Debugging/Send data
	B8	3.3V	Serial Port Debugging/Power Supply
DOOR	C1	12V	Power Supply Output
	C2	GND	Grounding
	C3	NC2	Door Lock Relay Output (NC)
	C4	COM2	Grounding Signal
	C5	NO2	Door Lock Relay Output (NO)
	C6	NC1	Door Lock Relay Output (NC)
	C7	COM1	Grounding Signal
	C8	NO1	Door Lock Relay Output (NO)
RS485	D1	GND	RS-485 Communication Interfaces
	D2	485-	
	D3	485+	
ALARM IN	D4	GND	Grounding Signal
	D5	AI4	Alarm Input 4
	D6	AI3	Alarm Input 3
	D7	AI2	Alarm Input 2
	D8	AI1	Alarm Input 1

### 4.1.3 Video/Audio Distributor Interfaces

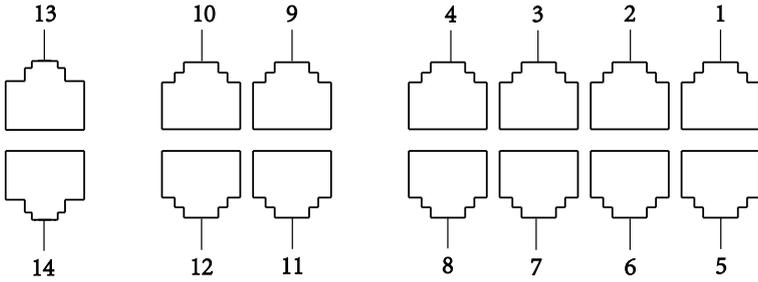


Figure 4-3 Network Interfaces of DS-KAD312

Table 4-3 Descriptions of Interfaces

No.	Description	No.	Description
1	Decoding Output Interface 1	8	Decoding Output Interface 8
2	Decoding Output Interface 2	9	Decoding Output Interface 9
3	Decoding Output Interface 3	10	Decoding Output Interface 10
4	Decoding Output Interface 4	11	Decoding Output Interface 11
5	Decoding Output Interface 5	12	Decoding Output Interface 12
6	Decoding Output Interface 6	13	Bus Output Interface
7	Decoding Output Interface 7	14	Bus Input Interface



- Interface (No.1 to 12) can provide power (24 VDC) for indoor station. It cannot connect to other device directly.
- Interface (No.13) is the bus output interface. It supports connect signal-amplifier or other video audio distributor.
- Interface (No.14) is the bus input interface. It supports video and audio input and audio output, and connects to door station and other video audio distributor.

## 4.2 Wirings

### 4.2.1 Indoor Station Wiring

There are 6 pins in the terminal on the rear panel of the indoor station: 2 GND pins and 4 alarm input pins.

To access the alarm input device, refer to Figure 4-4.

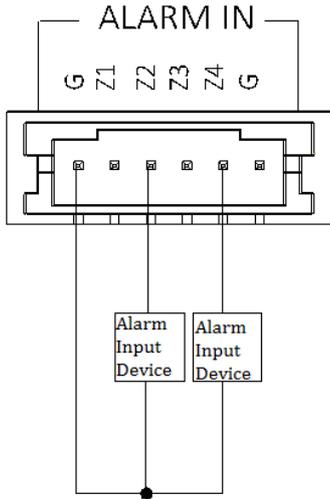


Figure 4-4 Wiring Description (Alarm Input Device)



The accessed detector should be normally closed.

## 4.2.2 Door Station Wiring

### Door Lock Wiring

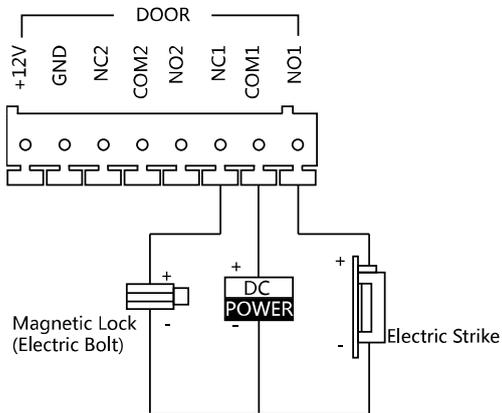


Figure 4-5 Door Lock Wiring



- Terminal NC1/COM1 is set as default for accessing magnetic lock/electric bolt; terminal NO1/COM1 is set as default for accessing electric strike.
- To connect electric lock in terminal NO2/COM2/NC2, it is required to set the output of terminal NO2/COM2/NC2 to be electric lock with Batch Configuration Tool or iVMS-4200.

### Door Magnetic Wiring

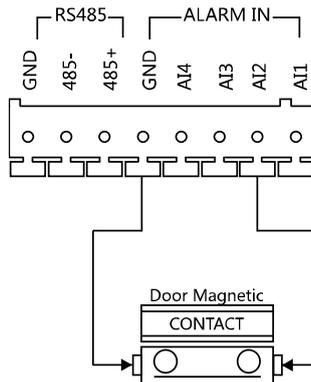


Figure 4-6 Door Magnetic Wiring



To connect the door magnetic, it is required to set the output of terminal AI2 to be door magnetic with Batch Configuration Tool or iVMS-4200.

### Exit Button Wiring

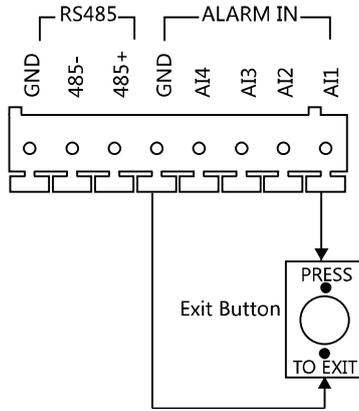


Figure 4-7 Exit Button Wiring



Terminal S1 is set as default for connecting exit button.

### External Card Reader Wiring



- Please set the DIP switch first before connecting the card reader.
- If the DIP switch should be configured when the card reader is power-on, please reboot the card reader after configuring the DIP switch.
- The DIP switch description is shown in the following table:

No.	Description	How to Configure
1-4	Set the RS-485 address	ON: 1 OFF: 0
6	Select Wiegand protocol or RS-485 protocol	ON: Wiegand OFF: RS-485
7	Set the Wiegand protocol (It is invalid when setting OFF in 6.)	ON: Wiegand 26 OFF: Wiegand 34

### RS-485 Card Reader Wiring

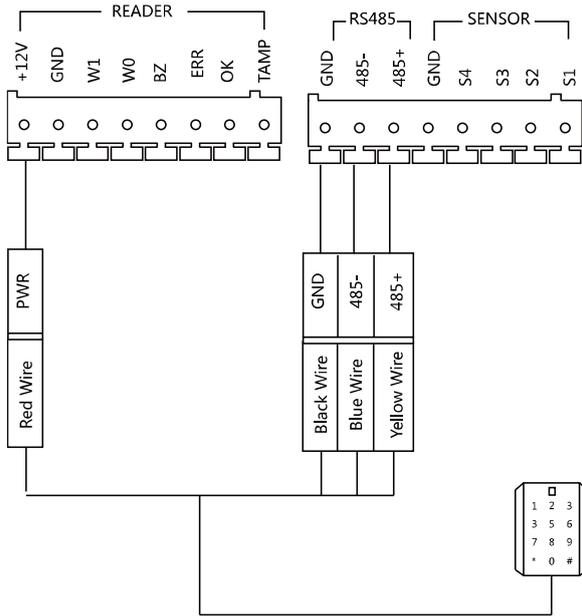


Figure 4-8 RS-485 Card Reader Wiring

Wiegand Card Reader Wiring

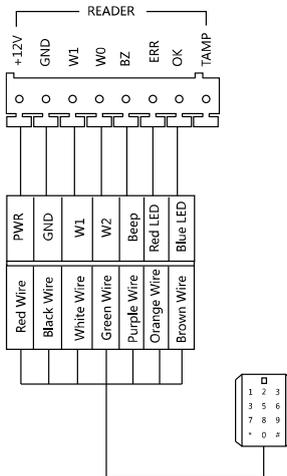


Figure 4-9 External Card Reader Wiring

### Alarm Device Input Wiring

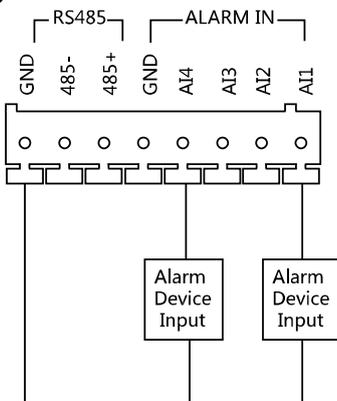


Figure 4-10 Alarm Device Input Wiring

### Alarm Device Output Wiring

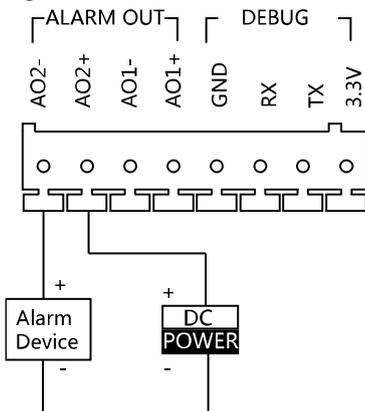


Figure 4-11 Alarm Device Output Wiring

# 5 DIP Settings

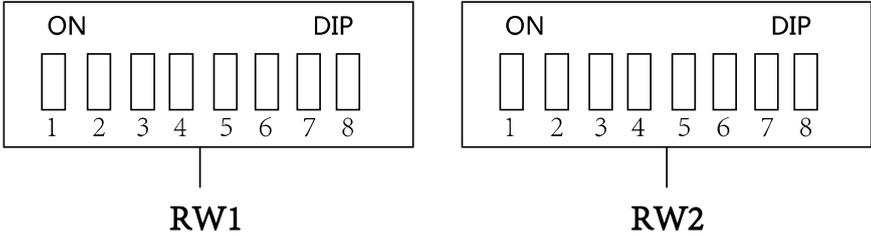


Figure 5-1 DIP Switches of DS-KAD312

Table 5-1 Descriptions of RW1 and RW2

Digit (RW1)	1	2	3	4	5	6	7	8
Function (RW1)	Floors	Floors	Reserved	Room No.	Room No.	Room No.	Reserved	Mode
Digit (RW2)	1	2	3	4	5	6	7	8
Function (RW2)	Floors	Floors	Floors	Floors	Floors	Floors	Floors	Floors



- The DIP switch (RW1) is used to configure the DIP rules. Digit 8 (RW1) is used to control the mode.
- Before configure the device, set Digit 8 (RW1) as ON to adapt to the current indoor station version.
- The DIP switch (RW2) is used to configure the start floor No..

## 5.1 Configure RW 1

### RW 1 Configuration for Single Distributor

When there is only one distributor in the system, configure the Digit 1, Digit 2 and Digit3 of RW1 to define the floor number.

Table 5-2 RW1 Configuration for Single Distributor

Digit (RW1)	1	2	3	4	5	6	7	8	Floor No.
Status	OFF	OFF	OFF	*	*	*	*	ON	1 floor with 12 households
	ON	OFF	OFF	*	*	*	*	ON	2 floors with 6 households each
	OFF	ON	OFF	*	*	*	*	ON	3 floors with 4 households each
	ON	ON	OFF	*	*	*	*	ON	4 floors with 3 households each
	OFF	OFF	ON	*	*	*	*	ON	6 floors with 2 households each



- \* means irrelevant, ON means 1, OFF means 0.
- Digit 1 and Digit 2 (RW1) are set as OFF by default, means 1 floor with 12 households.
- Digit 8 (RW1) is used to set the distributor mode. ON means the current indoor station version, OFF means the former version.

### RW 1 Configuration for More than One Distributor

When there are more than 12 households in one floor, you need more than one distributor. The configuration steps as below:

**Steps:**

1. Set the digit value of Digit 1, Digit 2 to define the floor No..

Table 5-3 RW1 Configuration for More than One Distributor

Digit (RW1)	1	2	3	4	5	6	7	8	Floor No.
Status	OFF	OFF	OFF	*	*	*	*	ON	1 floor with 12 households
	ON	OFF	OFF	*	*	*	*	ON	2 floors with 6 households each
	OFF	ON	OFF	*	*	*	*	ON	3 floors with 4 households each

Digit (RW1)	1	2	3	4	5	6	7	8	Floor No.
	ON	ON	OFF	*	*	*	*	ON	4 floors with 3 households each
	OFF	OFF	ON	*	*	*	*	ON	6 floors with 2 households each



- \* means irrelevant, ON means 1, OFF means 0.
- Digit 1 and Digit 2 (RW1) are set as OFF by default, means 1 floor with 12 households.
- Digit 8 (RW1) is used to set the distributor mode. ON means the current indoor station version, OFF means the former version.

2. Set the digit value of Digit 4, Digit 4 and Digit 6 to define the room No..

Table 5-4 RW1 Configuration for More than One Distributor

Digit (RW1)	1	2	3	4	5	6	7	8	Room No. of				
									F1	F2	F3	F4.	F5
									Status	*	*	*	OFF
*	*	*	ON	OFF	OFF	*	*	13-24		7-12	5-8	4-6	3-4
*	*	*	OFF	ON	OFF	*	*	25-36		13-18	9-12	7-9	5-6
*	*	*	ON	ON	OFF	*	*	37-48		19-24	13-16	10-12	7-8
*	*	*	OFF	OFF	ON	*	*	49-60		25-30	17-20	13-15	9-10
*	*	*	ON	OFF	ON	*	*	61-72		31-36	21-24	16-18	11-12

Digit (RW1)	1	2	3	4	5	6	7	8	Room No. of				
									F1	F2	F3	F4	F5
	*	*	*	OFF	ON	ON	*	*	73-84	37-42	25-28	19-21	13-14
	*	*	*	ON	ON	ON	*	*	85-96	43-48	29-32	22-24	15-16



- \* means irrelevant, ON means 1, OFF means 0.
- Digit 4, Digit 5 and Digit 6 (RW1) are set as OFF by default. When Digit 4 and Digit 5 are set as OFF, it means 1 floor with 12 households.  
For example, if you set the device as the table below, then the Room No. are 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23 and 24.

Table 5-5 RW1 Configuration Example of DS-KAD312( for More than 1 Distributor)

Digit (RW1)	1	2	3	4	5	6	7	8
Status	OFF	OFF	OFF	ON	OFF	OFF	*	ON

## 5.2 Configure RW 2

- RW2 is used to set the start floor No.. The configuration as below:
- Set the status (ON/OFF) of each digit to define the start floor. The sum of the binary values of digits is the start floor No..

Table 5-6 RW2 Configuration of DS-KAD312

Digit (RW2)	1	2	3	4	5	6	7	8
Binary Value	1	2	4	8	16	32	64	128
Status	ON/OFF							

For example, if you set Digit1, Digit2 and Digit4 to be ON (as the table below), then the start floor No. is 11. That is,  $1+2+8=11$ .

Table 5-7 RW2 Configuration Example of DS-KAD312

<b>Digit (RW2)</b>	1	2	3	4	5	6	7	8
<b>Binary Value</b>	1	2	4	8	16	32	64	128
<b>Status</b>	ON	ON	OFF	ON	OFF	OFF	OFF	OFF

# 6 Installation

## 6.1 Indoor Station Installation

### 6.1.1 Installation Accessory Description

The wall mounting plate and the junction box are required to install the indoor station onto the wall.

The dimension of junction box should be 75 mm (width) × 75 mm (length) × 50 mm (depth).

The dimension of wall mounting plate is shown in Figure 6-1.

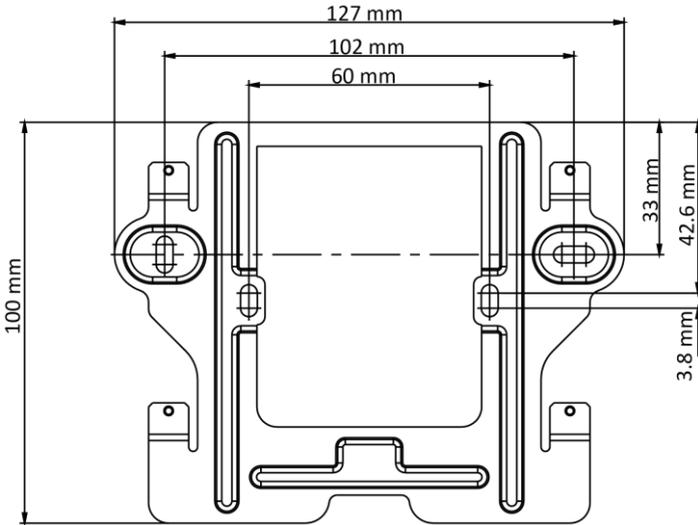


Figure 6-1 Wall Mounting Plate

### 6.1.2 Wall Mounting with Junction Box

#### *Before you start:*

- Make sure the device in the package is in good condition.
- The power supply the indoor station supports is 24 VDC. Please make sure your power supply matches your indoor station.
- Make sure all the related equipment is power-off during the installation.
- Check the product specification for the installation environment.

#### *Steps:*

1. Chisel a hole in the wall. The size of the hole should be 76 mm (width) × 76 mm (length) × 50 mm (depth).
2. Insert the junction box to the hole chiseled on the wall.
3. Fix the wall mounting plate to the junction box with 2 screws.

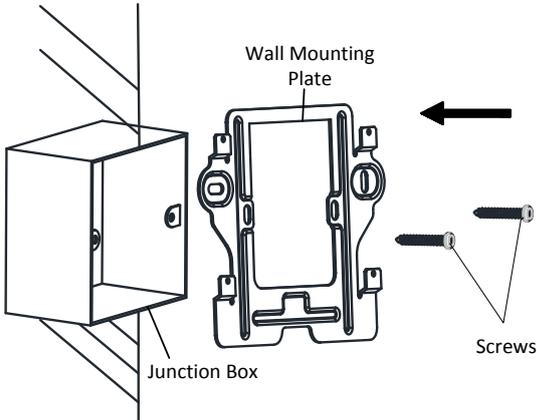


Figure 6-2 Installing the Plate

4. Hook the indoor station to the wall mounting plate tightly by inserting the plate hooks into the slots on the rear panel of the indoor station, during which the lock catch will be locked automatically.

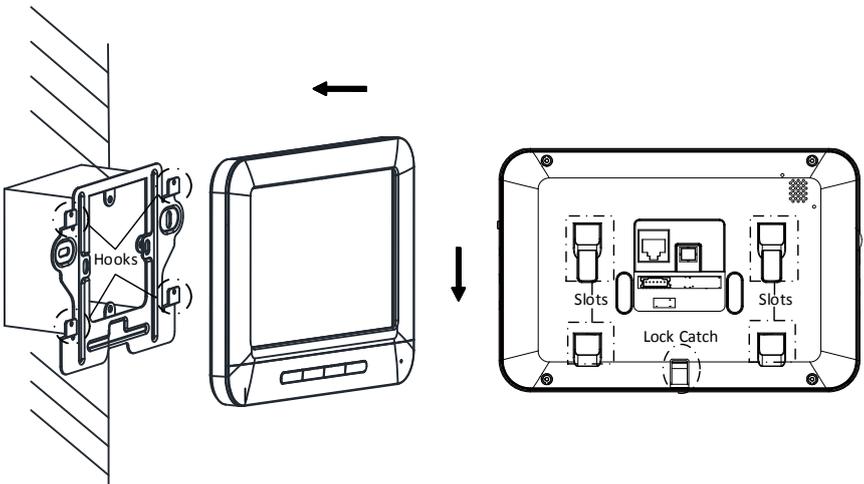


Figure 6-3 Hooking the Indoor Station to the Plate

## 6.2 Door Station Installation

### 6.2.1 Installation Accessory Description

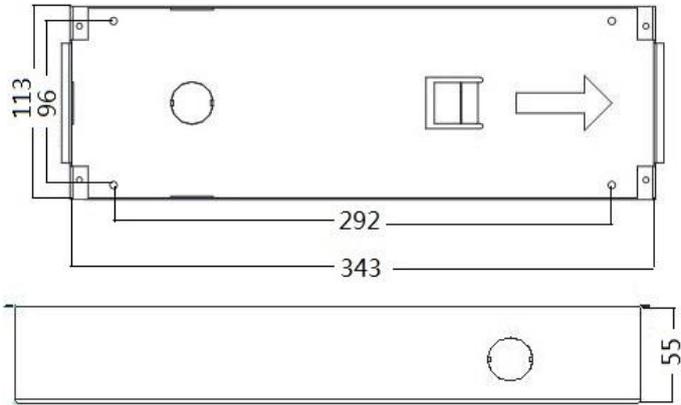


Figure 6-4 Front and Side View



- The dimension of gang box for model DS-KD3002-VM door station is: 343(length) × 113(width) × 55(depth) mm.
- The dimensions above are for reference only. The actual size can be slightly different from the theoretical dimension.

### 6.2.2 Wall Mounting with Gang Box

#### Steps:

1. Chisel a hole in the wall for inserting the gang box. The size of the hole should be larger than that of the gang box. The suggested size of hole is 343.5 (length) × 113.5 (width) × 55.5 (depth) mm.
2. Insert the gang box into the hole and fix it with 4 PA4 screws.

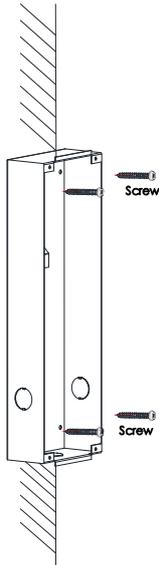


Figure 6-5 Insert the Gang Box into the Wall

3. Make sure the edges of the gang box align to the wall.
4. Route the cables of the door station through the cable hole.
5. Put the door station into the gang box.

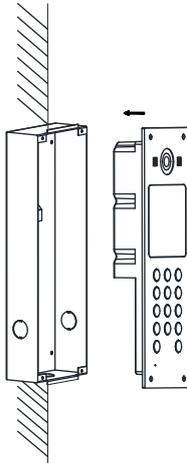


Figure 6-6 Install the Door Station

6. Fix the door station to the gang box with 4 crews.

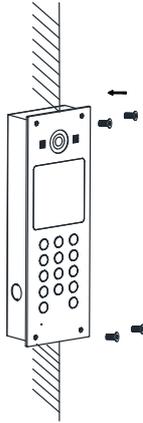


Figure 6-7 Tighten the Screws of Device

## 6.3 Video/Audio Distributor Installation

Video/audio distributor can be set on a desk and also support wall mounting.

The wall mounting steps as below:

**Steps:**

1. Chisel two holes in the wall. The diameter of the hole is 3 mm, and the distance between two holes is 136 mm.
2. Fix the device onto the wall by it with two PA4 screws.

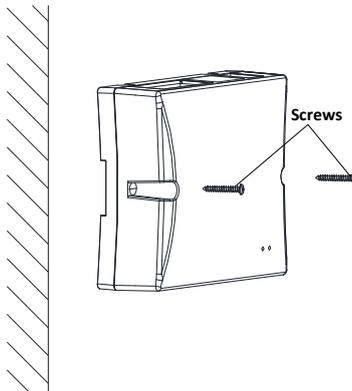


Figure 6-8 Wall Mounting-1

3. Installation completes.

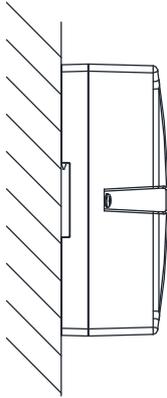


Figure 6-9 Wall Mounting-2

# 7 Local Operation

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## 7.1 Getting Started

### **Before you start:**

- Make sure all devices in the bundle have been well connected.
- The power supply the indoor station supports is 24 VDC. Please make sure your power supply matches your indoor station.

### **Steps:**

1. Power on the indoor station, door station.
2. Configure the room no. according to the *5DIP Settings*.

## 7.2 Initiate Video Intercom

You can call the indoor station via the door station. And the indoor station will capture the image automatically once the door station initiates a call to the indoor station.

### **Steps:**

1. Press the Call button on the door station to start a video call to indoor station.
2. Press  to accept the call and press  again to hang up the call.



- The maximum ring duration of the indoor station is 30s.
- The maximum speaking duration is 60s.

## 7.3 Unlock the Door

In the following 3 situations, you can unlock the door remotely on the indoor station.

- When someone press the Call button on the door station to call the indoor station, press  to unlock the door.
- When you are answering the call from the door station, press  to unlock the door.
- When you are view the live view of the door station, press  to unlock the door.



The maximum ring duration of the indoor station is 30s.

# Appendix

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## Video/Audio Distributor Power Supply

It needs two parts to power the video/audio distributor: power cable and power box, as below.



Figure 7-1 Power Cable



Figure 7-2 Power Box

To power the video/audio distributor, you need to connect the cable and power box as below:

**Steps:**

1. Cut and peel the cable as below.



Figure 7-3 Cut and Peel the Cable



The three lines' description:

Color	Description
Yellow-green	Grounding Line
Brown	Fire Line
Blue	Zero Line

2. Peel the three lines to expose the metal wire and connect to the terminal of the power box accordingly.



Figure 7-4 Connect to the Power Box



Power box terminal description:

Terminal	Description
L(+)	Fire Line
N(-)	Zero Line
FG	Grounding Line
-V	Negative Pole
+V	Positive Pole

3. Connect the negative pole and positive pole to the video/audio distributor accordingly.

## Door Station Power Supply

The power adapter for door station as below.



Figure 7-5 Power Adapter

To power the door station, you need to deal with the adapter as below:

**Steps:**

1. Cut and peel the cable to exposure the metal wire as below.

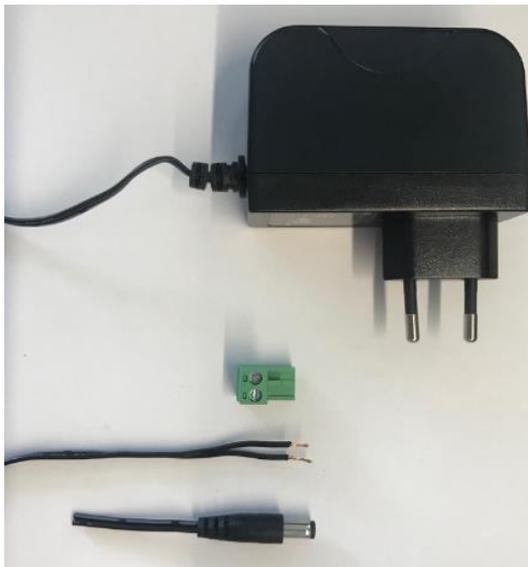


Figure 7-6 Cut and Peel the Cable

2. Plug the wire in to the block, and fixed.



Figure 7-7 Connect to the Power Box

3. Connect the block to the door station's power supply input terminal accordingly.



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