



# Video Intercom Card Reader Module

Quick Start Guide



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## **Quick Start Guide**

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This quick start guide is intended for users of card reader module: DS-KD-M (13.56 MHz) and DS-KD-E (125 KHz).

Card reader module is the component of the module door station. Use it along with the main unit.

It includes instructions on how to use the Product. The software embodied in the Product is governed by the user license agreement covering that Product.

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## **Support**

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 B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

### 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, LVD Directive 2014/35/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

- The working temperature of the device is from -40° C to 60° C.
- 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 power supply must conform to LPS. The recommended adaptor models and manufacturers are shown as below. Use the attached adaptor, and do not change the adaptor randomly.

Model	Manufacturer	Standard
ADS-24S-12 1224GPCN	Shenzhen Honor Electronic Co., Ltd.	GB
KPL-060F-VI	Channel Well Technology Co., Ltd.	GB



### 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.
- 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 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.
- The warranty does not apply to the product defects and failures arisen as a result of improper mounting (in contradiction herewith).
- When the proper mounting instructions are not met, water might get in and destroy the electronics.

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# 1 Overview

Card reader module supports issue cards and unlock door via swiping card. It works together with the main unit and other sub modules.

Its appearance is shown as below.

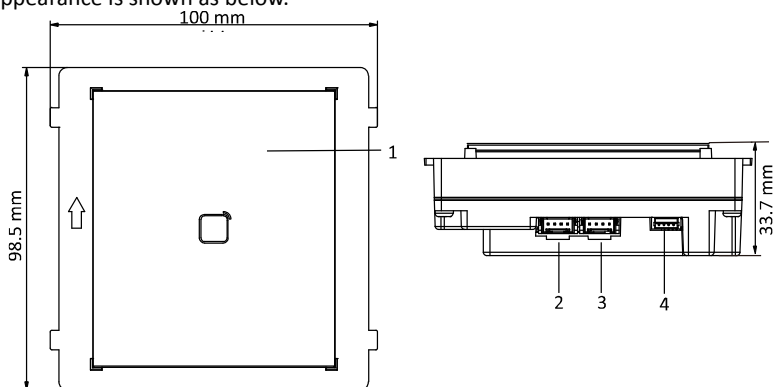


Figure 1-1 Card Reader Module Appearance

Table 1-1 Appearance Description

No.	Description
1	Card Reading Area
2	Module-connecting Interface(output)
3	Module-connecting Interface(input)
4	Debug Port

## NOTE

- The module connecting interface is used to connect with main unit or other function module, such as nametag module, keypad module, card reader module, etc. All these modules (except main unit) are known as sub module.



## 2 Terminal and Wiring

The card reader module's interfaces and terminals as below:

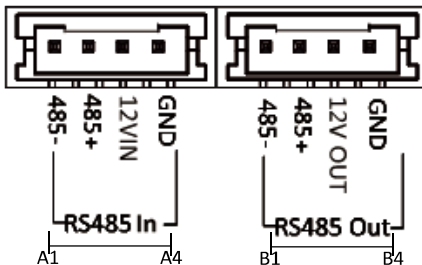


Figure 2-1 Terminals and Interfaces

Table 2-1 Descriptions of Terminals and Interfaces

No.	Interface	Description
A1	485-	Module-connecting Interface (Input)
A2	485+	
A3	12V IN	
A4	GND	
B1	485-	Module-connecting Interface (Output)
B2	485+	
B3	12V OUT	
B4	GND	

## 3 Installation

### *Before you start:*

- Make sure the device in the package is in good condition and all the assembly parts are included.
- Sub module must work along with the main unit.
- Set the sub module address before start the installation steps.
- Make sure the place for surface mounting is flat.
- Make sure all the related equipment is power-off during the installation.
- Tools that you need to prepare for installation:  
Drill ( $\varnothing 6$ ), cross screwdriver (PH1\*150 mm), and gradienter.
- Buy corresponding accessory package for installation. The accessory package model and its suitable installation method as below:

Package Model	Mounting Method	Note
DS-KD-ACW1	One-Module Surface Mounting	Install the device according to the instructions.  Not all the lines in the accessory package will be used.
DS-KD-ACW2	Two-Module Surface Mounting	
DS-KD-ACW3	Three-Module Surface Mounting	
DS-KD-ACF1	One-Module Flush Mounting	
DS-KD-ACF2	Two-Module Flush Mounting	
DS-KD-ACF3	Three-Module Flush Mounting	

### 3.1 Configure Sub Module Address

You need to set the sub module address via DIP before installation.

#### **Steps:**

1. Remove the rubber cover on the sub module rear panel to expose the DIP switch.

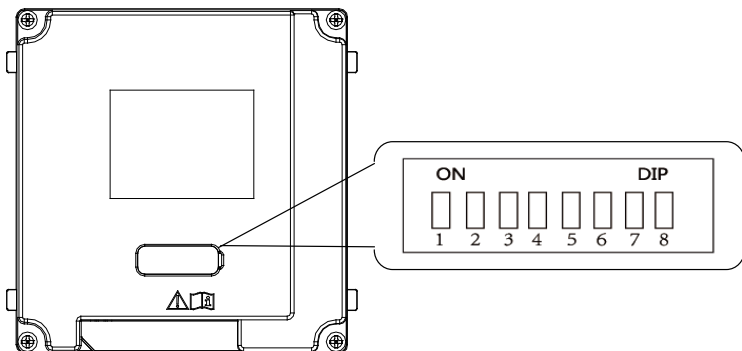


Figure 3-1 DIP Switch

- Set the sub module address according to the DIP rules, and install the rubber cover back.

 **NOTE**

- DIP 1, 2, 3, 4 are used to coding the sub module address; DIP 5, 6, 7, 8 are reserved.
- Valid sub module address range is 1 to 8. The No. should be unique for sub modules that connected to the same main unit.

The sub module address and corresponding switch status as below.

Sub Module Address	DIP 1	DIP 2	DIP 3	DIP 4	DIP 5	DIP 6	DIP 7	DIP 8
Module 1	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF
Module 2	OFF	ON	OFF	OFF	OFF	OFF	OFF	OFF
Module 3	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF
Module 4	OFF	OFF	ON	OFF	OFF	OFF	OFF	OFF
Module 5	ON	OFF	ON	OFF	OFF	OFF	OFF	OFF
Module 6	OFF	ON	ON	OFF	OFF	OFF	OFF	OFF
Module 7	ON	ON	ON	OFF	OFF	OFF	OFF	OFF
Module 8	OFF	OFF	OFF	ON	OFF	OFF	OFF	OFF

## 3.2 One-Module Installation

### 3.2.1 One-Module Surface Mounting

#### Mounting Frame

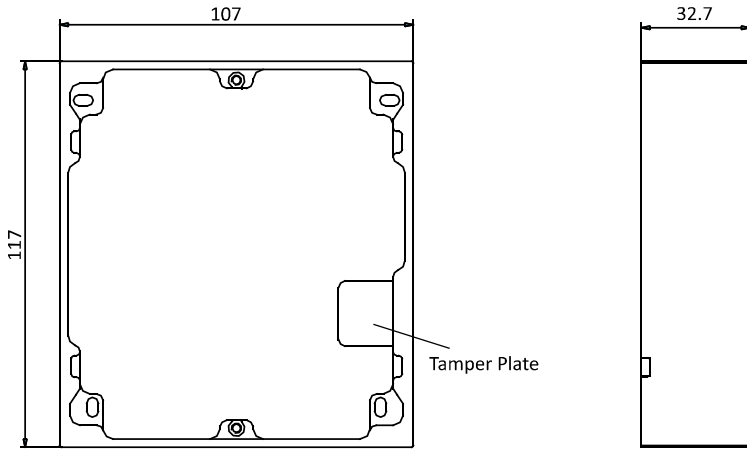


Figure 3-2 Front and Side View

 **NOTE**

- The dimension of one module mounting frame is: 117(L) × 107(W) × 32.7(D) mm.
- The dimensions above are for reference only. The actual size can be slightly different from the theoretical dimension.

**Steps:**

3. Paste the installation Sticker 1 onto the wall. Make sure the sticker is placed leveled via measuring with the gradienter.
4. Chisel 4 holes with drill align to the screw holes on the sticker.  
The suggested size of hole is 6 (diameter) × 25 (depth) mm.  
The suggested length of cables left outside is 100 mm.

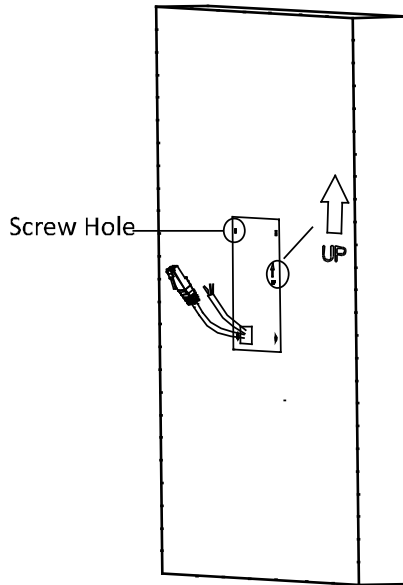


Figure 3-3 Chisel Screw Hole

5. Remove the sticker and insert the expansion sleeves into the screw holes.
6. Fix the mounting frame onto the wall with 4 expansion bolts.

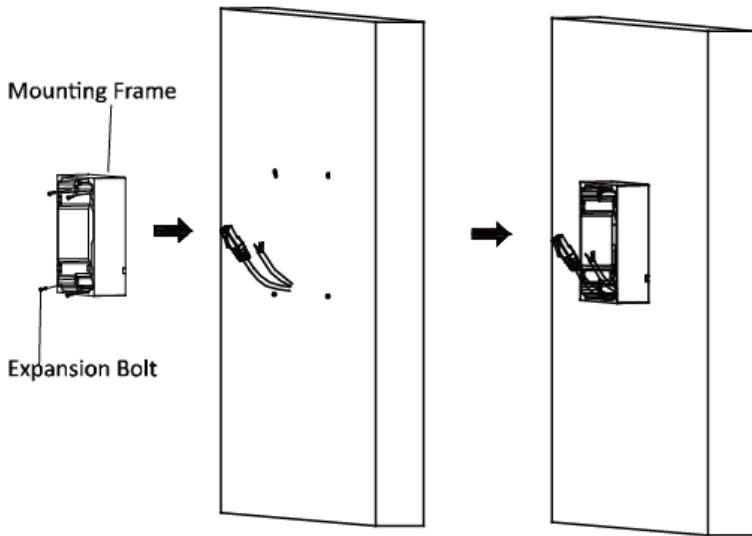
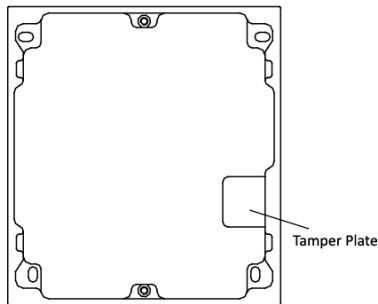


Figure 3-4 Fix the Mounting Frame



**NOTE**

- The mounting frame should be placed exactly as below for this step. The tamper plate should be at the low-right.



7. Connect the cables to the corresponding interfaces of the main unit and insert it into the frame.

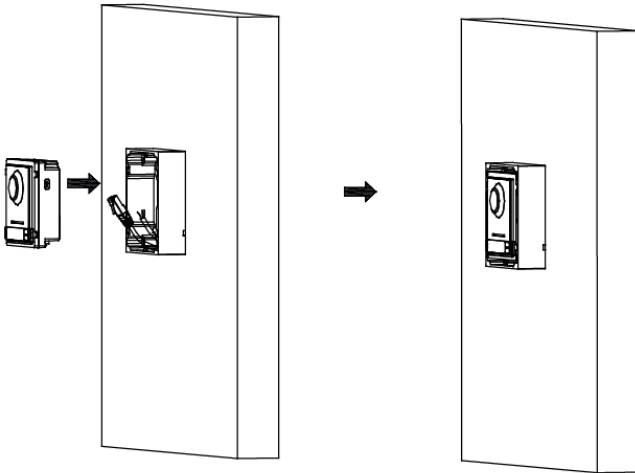


Figure 3-5 Insert the Main unit

8. Use the hexagon wrench in the package fix the cover onto the frame.

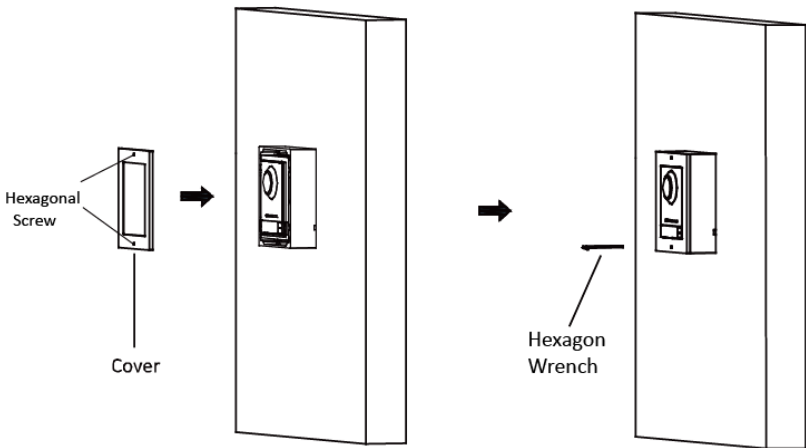


Figure 3-6 Fix the Cover

### 3.2.2 One-Module Flush Mounting Gang Box

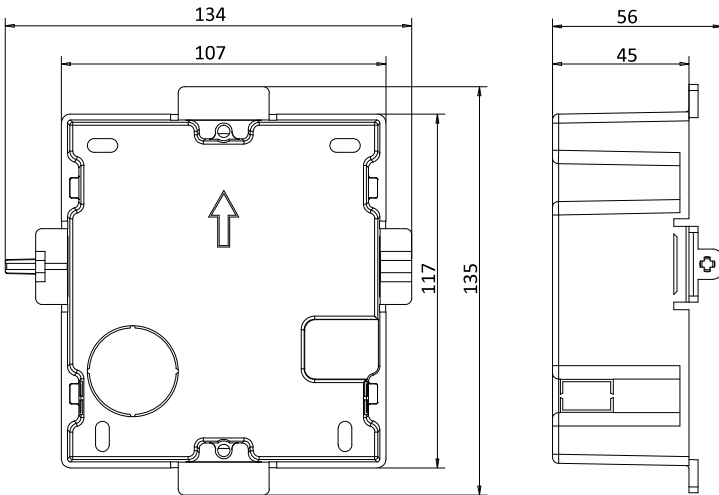


Figure 3-7 Front and Side View

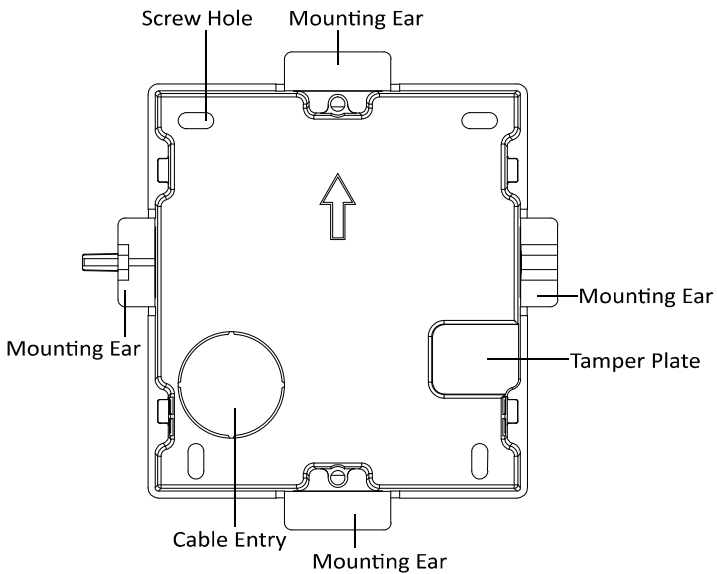


Figure 3-8 Appearance Description





- The dimension of one-module gang box is: 115(L)×134(W)×56(D) mm.
- The dimensions above are for reference only. The actual size can be slightly different from the theoretical dimension.

**Steps:**

1. Cave the installation hole, and pull the cable out.  
The suggested dimension of installation hole is 118(L)×108(W)×45.5(D) mm.  
The suggested length of cables left outside is 100 mm.

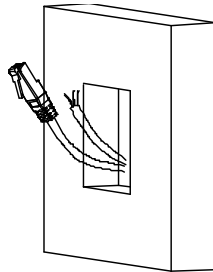


Figure 3-9 Cave the Installation Hole

2. Remove the plastic sheet in the cable entry.
3. Insert the gang box into the hole and pull out the cables through the cable entry.  
Mark the screw holes' position with a marker, and take out the gang box.

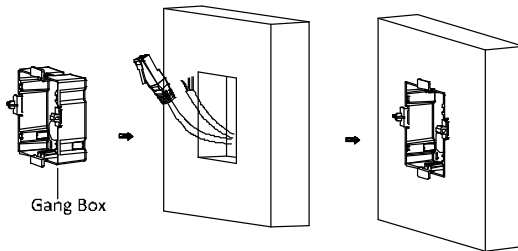


Figure 3-10 Mark the Screw Holes

4. Chisel 4 holes with drill align to marks on the wall, and insert the expansion sleeves into the screw holes.  
The suggested size of hole is 6 (diameter) × 45 (depth) mm.
5. Fix the gang box with 4 expansion bolts.

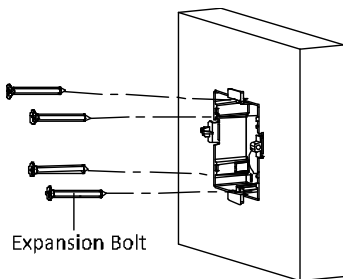


Figure 3-11 Fix the Gang Box

6. Fill and level up the gap between the gang box and wall with concrete. Remove the 4 mounting ears with tool after concrete is dry.

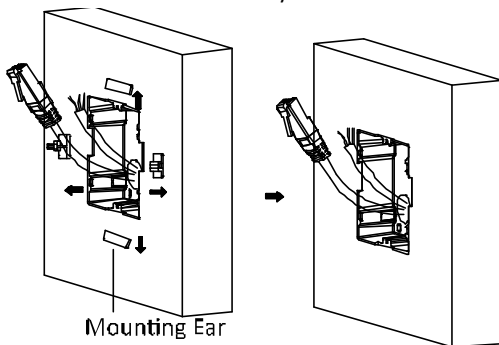


Figure 3-12 Remove the Mounting Ears

7. Insert the mounting frame together with the locating plates into the hole, and fix it with 4 expansion bolts.
8. Connect the cables to the corresponding interfaces of the main unit and insert it into the gang box.

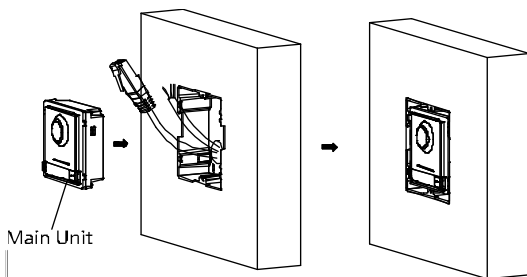


Figure 3-13 Insert the Main unit

9. Use the hexagon wrench in the package fix the cover.

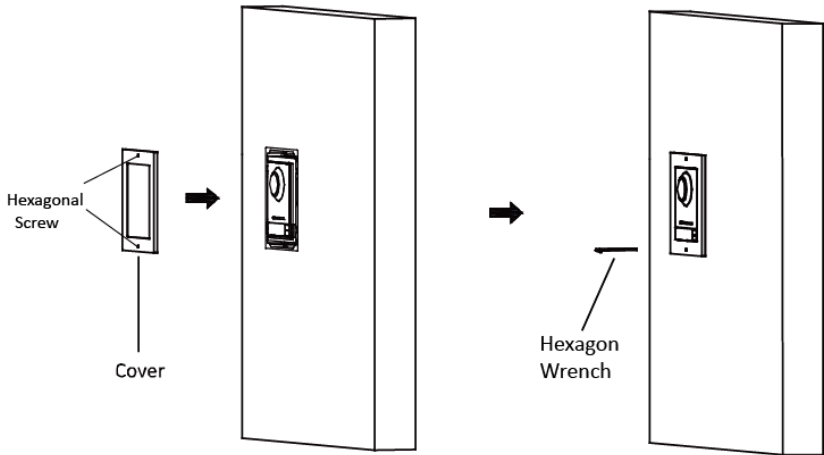


Figure 3-14 Fix the Cover

## 3.3 Two-Module Installation

### 3.3.1 Two-Module Surface Mounting Mounting Frame

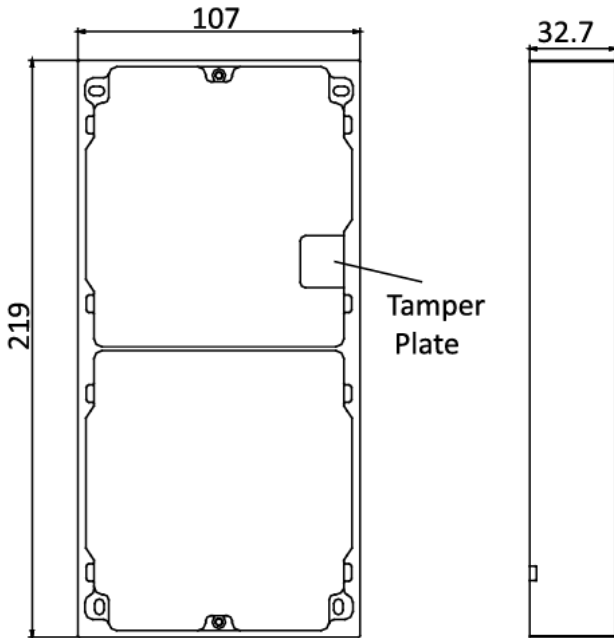


Figure 3-15 Front and Side View

 **NOTE**

- The dimension of two-module mounting frame is: 219(L)×107 (W)×32.7(D) mm.
- The dimensions above are for reference only. The actual size can be slightly different from the theoretical dimension.

**Steps:**

1. Paste the installation Sticker 1 onto the wall. Make sure the sticker is placed leveled via measuring with the gradienter.
2. Chisel 4 holes with drill align to the screw holes on the sticker.  
The suggested size of hole is 6 (diameter) × 25 (depth) mm.  
The suggested length of cables left outside is 270 mm.

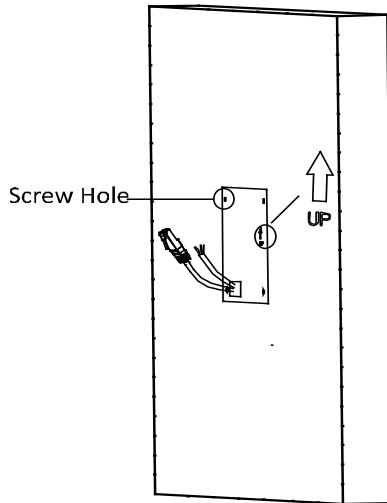


Figure 3-16 Chisel Screw Hole

3. Remove the sticker and insert the expansion sleeves into the screw holes.
4. Fix the mounting frame onto the wall with 4 expansion bolts.

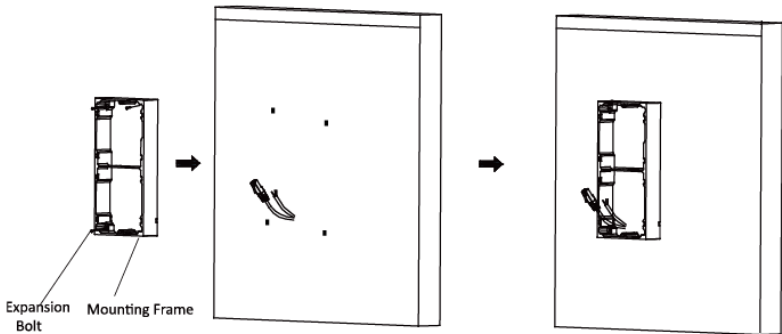
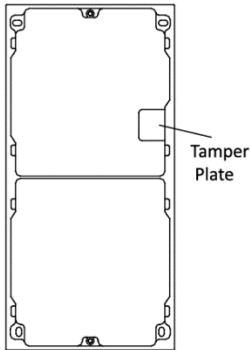


Figure 3-17 Fix the Mounting Frame

 **NOTE**

The mounting frame should be placed exactly as below for this step. The tamper plate should be at the low right of the first grid.



5. Thread the module-connecting line across the thread hole of the frame.  
Pass the main unit connecting lines across the thread hole to the upper grid.

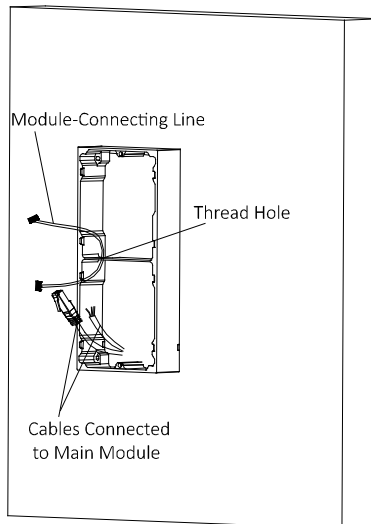


Figure 3-18 Placement of Lines

6. Connect the cables and module-connecting line to the corresponding interfaces of the main unit, then place the main unit into the upper grid.  
Connect the other end of the module-connecting line to the input interface of the sub module.  
Organize the line with cable tie in the package. The suggested line connection picture as below.

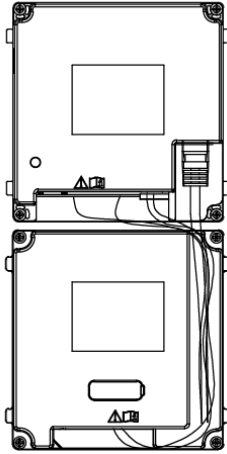


Figure 3-19 Line Connection Effect Picture

7. Insert the modules in to the frame after wiring. Main unit must be placed in the top grid.

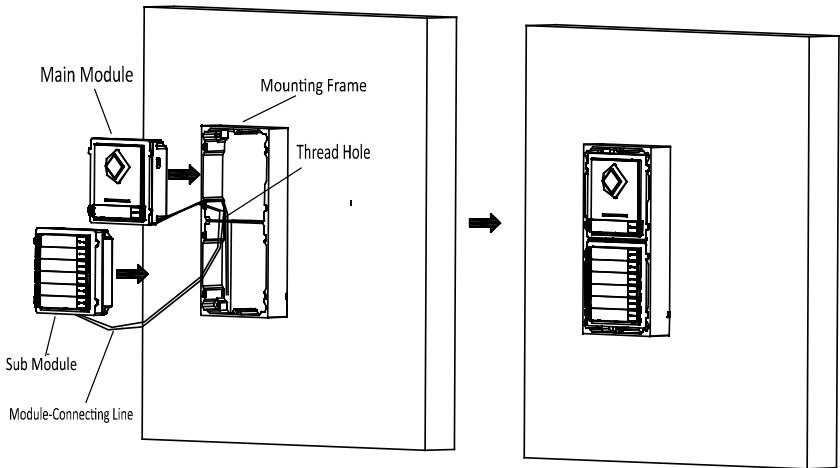


Figure 3-20 Insert the Modules

8. Use the hexagon wrench in the package fix the cover onto the frame.

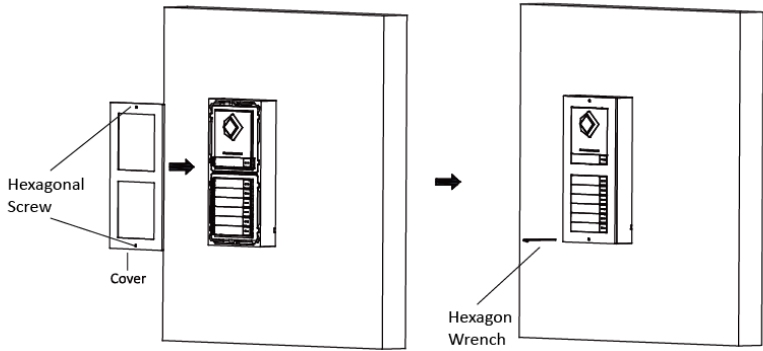


Figure 3-21 Fix the Cover

### 3.3.2 Two-Module Flush Mounting

#### Gang Box

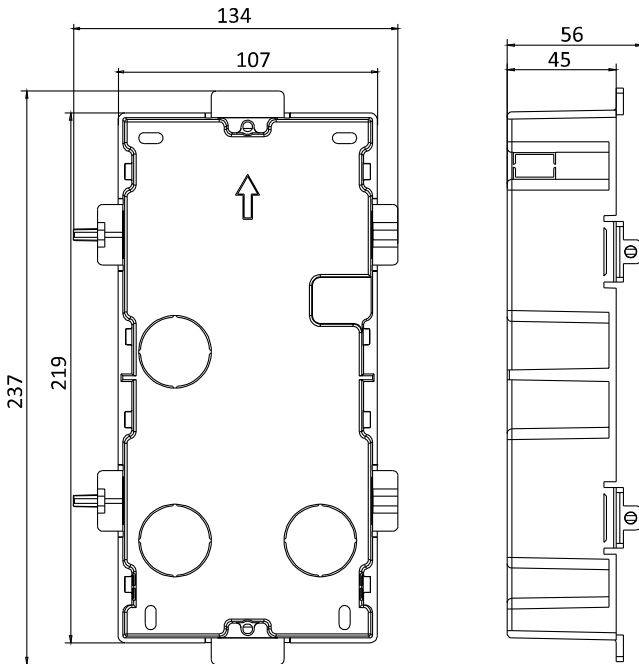


Figure 3-22 Front and Side View



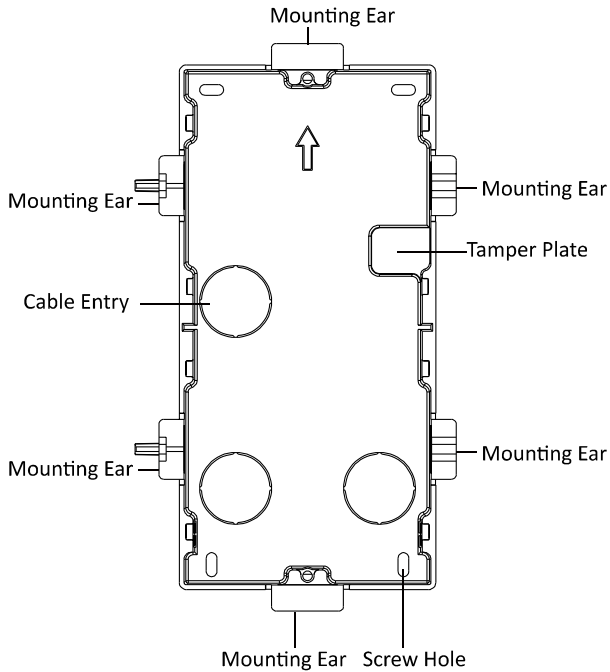


Figure 3-23 Appearance Description

**NOTE**

- The dimension of one-module gang box is: 237(L)×134(W)×56(D) mm.
- The dimensions above are for reference only. The actual size can be slightly different from the theoretical dimension.

**Steps:**

1. Cave the installation hole, and pull the cable out.  
 The suggested dimension of installation hole is 220(L)×108(W)×45.5(D) mm.  
 The suggested length of cables left outside is 270 mm.

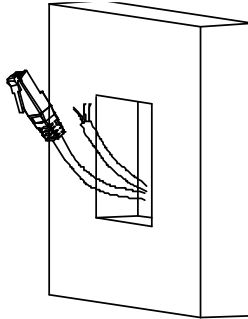


Figure 3-24 Cave the Installation Hole

2. Remove the plastic sheet of the cable entry which will be used.
3. Insert the gang box into the hole and pull out the cables through the cable entry.  
Mark the screw holes' position with a marker, and take out the gang box.

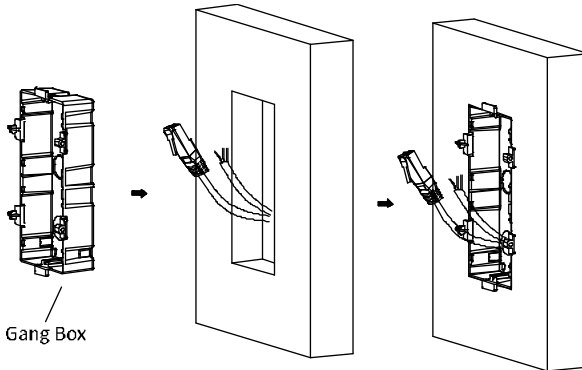


Figure 3-25 Mark the Screw Holes

4. Chisel 4 holes with drill align to marks on the wall, and insert the expansion sleeves into the screw holes.  
The suggested size of hole is 6 (diameter) × 45 (depth) mm.
5. Fix the gang box with 4 expansion bolts.

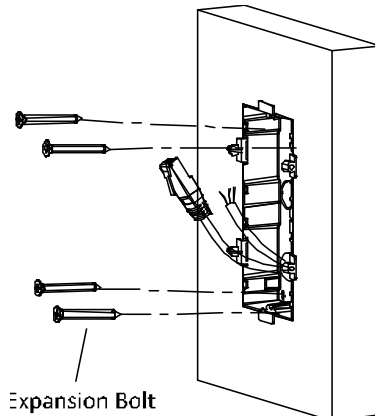


Figure 3-26 Fix the Gang Box

6. Fill and level up the gap between the gang box and wall with concrete. Remove the mounting ears with tool after concrete is dry.

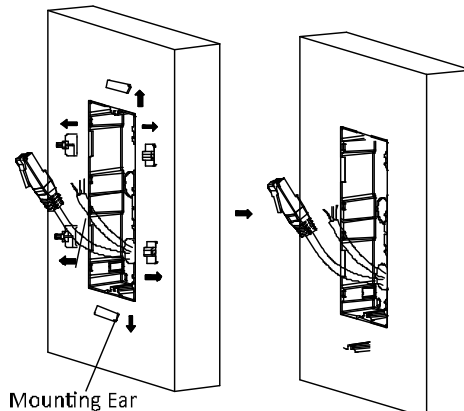


Figure 3-27 Remove the Mounting Ears

7. Connect wires and insert the modules:
  - a. Connect Cable 1 and one end of Cable 2 to the corresponding interfaces of the main unit, then place the main unit into the upper grid.
  - b. Connect the other end of Cable 2 to the input interface of the sub module. Insert it into the lower grid.

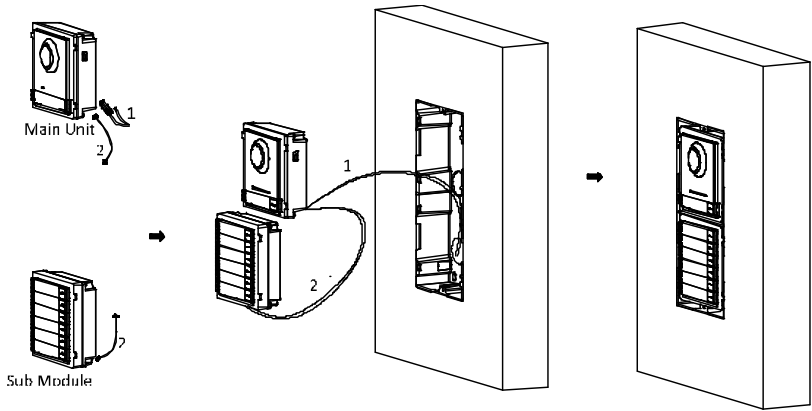


Figure 3-28 Connect Wires and Insert Modules

**NOTE**

Cable 1 refers to the cables pulled out from the wall that connected to the main unit. Cable 2 refers to the module-connecting line in the accessory package.

8. Use the hexagon wrench in the package fix the cover.

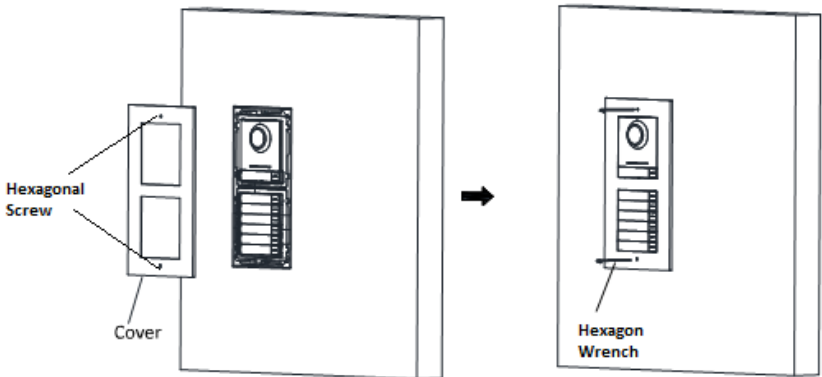


Figure 3-29 Fix the Cover

## 3.4 Three-Module Installation

### 3.4.1 Three-Module Surface Mounting

#### Installation Frame

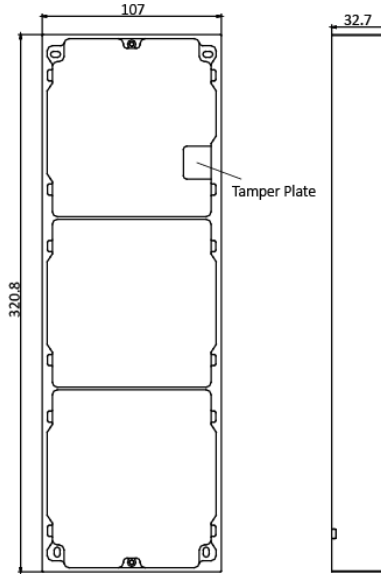


Figure 3-30 Front and Side View



#### NOTE

- The dimension of two-module mounting frame is: 320.8(L)×107 (W)×32.7(D) mm.
- The dimensions above are for reference only. The actual size can be slightly different from the theoretical dimension.

#### Steps:

1. Paste the installation Sticker 1 onto the wall. Make sure the sticker is placed leveled via measuring with the gradienter.
2. Chisel 4 holes with drill align to the screw holes on the sticker.  
The suggested size of hole is 6 (diameter) × 25 (depth) mm.  
The suggested length of cables left outside is 270 mm.

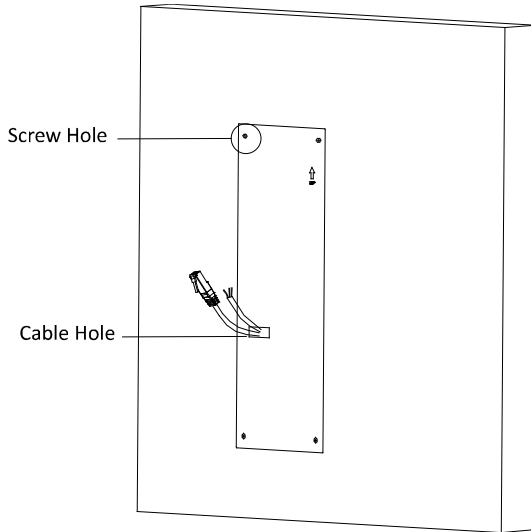


Figure 3-31 Chisel Screw Hole

3. Remove the sticker and insert the expansion sleeves into the screw holes.
4. Fix the mounting frame onto the wall with 4 expansion bolts.

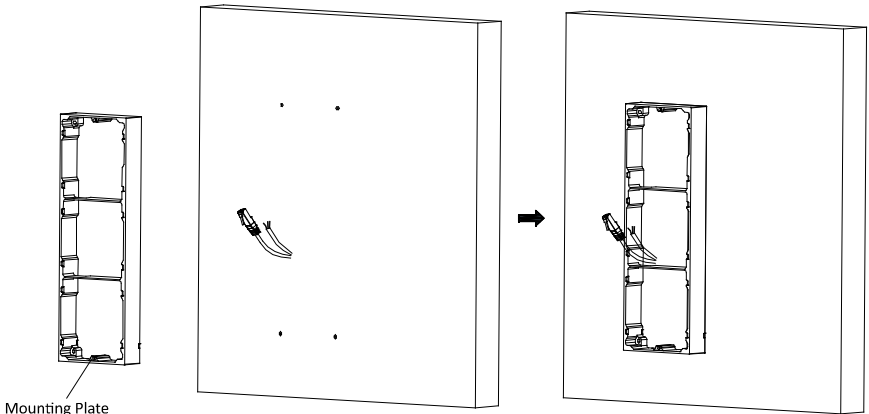
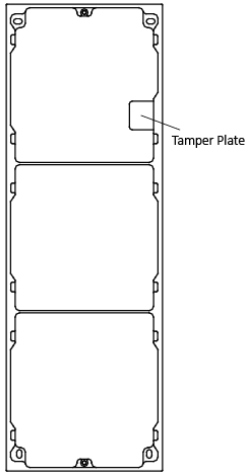


Figure 3-32 Fix the Mounting Frame

 **NOTE**

The mounting frame should be placed exactly as below for this step. The tamper plate should be at the low right of the first grid.



5. Thread the module-connecting lines across the thread holes of the frame.  
Pass the main unit connecting lines across the thread hole to the top grid.

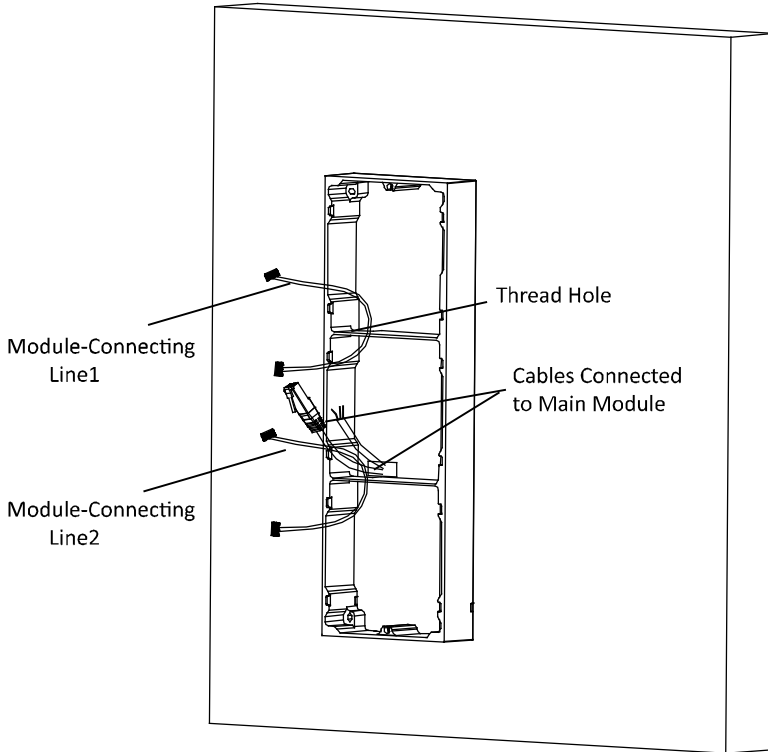


Figure 3-33 Placement of Lines

6. Connect the cables and module-connecting line 1 to the corresponding interfaces of the main unit, then place the main unit into the upper grid.  
Connect the other end of the module-connecting line1 to the input interface of the sub module. Connect two sub modules via module-connecting line 2.  
Organize the line with cable tie in the package. The suggested line connection picture as below.



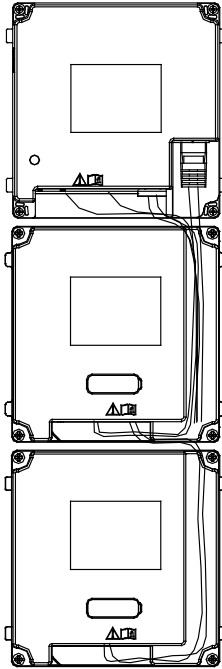


Figure 3-34 Line Connection Effect Picture

7. Insert the modules in to the frame after wiring. Main unit must be placed in the top grid.

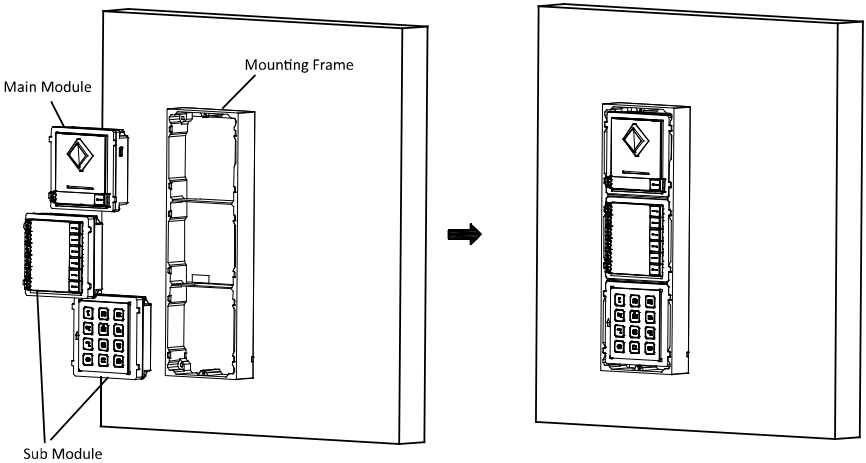


Figure 3-35 Insert the Modules

8. Use the hexagon wrench in the package fix the cover onto the frame.

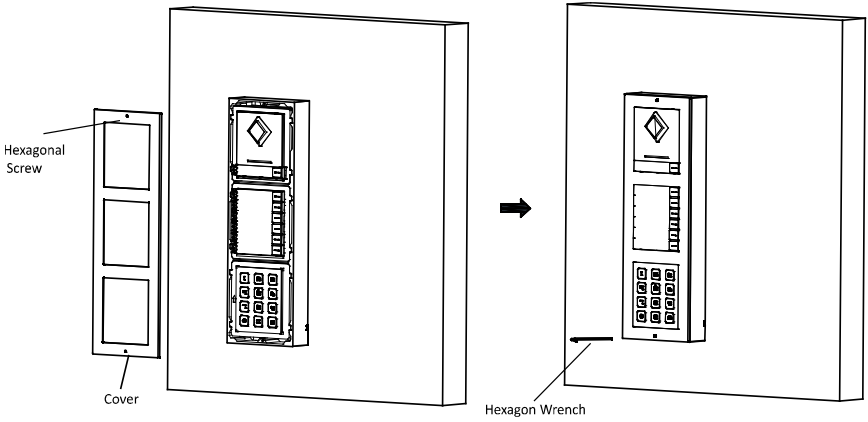


Figure 3-36 Fix the Cover

### 3.4.2 Three-Module Flush Mounting Gang Box

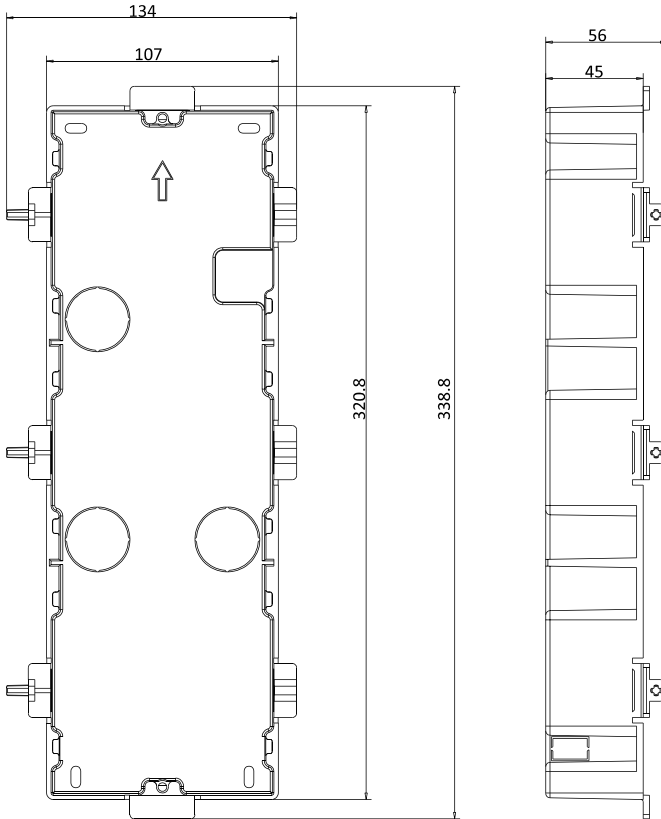


Figure 3-37 Front and Side View

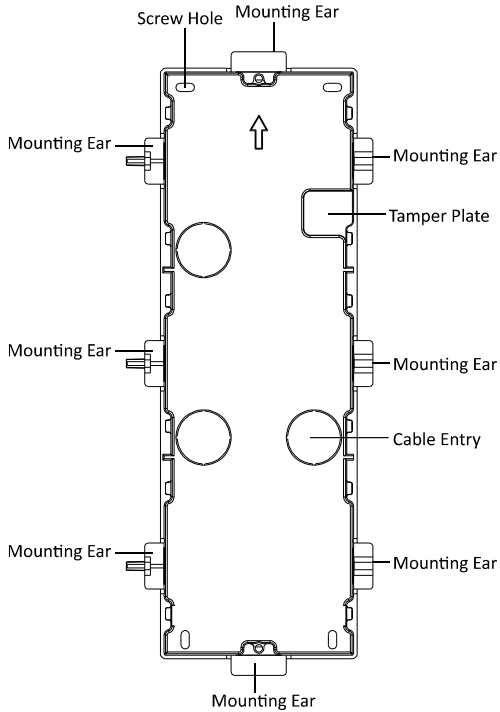


Figure 3-38 Appearance Description

 **NOTE**

- The dimension of one-module gang box is: 338.8(L)×134(W)×56(D) mm.
- The dimensions above are for reference only. The actual size can be slightly different from the theoretical dimension.

**Steps:**

1. Cave the installation hole, and pull the cable out.  
The suggested dimension of installation hole is 321.8(L)×108(W)×45.5(D) mm.  
The suggested length of cables left outside is 270 mm.

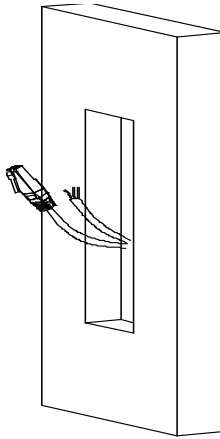


Figure 3-39 Cave the Installation Hole

2. Remove the plastic sheet of the cable entry which will be used.
3. Insert the gang box into the hole and pull out the cables through the cable entry. Mark the screw holes' position with a marker, and take out the gang box.

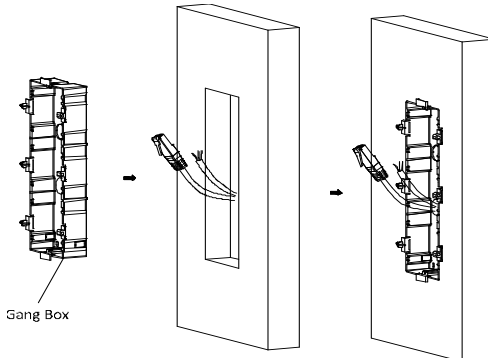


Figure 3-40 Mark the Screw Holes

4. Chisel 4 holes with drill align to marks on the wall, and insert the expansion sleeves into the screw holes.  
The suggested size of hole is 6 (diameter) × 45 (depth) mm.
5. Fix the gang box with 4 expansion bolts.

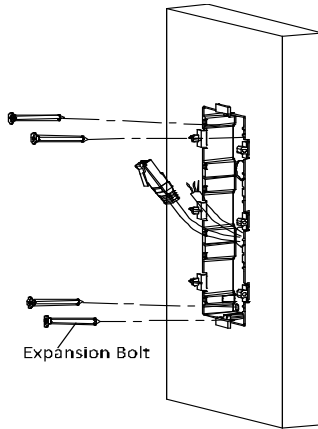


Figure 3-41 Fix the Gang Box

6. Fill and level up the gap between the gang box and wall with concrete. Remove the mounting ears with tool after concrete is dry.

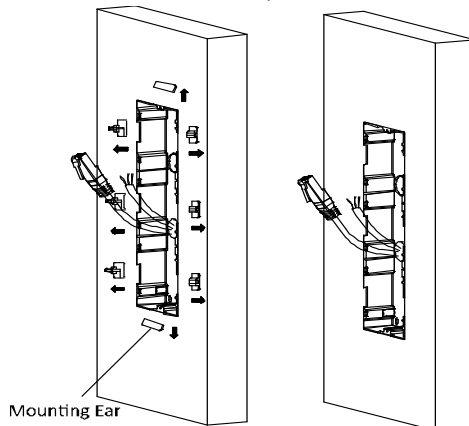


Figure 3-42 Remove the Mounting Ears

7. Connect wires and insert the modules:
  - a. Connect Cable 1 and one end of Cable 2 to the corresponding interfaces of the Main Unit, then place the Main Unit into the upper grid.
  - b. Connect the other end of Cable 2 to the input interface of Sub Module 1. Connect one end of Cable 3 to the output interface of Sub Module 1 and insert it into the middle grid.
  - c. Connect the other end of Cable 3 to the input interface of Sub Module 2. Insert it into the bottom grid.

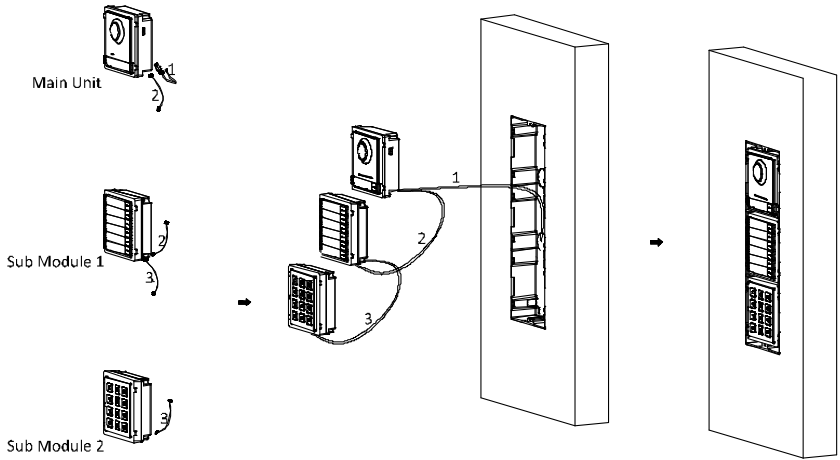


Figure 3-43 Connect Wires and Insert Modules

 **NOTE**

Cable 1 refers to the cables pulled out from the wall that connected to the main unit. Cable 2 and Cable 3 refer to the module-connecting line in the accessory package.

8. Use the hexagon wrench in the package to fix the cover onto the gang box.

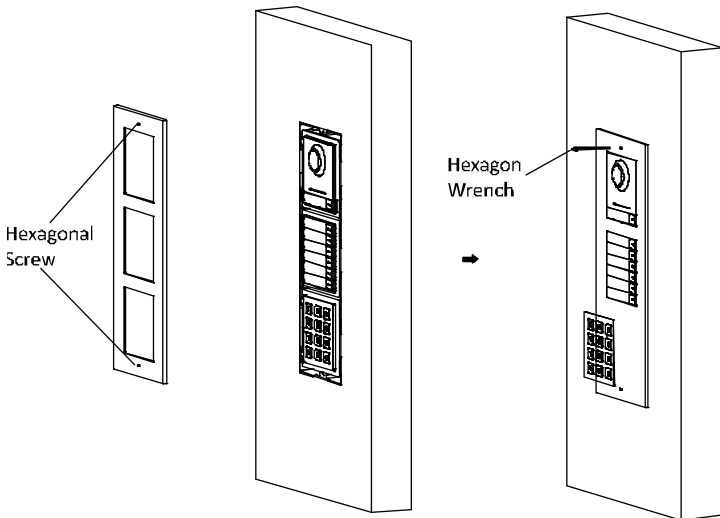


Figure 3-44 Fix the Cover

## 3.5 More-than-Three Module Installation

### 3.5.1 More-than-Three Module Surface Mounting

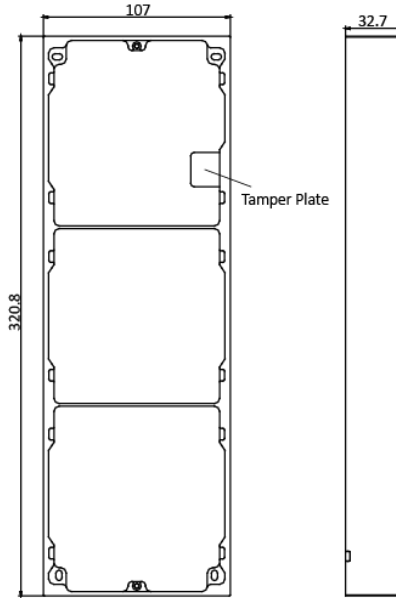


Figure 3-45 Front and Side View



#### NOTE

- It takes two three-module mounting frames. The dimension of three-module mounting frame is: 320.8(L) × 107 (W) × 32.7(D) mm.
- The dimensions above are for reference only. The actual size can be slightly different from the theoretical dimension.

#### Steps:

1. Paste two Sticker 1 onto the wall. Make sure the stickers are placed leveled via measuring with the gradienter.
2. Chisel 8 holes with drill align to the screw holes on the sticker.  
The suggested size of hole is 6 (diameter) × 25 (depth) mm.  
The suggested length of cables left outside is 270 mm.
3. Pull out the cable through the cable hole of the left sticker.



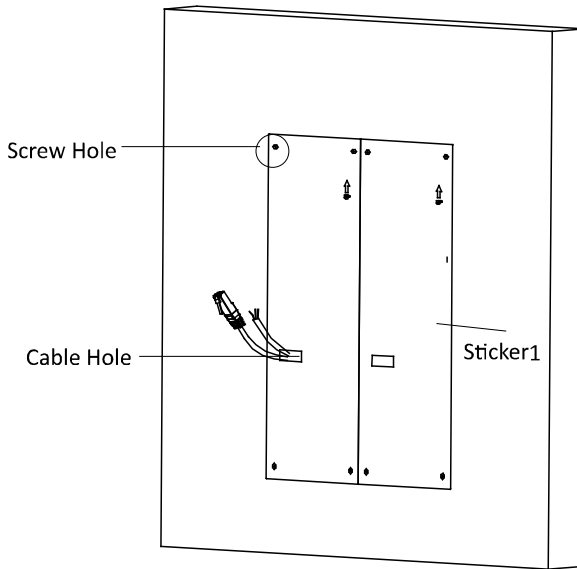


Figure 3-46 Chisel Screw Hole

4. Remove the stickers and insert the expansion sleeves into the screw holes.
5. Thread the module-connecting line (400 mm) and grounding line across the thread hole of both frames.

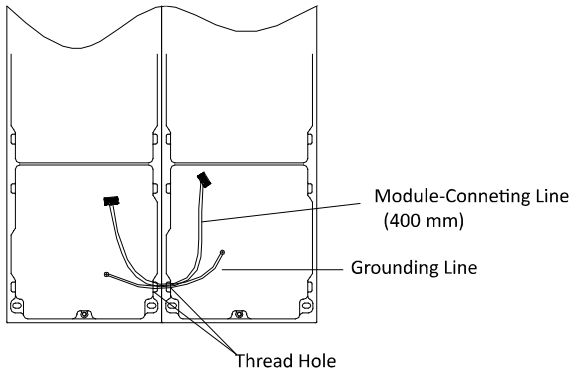


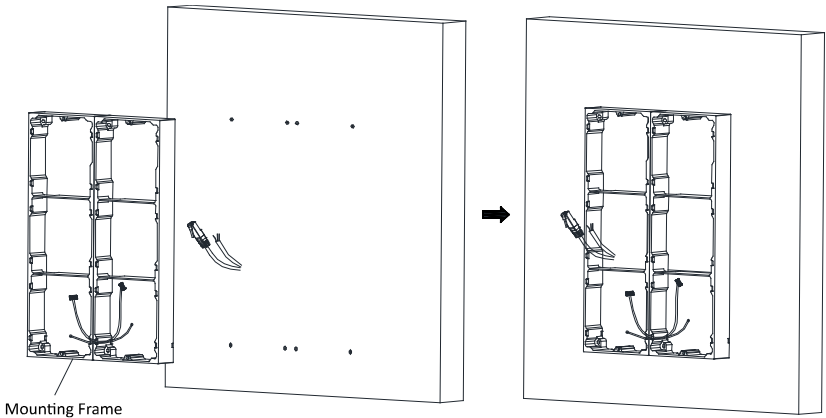
Figure 3-47 Place the Grounding Line and Module-Connecting Line



**NOTE**

- There are 6 module-connecting lines in the package: 190 mm \*4 and 400 mm\*2.
- Take the 400 mm one for this step.
- The green-yellow line in the package is for grounding.

6. Fix the mounting frame onto the wall with 8 expansion bolts.

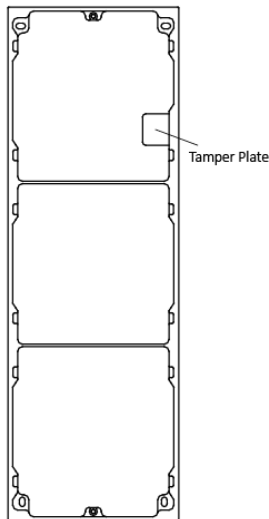


Mounting Frame

Figure 3-48 Fix the Mounting Frame

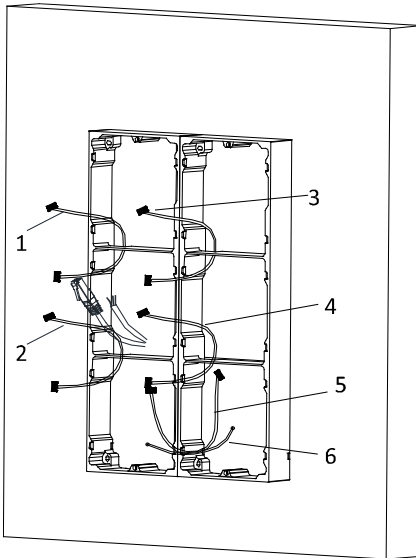
 **NOTE**

The mounting frame should be placed exactly as below for this step. The tamper plate should be at the low right of the first grid.



7. Pass the main unit connecting lines across the thread hole to the top grid of the left frame.

Thread the module-connecting line (190 mm) across the thread hole of the frame.  
The lines should be placed as below:



1,2,3,4: module-connecting  
line(190mm)  
5: module-connecting  
line(400mm)  
6: grounding line(green-yellow)

Figure 3-49 Placement of Lines

8. Connect the cables and module-connecting line 1 to the corresponding interfaces of the main unit, then place the main unit into the upper grid.  
Connect the other end of the module-connecting line1 to the input interface of the sub module. Connect all sub modules via module-connecting lines.  
Organize the line with cable tie in the package. The suggested line connection picture as below.

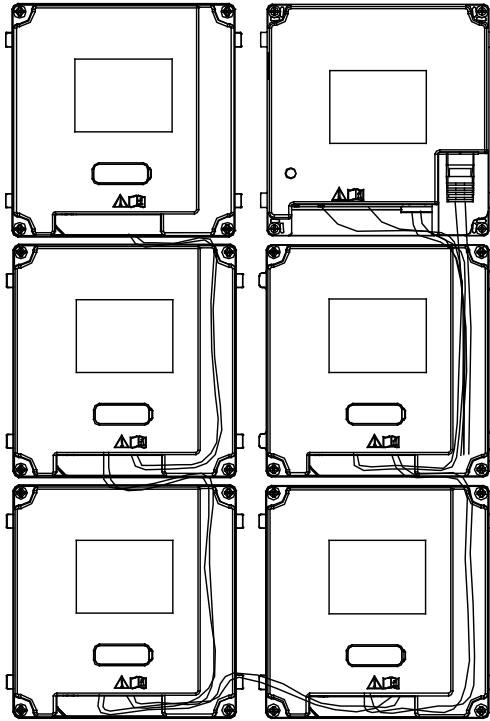


Figure 3-50 Line Connection Effect Picture

9. Insert the modules in to the frame after wiring. Main unit must be placed in the top grid on the left.

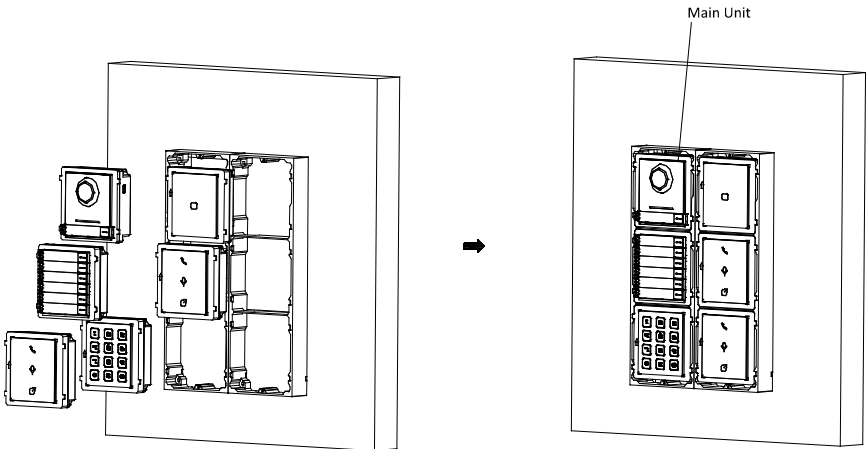


Figure 3-51 Insert the Modules

10. Pull the grounding line out and fixed its two end to the screw on the cover.

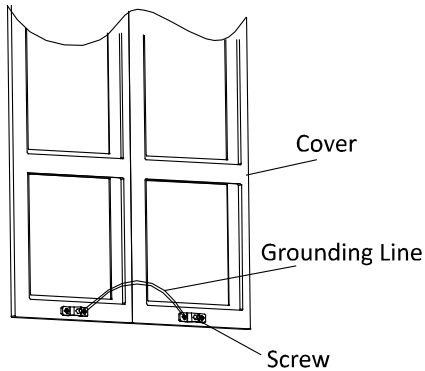


Figure 3-52 Connect the Grounding Line to the Cover

11. Use the hexagon wrench in the package fix the cover onto the frame.

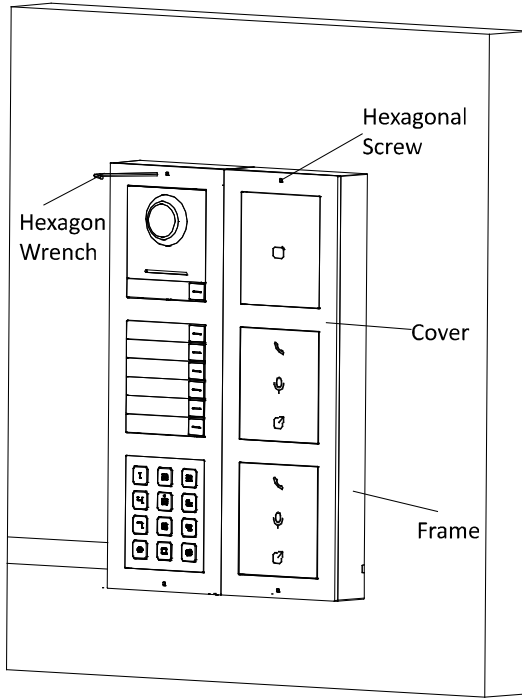


Figure 3-53 Fix the Cover

### 3.5.2 More-than-Three Module Flush Mounting Gang Box

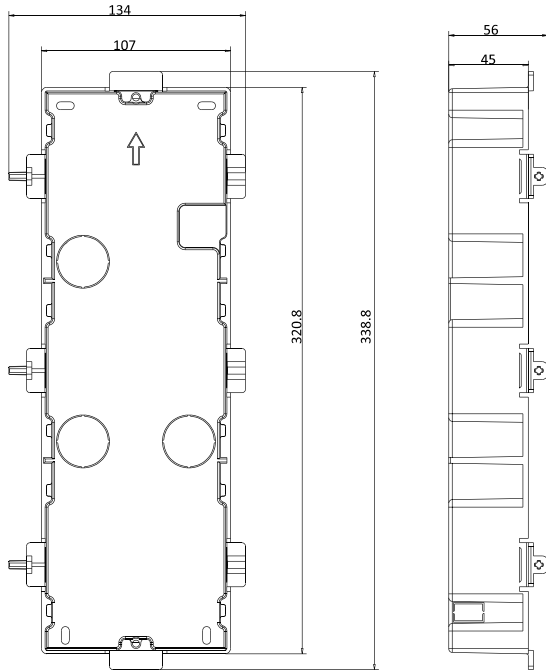


Figure 3-54 Front and Side View

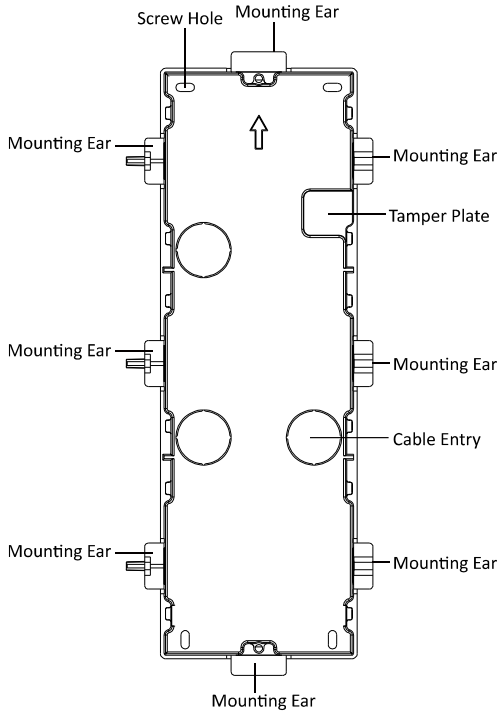


Figure 3-55 Appearance Description

 **NOTE**

- It takes two three-module gang boxes. The dimension of the gang box is: 338.8(L) × 134 (W) × 56(D) mm.
- The dimensions above are for reference only. The actual size can be slightly different from the theoretical dimension.

**Steps:**

1. Cave the installation hole, and pull the cable out.  
The suggested dimension of installation hole is 321.8(L) × 315(W) × 45.5(D) mm.  
The suggested length of cables left outside is 270 mm.



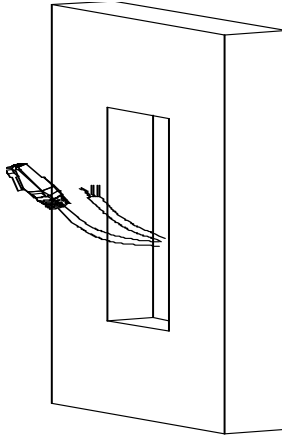


Figure 3-56 Cave the Installation Hole

2. Connect the two gang boxes as the below.

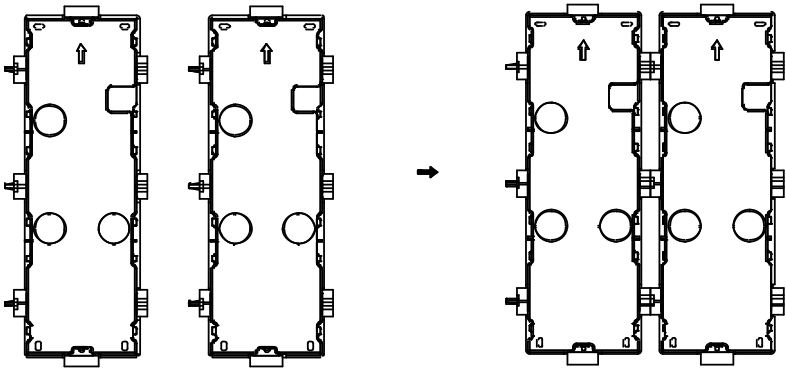


Figure 3-57 Cave the Installation Hole

3. Remove the plastic sheet of the cable entry which will be used.

4. Remove the plastic sheets on the side of the gang boxes (shown as 1 and 2) blow:

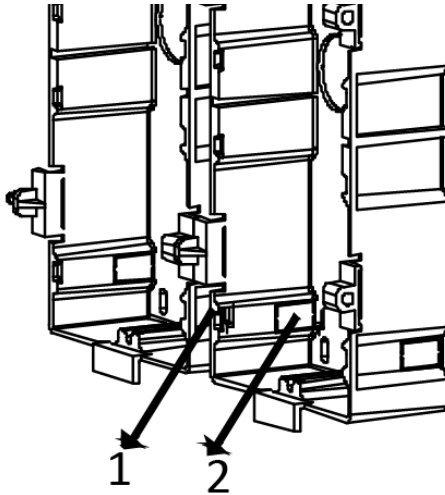


Figure 3-58 Remove the Plastic Sheets

5. Insert the gang boxes into the hole and pull out the cables through the cable entry. Mark the screw holes' position with a marker, and take out the gang boxes.

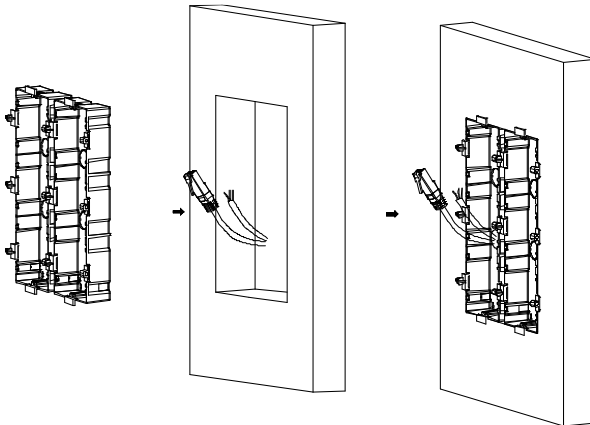


Figure 3-59 Mark the Screw Holes

6. Chisel 8 holes with drill align to marks on the wall, and insert the expansion sleeves into the screw holes.  
The suggested size of hole is 6 (diameter) × 45 (depth) mm.
7. Fix the gang boxes with 8 expansion bolts.

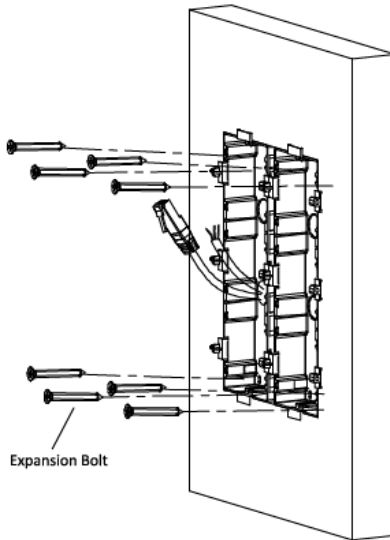


Figure 3-60 Fix the Gang Boxes

8. Fill and level up the gap between the gang box and wall with concrete. Remove the mounting ears with tool after concrete is dry.

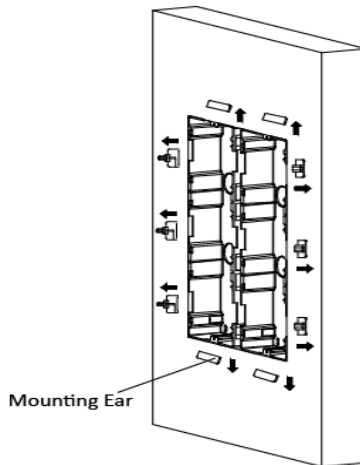


Figure 3-61 Remove the Mounting Ears

9. Pass the grounding line through the cable entries.

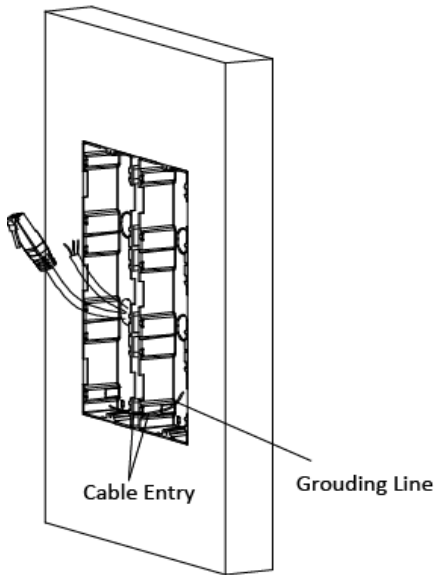


Figure 3-62 Place the Grounding Line

 **NOTE**

- The green-yellow line in the package is for grounding.
10. Connect wires and insert the modules.
- a. Connect Cable 1 and one end of Cable 2 to the corresponding interfaces of the Main Unit, then place the Main Unit into the upper grid of the left gang box.
  - b. Connect the other end of Cable 2 to the input interface of Sub Module 1. Connect one end of Cable 3 to the output interface of Sub Module 1 and insert it into the middle grid of the left gang box.
  - c. Finish the wiring and inserting according to the cable number and the position shown as below.

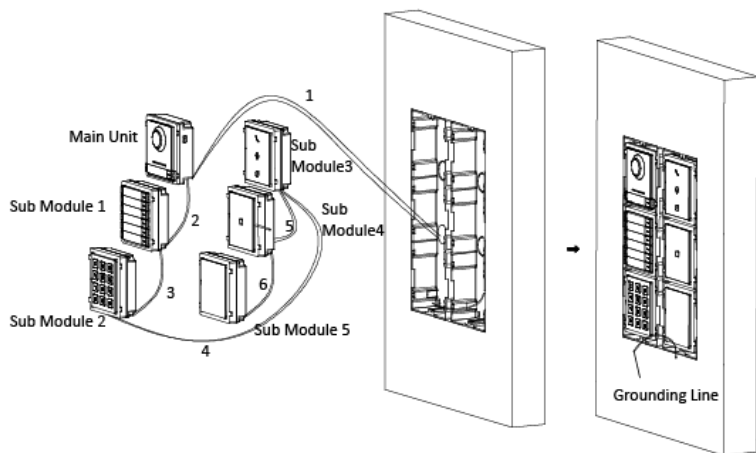


Figure 3-63 Install Mounting Frames

The cables connect to each module shown as below:

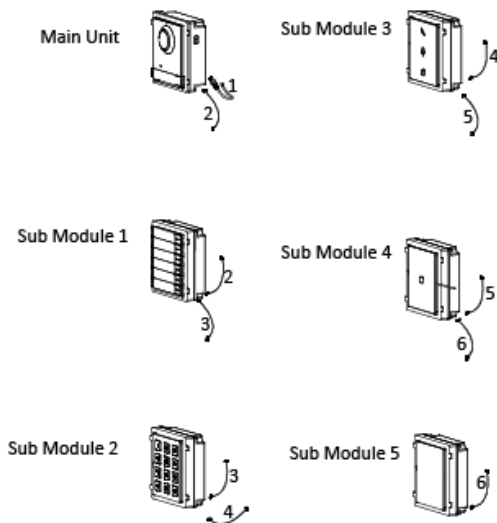


Figure 3-64 Install Mounting Frames

**NOTE**

- Cable 2,3,5 and 6 are the module-connecting lines (190 mm) in the package.

- Cable 4 is the module-connecting line (400 mm) in the package.
  - Main unit must be put in the top grid.
11. Pull the grounding line out and fixed its two end to the screw on the cover.

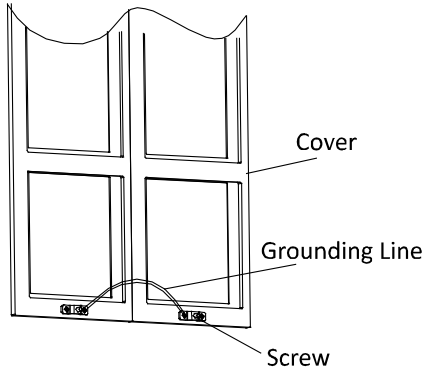


Figure 3-65 Connect the Grounding Line to the Cover

12. Use the hexagon wrench in the package fix the cover onto the gang box.

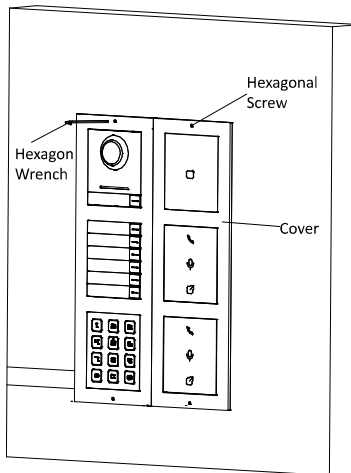


Figure 3-66 Fix the Cover

## 4 Issue Card

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You cannot open door by swiping the card until you have issue the card.

You can issue the card both locally or remotely. For the detail information about issuing card remotely, please refer to the user manual.

**Issue Card via Main Card:** You can swipe card to issue it after swiping the main card in advance.

**Steps:**

1. Swipe the main card on the card reading area, and hear two beeps.
2. Swipe the unauthorized sub cards in turn after hearing a beep.
3. Swipe the main card again to end the card issuing process.



**NOTE**

- DS-KD-M supports Mifare card, DS-KD-E supports EM card.
- If the amount of sub cards exceeds 2500, no more sub card can be issued.



See Far, Go Further