



Installation Diagram (i23 & i31)



Wall-mounted




In-wall

Contents

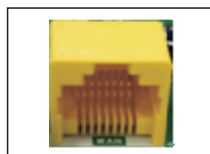
1、Connectors Description	4
2、Wall Mounting	6
3、Flush Mounting(no brick box)	9
4、Flushing Mounting(with brick box)	12

1、Connectors Description


Power Connector

i23(CN1)/i31(CN16)		
1	2	
+12V	GND	
12V DC		

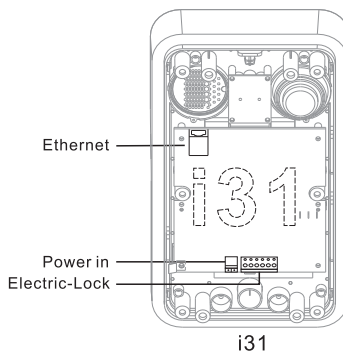
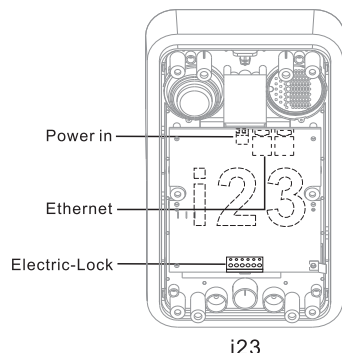
Ethernet Connector



Electric-Lock Connector

i23(J2)/i31(CN6)					
1	2	3	4	5	
S_IN	S_OUT	NC	COM	NO	
Indoor switch		Electric-lock switch			

Connectors Location



Driving mode of electric-lock (Default in active mode)



Passive Mode	1
	2
	3
	4

Jumper in passive mode

Active Mode	1
	2
	3
	4

Jumper in active mode

【Note】 When in active mode, device can drive 12V/700mA switch output maximum, to which a standard electric-lock or another compatible electrical appliance can be connected.

- When use the active mode, it is 12V DC in output.
- When use the passive mode, output is short control (normally open mode or normally close mode).

Relay Status

NO: Normally Open Contact.

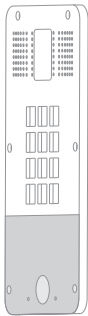
COM: Common Contact.

NC: Normally Close Contact.

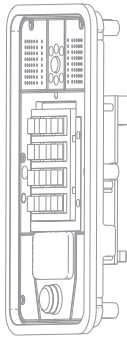
Driving Mode		Electric- Lock		Jumper	Connections
Active	Passive	NO	NC		
✓		✓		Active Mode 	
✓			✓	Active Mode 	
	✓	✓		Passive Mode 	
	✓		✓	Passive Mode 	
	✓	✓		Passive Mode 	

2、 Wall Mounting

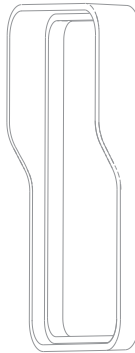
1)Components Description



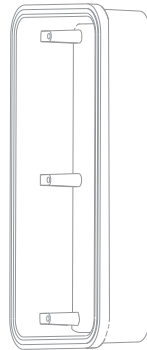
Front Panel



Main Part of Intercom



Rain Shade

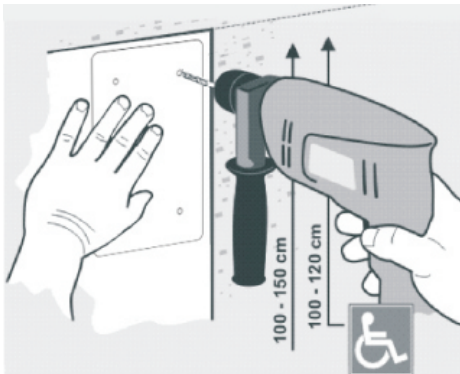


Back Panel

What you need:

- A. Components described as above, which were assembled as a whole unit by default.
- B. Check the contents of assemble accessory bag delivery:
1 L-shaped screwdriver, 2 RJ45 plugs (1 spare), 5 TA5*40mm screws (1 spare), 5 35mm screw anchors (1 spare), 1 spare M4*16mm screw, 1 spare PM3*16mm screw.
- C. Tools:
 - L-shaped screwdriver.
 - Phillips screwdriver (Ph2 or Ph3), Hammer, RJ45 crimper.
 - Electric impact drill with a 8mm drill bits.

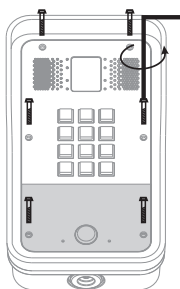
2) Drilling



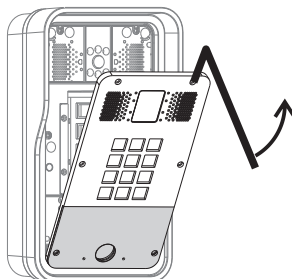
- A. Paste the mounting dimensions template on the wanted position.
- B. Using electric impact drill to drill 4 holes, which were marked on the mounting dimensions template. 50mm drill holes depth is recommended. Remove the template when finish drilling.
- C. Push or hammer screw anchors into drilled holes.

3)Unpacking

A. With L-shaped screwdriver, unpack the front panel as diagram (1) (Counter-clockwise) and (2).

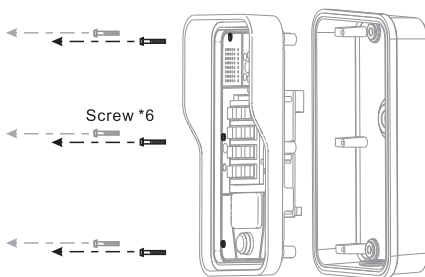


(1)



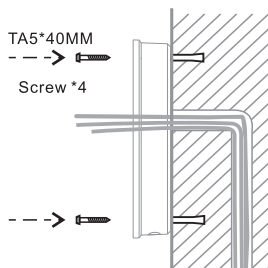
(2)

B. With Phillips screwdriver, unpack the rain shade and the main part of intercom as diagram (3).

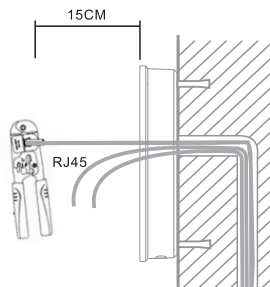


(3)

4)Back panel fixing and cabling



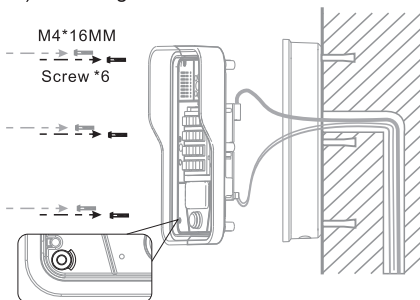
(4)



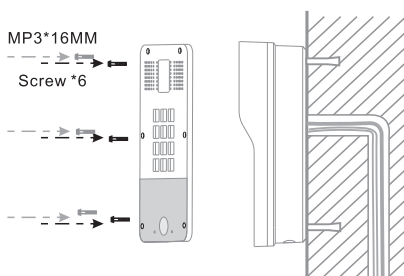
(5)

- A. Select the hole for cable supply, 15cm to 20cm cable length is recommended.
- B. With 4 TA5*40mm screws, tighten the back panel on the wall as diagram (4).
Note: The direction of the cable hole on back panel is pointing down.
- C. Connect the cables of RJ45, power, and electric-lock to the motherboard socket as connectors description (refer to page 4 or inside of the back panel).
- D. Test as below for electrical checking:
Press the button of # for 3 seconds to get IP address of intercom by voice.
Input access password or press the indoor switch to check electric-lock installation.
Note: Do not proceed mounting until you have finished the electric checking.

5) Mounting



(6)



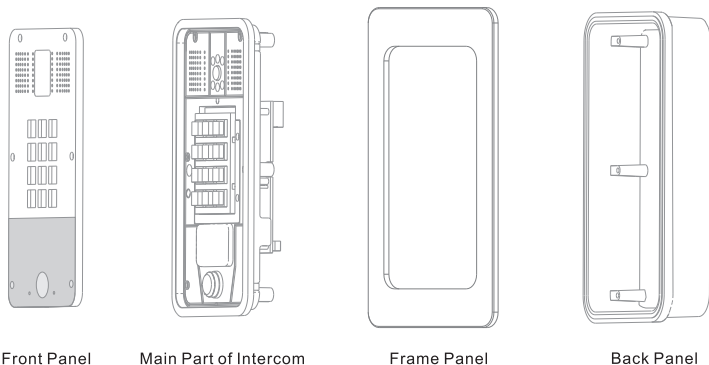
(7)

- A. With 6 screws unscrewed before, tighten the main part (together with rain shade) of intercom on the back panel as diagram (6).
- B. Push the front panel into the plastic frame, and tighten it with 6 screws as diagram (7).
Note: Make sure the screws have been tightened properly for better waterproof effect.

6) Mounting finished

3、Flush Mounting(no brick box)

1) Components Description

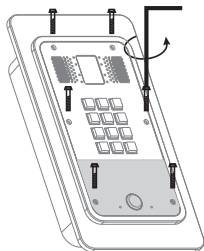


What you need:

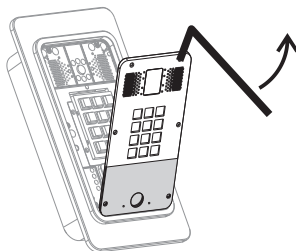
- A. Components described as above, which were assembled as a whole unit by default.
- B. Check the contents of assemble accessory bag delivery:
 1 L-shaped screwdriver, 2 RJ45 plugs (1 spare), 5 35mm screw anchors (1 spare), 5 PA4*60mm screws (1 spare), 1 spare M4*16mm screw, 1 spare PM3*16mm screw, 5 spare TA5*40mm screws (using with brick box), 5 spare M4*35mm screws (using with brick box).
- C. Tools:
 • L-shaped screwdriver.
 • Phillips screwdriver (Ph2 or Ph3), Hammer, RJ45 crimper.
 • Electric impact drill with a 8mm drill bits.

2)Unpacking

- A. With L-shaped screwdriver, unpack the front panel as diagram (8) (Counter-clockwise) and (9).

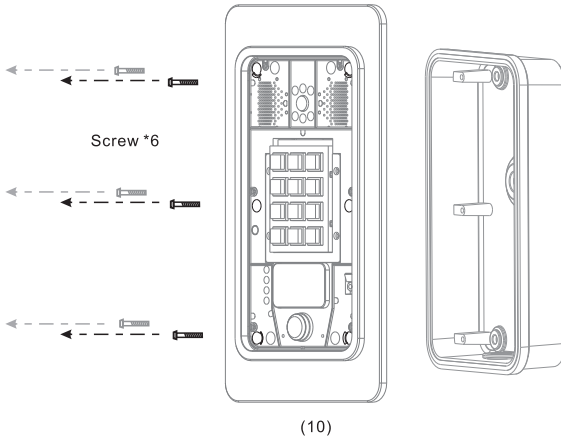


(8)

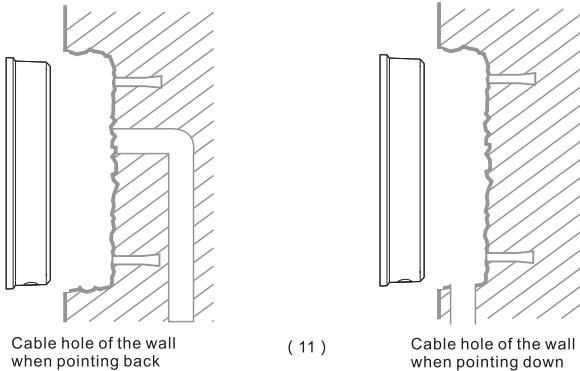


(9)

B. With Phillips screwdriver, unpack the frame panel and the main part of intercom as diagram (10).



3)Hole Making



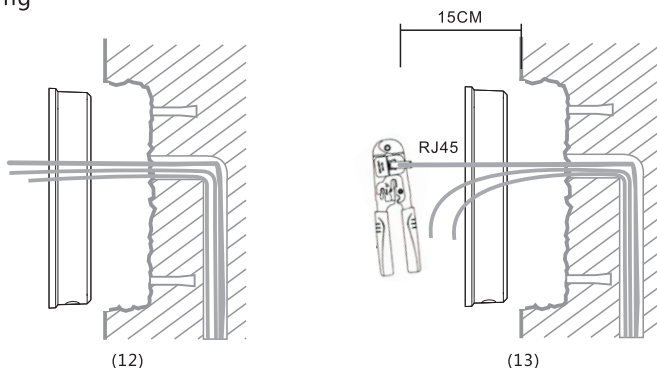
A. The hole required opening should be 235*135*48mm. Make sure all required cables have been carried from the hole.

B. Use the back panel as a template to mark the screw anchor holes.

C. Drill holes using electric impact drill. Push or hammer screw anchors into drilled holes.

Note: Make sure that the screw anchor holes are drilled accurately.

4)Cabling



A. Select the hole for cable supply, 15cm to 20cm cable length is recommended as diagram (12).

Note: The direction of the cable hole on back panel is pointing down.

B. Connect the cables of RJ45, power, and electric-lock to the motherboard socket as connectors description (refer to page 4 or inside of the back panel).

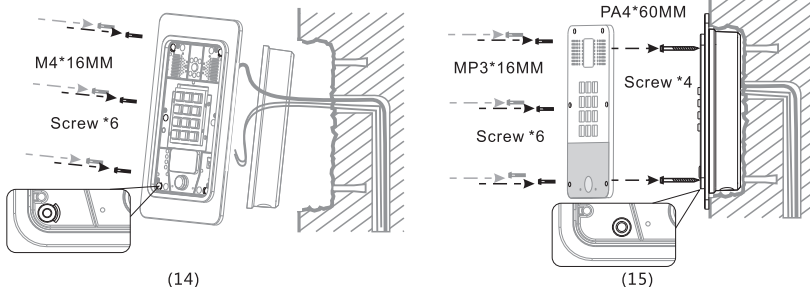
C. Test as below for electrical checking:

Press the button of # for 3 seconds to get IP address of intercom by voice.

Input access password or press the indoor switch to check electric lock installation.

Note: Do not proceed mounting until you have finished the electric checking.

5)Mounting



A. With 6 screws unscrewed before, tighten the main part (together with frame panel) of intercom on the back panel as diagram (14).

B. With 4 PA4*60mm screws, tighten the intercom into the wall hole and also seal the gap between the frame panel and the wall surface, as diagram (15).

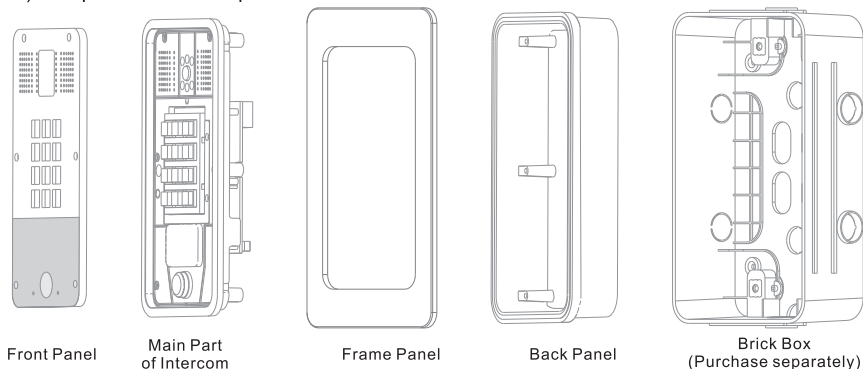
C. Push the front panel into the plastic frame, and tighten it with 6 screws, as diagram 15.

Note: Make sure the screws have been tightened properly for better waterproof effect.

6)Mounting finished

4、Flushing Mounting(with brick box)

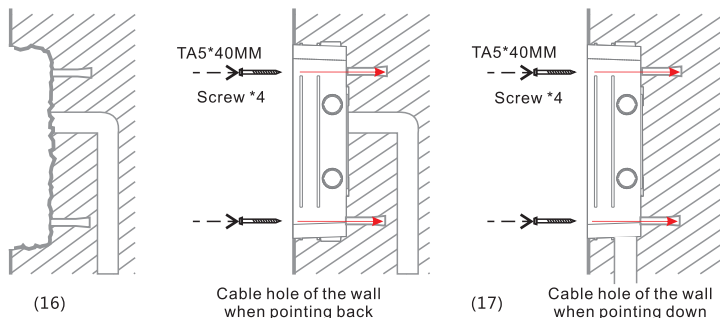
1)Components Description



What you need:

- Components described as above, which were assembled as a whole unit by default. (Exclude brick box).
- Brick box should be purchased separately with another single package.
- Check the contents of assemble accessory bag delivery:
 - 1 L-shaped screwdriver, 2 RJ45 plugs (1 spare), 5 35mm screw anchors (1 spare), 5 TA5*40mm screws (1 spare), 5 M4*35mm screws (1 spare), 1 spare M4*16mm screw, 1 spare PM3*16mm screw, 5 spare PA4*60mm screws (using when no brick box).
- Tools:
 - L-shaped screwdriver.
 - Phillips screwdriver (Ph2 or Ph3), Hammer, RJ45 crimper.
 - Electric impact drill with a 8mm drill bits.

2)Brick Box Mounting

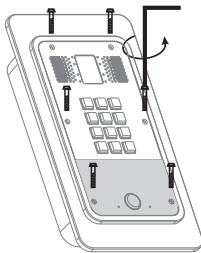


- Make a hole on the wall using the brick box as a template. Make sure all required cables have been carried from the hole as diagram (16).

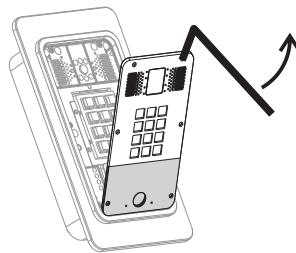
- B. Use the brick box as a template to mark the screw anchor holes and drill them with electric impact drill.
Push or hammer screw anchors into drilled holes, and tighten the brick box onto the wall hole, as diagram (17).
Note: Step B can be skipped. However, it will decrease the strength of anti-punch.
- C. Fill the side face gap between the brick box and the wall with cement.
- D. The brick box must not be higher than the surface of the wall (lower than the wall within 6mm is acceptable). Angle slope should be within 2°.
- E. Make sure all required cables have been carried from the hole.
Note: Do not proceed mounting until cement has been frozen.

3)Unpacking

- A. With L-shaped screwdriver, unpack the front panel as diagram (18) (Counter-clockwise) and (19).

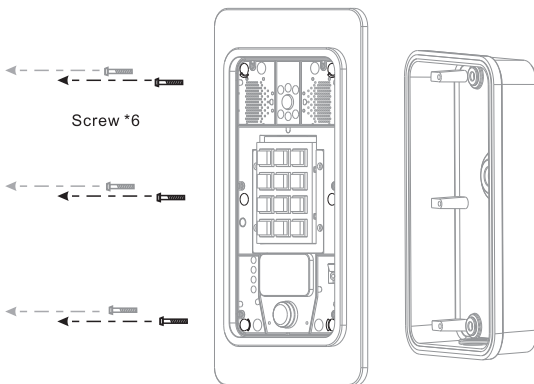


(18)



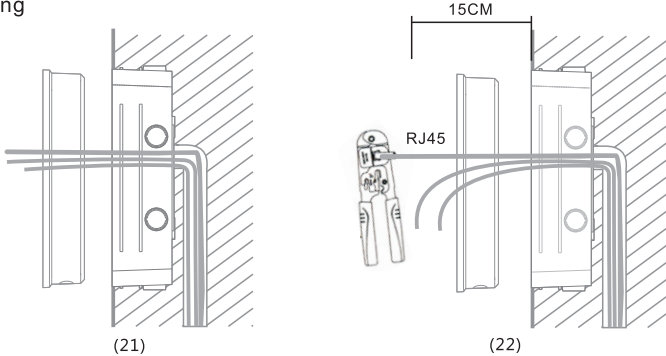
(19)

- B. With Phillips screwdriver, unpack the frame panel and the main part of intercom as diagram (20).



(20)

4)Cabling



A. Select the hole for cable supply, 15cm to 20cm cable length is recommended as diagram (21).

Note: The direction of the cable hole on back panel is pointing down.

B. Connect the cables of RJ45, power, and electric-lock to the motherboard socket as connectors' description (refer to page 4 or inside of the back panel).

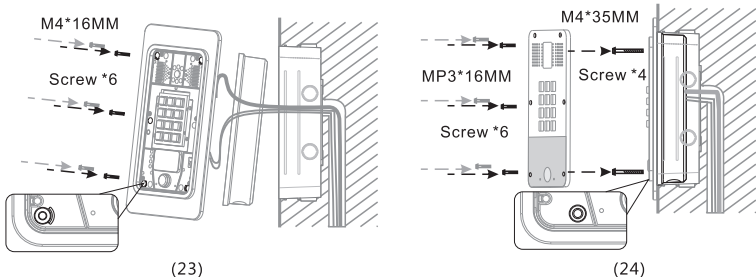
C. Test as below for electrical checking:

Press the button of # for 3 seconds to get IP address of intercom by voice.

Input access password or press the indoor switch to check electric lock installation.

Note: Do not proceed mounting until you have finished the electric checking.

5)Mounting



A. With 6 screws unscrewed before, tighten the main part (together with frame panel) of intercom on the back panel as diagram (23).

B. With 4 M4*35mm screws, tighten the intercom into the brick box and also seal the gap between the frame panel and the wall surface, as diagram (24).

C. Push the front panel into the plastic frame, and tighten it with 6 screws, as diagram (24).

Note: Make sure the screws have been tightened properly for better waterproof effect.

6)Mounting finished

Fanvil