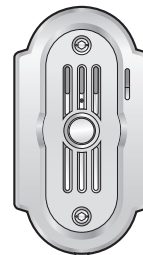


Panasonic

Wireless Video Intercom System

Installation Guide

Model No. **VL-SW102BX**

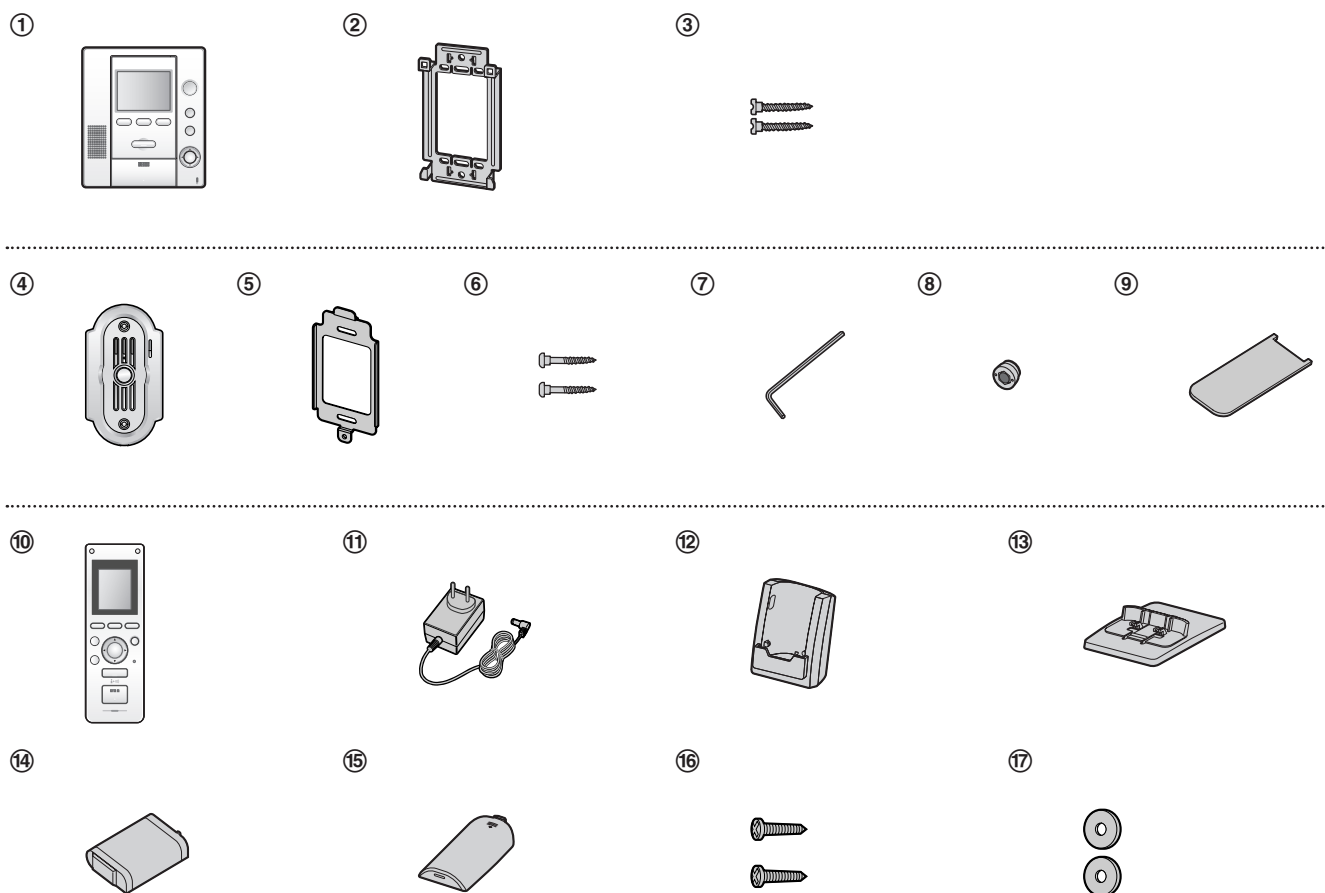


- Please read this Installation Guide before installing the unit and save for future reference.
- To install the sub monitor station, refer to the Operating Instructions.
- Please confirm the wiring schematic diagram on page 5 when you increase an optional equipment.

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Included items



No.	Item	Quantity	Notes
①	Main monitor station	1	----
②	Mounting bracket	1	Attached to rear of the main monitor station.
③	Wood screws	2	For the main monitor station. (4 mm x 16 mm)
④	Door station	1	----
⑤	Mounting bracket	1	Attached to rear of the door station.
⑥	Wood screws	2	For the door station. (3.8 mm x 20 mm)
⑦	Allen wrench	1	----
⑧	Bolt covers	2	One is extra.
⑨	Bolt cover wrench	1	----
⑩	Sub monitor station	1	----
⑪	AC adaptor	1	For the sub monitor station.
⑫	Charger	1	----
⑬	Charger stand	1	----
⑭	Battery	1	----
⑮	Battery cover	1	----
⑯	Wood screws	2	For the charger. (3.5 mm x 18 mm)
⑰	Washers	2	For the charger.

Before installation

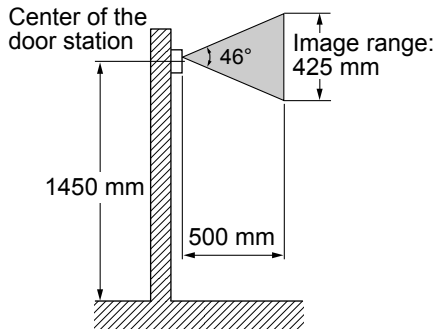
To avoid malfunction or communication disturbances, do not install either the door station or the main monitor station in the following locations:

- Places where vibration or any other kind of impact occurs.
- Places where echoing is frequent.
- Places near a high concentration of dust, hydrogen sulfide, phosphorus, ammonia, sulfur, carbon, acid, or noxious fumes.
- Within 2 m of a TV, microwave, personal computer, air conditioner or any other electrical device.

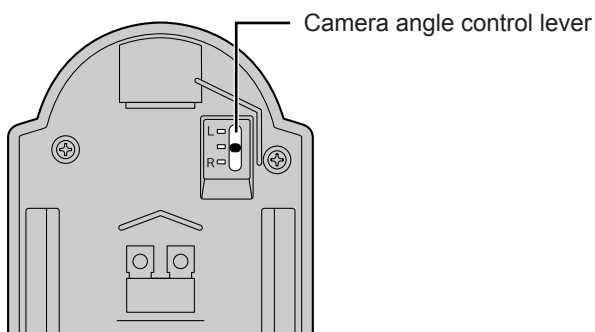
Standard installation position of the door station and camera range

Upper/lower range

- Side view of when the camera is facing the front at 0°.

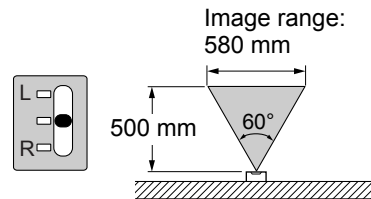


■ Rear view of the door station

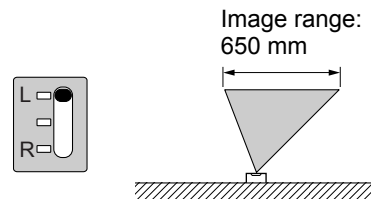


Left/right range

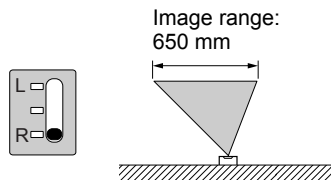
- Top view of when the camera is facing the front at 0°.



- Top view of when the camera is facing the left at 15°.



- Top view of when the camera is facing the right at 15°.



Note:

- The measurements and angles are for reference purposes and may vary depending on the environment.
- If a strong light is shining on the door station, the visitor's face may not be distinguishable.
Do not place the door station in the following locations.
 - Where most of the background is the sky.
 - Where the background is a white wall, and direct sunlight will reflect off it.
 - Where direct sunlight will shine on the door station.
 - Where echoing occurs, causing the unit to beep frequently.
- Make sure the back of the door station is not subject to water.

Standard installation position of the main monitor station

Place the main monitor station in a location so that your eyes are the same height as the center of the display.

Note:

- This unit is using an electric wave frequency of 2.4 GHz. Read "For best performance" on the Operating Instructions.
- In areas surrounded by a high electrical field, disturbances may occur in the main monitor station's image or sound.
- Be sure to install the main monitor station more than 5 m away from the door station.
- Do not place any objects within 20 cm of the main monitor station. This may cause communication errors or malfunction.
- Do not install the main monitor station inside a wall.
- Do not install the unit in places where it will be affected by extremely high-frequency radio waves (near broadcasting antennas etc.). This may cause the display to flicker or an interrupting noise to occur.

If you change to the Wireless Video Intercom System from chime, bell or buzzer

Existing wires (e.g. chime, bell or buzzer) may connect to power supplies (AC 100-240 V or 24 V).

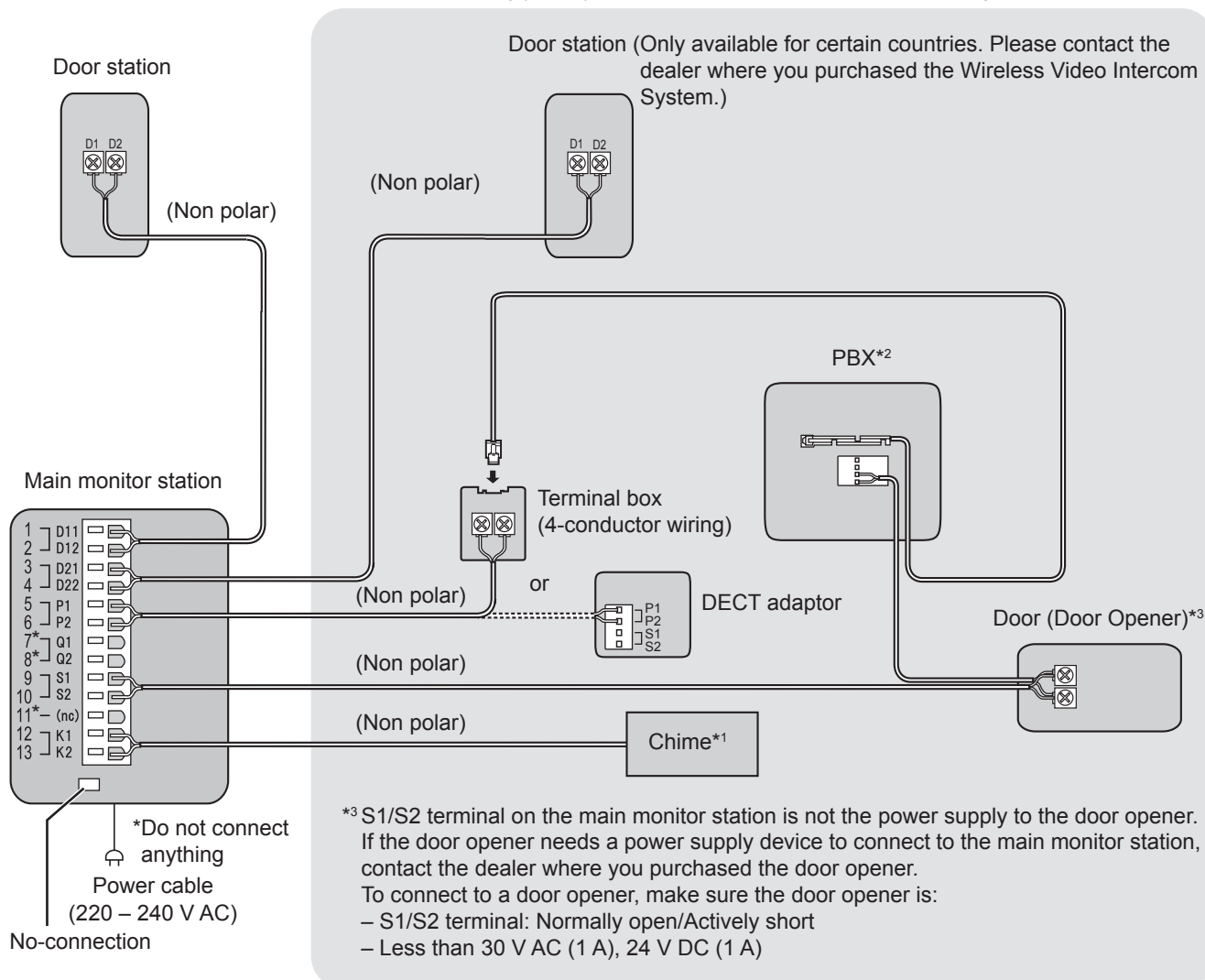
If you connect the Wireless Video Intercom System through such existing wires, electric shock or unit damage may occur. Contact the dealer where you purchased.

Wiring schematic diagram

Set up correctly according to the following wiring schematic diagrams and “Wire type and distance”.
To change a function setting such as chimes, refer to “Changing the function settings” in the Operating Instructions.

Optional equipment

(Refer to “Expanding your system with optional units” in the Operating Instructions.)



*1 Please connect equipment with the following specifications. Parallel connections are not possible.

– Rated load: 24 V AC, DC/0.5 A or less

– Small application load: 5 V DC/1 mA

● Contact closer (chime) is turned off when responding to an intercom call. Contact closer (chime) is turned on for about 30 seconds when not responding. (Please see the Operating Instructions for details of operation.)

*2 For information about compatible PBXs, refer to page 8 on the Operating Instructions.

Note:

● Connect the plug to the power outlet which is easily accessible. In case the power cable/plug are not easily accessible, you should install the main disconnect device near the product. The main disconnect device needs to be certified or comply with an appropriate standard. (See page 11).

● When you move the main monitor station, make sure the PBX is disconnected.

● The door opener wiring schematic diagram is only an example. Refer to the wiring instructions provided with your door opener and PBX for details.

Wire type and distance

● Wire (between the main monitor station and the door station):

● Wire (between the main monitor station and PBX):

Type: General cable CAT-3 or 22 AWG (ø 0.65)

Distance: Maximum 100 m

● Wire (between the main monitor station and the chime):

Type: General cable CAT-3 or 22 AWG (ø 0.65)

Distance: Specified by the equipment to be connected

Type	Distance	Loop resistance
General cable CAT-3	Maximum 50 m	10 Ω or lower
General cable 22 AWG (ø 0.65)	Maximum 100 m	

Installing the door station

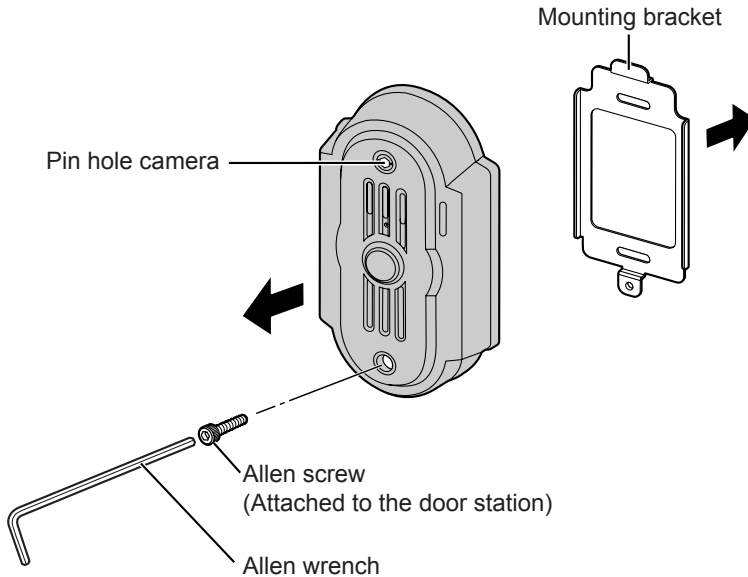
Be sure to install the door station on a flat, vertical wall.

Important:

● On the bottom surface of the door station, there is a hole to allow water to drain. Do not cover it up when installing.

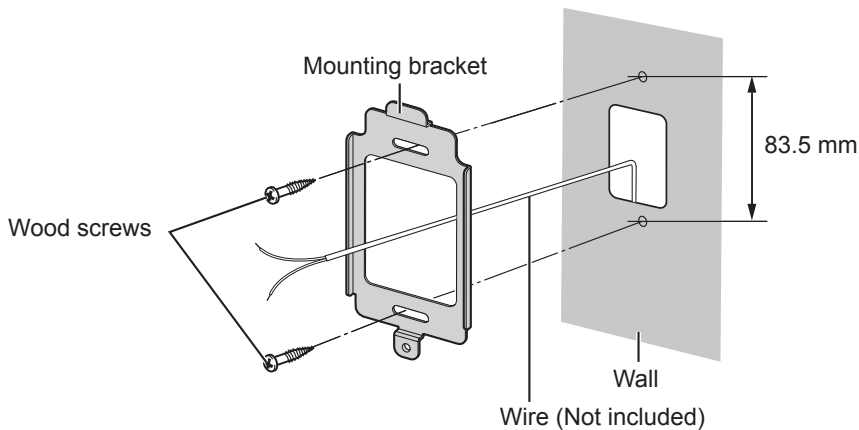
1 Unscrew the Allen screw using the longer end of the Allen wrench and remove the mounting bracket from the rear of the door station.

● The pin hole camera is not a screw to be touched or removed.



2 Attach the mounting bracket to the wall using the wood screws (3.8 mm x 20 mm).

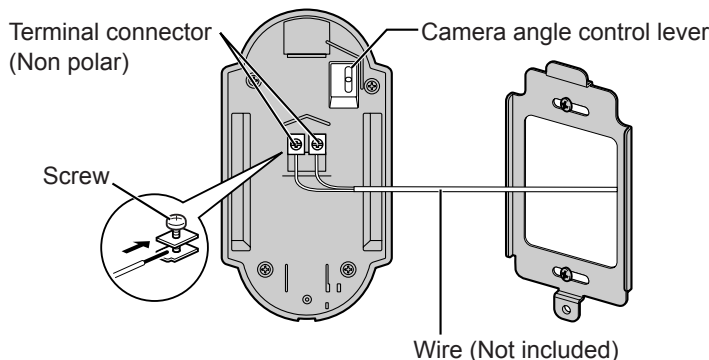
● Before drilling, see page 4 for installation location.



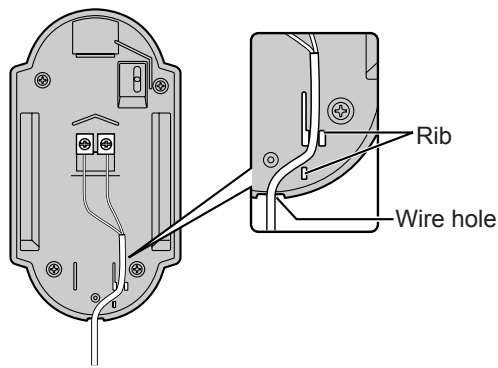
3 Connect the wires that connect to the main monitor station to the terminal connector by unscrewing the screws, pushing in the wires, then tightly fastening the screws.

● See page 5 for the wire type and distance.

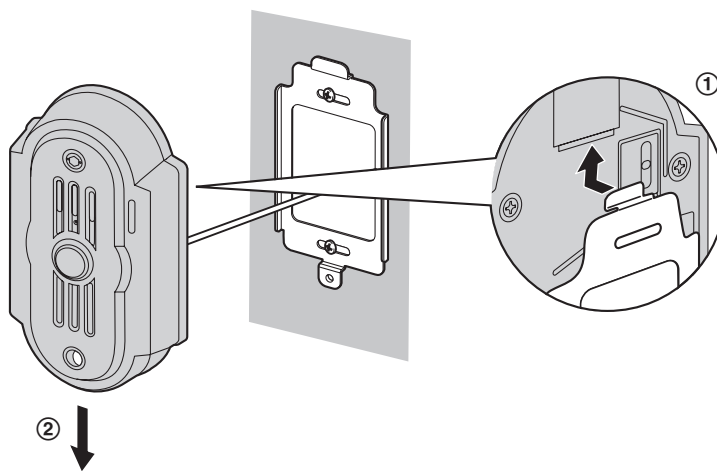
● You can change the camera angle using the camera angle control lever. See page 4 for details.



- If you want to connect the wires without them passing through a hole in the wall, connect the wires by passing them through the ribs and the wire hole.

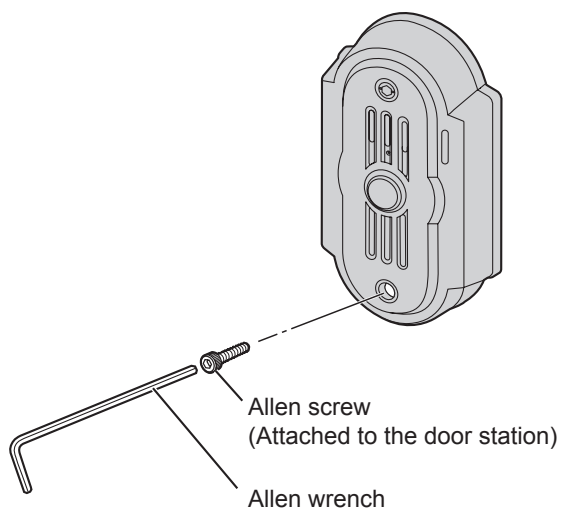


- 4** Mount the door station to the mounting bracket.



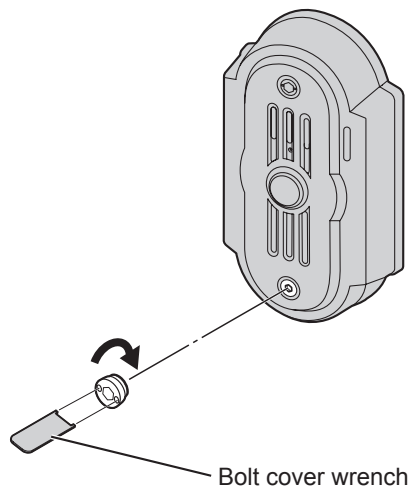
Push the door station down until it is secure.

- 5** Insert the Allen screw using the longer end of the Allen wrench.



Installation

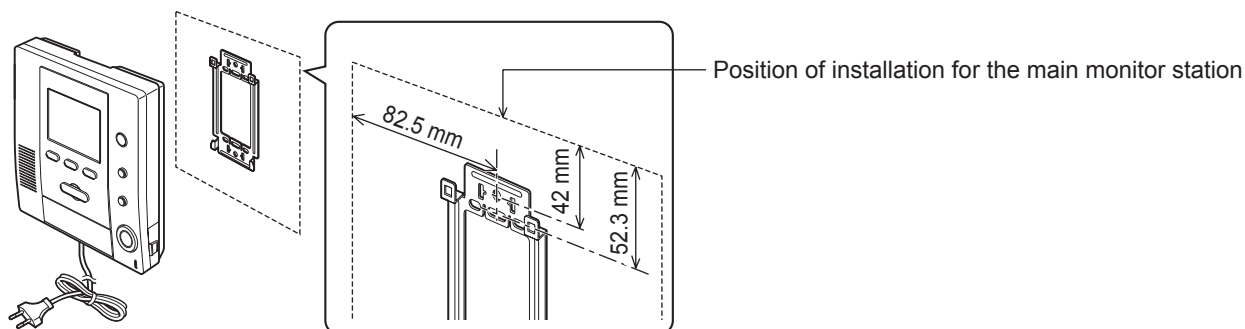
6 Attach the bolt cover using the bolt cover wrench.



Installing the main monitor station

Note:

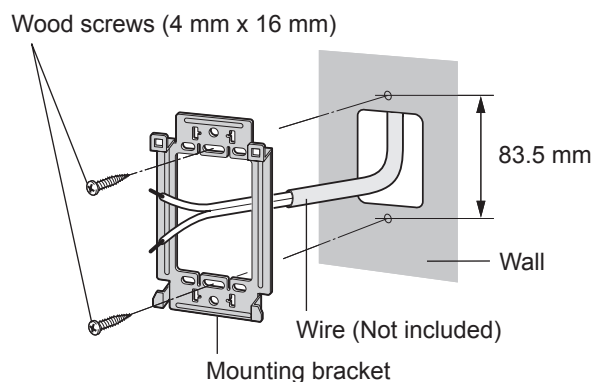
- If a position of installation for the main monitor station is specified, install the mounting bracket to one of the following positions.



- 1 Install the mounting bracket to the wall securely.

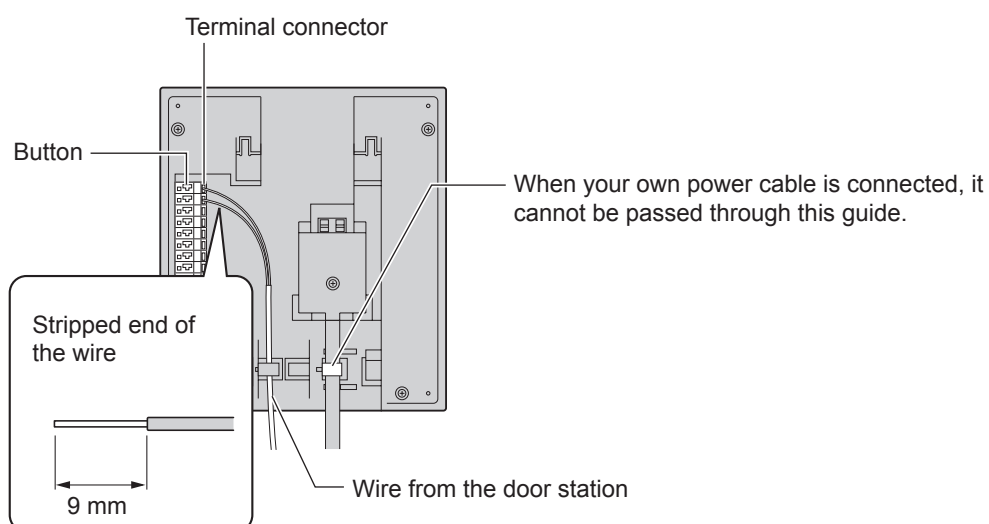
Note:

- Install the mounting bracket on the vertical and flat wall.



- 2 Attach the wires connected to the door station to the terminal connector.

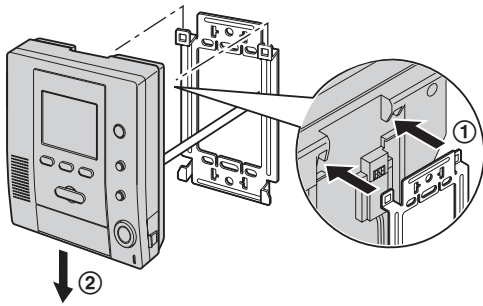
- Connect the wire correctly according to the wiring schematic diagram on page 5.
- While pressing on the button with a pointed object such as a screwdriver, insert the wire into the terminal connector.
- If you want to use your own power cable, see page 11.



Installation

3 Mount the main monitor station to the mounting bracket.

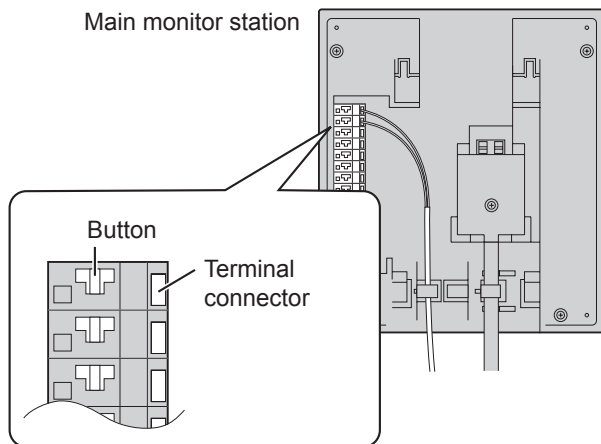
- ① Fit into position as shown in the figure.
- ② Push the main monitor station down until it is secure.



4 Connect the plug into an AC outlet (220 – 240 V AC).

To attach the wires

- Strip off of the wire cover so that about 9 mm of the wire is exposed.
- While pressing on the button with a pointed object such as a screwdriver, insert the wire into the terminal connector.
- To disconnect a wire, press on the button while pulling out.



To connect the plug to the power outlet which is not easily accessible

Important:

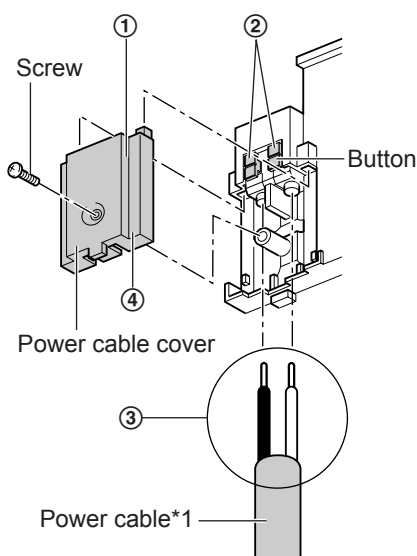
- If you want to connect the plug to the power outlet which is in the wall or is not easily accessible, install a main disconnect device near the main monitor station.
- Use a main disconnect device with minimum 3 mm contact spacing inside the device and showing "ON" and "OFF".

To change the power cable

Important:

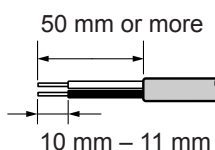
- Be sure to install a main disconnect device near the product.

Rear of the main monitor station

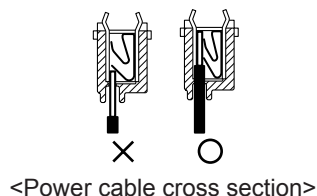


- ① Remove the power cable cover.
- ② Disconnect the power cable while pressing the button.
- ③ Connect your own power cable (220 – 240 V AC) while pressing the button.

1. Strip end of the wire cover 10 – 11 mm.
(Wire Type: $\phi 1.6$ or $\phi 2.0$ Single-wired cable line)



2. Insert the wire inward securely.



Caution:

- Insert the wire inward securely.
The unit may overheat when insertion is insufficient.
- ④ Attach the power cable cover.
 - Insert the wire into the slot.

*1: Power cable type: $\phi 1.2$ Fire alarm cable 16 AWG

To use an existing wire in your home

- ① Be sure to turn off the power and confirm that the wire type is CAT-3 ($\phi 0.5$) or 22AWG ($\phi 0.65$).
If the wire type is not CAT-3 ($\phi 0.5$) or 22AWG ($\phi 0.65$), change the wire to either of the specified wire types.
- ② Install the main monitor station and the door station.
- ③ Turn on the power.

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