Panasonic

Installation Guide

Model Name	Model No.
Video Intercom System	VL-SA74CX
Main Monitor Station (7 Inches)	VL-MA74CX
Door Station	VL-VA504CX

- This guide is for use with the above models

Door Station

Main Monitor Station

- The Installation Guide can also be accessed from the following site:
  https://www.panasonic.com/mea/en/business/security/video-intercom.html
- Door station is described as "doorphone" and Main monitor station is described as "main monitor" in this guide.
- In this guide, the suffix of each model number (e.g., the "CX" in "VL-SA74CX") is omitted unless necessary.

Note to the Installer

- Before attempting to connect or operate this product, please read the label on the rear of the doorphone and the main monitor/extension monitor.
- Please read this guide carefully, and install the product safely and correctly by following the instructions. Carefully read the information found in the section titled "For your Safety" in particular.
- Only use attachments/accessories specified by the manufacturer.
- The installation shall be carried out in accordance with all applicable installation rules.
- To the maximum extent permitted by law, Panasonic assumes no responsibility for injuries or property damage resulting from failures arising out of improper installation or operation inconsistent with this document.
- After installation, make sure to leave this guide with the customer.

For your Safety

To prevent severe injury and loss of life/ property, read this section carefully before using the product to ensure proper and safe operation of your product.

⚠ WARNING

Preventing fire, electric shock and short circuits

- Leave installation work to the dealer. Installation work requires technique and experiences. Failure to observe this may cause fire, electric shock, injury, or damage to the product. Consult the dealer.
- Electrical connection work should be performed by certified personnel only. Certification is required for performing electrical connection work. Consult your dealer.
- Do not attempt to disassemble or modify this product. Contact an authorised service center for repairs.
- Never install wiring during a lightning storm.
- Do not connect non-specified devices.
- Do not connect a power cable to a terminal that is not specified in this guide.
- When opening holes in walls for installation or wiring, or when securing the power cable, make sure you do not damage existing wiring and ductwork.
- Do not make any wiring connections when the power supply is turned on.
- Do not use the supplied power supply unit for outdoor installations (it is for indoor use only).
- Do not install the main monitor/ extension monitor in the following places:
  –Places where the main monitor/ extension monitor may be splashed with water or chemicals.
  –Places where there is a high concentration of dust, or high humidity.

  Do not perform any actions (such as fabricating, twisting, stretching, bundling, forcibly bending, damaging, altering, exposing to heat sources, or placing heavy objects on the power cable) that may damage the power cable. Using the product with a damaged power cable may cause electric shock, short circuits, or fire. Contact an authorized service center for repairs.

⚠ CAUTION

Preventing electric shock

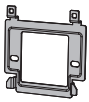
- If the wiring is underground, do not make any connections underground.
- If wiring is underground or in open area use a protection tube to prevent damage.
- Install the product securely adhering to the instructions in this guide to prevent it from falling off the wall.
- Avoid installing onto low-strength walls, such as gypsum board, ALC (autoclaved lightweight concrete), concrete block, or veneer (less than 18 mm thick) walls.

This should be also included for door station installation

Supplied Accessories for Installation

Screw x 4
(PM 3mm x 12mm)

For the door station			
Screw x 4 (KA 4 mm x 25 mm)	Screw x 1 (PM 2 mm x 6 mm)	RFID keys x 7	Silicone Cap x 4 (M6 x 30mm)
Screw x 1 (KM 3 mm x 7 mm)			Allen key x 1

For the main monitor/extension monitor			Power supply unit
 Mounting bracket x 1	Silicone Cap x 2 (M6 x 30mm)	• 2-pin cable x 3 3-pin cable x 2 10-pin cable x 1	Power supply unit x 1 (DC 15V 1A)
	Screw x 2 (KA 4 mm x 25 mm)		

Important:

- You will need the following additional items to install and configure the doorphone and the main monitor/extension monitor.

1. Wires (for door lock and other connections) prepare wire of the appropriate (→ “wire type and length” (Page no. 8))
2. Micro SD Card for additional memory
3. POE switch
4. LAN cable
5. IP Camera, etc.

Note:

- The illustrations in the supplied manual(s) may vary slightly from the actual product.

Precautions for Installation

To avoid malfunction or communication disturbances, do not install the door station or the main monitor/extension monitor 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 sulphide, ammonia, sulphur, or noxious fumes.

For the doorphone

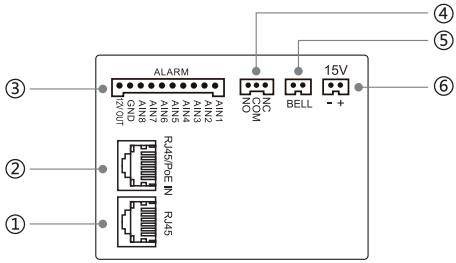
- If a strong light is shining on the doorphone, the visitor's face may not be distinguishable. Do not place the doorphone in the following locations:
  –Where most of the background is the sky.
  –Where the background is a white wall, and direct sunlight will reflect off it.
  –Where direct sunlight will shine on the doorphone.
- Do not place the doorphone in locations where echoing occurs, as this will cause the doorphone to beep frequently.
- Make sure the rear of the doorphone is not subject to water.
- Depending on the installation location, condensation may form on the doorphone's lens cover. This may cause images to become obscured. Condensation will dissipate as the temperature rises.

For the main monitor/extension monitor

- Leave at least 20 cm of space above, below, and to the left and right sides of the main monitor/extension monitor. Do not install on a wall that is deeply recessed.
- Do not install the main monitor/extension monitor inside a wall.
- Be sure to install the main monitor/extension monitor more than 5 m away from the doorphone.
- In areas surrounded by a high electrical field, disturbance may occur in the main monitor's/extension monitor's image or sound.

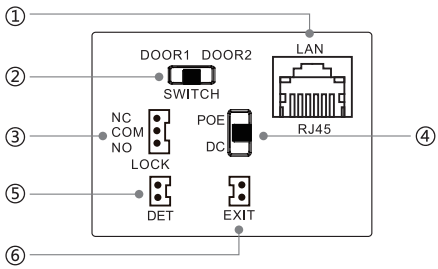
Device Interface

Indoor monitor



No.	Interface	Description
1	RJ45	connect outdoor unit (please follow diagram 2)
2	RJ45	connect PoE
3	ALARM	connect alarm sensor
4	NO/COM/NC	connect NO/NC type lock
5	BELL	play ringtone of door 1 when under short current
6	15V	connect DC15V adapter

Outdoor unit



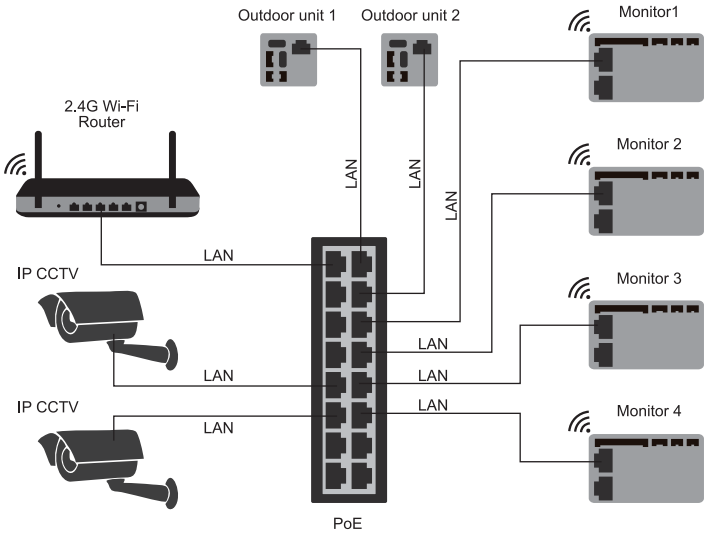
No.	Interface	Description
1	RJ45	connect indoor monitor (please follow diagram 2)
2	DOOR 1&DOOR 2 switch	switch outdoor unit to be shown as door 1 or door 2
3	NO/COM/NC	connect NO/NC type lock
4	POE/DC	switch wiring diagram(please follow diagram1 and diagram 2)
5	DET	to detect if the door lock is close or not
6	EXIT	exit button to open the door

Wiring Schematic Diagram

Set up correctly according to the following wiring schematic diagram and "Wire type and length".
(Page no. 8)

Wiring Schematic Diagram 1

Wiring with PoE Switch: 2 Outdoor + 4 Monitors + 2 IP Camera



Note: Please switch outdoor unit to **POE(upper side)**

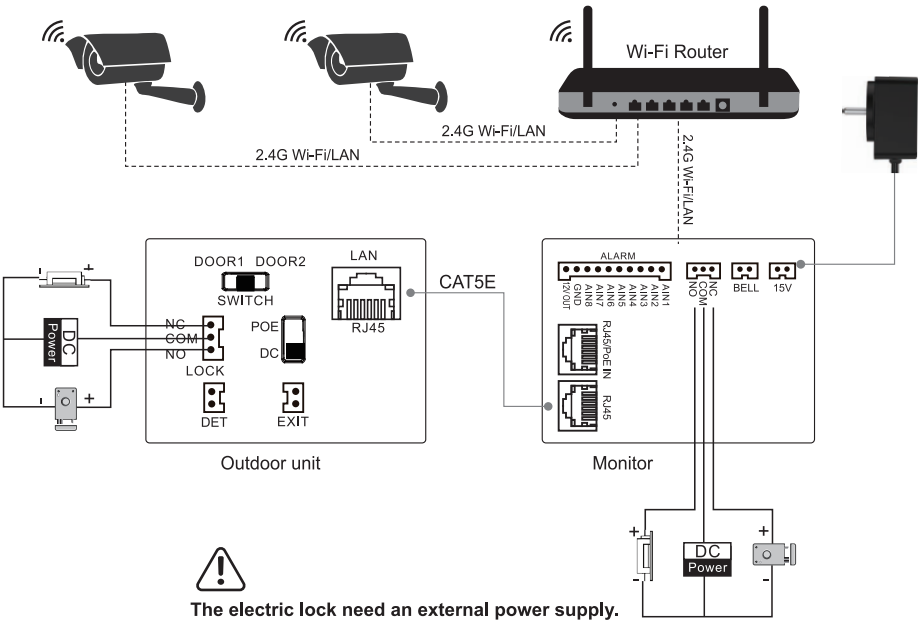
Note: The monitor can connect **Max. 2** IP CCTV(2 wired or 2 wireless or 1 wired + 1 wireless)

Note: No need to change LAN IP address of VDP, IP camera can be integrated using Wi-Fi network connectivity on monitors.

Note: Please refer to page 7 how to connect the electric lock.

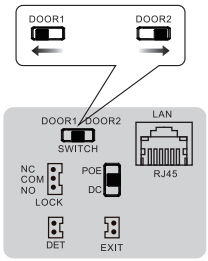
Wiring Schematic Diagram 2

Wiring without PoE Switch: 1 Outdoor + 1 Monitor (Powered by Adapter) + 2 IP Camera



Note: Please switch outdoor unit to **DC(lower side)**

1. If no POE is used, only wireless IP CCTV can connect to monitor.
2. Can not use multi-Monitor/outdoor in above connectivity.



(Door 1 & Door 2 setting)

Door station ID

The system can connect max 2 door stations. If you want to connect 2 door stations, please switch the door station ID into different one to avoid conflict as the below left image.

Wire Type and Length

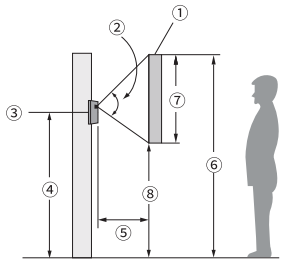
Wiring run	Wire type		
	Specification		Length (Max.)*
	Resistance	Type	
Door station – Main monitor	10Ω	CAT5/CAT6	50m
Door station - PoE switch	15Ω	CAT5/CAT6	80m
Monitor - PoE switch	15Ω	CAT5/CAT6	80m
Door station – Electric lock	0.2Ω	RVV2 1.0 mm²	1.5 m

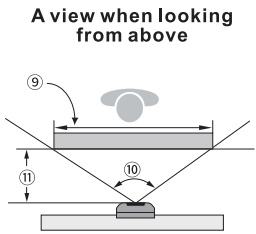
* Length (Max.) depends upon the cable quality and losses in the network

Doorphone Installation Position

Installation position of the doorphone and camera range
Views when the camera is facing forwards at 0° (default).

- Example: Installation height is 1450 mm (standard position).





(Units:mm)

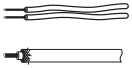
① Image range ② Approx. 80° ③ Centre of doorphone ④ Approx.1450 ⑤ Approx. 500
⑥ Approx.1810 ⑦ Approx. 840 ⑧ Approx. 970 ⑨ Image range: Approx.1730 ⑩ Approx.120°
⑪ Approx. 500

Note:
The measurements and angles are for reference purposes and may vary depending on the environment.

Installing the doorphone

Important:

–Never use the following types of wiring.
Consult a qualified Panasonic technician/dealer.



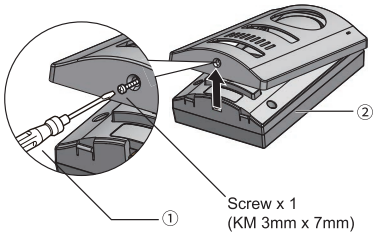
Telephone cable

Coaxial cable

- See "Wire type and length" (Page 8) for information about wiring materials.

1 Remove the bracket for outdoor unit.

① Loosen the mounting screw.

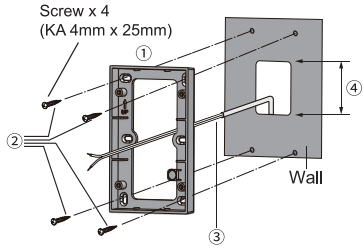


① Screwdriver

② Bracket for outdoor unit.

2 Attached the bracket (①) to the wall securely using the screws (②) (accessory).

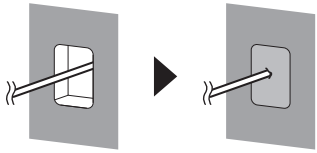
- Install the bracket on a vertical flat wall.
- Before drilling, refer to “Precautions (Page no.4) for installation” for installation location.



③ Connector (included as accessory)

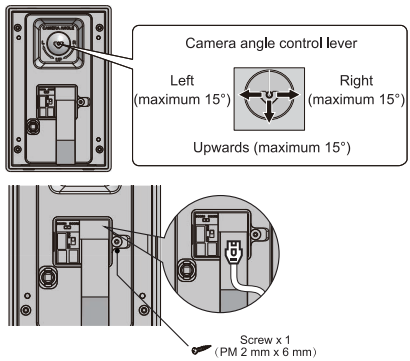
④ 84 mm

Note: To prevent dew condensation, fill the hole on the wall for wiring as much as possible.



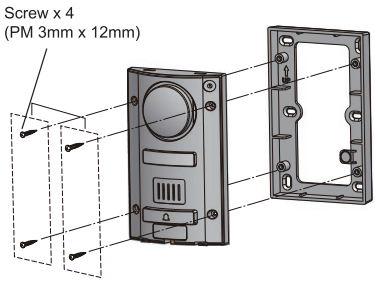
3 Connect the wire, then mount the doorphone to the bracket for outdoor unit.

①Use the push pin connector to insert wires ensure the wires are firm and secure.

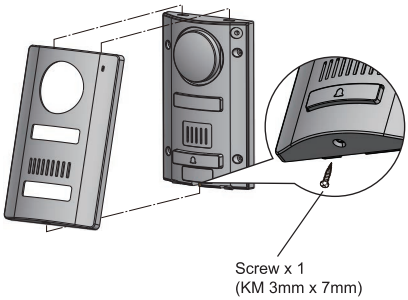


② Wire (connecting to the main monitor)

4 Mount the doorphone to the bracket and fasten it with the screw.



5 Attach the front panel and fix it with screw

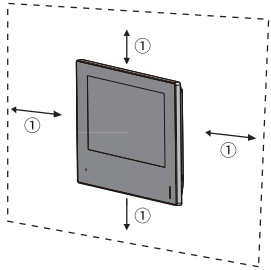


Main Monitor/Extension Monitor Installation Position

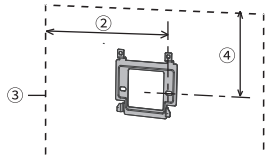
About the installation position of the main monitor/extension monitor and mounting bracket

- Install at such a height that the customer can easily access the display.

- For the following reasons, leave at least 20 cm (①) of space above, below, and to the left and right sides of the main monitor/extension monitor:
  –To prevent malfunction and sound distortion.



- After deciding where to install the main monitor/extension monitor, attach the mounting bracket in the location shown below.

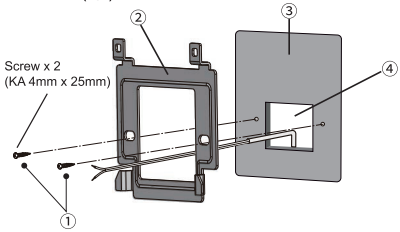


② 125 mm
③ Main monitor/extension monitor installation position
④ 93 mm

Installing the Main Monitor/ Extension Monitor

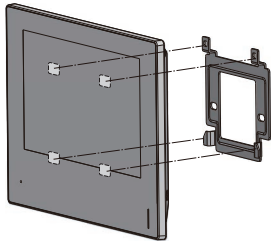
1 Attach the mounting bracket (②) to the wall

- Install the mounting bracket on a vertical flat wall (③).



① Screws (accessory) ② Mounting bracket
③ Vertical flat wall ④ Hole in wall

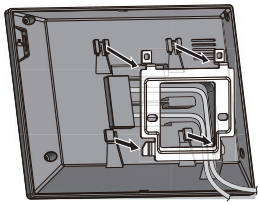
2 Connecting multiple VL-MA74CX monitors:
Refer "Wiring Schematic Diagram" page no. 6&7.



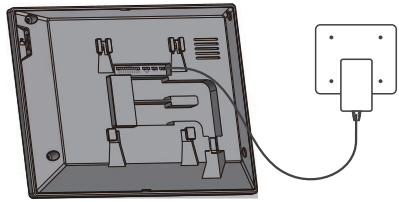
- Making wiring connections

Please connect the wiring connector to the correct terminal on the monitor.

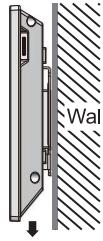
3 Mount the monitor to the mounting bracket.



3.1 Please connect the power connector correctly according to the wiring diagram, and then connect the adapter to the socket, as below image.



3.2 Line up the tab on the bracket with the groove on the main monitor/ extension monitor, and push the main monitor/extension monitor down until it is secure.



Note :

- Make sure not to pinch the wires on the mounting bracket when installing.
- Do not forcibly attach monitor to the mounting bracket.

Panasonic Marketing Middle East & Africa FZE

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