

Important Information and Quick Guide

Model Name	Model No.
Wireless Video Intercom System	VL-SWD273
Video Intercom System	VL-SVD273
Main Monitor Station	VL-MWD273



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Thank you for purchasing a Panasonic product.

Please read this document before using the product and save it for future reference.
Carefully read the information found in the section titled "For your safety" in particular.




For further information about features and operations, visit our Web site and find the document:
<https://panasonic.net/cns/pcc/support/intercom/swd273>

Installation Guide is supplied separately.

This system is an auxiliary system; it is not designed to provide complete protection from property loss. Panasonic will not be held responsible in the event that property loss occurs while this system is in operation.

1. Introduction

1.1 Model composition

Model composition	Main Monitor Station *1 (Main monitor*2)	Wireless monitor station (Sub monitor*2)	Door Station (Doorphone*2)
			
VL-SWD273	VL-MWD273	VL-WD613	VL-V554
VL-SVD273	VL-MWD273	-	VL-V554
VL-MWD273	VL-MWD273	-	-

*1 Can be configured to be used as an extension monitor.

*2 Product names used in this document.

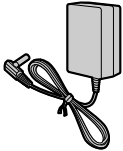


Caution:

- Before attempting to connect or operate this product, please read the label on the rear of the main monitor.

1.2 Accessory information

1.2.1 Supplied accessories

For the sub monitor

Accessory item			
	AC adaptor/ PNLV226	Rechargeable batteries	Charger
Quantity	1	2	1

Note:

- Accessories for installing the main monitor and the doorphone are described in the supplied Installation Guide.

1.3 General information

- In the event of problems, you should contact your equipment supplier in the first instance.
- The available products differ depending on your region. For more information, please consult your dealer.
- In this document, the suffix of each model number (e.g., the "BX" in "VL-MWD273BX") is omitted unless necessary. When the suffixes are used to describe models (e.g., "BX models"), the suffixes refer to all models in the series.
- Design and specifications are subject to change without notice.
- The illustrations in the supplied document may vary slightly from the actual product.

House mode and Apartment mode

The main monitor can be configured to be used in two modes: House mode and Apartment mode.

- House mode refers to when the main monitor is used as a stand-alone system and is not connected to a larger system comprised of a VL-V900 lobby station. This document describes the operations for House mode.
- Apartment mode refers to when the main monitor is used connected to a larger system comprised of a VL-V900 lobby station, such as in apartment complexes. Operations for Apartment mode are described in 6. VL-V900 basic operations (Page 13) of this document.

For further information about features and operations, visit our Web site and find the document:

<https://panasonic.net/cns/pcc/support/intercom/v900>

For Europe

Declaration of Conformity:

- Panasonic Corporation declares that the radio equipment type (VL-MWD273BX) is in compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address:

<http://www.ptc.panasonic.eu/doc>

Contact to Authorised Representative:

Panasonic Testing Centre

Panasonic Marketing Europe GmbH

Winsbergring 15, 22525 Hamburg, Germany

Ecodesign information

Ecodesign information under EU Regulation (EC) No. 1275/2008 amended by (EU) Regulation No. 801/2013. From 1 January 2015.

Please visit here: www.ptc.panasonic.eu/erp

Click [Downloads]

→ Energy related products information (Public)

Power consumption in networked standby and guidance are mentioned in the Web site above.

This device is classified as a HiNA device (networked equipment with high network availability), according to Ecodesign requirements.

Graphical symbols for use on equipment and their descriptions
















1		2		3		4		5		6	
7		8		9		10		11		12	

1. Alternating current (A.C.) 2. Direct current (D.C.) 3. Protective earth 4. Protective bonding earth 5. Functional earth 6. For indoor use only 7. Class II equipment (equipment in which protection against electric shock relies on Double Insulation or Reinforced Insulation) 8. "ON" (power) 9. "OFF" (power) 10. Stand-by (power) 11. "ON"/"OFF" (power; push-push) 12. Caution, risk of electric shock

1. Introduction

1.4 Symbols, expressions, and styles

The following symbols, expressions, and styles are used in this document.

Item	How it is expressed	Example
Text displayed on the product's display	Text is displayed in a special font, usually enclosed in quotation marks	"Initial settings"
Icons displayed on the product's display	Black-and-white illustration of icon is used	
Buttons with printing on them or near them	Button printing is displayed, usually wrapped in thick brackets	【TALK】 【≡】
Soft keys	Black-and-white illustration of the corresponding soft key icon is used	
Navigator key (sub monitor only)	Either referred to by name, or with a black-and-white illustration	<ul style="list-style-type: none"> • "Use the navigator key to select..." • "Press  to select..." • "Select..."
Procedures	Usually written in an abbreviated style. The verb may be omitted. Unless otherwise stated, all procedures are for both the main monitor, extension monitor, and sub monitor.	<p>Main monitor/extension monitor example</p> <p> → "Display" →  → "Brightness"</p> <ul style="list-style-type: none"> • Meaning: Press the soft key under the displayed  soft key icon, press the soft keys under the displayed  and  soft key icons to select "Display", press the soft key under the displayed  soft key icon, and then press  or  to select "Brightness". <p>Sub monitor example</p> <p> → "Brightness" →  → select the desired setting.</p> <ul style="list-style-type: none"> • Meaning: Press the  button, use the navigator key to select "Brightness" on the display, and then press the soft key under the displayed  soft key icon.

1.5 Trademarks and registered trademarks

- The software of this product is based in part on the work of the Independent JPEG Group.
- All other trademarks identified herein are the property of their respective owners.

2.1 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 and electric shock

- Use only the power source marked on the product. If you are not sure of the type of power supplied to your home, consult your dealer or local power company.
- Use only the specified power supply unit, AC adaptor, and AC cable.
- Do not attempt to disassemble or modify this product. Contact an authorised service centre for repairs.
- Never touch the power supply unit, AC adaptor, and AC cable with wet hands.
- Do not touch the power supply unit, AC adaptor, and AC cable during an electrical storm.
- Do not use the product (excluding the doorphone) in areas that are exposed to rain, moisture, steam, or oily smoke, or areas that have excessive dust.
- 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 and the AC adaptor) that may damage the power cable and the AC adaptor. Using the product with a damaged power cable or AC adaptor may cause electric shock, short circuits, or fire. Contact an authorised service centre for repairs.
- Do not overload the power outlet or wiring above the specified levels. Overloading by having many connections on one power outlet may cause heat generation, resulting in a fire.
- Never put metal objects inside the product. Never spill any liquid on the product (excluding the doorphone).
If metal objects enter the product or the product becomes wet, turn off a circuit breaker or unplug the product from the power outlet and contact an authorised service centre.
- Do not use a microwave oven or other devices, such as electromagnetic cookers, to speed up the drying process of any parts of the product.
- Completely insert the AC adaptor and AC cable plug into the power outlet. Failure to do

so may cause electric shock and/or excessive heat resulting in a fire. Do not use damaged AC adaptor, AC cable plug, or power outlets.

- Regularly remove any dust, etc., from the AC adaptor and AC cable plug by unplugging them from the power outlets, then wiping them with a dry cloth. Accumulated dust may cause an insulation defect from moisture, etc., resulting in a fire.
- Turn off a circuit breaker or unplug the product from the power outlet if the product emits smoke, an abnormal smell or makes unusual noise, or if the product has been dropped or physically damaged. These conditions can cause fire or electric shock. Confirm that smoke has stopped emitting and contact an authorised service centre.
- Hold the main body (not the metal parts) of the AC adaptor and AC cable plug when unplugging them. Unplugging the AC adaptor and AC cable plug while holding their cords or cords' plugs may result in fire, electric shock, or injury.

Preventing accidents

- Do not use the product in health care facilities if any regulations posted in the area instruct you not to do so. Hospitals or health care facilities may be using equipment that could be sensitive to external RF (radio frequency) energy.
- Do not install or use this product near automatically controlled devices such as automatic doors and fire alarms. Radio waves emitted from this product may cause such devices to malfunction, resulting in an accident.
- Consult the manufacturer of any personal medical devices, such as pacemakers or hearing aids, to determine if they are adequately shielded from external RF (radio frequency) energy. (The product operates in the frequency range of 1.88 GHz and 1.90 GHz with a peak transmission power of 250 mW (max.).)



CAUTION

Preventing accidents, injuries, and property damage

- Do not use the product in unstable areas or areas prone to strong vibrations. This may cause the product to fall, resulting in damage to the product or injury.

2. Important information

- Do not put your ear(s) near the speaker, as loud sounds emitted from the speaker may cause hearing impairment.
- Do not place coins or other metal objects in the charger. Metal objects may become hot, causing burns.
- Do not place magnetic cards or other devices that store data magnetically (such as credit cards) near the charger. Failure to do so may make the cards or devices unusable.
- The speaker on the handset is magnetised and may retain small metallic objects.

Sub monitor batteries

Preventing leakage, heat generation, rupture, or accidents

- We recommend using the Panasonic rechargeable batteries, HHR-4MVE. USE ONLY rechargeable Ni-MH batteries AAA (R03) size.
- Do not mix old and new batteries.
- Do not open or mutilate the batteries. Released electrolyte from the batteries is corrosive and may cause burns or injury to the eyes or skin. The electrolyte is toxic and may be harmful if swallowed.
- Charge the batteries provided or identified for use with the product only, in accordance with the instructions and limitations specified in this document.
- Do not heat batteries or dispose of batteries in a fire.
- Do not touch the ends of batteries (⊕, ⊖) with metal objects.
- Handle the batteries with care. Do not allow conductive materials such as rings, bracelets or keys to touch the batteries, otherwise a short circuit may cause the batteries and/or the conductive material to overheat and cause burns.
- Only use the specified charger and AC adaptor to charge the batteries. Failure to follow these instructions may cause the batteries to swell or explode.

2.2 Important safety instructions

When using this product, basic safety precautions should always be followed to reduce the risk of fire, electric shock, or personal injury.

1. Do not use this product near water. For example, near a bathtub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, etc.
2. Use only the power supply unit, AC adaptor, AC cable, and batteries indicated in this document.
Do not dispose of the battery(ies) in a fire. They may explode. Check with local codes for possible special disposal instructions.

SAVE THESE INSTRUCTIONS

2.3 For best performance

Location/avoiding noise (main monitor/sub monitor)

The main monitor, sub monitor, and other compatible Panasonic units use radio waves to communicate with each other. (The product operates in the frequency range of 1.88 GHz and 1.90 GHz with a peak transmission power of 250 mW (max.).)

- For maximum coverage (approx. 100 m) and noise-free communications, install your main monitor:
 - at a convenient, high, and central location with no obstructions between the sub monitor and main monitor in an indoor environment.
 - away from electronic appliances such as TVs, radios, personal computers, wireless devices, or digital cordless phones.
 - facing away from radio frequency transmitters, such as external antennas of mobile phone stations. (Avoid installing the main monitor near a window.)
- Coverage and voice quality depends on the local environmental conditions.
- Do not place the charger near TVs, speakers, or other devices that emit electromagnetic waves. Failure to do so may prevent the charger from charging the product.

Environment (main monitor/sub monitor)

- Keep the unit (main monitor/extension monitor and sub monitor) away from electrical noise generating devices, such as fluorescent lamps and motors.
- The unit should not be exposed to direct sunlight.
- The unit should be kept away from heat sources such as radiators, cookers, etc. It should not be placed in rooms where the temperature is less than 0 °C or greater than 40 °C. Damp basements should also be avoided.
- Do not install the product in locations that are suspect to sudden changes in temperature. Failure to do so may cause condensation to form on the product causing malfunction.
- Even when the main monitor and sub monitor are used within 100 m of each other, obstructions can cause weak signals, noise, interrupted transmissions, distorted images and slow image refresh rates. Obstructions can include:
 - Metal doors or metal shutters.
 - Heat insulation including aluminium foil.
 - Concrete walls or walls made of galvanized iron sheet.
 - If the sub monitor is being used in a different building, or a different part of the house, i.e. a different floor to the where the main monitor has been installed.
 - Many walls.
 - Double insulated glass windows.

- Some types of hearing aids may receive noise from wireless communications between the main monitor, sub monitor, and other compatible Panasonic units.
- Operating the unit near electrical appliances may cause interference. Move away from the electrical appliances.
- In areas surrounded by a high electrical field, disturbances may occur in the unit's image or sound.

2.4 Other important information

- The AC adaptor and AC cable plug are used as the main disconnect device. Ensure that the power outlet is installed near the product and is easily accessible.

Caution:

- **Risk of explosion if battery is replaced by incorrect types. Dispose of used batteries according to the instructions.**

Tapping

This product uses digital wireless technology so that a call is rarely intercepted. However, calls may be tapped by a third party because the product also communicates using radio waves.

- "Tapping" means that the other party intercepts a radio message intentionally or accidentally by using a receiver.

Privacy and rights of portrait

When installing or using the doorphone, please take into consideration the rights of others with regard to privacy.

- It is generally said that "privacy" means the ability of an individual or group to stop information about themselves from becoming known to people other than those whom they choose to give the information. "Rights of portrait" means the right to be safe from having your own image taken and used indiscriminately without consent.

Personal information

The main monitor's/extension monitor's internal memory records personal information (image and audio recordings of visitors, etc.). Panasonic assumes no liability for any unforeseen damages arising from the exposure of the recorded information.

- **Disclaimer**

Recorded data may be altered or deleted as a result of incorrect operations, exposure to static electricity, accidents, malfunction, repairs or other operations. Panasonic assumes no liability for any direct or indirect damages resulting from the loss or alteration of recorded images.

Requesting repairs for the product

- Before submitting the main monitor/extension monitor and sub monitor for repair, initialize them.

This will delete all information saved in the main monitor/extension monitor and sub monitor.*1

- Even if the product is sent for repairs without being initialized, the memory (including recorded data and settings) for the main monitor/extension monitor or sub monitor may be cleared and set to factory default after repair.
- If operations cannot be performed due to the main monitor/extension monitor or sub monitor malfunction, consult with the place of purchase for appropriate action.

Note for product disposal, transfer, or return

- This product can store your private/confidential information.

To protect your privacy/confidentiality, we recommend that you erase the information (recorded images) from the memory before you dispose of, transfer or return the product.

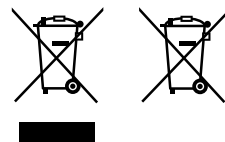
All the recorded images can be erased at once by initializing the main monitor/extension monitor and sub monitor.*1

- *1 Main monitor/extension monitor: perform "**Factory Setting**" in "**Initialize settings**".

Sub monitor: perform "**Initialize**".

Reference: 5.1 Function settings (Page 12).

Information on Disposal in other Countries outside the European Union



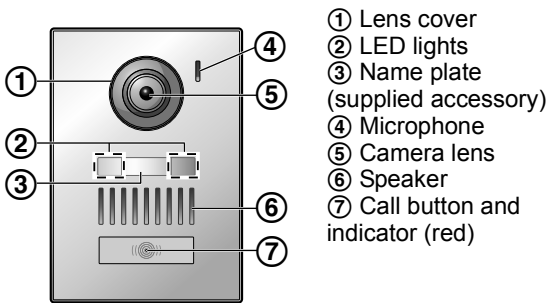
These symbols are only valid in the European Union. If you wish to discard these items, please contact your local authorities or dealer and ask for the correct method of disposal.

Others

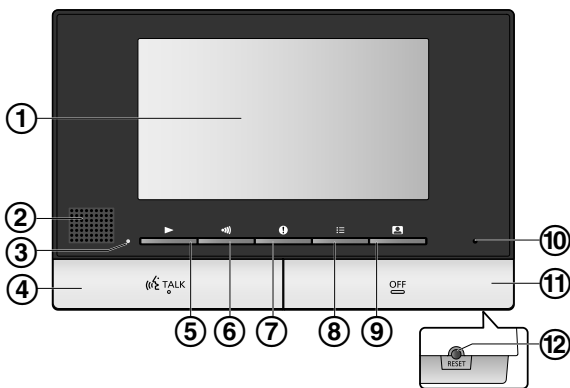
- It is prohibited to disassemble or modify this product. Contact the dealer where you purchased this product for repair.
- When power fails, this product cannot be used.
- For the recorded image:
The recorded image may be lost when:
 - Mishandled
 - Electric shock or radio wave interference occurs.
 - The power is turned off during use.
- Panasonic may not be liable for damages due to external factors such as power failures.
- If you stop using the main monitor/extension monitor and the doorphone, remove the main monitor/extension monitor and the doorphone from the walls to prevent them from falling off. (Consult your dealer for information about removing the product.)

3.1 Controls

3.1.1 Doorphone

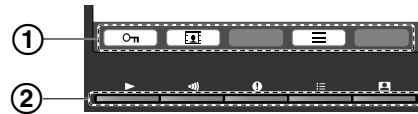


3.1.2 Main monitor/extension monitor



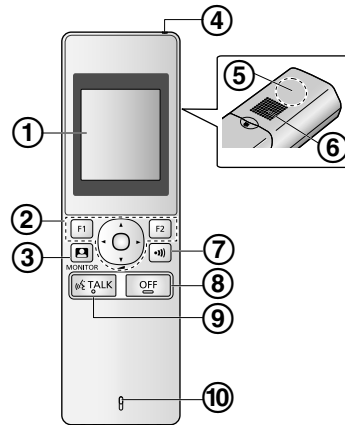
- ① Display (page 9)
- ② Speaker
- ③ Play lamp (blue)
- ④ TALK button ([TALK])
- ⑤ Play button ([▶])
- ⑥ Page button ([⏪])
 Press to page sub monitors or extension monitors when the main monitor is idle or transfer calls.
- ⑦ Information button ([!])
- ⑧ Menu button ([≡])
- ⑨ Monitor button ([📺])
- ⑩ Microphone
- ⑪ OFF button ([OFF])
- ⑫ RESET button
 If the main monitor cannot be correctly operated, press the [RESET] button with a pointed object to reset the main monitor. (Recorded images and configured settings are not affected.)

Soft keys

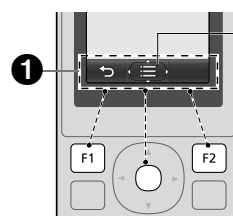


- ① Soft key icons, ② Soft keys
- Icons indicate the functions that can be operated by the soft keys.

3.1.3 Sub monitor



- ① Display (page 9)
- ② Multifunction buttons



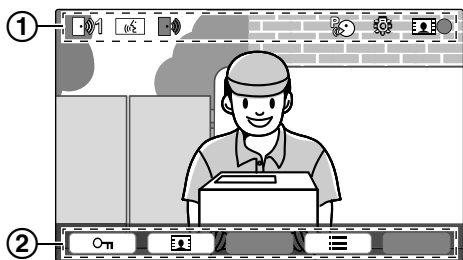
- ① Soft key icons
 Displays the functions that can be operated by [F1], [F2], and [F3].
- ② [≡] is displayed in screens such as the information screen. The arrows displayed in [⏪] indicate the direction that the button can be used in.

- ③ Monitor button ([📺])
- ④ Charge indicator (page 10)
- ⑤ Antenna (built-in)
 - Do not cover the antenna. (This may weaken radio waves.)
- ⑥ Speaker
- ⑦ Page button ([⏪])
- ⑧ OFF button ([OFF])
- ⑨ TALK button ([TALK])
- ⑩ Microphone

3.2 Using the display

3.2.1 Main monitor - display information

Image viewing screen



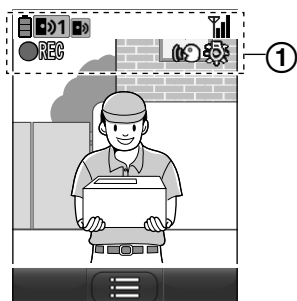
- ① Status icons (page 9)
- ② Soft key icons (page 8)

Status icons (main monitor)

- Indicates which doorphone is calling, monitoring, or on a call. ("1" indicates the device number.)
- Indicates there is a call from the doorphone when monitoring or on a call with another device.
- Indicates that the main monitor is on a call.
- Indicates that a doorphone and a PBX extension are talking.
- Indicates that the main monitor is monitoring.
- Indicates that images are being recorded.
- Indicates that the doorphone's LED lights are on.
- Indicates that "Press-to-talk" mode is on.

3.2.2 Sub monitor - monitor display

Image viewing screen



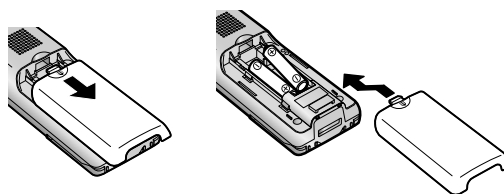
- ① Status icons (page 9)

Status icons (sub monitor)

- Battery level.
- Range status: The more bars displayed, the stronger the signal between sub monitor and main monitor.
- Out of range.
- Indicates the number of the sub monitor being used.
- Indicates that the doorphone's ringtone volume is muted.
- Indicates which doorphone is calling, monitoring, or on a call. ("1" indicates the device number.)
- Indicates there is a call from the doorphone when monitoring or on a call with another device.
- Indicates that images are being recorded.
- Indicates that "Press-to-talk" mode is on.
- Indicates that the doorphone's LED lights are on.

3.3 Battery installation

- USE ONLY rechargeable Ni-MH batteries AAA (R03) size. For replacement, we recommend using the Panasonic rechargeable batteries, HHR-4MVE.
- Do NOT use Alkaline/Manganese/Ni-Cd batteries.
- Confirm correct polarities (\oplus , \ominus).



Note:

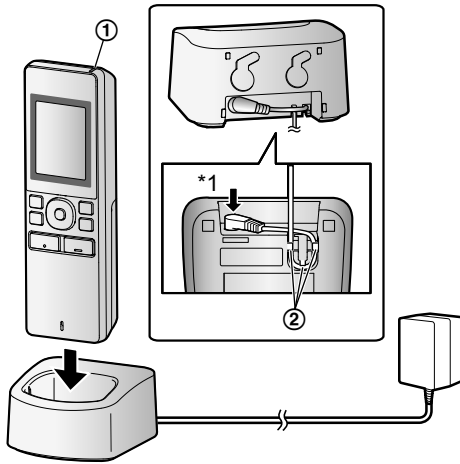
- Wipe the ends of batteries (\oplus , \ominus) with a dry cloth.
- Avoid touching the ends of batteries (\oplus , \ominus) or the unit contacts.

3. Preparation

3.4 Charging the sub monitor

Only connect the charger with the supplied Panasonic AC adaptor (page 2).

AC adaptor connections



*1 Press plug firmly.

- Connect the charger to the power outlet, and then place the sub monitor in the charger to charge it. Charging usually takes about 8 hours.

① Charge indicator










- when charging: lights
- when charging is completed: off

② Hook

Note:

- The sub monitor does not overcharge even if it is continuously placed in the charger.
- When the sub monitor is off the charger or the AC adaptor is disconnected for 1 week or more, remove the batteries in order to maintain battery performance and prevent the batteries from discharging.

3.5 Setting the language, date and time

- The play lamp lights if these settings are not configured.
- 1 Press the  button to turn on the display.
 - 2 Press  or  to select the desired language.
 - 3 Press .
 - 4 Press  again.
 - 5 Set the date and time.
 - Press  to select an item (i.e., year, month, day, etc.).
 - Press  or  to change the setting.
 - 6 When finished, press .

Note:

- The date and time settings may be deleted when there is a power outage. In this case, reconfigure the settings.
- The time may become out of sync over time (about 60 seconds per month).

4.1 Answering doorphone calls

When you receive a call from a doorphone, the main monitor, extension monitor, and sub monitor ring, and display an image from the doorphone.

To answer the call

Press **[TALK]**.

- Speak within about 50 cm of the microphone.
- Speak alternatively with the visitor. If you and the visitor speak at the same time, you will not hear each other.
- You can talk for up to about 90 seconds.

To end the call

Press **[OFF]**.

4.2 Talking with other devices

You can make intercom calls between the main monitor, sub monitor, and extension monitor.

To make a call

1. Press **[CALL]**.
2. If there are multiple devices, select the device to page → **[OK]**.
 - To page all devices, select “Call all together” → **[OK]**.
3. Page the other party.
4. Talk with the paged party when they answer the call.
5. When finished, press **[OFF]**.

To receive a call

1. When the intercom call is received, press **[TALK]** to talk to the paging party.
2. When finished, press **[OFF]**.

4.3 Monitoring the outside with the doorphone

You can monitor the sounds and images from the doorphone using the main monitor, extension monitor, and sub monitor.

1. Press **[CAMERA]**.
 - If there are multiple doorphones, select the desired doorphone → **[OK]**.
 - The images from the doorphone are displayed.
2. Monitor the sound and image.
 - You can talk to the monitored party by pressing **[TALK]**.
3. When finished, press **[OFF]**.

4.4 Recording manually (recording while monitoring)

The main monitor, extension monitor, and sub monitor can manually record 8 images while monitoring.

• Main monitor/extension monitor:

While monitoring, press **[RECORD]**.

• Sub monitor:

While monitoring, press **[MENU]** → select “Record” → **[OK]**.

4.5 Playing recorded images (main monitor and extension monitor only)

When there are new (i.e., unplayed) images recorded, the play lamp (page 8) lights.

1. Press **[PLAY]**.
 - “Recorded image list” screen is displayed.
2. Select “Unplayed images” (for new images) or “Played images” (for images that have been played) → **[OK]**.
 - The most recent image set of the selected type is displayed.
3. Browse the image sets and images.
 - The following operations are available.

[▶] Plays back all images in an image set continuously

[◀◀] Browses image sets, from older ones to newer ones

[▶▶] Browses image sets, from newer ones to older ones

[☰] Displays the options menu

[↶] Returns to the previous screen

[||] Pauses continuous playback

[◀||] Plays the previous image in an image set when continuous play is paused

[||▶] Plays the next image in an image set when continuous play is paused

4. When finished, press **[OFF]**.

5. Additional functions

5.1 Function settings

You can change the settings, such as Initial settings, Ringtone settings, and Connected devices settings, to match how your product is used. You can also view information on how to access the Operating Instructions.

- 1 Press **[≡]**.
- 2 Select the desired item → **[OK]**.
 - Repeat this step as necessary to navigate to the desired setting.
- 3 Select the desired setting → **[OK]**.
- 4 Press **[OFF]**.

5.2 Registering devices

5.2.1 Registering sub monitors (main monitor and sub monitors only)

- 1 **Main monitor:**
Press **[≡]** → select “Register/Cancel” → **[OK]**.
- 2 Select “Register” → **[OK]**.
 - When you are prompted to register your main monitor, select “Main monitor” → **[OK]**.
- 3 Select “Sub monitor” → **[OK]**.
- 4 Select the registration number of the sub monitor to be registered → **[OK]**.
 - Complete the following operations within about 2 minutes.
- 5 **Sub monitor:**
 - To register a sub monitor for the first time:
Select **[OK]** → **[Yes]**.
 - To re-register a sub monitor:
Press **[≡]** → select “Register” → **[OK]** → **[Yes]**.
- 6 **Main monitor:**
Press **[OFF]**.

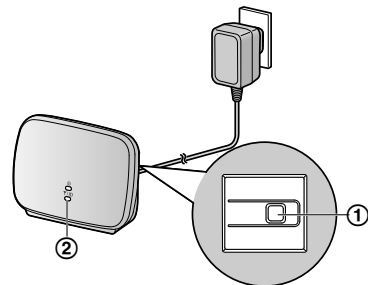
5.2.2 Registering extension monitors

- 1 **Main monitor:**
Press **[≡]** → select “Register/Cancel” → **[OK]**.
- 2 Select “Register” → **[OK]**.
 - When you are prompted to register your main monitor, select “Main monitor” → **[OK]**.
- 3 Select “Extension monitor” → **[OK]**.

- 4 Select the registration number of the extension monitor to be registered → **[OK]**.
- 5 **Extension monitor:**
Press **[≡]** → select “Register/Cancel” → **[OK]**.
- 6 Select “Register” → **[OK]**.
 - When you are prompted to register your extension monitor, select “Extension monitor” → **[OK]** → **[Yes]**.
- 7 Select the registration number of the extension monitor to be registered → **[OK]**.
 - Make sure to select the same registration number that was selected on the main monitor.
 - Registration is complete when the extension monitor restarts.
- 8 **Main monitor:**
Press **[OFF]**.

5.2.3 Registering repeaters

- 1 **Main monitor:**
[≡] → select “Register/Cancel” → **[OK]**.
- 2 Select “Register” → **[OK]**.
 - If you are prompted to register your main monitor, select “Main monitor” → **[OK]**.
- 3 Select “Repeater” → **[OK]**.
- 4 Select the number of the repeater to be registered → **[OK]**.
 - Complete the following operations within about 2 minutes.
- 5 **Repeater:**
Connect power to the repeater that you want to register, and then press PROGRAM (①) for about 3 seconds.
 - The ∇/ID indicator (②) flashes green.



- 6 **Main monitor:**
Press **[OFF]**.

Note:

- When using devices in separate buildings or over long distances, cut outs and image distortions may not be improved even if a repeater is used.

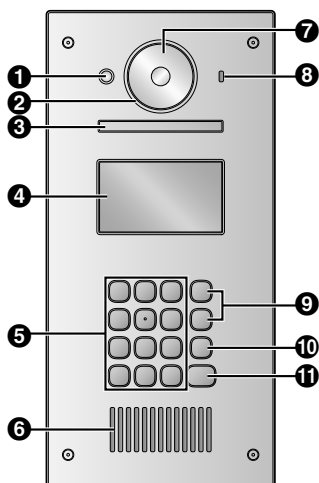
This section explains the basic operations of the VL-V900 lobby station (Video Intercom System for Apartment Complexes) when used with the VL-MWD273 main monitor.

For further information about features and operations, visit our Web site and find the document:

<https://panasonic.net/cns/pcc/support/intercom/v900>

6.1 Controls

6.1.1 Lobby station



- 1 Heat sensor**
Turns on the display when a visitor is detected.
- 2 Lens cover**
- 3 Light**
Illuminates subjects in dark environments.
- 4 Display**
- 5 Keypad**
- 6 Speaker**
- 7 Camera lens**
- 8 Microphone**
- 9 Search buttons (▲ and ▼)**
Used to select items shown on the display.
- 10 Cancel button (X)**
- 11 Call button (△)**

6.2 Lobby station operations

6.2.1 Calling a resident

Entering a room number

1. Enter the resident's room number.
2. Press [△] to call.

Searching by first letter of the name

1. Press [✱].
2. Use the keypad to enter the first letter of the resident's name.
 - Press a key repeatedly to scroll through the letters assigned to that key.
 - Note the hints displayed at the bottom of the screen.
3. Press [▲] or [▼] to search for the desired name.
4. Press [△] to call.

Searching through all names

1. Press [▼].
2. Press [▲] or [▼] to search for the desired name.
3. Press [△] to call.

Switching the image displayed on the main monitor

While talking to the main monitor, press [#] to switch the image displayed on the main monitor from the lobby

station to the camera. To return to the lobby image, press [✱].

6.2.2 Calling a receptionist

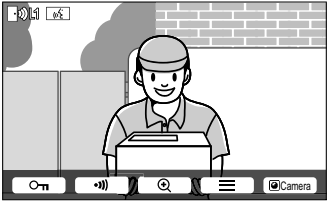
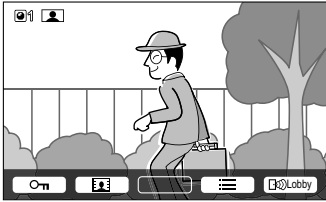




1. Press [▼].
2. Press [▲] or [▼] to search for the receptionist.
3. Press [△] to call.

6.2.3 Opening the door by entering an unlock code




1. Press [#].
2. Enter the 4-digit unlock code.
3. Press [△].

6.3 Main monitor operations with the lobby station

6.3.1 Image viewing screen of the main monitor

Image from lobby station	Image from camera	Status icons
		 Indicates which lobby station is calling, monitoring, or talking. ("1" indicates the device number.)
		 Indicates which camera is monitoring. ("1" indicates the device number.)
		 Indicates that the main monitor is talking.
		 Indicates that the main monitor is monitoring.


6.3.2 Monitoring the outside with the lobby station or camera

- 1 Press **[]**.
 - If there are multiple devices, select the desired device → **[OK]**.
 - If a camera is connected to the lobby station, you can alternate monitoring between the lobby station and camera by pressing **[]Camera** or **[]Lobby**.
- 2 When finished, press **[OFF]**.


Note:

- Depending on the composition of the system, monitoring may not be available.

6.3.3 Opening entrance doors

While talking to a visitor or monitoring with a lobby station or camera, press **[]**.

6.3.4 Calling extension telephones

- 1 Press **[] TALK**.
- 2 Select the desired extension telephone.
 - Up to 4 extension telephones may be displayed.
- 3 Press **[OK]** → **[Yes]**.
- 4 When finished, press **[OFF]**.

6.4 System conditions and limitations

Please note the following system conditions and limitations.

- Only one call or monitoring session can be handled at a time.
Subsequent calls will disconnect the current call (if the current call has lower priority), or will not be connected (if the current call has higher priority).
Low priority: Monitoring
Medium priority: General calls (lobby station to main monitor, main monitor to PBX extension, etc.)
High priority: Emergency calls
- All calls and monitoring sessions are disconnected after the pre-programmed "timeout" time elapses.
- In order to perform the above operations, optional devices and configuration for those devices are required. Contact your building manager for more information.

7.1 Specifications

Main monitor (VL-MWD273)

Power source	Power supply unit (VL-PS240/ VL-PS241): 24 V DC, 0.5 A
Power consumption	Standby: 1.8 W During operation: 11.6 W
Dimensions (mm) (height × width × depth)	Approx. 158×243×29.5 (excluding protruding sections)
Mass (weight)	Approx. 710 g
Operating environment	Ambient temperature: approx. 0 °C to +40 °C Relative humidity (non- condensing): up to 90 %
Display	Approx. 17.8 cm (7.0 inches wide colour display)
Talking method	Hands-free
Installation method	Wall mount (mounting bracket supplied)
Frequency range	1.88 GHz to 1.90 GHz
RF transmission power	250 mW (max.)

Power supply unit (VL-PS240/VL-PS241) (indoor use only)

Power source	Input: 220-240 V AC, 0.2 A, 50/60 Hz Output: 24 V DC, 0.6 A
Dimensions (mm) (height × width × depth)	VL-PS240: Approx. 116×100×54 VL-PS241: Approx. 104×100×54 (excluding protruding sections)
Mass (weight)	VL-PS240: Approx. 230 g VL-PS241: Approx. 215 g
Operating environment	Ambient temperature: approx. 0 °C to +40 °C Relative humidity (non- condensing): up to 90 %
Installation method	Attach to DIN rail

Doorphone (VL-V554)

Power source	Power supplied by the main monitor 20 V DC, 0.23 A
Dimensions (mm) (height × width × depth)	Approx. 169×118×30 (excluding protruding sections)
Mass (weight)	Approx. 405 g

Operating environment	Ambient temperature: approx. -15°C to +55 °C Relative humidity (non- condensing): up to 90 %
Viewing angle	Horizontally: approx. 170° Vertically: approx. 115°
Installation method	Surface mount (mounting base supplied)
Minimum illuminance required	1 lx (within approx. 50 cm from the camera lens)
Lighting method	LED lights
IP rating	IP54 ^{*1}
IK rating	Compliant with IK07

*1 Water resistance is only assured if the doorphone is installed correctly according to the instructions in the Installation Guide, and appropriate water protection measures are taken.

Sub monitor (VL-WD613)

■ Main body

Power source	Rechargeable Ni-MH (AAA × 2)
Dimensions (mm) (height × width × depth)	Approx. 173×52×30 (excluding protruding sections)
Mass (weight)	Approx. 160 g (including the batteries)
Operating environment	Ambient temperature: approx. 0 °C to +40 °C Relative humidity (non- condensing): up to 90 %
Display	Approx. 5.6 cm (2.2 inches, colour display)
Frequency range	1.88 GHz to 1.90 GHz
RF transmission power	250 mW (max.)
Talking method	Hands-free
Operating time^{*1}	Standby use: approx. 80 hours
Charging time^{*2}	Approx. 8 hours
Transmitting range	Approx. 100 m (line-of-sight distance from the main monitor)

*1 When used fully charged in an operating temperature of 20 °C.

*2 When the operating temperature is 20 °C. The charging time may increase when the operating temperature is lower than this.

7. Other information

■ Charger

Power source	AC adaptor (PNLV226) 5.5 V DC, 0.5 A
Power consumption	Standby: 0.5 W (when the sub monitor is not placed in the charger) During charging: 1.6 W
Dimensions (mm) (height x width x depth)	Approx. 43x81x76 (excluding protruding sections)
Mass (weight)	Approx. 70 g (excluding the AC adaptor)
Operating environment	Ambient temperature: approx. 0 °C to +40 °C Relative humidity (non-condensing): up to 90 %

7.2 Cleaning

Wipe the product with a soft, dry cloth.

For excessive dirt, wipe the product with a moist cloth.

Important:

- **Do not use any cleaning products that contain alcohol, polish powder, powder soap, benzine, thinner, wax, petroleum, or boiling water. Also do not spray the product with insecticide, glass cleaner, or hair spray. This may cause a change in colour or quality of the product.**

Cleaning the charger:

For safety, disconnect the charger from the power supply before cleaning.

Cleaning the sub monitor:

To avoid mistakenly operating the sub monitor, remove its batteries before cleaning.

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