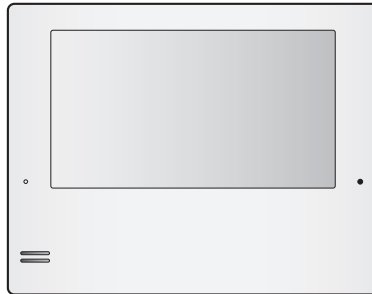
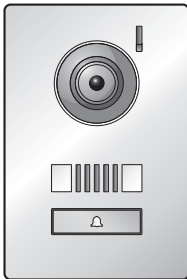


Operating Instructions

Model Name	Model No.
Wireless Video Intercom System	VL-SWD275
Main Monitor Station	VL-MWD275



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.

This system is not designed to provide complete protection from property loss. To the maximum extent permitted by applicable law, Panasonic will not be held responsible for any damage incurred as a result of property loss.

Installation Guide is supplied separately.

1. Introduction

Introduction

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Important information

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Preparation

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Recording and playing

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Using electric locks and PBXs

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Additional functions

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General information

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Troubleshooting

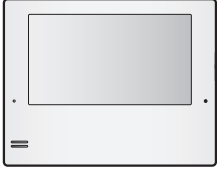


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VL-V901 basic operations

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1.1 Model composition

Model composition	Main Monitor Station* ¹ (Main monitor* ²)	Wireless monitor station (Sub monitor* ²)	Door Station (Doorphone* ²)
			
VL-SWD275	VL-MWD275	VL-WD619	VL-V524
VL-MWD275	VL-MWD275	-	-

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

*2 Product names used in this document.

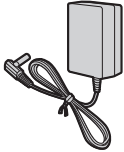


Note:

- Before attempting to connect or operate this product, please read the nameplate on the bottom or rear of the product.

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.
- You will need the following additional items (locally procured) to install the charger on the wall.
 - Screws × 2:
Prepare the screws according to the material, structure, strength and other factors of the mounting area and the total weight of objects to be mounted.

1. Introduction

1.3 Additional/replacement accessories

Please contact your Panasonic dealer for sales information.

As of March, 2020

Accessory item	Order number	Number of devices that can be connected
Rechargeable batteries	HHR-4MVE* ¹ Battery type: – Nickel metal hydride (Ni-MH) – 2 x AAA (R03) size for each handset	-
Door Station (referred to as "doorphone" in this document)	VL-V555 (surface mount)	Max. of 2
	VL-V554 (surface mount)	
	VL-V554U (flush mount)	
	VL-V522L (surface mount)	
	VL-V524 (surface mount)	
Lobby Station* ²	VL-V591	
Video Intercom System for Apartment Complexes	VL-V901 and VL-V700 series	Contact your building manager for more information.
Video Intercom System – Lobby station/Distributor	VL-VM series/VL-VM701	Contact your building manager for more information.
Sub monitor* ³	VL-WD619	Max. of 6
Extension monitor* ³	VL-MWD275	Max. of 3 (not including the main monitor)
Flush mount box (for VL-V524)	VL-MB524	-
DECT repeater (referred to as "repeater" in this document)	VL-FKD2	Max. of 2

*1 Replacement batteries may have a different capacity from that of the supplied batteries.

*2 Contact your building manager for more information.

*3 When sub monitors and extension monitors are used together, a combined maximum of 6 sub monitors and extension monitors can be registered.

Note:

- The specifications differ depending on the models of doorphone and lobby station. The following functions are not available for the VL-V524 (supplied doorphones), VL-V522L, and VL-V591.
 - VL-V591: Monitoring the outside with the doorphone (page 16)
 - VL-V591: Doorphone LED lights' illumination settings (page 23)
 - VL-V591: Doorphone backlight compensation settings (page 23)
 - VL-V524/VL-V522L/VL-V591: Wide/zoom settings and zoom position settings (page 14)

1.3.1 Compatible Panasonic PBXs

This unit can be used with Panasonic PBXs (page 21). Consult your dealer for more information.

Compatible Panasonic PBXs*¹

- KX-TDA30/TDA100/TDA100D/TDA200/TDA600 series
- KX-TDE100/TDE200/TDE600 series
- KX-NS300/NS500/NS700/NS1000 series
- KX-NSX1000/NSX2000 series

*1 As of March, 2020.

1.4 General information

- In the event of problems, you should contact your equipment supplier in the first instance.
- After removing the product and any included items from the packaging, store, dispose, or recycle the packaging as necessary. Note that certain types of packaging may be a suffocation or choking hazard.
- 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-MWD275BX") 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.
- All the functions listed in this document are available for the supplied main monitor. However, the functions available for the doorphone and lobby station differ depending on the model of the doorphone and lobby station. For more information about optional doorphone and lobby station, see "1.3 Additional/replacement accessories" on page 4.
- Design and specifications are subject to change without notice.
- The illustrations in the supplied document(s) 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-V901 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-V901 lobby station, such as in apartment complexes. Operations for Apartment mode are described in 12 VL-V901 basic operations (Page 38) of this document as well as the Supplemental Information. The Supplemental Information can be accessed from the following Web site.

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

For Europe

Declaration of Conformity:

- Panasonic Corporation declares that the radio equipment type (VL-MWD275BX/VL-MWD275CX/ VL-MWD275CX1) is in compliance with Directive 2014/53/EU.

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

<https://www.ptc.panasonic.eu/compliance-documents>

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.

"ErP Free Web Product Information" is available at the following URL:

<https://www.ptc.panasonic.eu/compliance-documents>

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.

Note:

- For more information about the energy efficiency of the product, please visit our website, www.panasonic.com, and enter the model number in the search box.

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. Caution: risk caused by visible radiation 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

1.5 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.

1.6 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 or loss of life or property, and to ensure proper and safe operation of your product, read this section carefully before using the 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, AC cable, and power plug with wet hands.
- Do not touch the power supply unit, AC adaptor, AC cable, and power plug 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 place objects on the power cables and the AC adaptor. Install the product where no one can step or trip on the power cables and the AC adaptor.
- Do not allow the power cables and the AC adaptor to be excessively pulled, bent or placed under heavy objects.
- 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, 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, AC cable plug, and power 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, AC cable plug, and power 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.
- 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, AC cable plug, and power plug when unplugging them. Unplugging the AC adaptor, AC cable plug, and power 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.
- 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 batteries noted on page 4. 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.

2. Important information

- 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 (\oplus , \ominus) 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.
- Avoid the use in the following conditions
 - High or low extreme temperatures during use, storage or transportation.
 - Replacement of a battery with an incorrect type.
 - Disposal of a battery into fire or a hot oven, or mechanically crushing or cutting of a battery, that can result in an explosion.
 - Extremely high temperature and/or extremely low air pressure that can result in an explosion or the leakage of flammable liquid or gas.
- 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 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.

2.2 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 cable, 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.

2.4 Other important information

- The AC adaptor, AC cable plug, and power 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.
- Please observe the legal regulations (data protection, video surveillance) in your country during use.

Personal information

The main monitor's/extension monitor's internal memory records personal information (image 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

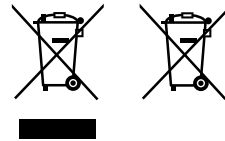
- This product can store your private/confidential information.

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

All the recorded images and settings 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" (page 27).
Sub monitor: perform "Initialize" (page 28).

Information on Disposal in other Countries outside the European Union



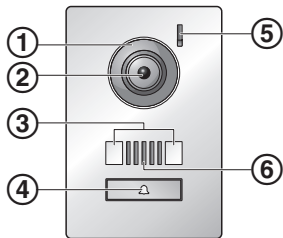
These symbols are only valid in the European Union. If you wish to discard these items, please contact your local authorities or dealer and ask for the correct method of disposal.

Others

- 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



① Lens cover

② Camera lens

③ LED lights

Used to illuminate the visitor's face or the area in front of the doorphone so that the visitor's face can be seen in the dark.

④ Call button and indicator

Lights when the power is on for the connected main monitor.

⑤ Microphone

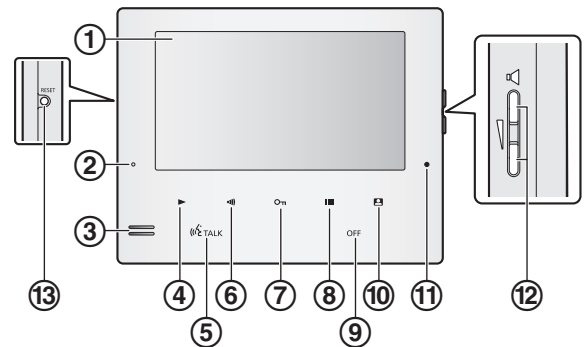
⑥ Speaker

Doorphone image quality

The quality of doorphone images may change depending on the installation environment, settings, lighting conditions, the time of day, etc.

See page 34 for more information.

3.1.2 Main monitor/extension monitor



① Display (page 12)

② Play lamp (blue)

Lights when there is an unplayed image. The indicator turns off when the unplayed image is displayed.

③ Speaker

④ Play button (▶)

Press to display the image playing screen when the main monitor is idle.

It can also be used as a soft key (page 11).

⑤ TALK button (TALK)

⑥ Page button (⏪)

Press to page extension monitors when the main monitor is idle or transfer calls.

It can also be used as a soft key (page 11).

⑦ Unlock button (🔓)

⑧ Menu button (☰)

Press to display the setting screen when the main monitor is idle.

It can also be used as a soft key (page 11).

⑨ OFF button (OFF)

⑩ Monitor button (👁)

Press to monitor the outside when the main monitor is idle.

It can also be used as a soft key (page 11).

⑪ Microphone

⑫ Volume button (🔊)

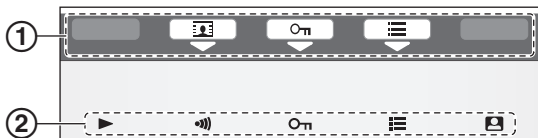
Press to adjust the ring volume when the main monitor is idle or when there is an incoming call.

Press to adjust the receiver volume while talking or monitoring (page 11).

⑬ 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

Indicate the item that will be selected when you press the soft key directly under each icon. The icons that are displayed vary depending on current screen and operation.

② Soft keys

Select the items displayed on the screen directly above each soft key.

Volume button

The following volumes can be adjusted by pressing $\left[\nabla \right]$ on the right side of the main monitor.

- **Ring volume:** To adjust the volume, press the button repeatedly to select the desired setting when the main monitor is idle or when there is an incoming call.*1

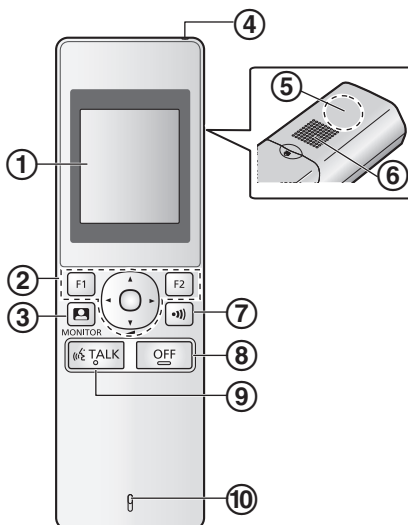
*1 To mute the sound, press and hold $\left[\nabla \right]$ until "X" is displayed. To active the sound again, press $\left[\nabla \right]$.

- **Receiver volume:** To adjust the volume, press $\left[\nabla \right]$ repeatedly to select the desired setting while monitoring or on a call.

Note:

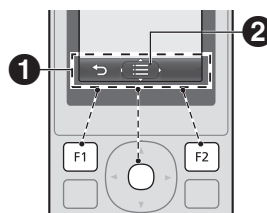
- The ring volume cannot be adjusted while there is an incoming intercom call.
- You can also change the ring volume by using the function settings list (see page 25).
- You can also change the receiver volume by pressing $\left[\text{Menu} \right]$ while monitoring or on a call (see page 23).

3.1.3 Sub monitor



① Display (page 12)

② Multifunction buttons



① Soft key icons

Displays the functions that can be operated by $\left[F1 \right]$, $\left[\text{Navigation} \right]$, and $\left[F2 \right]$.

② $\left[\text{Menu} \right]$

is displayed in screens such as the information screen (page 12). The arrows displayed in $\left[\text{Navigation} \right]$ indicate the direction that the button can be used in.

- In the information screen, the volume can be changed by pressing $\left[\text{Navigation} \right]$ up or down.

③ Monitor button ($\left[\text{Monitor} \right]$)

④ Charge indicator (page 13)

⑤ Antenna (built-in)

- Do not cover the antenna when using the sub monitor. (This may weaken radio waves.)

⑥ Speaker

⑦ Page button ($\left[\text{Page} \right]$)

⑧ OFF button ($\left[\text{OFF} \right]$)

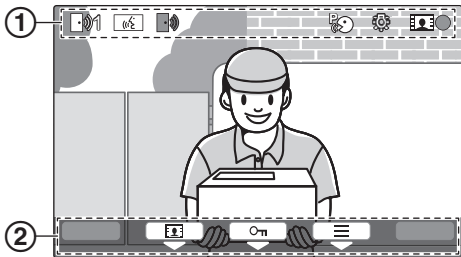
⑨ TALK button ($\left[\text{TALK} \right]$)

⑩ Microphone

3.2 Using the display

3.2.1 Main monitor - display information

Image viewing screen



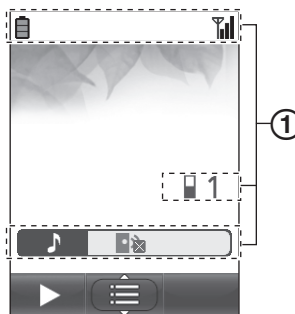
- ① Status icons (page 12)
- ② Soft key icons (page 11)

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 (page 22).
- 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 (page 18).
- Indicates that the doorphone's LED lights are on (page 23).
- Indicates that "Press-to-talk" mode is on (page 16).

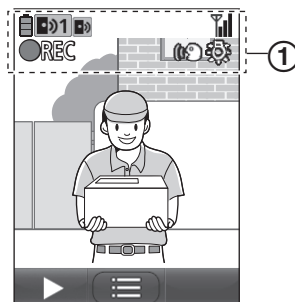
3.2.2 Sub monitor - monitor display

Information screen



- ① Status icons (page 12)
The information screen is displayed when the sub monitor is taken off the charger, or [F1], [F2], , or [OFF] are pressed when the screen is off.



Image viewing screen



- ① Status icons (page 12)

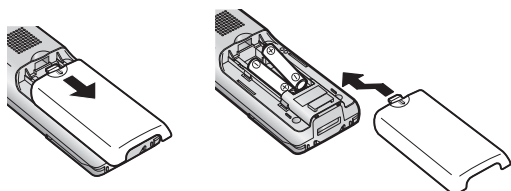
Status icons (sub monitor)

- Battery level (page 13).
- 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 (page 22).
- Indicates that images are being recorded (page 18).

-  Indicates that "Press-to-talk" mode is on (page 16).
-  Indicates that the doorphone's LED lights are on (page 23).

3.3 Battery installation

- USE ONLY rechargeable Ni-MH batteries AAA (R03) size.
- Do NOT use Alkaline/Manganese/Ni-Cd batteries.
- Confirm correct polarities (⊕, ⊖).



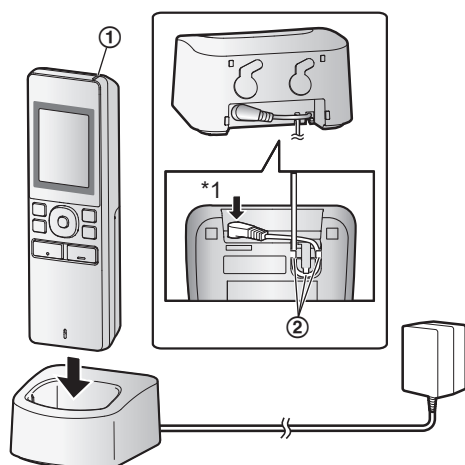
Note:

- Use the supplied rechargeable batteries (Ni-MH ONLY). For replacement, we recommend using the Panasonic rechargeable batteries noted on page 4.
- Wipe the ends of batteries (⊕, ⊖) with a dry cloth.
- Avoid touching the ends of batteries (⊕, ⊖) or the unit contacts.

3.4 Charging the sub monitor


Only connect the charger with the supplied Panasonic AC adaptor (page 3).

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
- Charging may take longer in the following situations.
 - When the operating temperature is low (page 33).
 - When the sub monitor is picked up off the charger or used during charging.
 - When the sub monitor's signal is out of range () (page 12).
- The sub monitor does not overcharge even if it is continuously placed in the charger.

Battery level

Icon	Battery level
	High
	Medium
	Low
	Needs charging

- See page 33 for a guide on operating times for the sub monitor.

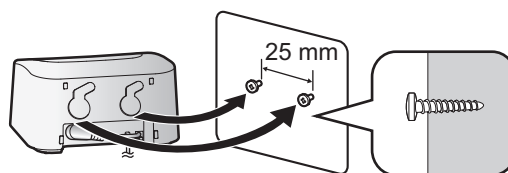
Note:

- 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.
 - Recharge the batteries before using the sub monitor again.

3.5 Wall mounting

Note:










- Make sure that the wall and the fixing method are strong enough to support the weight of the unit.
- Drive the screws (locally procured) into the wall.







3. Preparation

3.6 Setting the language, date and time

When you use the main monitor for the first time, you will be prompted to set the display language, date, and time settings.

- The play lamp lights if these settings are not configured.
- 1 Press the  button to turn on the display.
 - 2 Press the soft keys under the  and  soft key icons 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 .
- A beep sounds and the display turns off.

Changing the language, date and time

You change the language, date, and time settings later if desired. Press the  button, use the , , and  soft keys to navigate to “Initial settings”.

Note:

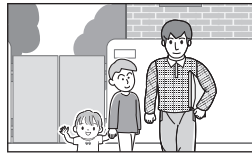
- The date and time settings may be deleted when there is a power outage. In this case, reconfigure the settings.
- The time may become out of sync over time (about 60 seconds per month).

3.7 Wide/zoom settings and zoom position settings

These functions are not available for the supplied doorphone (VL-V524). You can use these functions with optional doorphones (page 4).

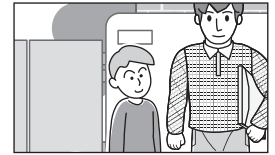
You can configure how doorphone images are initially displayed on the main monitor. Images can be displayed in wide mode or in zoom mode. You can choose different settings for when visitors call you, and for when you are monitoring.

Wide mode (default setting)



Images are not zoomed. The full camera image is displayed.

Zoom mode









Images are zoomed. Images are displayed 2 times larger than wide display.

Note:

- The zoom feature uses a digital zoom. As a result, the image quality of zoomed images is lower than wide display images.
- You can switch between wide and zoom modes and adjust the zoom position while monitoring or on a call. See page 23.

Selecting wide or zoom






1. Press  → select “Initial settings” → .
2. Select “Wide/zoom settings” → 
 - If there are multiple doorphones, select the doorphone to be configured → .
3. Select the desired setting → 
 - “When visitors come”: Your settings will be used when you answer calls from visitors.
 - “When monitoring”: Your settings will be used when you are monitoring.
4. Select the desired display mode → 
 - A beep sounds and the settings are changed.
5. When finished, press [OFF].

Note:

- If you select “zoom”, adjust the zoom position so that people or objects that you want to view are displayed centrally in the screen.
- When images are recorded in zoom mode, only the zoomed area is recorded.

Selecting the zoom position (pan/tilt position)

You can select which area of the image is displayed when displaying zoomed images.

1. Press  → select “Initial settings” → .
2. Select “Zoom position settings” → 
 - If there are multiple doorphones, select the doorphone to be configured → .
 - A zoomed image from the doorphone is displayed.
3. Select the desired zoom position → 
 - A beep sounds, the settings are changed, and the display turns off.

4. When finished, press [OFF].

Note:

- If you do not perform any operations for 90 seconds while changing this setting, the setting is cancelled and the screen turns off.

4. Talking and monitoring

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].

Note:

- The display will turn off if you do not answer a call within about 30 seconds.
- The displayed images are automatically recorded to the main monitor (page 18).

Features available during incoming calls

- Monitoring feature (page 16)

Features available while talking

- Adjusting wide/zoom and pan/tilt settings (page 23)*¹
- Turn on or off the operation guide (page 23)
- Adjusting sound and display settings (page 23)
- Using "press-to-talk" (page 16)
- Transferring calls to other devices (page 16)

*1 These functions are not available for the supplied doorphone (VL-V524). You can use these functions with optional doorphones (page 4).

Voice change (main monitor and extension monitor only)

During incoming calls, press [CHANGE] to answer the call using voice change.

- The feature makes the voice heard at the doorphone sound deeper.
- For information about how to disable voice change, see page 23.

Press-to-talk mode

If it is difficult for you and the visitor to hear each other due to noise, the "press-to-talk" mode can make conversations easier to hear.

1. While talking, activate press-to-talk mode by pressing and holding [TALK] for about 2 seconds.

- A beep sounds and (or for the sub monitor) is displayed.

2. **To speak to the visitor**

Speak while pressing and holding [TALK].

- is displayed in yellow.

- To listen to the visitor**

Release [TALK].

- is displayed in white.

Note:

- Press-to-talk mode is cancelled when the call ends.

4.2 Transferring doorphone calls

You can transfer a doorphone call between the main monitor, sub monitor, and extension monitor.

To transfer a call

1. While talking with the visitor at the doorphone, press [].
2. If there are multiple devices, select the device to transfer the call to → [].
 - To page all devices, select "Call all together" → [].
3. Page the other party.
4. When the paged party answers, ask them to receive the call from the doorphone → [OFF].
 - To cancel transferring the call and talk to the visitor again, press [TALK].

To receive a call

1. When the intercom call is received, press [TALK] to talk to the paging party.
2. When the image from the doorphone is displayed, talk to the visitor.
3. When finished, press [OFF].

Note:

- The visitor cannot hear voices during paging.
- When using the sub monitor to transfer calls or receive transferred calls, extension monitors are displayed as sub monitors in the list of available devices and for the device name of incoming calls. For example, "Extension monitor 1" is displayed as "Sub monitor 1".

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 [].
 - If there are multiple doorphones, select the desired doorphone → [].
 - 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].

Note:

- The sound from your end will not be heard at the doorphone.
- You can monitor for up to about 3 minutes.

Features available while monitoring

- Recording doorphone images (page 18)
- Adjusting wide/zoom and pan/tilt settings (page 23)*¹
- Turn on or off the operation guide (page 23)
- Adjusting sound and display settings (page 23)

*¹ These functions are not available for the supplied doorphone (VL-V524). You can use these functions with optional doorphones (page 4).

4.4 Talking with other devices

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

To make a call

1. Press **[•)]**.
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]**.

Note:

- Paging automatically ends after about 30 seconds and intercom calls automatically end after about 90 seconds.
- When using the sub monitor to make or receive intercom calls, extension monitors are displayed as sub monitors in the list of available devices and for the device name of incoming calls. For example, “**Extension monitor 1**” is displayed as “**Sub monitor 1**”.

5. Recording and playing

5.1 Recording doorphone images

The main monitor and extension monitor can record doorphone images (still images). They can save images from up to 50 doorphone calls or monitoring sessions. Each time new images are recorded, they are saved in an image set of up to 4 images.

Note:

- Sub monitors can manually record images while monitoring (page 18).

5.1.1 Recording automatically (recording a received call; main monitor and extension monitor only)

When a visitor calls you, the main monitor and extension monitor record 4 images automatically (whether you answer the call or not). Recording starts about 2 seconds after you receive the call.

When you do not answer a call

The recorded images are saved as unplayed images, and the play lamp lights.

When there are multiple doorphones






- When you are talking or monitoring and there is an incoming call from another doorphone, images from the incoming call will not be displayed and recorded. In order to display and record incoming calls, you must end the current call or stop monitoring.
- If there is an incoming call from another doorphone while receiving an incoming call, the number of recorded images from the 1st caller (4 images) are reduced.

When the memory is full (auto image updating)

When the memory is full, new images overwrite the oldest images automatically. This occurs even if the oldest images are unplayed images.

5.1.2 Recording manually (recording while monitoring)



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






- **Main monitor/extension monitor:**
While monitoring, press . Up to 4 images will be recorded.
 -  is displayed on the screen when recording.
- **Sub monitor:**
While monitoring, press  → select “Record” → . Up to 4 images will be recorded.
 -  is displayed on the screen when recording.

5.2 Playing recorded images (main monitor and extension monitor)

When there are new (i.e., unplayed) images recorded, the play lamp (page 10) lights.

Note:

- Images manually recorded by the main monitor and extension monitor can only be played by the device that recorded the images.
- 1 Press .
 - “Recorded image list” screen is displayed.
 - 2 Select “Unplayed images” (for new images) or “Played images” (for images that have been played) → .
 - The most recent image set of the selected type is displayed.
 - 3 Browse the image sets and images.
 - The following operations are available when browsing images.
 - See page 19 for a list of all available operations.

-  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

- 4 When finished, press .

Note:

- The play lamp turns off when the unplayed image is displayed.

5.2.1 Image playing screen



Main monitor image playing screen











- ① Device number
- ② Image position within a image set
- ③ Image set number

- ④ Recording date and time
- ⑤ Indicates that the image has not been played.


Status icons

-  Indicates the number of the doorphone that recorded the image.
-  Indicates that the image is protected (i.e., cannot be deleted)



Available soft keys

-  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

5.2.2 Options available when playing images



While playing images, you can press  to display the options menu and change the following settings.

To turn off the operation guide



 → select “Guide off” → .

- While the guide is turned off, the soft keys do not operate their respective features. Press any soft key to display the guide again briefly. During this time, the soft keys can be operated as normal.

To turn on the operation guide




Press any soft key to display the guide →  → select “Guide on” → .

To turn protection on and off

 → select “Protect” (to turn protection on) or “Remove protection” (to turn protection off) → .


- When “Protect” is selected, the image cannot be deleted.
- A maximum of 20 image sets can be protected.

To delete the current image

 → select “Delete” →  → .

- You can use “Delete all images” to delete all images in one operation. See page 27.


To adjust the screen brightness

 → select “Brightness” → adjust the brightness.


5. Recording and playing

5.3 Playing recorded images (sub monitor)

You can view recorded images stored in the main monitor using the sub monitor.
When there are new (i.e., unplayed) images recorded, “**New unplayed images**” is displayed.

1 Press .






- “**Unplayed**” and “**Played**” screen is displayed.

2 Select “**Unplayed**” (for new images) or “**Played**” (for images that have been played) → .

- The most recent image set of the selected type is displayed.

3 Browse the image sets and images.

- The following operations are available when browsing images.

-  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

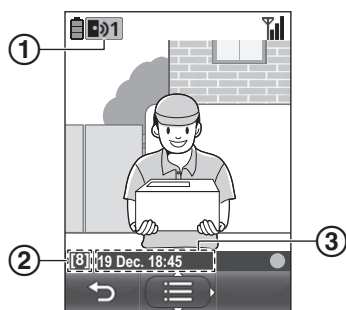
4 When finished, press [OFF].

Note:

- The “**New unplayed images**” message is removed from the screen when the unplayed image is displayed.


5.3.1 Image playing screen

Main monitor image playing screen



- ① Device number
- ② Image set number
- ③ Recording date and time


Status icons

-  Indicates the number of the doorphone that recorded the image.





Indicates that the image is protected (i.e., cannot be deleted)

5.3.2 Options available when playing images




While playing images, you can press  to display the options menu and change the following settings.

To turn protection on and off


 → select “**Protected**” (to turn protection on) or “**Remove protection**” (to turn protection off) → .

- When “**Protected**” is selected, the image cannot be deleted.
- A maximum of 20 image sets can be protected.

To delete the current image

 → select “**Delete**” →  → .

To adjust the screen brightness








 → select “**Brightness**” → adjust the brightness.

6.1 Using electric locks

When a commercially available electric lock is connected to the main monitor, you can unlock a door or gate using the main monitor. You can also select the length of time control signals are sent for to unlock the door or gate. (How long the door or gate remains unlocked depends on each electric lock's specification.)

- A maximum of 2 electric locks can be connected to the main monitor. When you use an additional doorphone, the maximum number of the electric locks that can be connected to the doorphone depends on the type of doorphone. Consult your dealer for further information.
- For detailed information about connections, see the operating instructions included with the electric lock and the Installation Guide of this product.

6.1.1 Configuring electric locks

- 1 Press .
- 2 Select "Connected devices" → .
- 3 Select "Electric lock" → .
- 4 Select the doorphone ("Doorphone 1" or "Doorphone 2") that you want to assign the electric lock to → .
- 5 Select the type of the electric lock → .
- 6 Select the device that the electric lock is connected to → .
- 7 Select the unlocking time → .
- 8 When finished, press [OFF].

Electric lock settings

Options listed below are available.




"Unlocking buzzer sound":

Determines whether the doorphone sounds a buzzer when the electric lock is unlocked. See page 26.

"View extension after unlocking":

Determines whether to extend the displaying time of the doorphone image when the electric lock is unlocked. See page 26.

6.1.2 Unlocking electric locks

- 1 Press  during an incoming call, or while talking or monitoring.
 - If there are 2 electric locks available, select the electric lock to be unlocked →  → press  to unlock another electric lock.


Note:

- You can only unlock the door or gate during an incoming call, or when talking or monitoring.


- When using multiple electric locks with different doorphones, you can only operate the locks from the doorphone that they are connected to.

6.2 Doorbells

A doorbell may be connected to your main monitor. In this case, the main monitor and extension monitor will ring when someone presses the doorbell button. When a doorbell is connected to your main monitor, configure the main monitor as follows.

Press  → "Connected devices" →

"Doorphone connection" → "Doorphone 2" →

"Use door bell" → . When a beep sounds, press [OFF].

Note:

- Connect a doorbell to the IN3 and IN4 terminals. (The doorbell will not operate if connected to other terminals.)



6.3 Panasonic PBX integration

Connecting the main monitor to a PBX allows you to use PBX extensions to answer doorphone calls.

Please use only a Panasonic PBX (page 4).

- For detailed information about connections, see the operating instructions included with the PBX and the Installation Guide of this product.

Note:

- If you answer a doorphone call with a PBX extension, the doorphone camera image will be displayed on the main monitor, and  is displayed to indicate that a PBX extension is on the call.
- While  is displayed, you cannot answer calls using the main monitor.
- The display will turn off when the call between the doorphone and the PBX extension ends, or after 3 minutes.
- If you answer a doorphone call with the main monitor, the call will continue to ring at the extension for about 15 to 30 seconds. After you answer the call, the extension user cannot answer the call or join the call, even if the extension is ringing.

When using two doorphones (excluding an optional VL-V591 lobby station; page 4)

From the PBX extension, you can only call the doorphone that you last received call from or talked with.

7. Incoming call operations

7.1 When another incoming call is received

When another incoming call is received while talking, monitoring, or receiving an incoming call, the ringtone sounds and notifications are received in the following manner for the main monitor, extension monitor, and sub monitor.

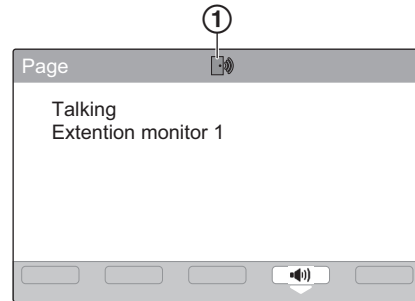
Main monitor example:

When there is an incoming call from doorphone 2 while talking with doorphone 1.



Main monitor example:

When there is an incoming call from a doorphone during an intercom call.



① Incoming call's icon

Receive an incoming call when	Next action
Main monitor/extension monitor: Already receiving an incoming call from a doorphone	The display changes to the new incoming call, and the previous incoming call is terminated.
Sub monitor: Already receiving an incoming call from a doorphone	The display changes to the new incoming call, the previous incoming call is terminated, and then the ringtone sounds and 【TALK】 flashes. To answer the incoming call: <ul style="list-style-type: none"> ● Press 【TALK】. To monitor the incoming call: <ul style="list-style-type: none"> ● Press 【PERSON】.
<ul style="list-style-type: none"> ● Talking or monitoring with a doorphone ● Talking on an intercom call 	The ringtone sounds and the incoming call's icon is displayed (①). To answer the incoming call: <ul style="list-style-type: none"> ● Press 【OFF】. <ul style="list-style-type: none"> – The original call or monitoring is terminated and the displayed image is changed. – Press 【TALK】 to talk with the visitor at the doorphone.
Transferring a doorphone call	The ringtone sounds and the incoming call's icon is displayed (①). To answer the incoming call: <ul style="list-style-type: none"> ● Press 【OFF】. <ul style="list-style-type: none"> – Transferring is terminated, and then the original call's image is displayed and you can talk to the original caller. – Press 【OFF】 again to display the new incoming call's image. – Press 【TALK】 to talk with the visitor at the doorphone.

8.1 Zooming in and out (wide/ zoom, pan/tilt; main monitor and extension monitor only)

These functions are not available for the supplied doorphone (VL-V524). You can use these functions with optional doorphones (page 4).

When on a call or monitoring, you can display images in wide mode or in zoom mode. During zoom mode, you can change the zoom position (also called "pan/tilt").





To switch from wide mode to zoom mode

Press .

To switch from zoom mode to wide mode

Press .


To change the zoom position in zoom mode

 → "Pan/tilt" →  → press  or .

Note:



- See page 14 for examples of wide mode and zoom mode.
- The zoom feature uses a digital zoom. As a result, the image quality of zoomed images is lower than wide display images.
- When images are recorded in zoom mode, only the zoomed area is recorded.
- If you adjust these settings, the settings will be cancelled the next time you display an image. To change how doorphone images are initially displayed on the main monitor, see page 14.

8.2 Sound and display settings for calls and monitoring


While monitoring or on a call, you can press  to display the options menu and change sound and display settings.

To adjust the incoming call volume^{*1, *2}

• Main monitor/extension monitor:

 → "Sound" →  → "Receiver volume" → adjust the volume.

• Sub monitor:



 → "Volume" → adjust the volume.

To adjust the volume heard at the doorphone^{*1} (main monitor and extension monitor only)



 → "Sound" →  → "Owner's voice volume" → select the desired setting.

To use the voice changer^{*3} (makes the voice heard at the doorphone sound deeper)

• Main monitor/extension monitor:


 → "Sound" →  → "Voice changer" → select the desired setting.

• Sub monitor:




 → "Voice changer" → .

To turn off the operation guide (main monitor and extension monitor only)

 → "Guide off" → .



- While the guide is turned off, the soft keys do not operate their respective features. Press a soft key other than  to display the guide again briefly. During this time, the soft keys can be operated as normal.

To turn on the operation guide (main monitor and extension monitor only)



Press a soft key other than  to display the guide →  → "Guide on" → .

To adjust the screen brightness

• Main monitor/extension monitor:



 → "Display" →  → "Brightness" → select the desired setting.

• Sub monitor:



 → "Brightness" →  → select the desired setting.

To adjust backlight compensation

• Main monitor/extension monitor:



 → "Display" →  → "Backlight compensation" → select the desired setting.

• Sub monitor:

 → "Backlight" →  → select the desired setting.



To turn the LED lights on or off

• Main monitor/extension monitor:

 → "Display" →  → "Illumination" → select the desired setting.


-  is displayed when the LED lights are on.


• Sub monitor:

 → "Illumination" →  → select the desired setting.

-  is displayed when the LED lights are on.

*1 These settings cannot be changed during an incoming call.

*2 The volume can also be adjusted by pressing  on the right side of the main monitor (see page 11).

*3 The main monitor and extension monitor can use the voice changer by pressing  during incoming calls.

8. Additional functions

8.3 Ringtone settings






Main monitor/extension monitor:

You can change the ringtone type and volume that is heard during an incoming call.

- For information about how to configure settings, see page 25.


Sub monitor:

See page 28 for information about changing the ringtone type. Perform the following procedure to adjust the ringtone volume.

1. When the information screen is displayed, press  → select the item to change the volume for → .
2. Press  to adjust the volume.
 - To mute the volume, press and hold  until  is displayed. (The paging volume cannot be turned off.)
 - To activate the sound again, press .

8.4 Main monitor/extension monitor - function settings list

You can change the settings to match how the main monitor or extension monitor is used.

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

Note:

- If you do not perform any operations for 90 seconds while changing these settings, or if an incoming call is received, the setting is cancelled and the screen turns off.
- In the following table, default settings are indicated by < >.
- While changing settings, “●” is displayed to the left of the currently selected item.

Item name: “Information display”

Sub-menu	Settings
1	
Status of connected devices ^{*1}	–

^{*1} This item is not displayed for the extension monitor; only its contents are displayed.

Item name: “Initial settings”

Sub-menu			Settings	
1	2	3		
Time and date settings ^{*2}	–	–	2020-1-1 0:00	
Zoom position settings ^{*1, *3}	Doorphone 1 – 2	–	–	For details see page 23.
Wide/Zoom settings ^{*1, *3}	Doorphone 1 – 2	When visitors come/When monitoring	Zoom, <Wide>	

Sub-menu			Settings
1	2	3	
Power supply frequency ^{*1}	–	–	<50 Hz>, 60 Hz – To prevent mottled or uneven colour from being displayed, choose the appropriate power supply frequency for your area.
Adjust image quality ^{*4}	Doorphone 1 ^{*5}	Colour (red)	– Adjusts the colouring of images from the doorphone or lobby station. 5 levels can be selected for each colour (default setting: level 3).
	Doorphone 2 ^{*5}	Colour (blue)	
Select language ^{*2}	–	–	<English>, العربية

*1 These functions are not available for the extension monitor.

*2 When using the product for the first time, follow the on-screen instructions to configure this setting (page 14).

*3 These functions are not available for the supplied doorphone (VL-V524). You can use these functions with optional doorphones (page 4).

*4 Images from the lobby station are not displayed while adjusting the image quality.

After adjusting the image quality, perform operations such as monitoring to check the actual image display.

In regards to extension monitors, images from both doorphones and lobby stations are not displayed.

*5 When the lobby station is connected, “Lobby station” and “Doorphone” are displayed.

Item name: “Ringtone”

Sub-menu		Settings	
1	2		
Ring volume ^{*1}	Doorphone	Extra loud, <Loud>, Normal, Quiet, Mute	
	Page	Extra loud, <Loud>, Normal, Quiet	
Ringtone	Doorphone 1	<Sound 1>, Sound 2, Sound 3	<Normal>, Repeat
	Doorphone 2	Sound 1, <Sound 2>, Sound 3	<Normal>, Repeat

*1 The volume can also be adjusted by pressing [V] on the right side of the main monitor.

Item name: “Connected devices”^{*1}

Sub-menu				Settings
1	2	3	4	
Doorphone connection ^{*2}	Doorphone 1	–	–	<Device connected>, Auto detection, Device not connected
	Doorphone 2	–	–	Device connected, <Auto detection>, Device not connected, Use door bell

8. Additional functions

Sub-menu				Settings	
1	2	3	4		
Electric lock	Doorphone 1 - 2	Electric door lock/ Electric vehicle gate lock	Connect to the electric lock 1/ Connect to the electric lock 2/ Connect to the doorphone/ <No connection>	<Unlock for 1 second> - Unlock for 7 seconds	
	Unlocking buzzer sound	-	-	<On>, Off	For details see page 21.
	View extension after unlocking ^{*5}	-	-	Enable, <Disable>	
Automatic illumination ^{*3}	Doorphone 1 - 2	When visitors come/When monitoring	-	<Enable>, Disable	
Lobby connection ^{*4, *5}	-	-	-	Device connected, <Device not connected>	

*1 These functions are not available for the extension monitor.

*2 Select "Device not connected" for doorphones that are no longer used.

*3 With this setting, you can select whether or not to automatically turn on the LED lights when the area surrounding the doorphone is dark.

*4 Only used for the VL-V591 lobby station.

*5 These functions are not available for Apartment mode.

Item name: "Register/Cancel"

Sub-menu				Settings	
1	2	3	4		
Register	Main monitor	Sub monitor ^{*1}	-	Sub monitor 1 - Sub monitor 6	
		Extension monitor	-	Extension monitor 1 - Extension monitor 6	
		Repeater ^{*1}	Repeater 1 - 2	Connect separately, Connect together	
	Extension monitor	Yes	Extension monitor 1 - Extension monitor 6	-	
		No	-	-	

Sub-menu				Settings
1	2	3	4	
Cancel	Sub monitor ^{*1} / Extension monitor, Repeater ^{*1}	–	–	–

*1 These functions are not available for the extension monitor.

Item name: "Other"

Sub-menu		Settings
1	2	
Touch sound	–	<On>, Off
Play lamp	–	<Enable>, Disable
Delete all images	Delete all images/Delete Non-protected images	Yes, No
Initialize settings	Default setting ^{*1} /Factory setting ^{*3} – Select "Factory setting" when disposing, transferring, or returning the product.	Yes, No
Demo mode ^{*2, *3}	–	On, <Off>

*1 The following settings are not initialized.

- "Power supply frequency", "Select language", and "Electric lock" settings.
- Registration information of devices registered to the main monitor. (All devices remain registered to the main monitor even after initialization.)

*2 These functions are not available for the extension monitor.




*3 These functions are not available for Apartment mode.

Item name: "Operating instructions"

Sub-menu	Settings
1	
Operating instructions	Displays the Web site for downloading the Operating Instructions.


8.5 Sub monitor - function settings list

You can change the settings to match how the sub monitor is used.

- 1 From the information screen press .
- 2 Select the desired item → .
 - Repeat this step as necessary to navigate to the desired setting.
- 3 Select the desired setting → .
- 4 Press [OFF].

Note:

- If you do not perform any operations for 60 seconds while changing these settings, or if an incoming call is received, the setting is cancelled and the screen turns off.
- In the following table, default settings are indicated by < >.

Sub-menu		Settings	
1	2		
Ringtone	Doorphone 1	<Sound 1>, Sound 2, Sound 3, Sound 4	<Normal>, Repeat
	Doorphone 2	Sound 1, <Sound 2>, Sound 3, Sound 4	<Normal>, Repeat
Key sound	–	<On>, Off	
Contrast	–	The contrast can be adjusted to 5 different levels (default setting: level 3) by pressing  . When it is difficult to see the monitor display, adjust the contrast as necessary.	
Register	–	Yes, No	
Initialize	–	Yes, No <ul style="list-style-type: none"> • The sub monitor remains registered to the main monitor even if its settings are initialized. (The registration information is not deleted.) 	

9.1 Registering sub monitors and extension monitors

Extension monitors and additional sub monitors can be registered to the main monitor.

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

- 1 Main monitor:**
Press [≡] → select "Register/Cancel" → .
- 2 Select "Register" → .**
 - When you are prompted to register your main monitor, select "Main monitor" → .
- 3 Select "Sub monitor" → .**
- 4 Select the registration number of the sub monitor to be registered → .**
 - Complete the following operations within about 2 minutes.
- 5 Sub monitor:**
 - To register a sub monitor for the first time:
When "Please register the device." is displayed on the screen, select → .
– "Registering completed" is displayed.
 - To re-register a sub monitor:
Press [≡] → select "Register" → → .
– "Registering completed" is displayed.
- 6 Main monitor:**
Press [OFF].


9.1.2 Registering extension monitors

- 1 Main monitor:**
Press [≡] → select "Register/Cancel" → .
- 2 Select "Register" → .**
 - When you are prompted to register your main monitor, select "Main monitor" → .
- 3 Select "Extension monitor" → .**
- 4 Select the registration number of the extension monitor to be registered → .**
- 5 Extension monitor:**
Press [≡] → select "Register/Cancel" → .
- 6 Select "Register" → .**
 - When you are prompted to register your extension monitor, select "Extension monitor" → → .

- 7** Select the registration number of the extension monitor to be registered → .
 - 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].

9.2 Using repeaters

If the sub monitor is used away from the main monitor, or if there are obstructions (page 8) between the sub monitor and the main monitor, the following problems may occur. In these cases, using a repeater (additional accessory; page 4) may improve transmissions between the devices.

- calls with the sub monitor cut out and images are distorted
- when  is displayed in the sub monitor and the main monitor cannot connect to the sub monitor

Note:

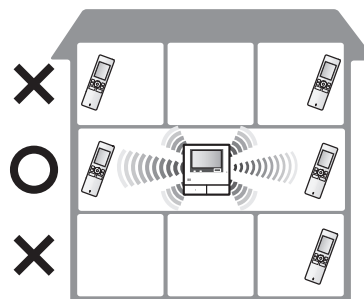
- A maximum of 2 repeaters can be used. A single repeater can be used to send signals to multiple sub monitors.
- Signal range differs depending on factors such as the structure of rooms or the types of walls used. After registering devices to the main monitor (page 30), see the repeater's Getting Started for information about appropriate installation locations.

Signal range and repeater installation example

Using each repeater connected separately ("Connect separately" setting page 26)

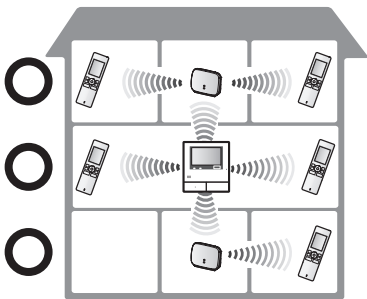
This extends signals away from the main monitor. This is useful when you want to extend the range around the main monitor and connect to sub monitors over shorter distances.

When repeaters are not used:



9. Expanding the system

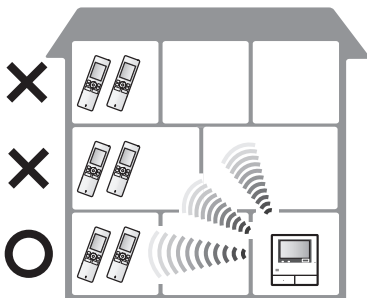
When repeaters are used:



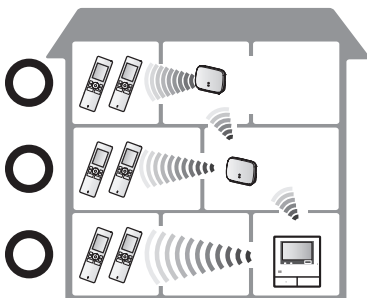
Using 2 repeaters connected together (“Connect together” setting page 26)

This extends the signal away from the main monitor by sending signals directly between repeaters. This is useful when you want to connect to sub monitors over long distances.

When repeaters are not used:



When repeaters are used:



9.2.1 Registering repeaters

1 Main monitor:

[] → select “Register/Cancel” → .

2 Select “Register” → .

- If you are prompted to register your main monitor, select “Main monitor” → .

3 Select “Repeater” → .

4 Select the number of the repeater to be registered → .

- **When registering a repeater for the first time:**
Go to step 5.

When registering a repeater for the second time:

Select the connection method according to how you want to use the repeater (page 29) →

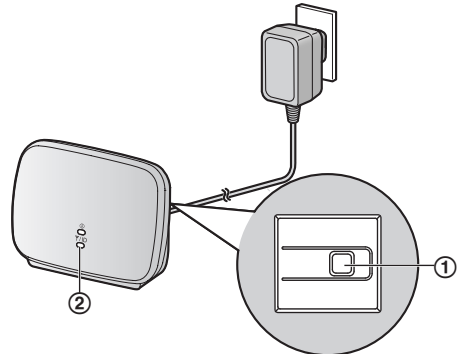
.

- Complete the following operations within about 2 minutes.

5 Repeater:

Connect power to the repeater that you want to register, and then press PROGRAM () for about 3 seconds.

- The ∇ /ID indicator () flashes green.



- The indicator lights when the registration is completed. (Depending on the signal status, the indicator may not light in green. In this case, see the repeater’s Getting Started.)

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.

9.3 Cancelling devices (main monitor/extension monitor)

1 [] → select “Register/Cancel” → .

2 Select “Cancel” → .

3 Select the type of device to cancel*1 → .

4 Select the device to cancel*1 → *1 → .

- A beep sounds and “Cancel completed” is displayed.

*1 Not displayed when using as an extension monitor.

Important:

- **To prevent incorrect operations, remove the batteries from cancelled sub monitors.**

Note:

- When you want to change an extension monitor’s registration number or re-register an extension

monitor, first use the extension monitor to cancel itself, and then re-register it again as an extension monitor. (Extension monitors become main monitors again when they are cancelled.)

10. General information

10.1 Cleaning

Wipe the product with a soft, dry cloth.

For excessive dirt, wipe the product with a cloth slightly dampened with fresh water.

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, hair spray or wall paint. 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.

10.2 Specifications

Main monitor (VL-MWD275)

Power source	<ul style="list-style-type: none">● VL-MWD275BX/CX/ML: 220-240 V AC, 50/60 Hz● VL-MWD275AZ: Power supply unit (VL-PS241) 24 V DC, 0.5 A
Power consumption	<ul style="list-style-type: none">● VL-MWD275BX/CX/ML: Standby: 2.3 W During operation: 11.3 W Measurement conditions:<ul style="list-style-type: none">– VL-V524 (1 pc.) and VL-WD619 (1 pc.) are connected to VL-MWD275.● VL-MWD275AZ: Standby: 1.9 W During operation: 12.7 W Measurement conditions:<ul style="list-style-type: none">– VL-V524 (1 pc.) and VL-WD619 (1 pc.) are connected to VL-MWD275.
Dimensions (mm) (height × width × depth)	Approx. 158×201×25.5 (excluding protruding sections)
Mass (weight)	<ul style="list-style-type: none">● VL-MWD275BX: Approx. xxx g● VL-MWD275CX/ML: Approx. xxx g● VL-MWD275AZ: Approx. xxx 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-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)	Approx. 104×100×54 (excluding protruding sections)
Mass (weight)	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-V524)

Power source	Power supplied by the main monitor
Dimensions (mm) (height × width × depth)	Approx. 152×102×35.5 (excluding protruding sections)
Mass (weight)	Approx. 225 g
Operating environment	Ambient temperature: approx. -15°C to +55 °C Relative humidity (non-condensing): up to 90 %
Viewing angle	Horizontally: approx. 85° Vertically: approx. 54°
Installation method	Surface mount (mounting base supplied) Flush mount (flush mount box sold separately)
Minimum illuminance required	1 lx (within approx. 50 cm from the camera lens)
Lighting method	LED lights
IP rating	IP44*1

*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-WD619)

■ 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.

■ Charger

Power source	AC adaptor (PNLV226) 5.5 V DC, 0.5 A
Power consumption	Standby: 0.5 W (when the sub monitor with full-charged batteries is placed on the charger) During charging: 1.6 W
Dimensions (mm) (height × width × depth)	Approx. 43×81×76 (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 %

11.1 Troubleshooting

Monitor display (doorphone images)

Problem	Cause & Solution	Page
Images appear distorted.	<ul style="list-style-type: none"> ● Images may appear distorted because of the characteristics of the camera lens. This is not a malfunction. 	–
The image of the subject is displayed in black and white (or bluish-purple).	<ul style="list-style-type: none"> ● At night or when there is poor light in the area around the doorphone, the image of the subject may be displayed in black and white (or bluish-purple). <ul style="list-style-type: none"> – When using a doorphone equipped with LED lights The doorphone's LED lights may be turned off. Turn on the LED lights when it is dark. – When using a doorphone not equipped with LED lights We recommend installing extra lights in the area around the doorphone. 	23 26
The background appears greenish.	<ul style="list-style-type: none"> ● At night or when there is poor light in the area around the doorphone, lights or white objects near the doorphone may appear greenish. This is not a malfunction. 	–
Images at night are dark and faces cannot be identified.	<ul style="list-style-type: none"> ● “Automatic illumination” is set to “Disable”. → Change the setting to “Enable”. ● Even when the doorphone's LED lights are lit, because the light from the LED lights cannot illuminate the edges of the visible area (the areas directly next to the doorphone), faces of people may not be identifiable even when they are close to the doorphone. → We recommend installing extra lights in the area around the doorphone. 	26 –
The images of people's faces are dark.	<ul style="list-style-type: none"> ● Images of people's faces appear dark when there is strong sunlight or a backlight in the area around the doorphone. → Use the backlight compensation function. 	23
Images are dirty or unclear. ● Images are not in focus.	<ul style="list-style-type: none"> ● There is dirt on the surface of the doorphone's lens. → Wipe the lens with a soft, dry cloth. ● There is water condensation on the surface of the doorphone's lens. → Wait for the condensation to evaporate. 	32 –
Images are white or black.	<ul style="list-style-type: none"> ● The brightness of the display is not correctly adjusted. → Adjust the brightness when images are displayed. 	19
Images are white, or white lines or circles are shown on the display.	<ul style="list-style-type: none"> ● Strong light such as sunlight is shining into the lens of the doorphone causing images to be difficult to see on the display. (This is not a malfunction.) → Locating the doorphone away from direct sunlight or changing the angle that the doorphone is installed may help reduce this problem. 	–
There is a small black dot in the background.	<ul style="list-style-type: none"> ● If the sun can be seen, its centre appears as a black dot. This is not a malfunction. 	–
Images are flickering.	<ul style="list-style-type: none"> ● AC (alternating current) lights such as fluorescent lights are used near the doorphone. → AC (alternating current) lights such as fluorescent lights may cause flickering in dark environments. (This is not a malfunction.) 	–
Images of the area you want to view in the zoom screen are not displayed correctly.*1	<ul style="list-style-type: none"> ● Change the zoom position setting to a suitable position. → Configure the “Zoom position settings” settings. 	14




Problem	Cause & Solution	Page
Images displayed on the sub monitor distort or are displayed slowly. (It takes 5 seconds or more to be displayed.)	<ul style="list-style-type: none"> ● The top part of the sub monitor (where the antenna is located) is being covered with your hand. → Do not cover it. ● The sub monitor is too far from the main monitor, or there is an object such as a concrete wall obstructing the signal. → Move the sub monitor closer to the main monitor or to an area that does not have any obstructions. 	11 8

*1 The wide/zoom setting is not available for the supplied doorphone (VL-V524).

Ringtone





Problem	Cause & Solution	Page
The ringtone for the doorphone does not sound.	<ul style="list-style-type: none"> ● The ringtone volume is muted. → Activate the sound for the ringtone. ● The sub monitor's batteries are discharged. → Charge the batteries. 	25

Calls

Problem	Cause & Solution	Page
Sound cuts in/out or fades.	<ul style="list-style-type: none"> ● The area surrounding the main monitor, extension monitor, sub monitor, or doorphone are noisy, causing the sound to cut out or fade. → Try using the "Press-to-talk" mode. 	16
	<ul style="list-style-type: none"> ● When talking with the sub monitor: The top part of the sub monitor (where the antenna is located) on the sub monitor is being covered with your hand. → Do not cover it. 	11
	<ul style="list-style-type: none"> ● When talking with the sub monitor: The sub monitor is too far from the main monitor, or there is an object such as a concrete wall obstructing the signal. → Move the sub monitor closer to the main monitor or to an area that does not have any obstructions. If the sub monitor cannot be moved to another area, installing a repeater (additional accessory) may improve the signal. 	8 29
Calls cannot be heard because of noise or feedback.	<ul style="list-style-type: none"> ● Noise or feedback may occur when you are too close to the other party. → Move away from the other party. 	-
Your voice cannot be heard by the visitor but the visitor's voice can be heard.	<ul style="list-style-type: none"> ● You are using the "Press-to-talk" mode. ( is displayed on the main monitor/extension monitor and  is displayed on the sub monitor.) → When using the "Press-to-talk" mode, the visitor can hear your voice only while you are pressing [ TALK]. 	16

11. Troubleshooting

Sub monitor (charging)

Problem	Cause & Solution	Page
 flashes and 2 short beeps sound.	<ul style="list-style-type: none"> The battery level is very low. → Charge the batteries immediately. 	13
Even if you place the sub monitor on the charger, the charge indicator does not light up.	<ul style="list-style-type: none"> The AC adaptor is disconnected from the power outlet. → Plug the AC adaptor into the power outlet firmly. The sub monitor is not placed on the charger correctly. → Replace the sub monitor securely. (The charge indicator lights in red.) The batteries are new or discharged. → Place the sub monitor on the charger and wait for a few minutes. 	
The charge indicator does not go off after the batteries have been charged for about 8 hours.	<ul style="list-style-type: none"> If the sub monitor is picked up off the charger or used during charging, the charging time will become longer. The charging time may increase when the operating temperature is lower than 20 °C. The charging time increases when the power of the main monitor is turned off or  is displayed on the sub monitor. → Make sure the power of the main monitor is turned on, and charge the sub monitor in a location near the main monitor where  is displayed for the sub monitor's signal display. 	- - 8 13
 flashes after only using the sub monitor 2 or 3 times after charging.	<ul style="list-style-type: none"> Clean the ends of batteries (+ and -) with a dry cloth and charge again. It is time to replace the batteries. 	13
The sub monitor, the AC adaptor, or the charger is warm.	<ul style="list-style-type: none"> This is normal. (It may feel a little warmer in summer than in winter.) → If it feels very hot, disconnect the AC adaptor from the power outlet and contact an authorised service centre. 	-

Others

Problem	Cause & Solution	Page
<ul style="list-style-type: none"> "Demo mode" is displayed on the screen. The ringtone regularly sounds. You cannot talk or make calls. 	<ul style="list-style-type: none"> The "Demo mode" feature is enabled. → Set "Demo mode" to "Off". 	27
The product does not work with correct operations. The product does not work properly.	<p>Perform the following operations.</p> <ul style="list-style-type: none"> Main monitor/extension monitor: → Press the [RESET] button on the bottom side of the main monitor with a pointed object. (Recorded images and configured settings are not affected.) Sub monitor: → Remove the battery and insert it again. (Recorded images and configured settings are not affected.) 	10
The main monitor does not work properly. <ul style="list-style-type: none"> Nothing is displayed on the monitor. The ringtone does not sound. Voices cannot be heard. 	<ul style="list-style-type: none"> Check the power connection. If the power is connected, there may be a problem with the electrical wiring. → Contact an authorised service centre. 	-

11.2 Error messages - main monitor

The following error messages can be viewed by pressing [☰] → select “Information display” → “Status of connected devices”.

Display	Cause & Solution	Page
“Cannot be used.”	<ul style="list-style-type: none"> • The wiring between the main monitor and extension monitor is not connected. → Check the wiring connections. • The registration number used for the extension monitor is different on the main monitor and extension monitor. → Use the same registration number on the main monitor and extension monitor. • 2 extension monitors are using the same registration number. → Cancel 1 of the extension monitors so that it becomes a main monitor again and then re-register it with a different registration number. • Power is not connected to the extension monitor. → Connect power to the extension monitor. 	29 30
“Not registered.”	<ul style="list-style-type: none"> • The sub monitor or extension monitor has not been registered on the main monitor. 	29

11.3 Error messages - extension monitor

Display	Cause & Solution	Page
“Cannot connect to the main monitor. Please check the connection”	<ul style="list-style-type: none"> • The wiring between the main monitor and extension monitor is not connected. → Check the wiring connections. • The extension monitor has not been registered on the main monitor. → Register the extension monitor on the main monitor. • The registration number used for the extension monitor is different on the main monitor and extension monitor. → Use the same registration number on the main monitor and extension monitor. 	29

11.4 Error messages - sub monitor

Display	Cause & Solution	Page
“Cannot connect to main monitor station”	<ul style="list-style-type: none"> • The sub monitor is too far from the main monitor, or there is an object such as a concrete wall obstructing the signal. → Move the sub monitor closer to the main monitor or to an area that does not have any obstructions. 	8
“Registration failed”	<ul style="list-style-type: none"> • Registration to the main monitor has not been completed. Bring the sub monitor closer to the main monitor and try registering again. 	-

12. VL-V901 basic operations

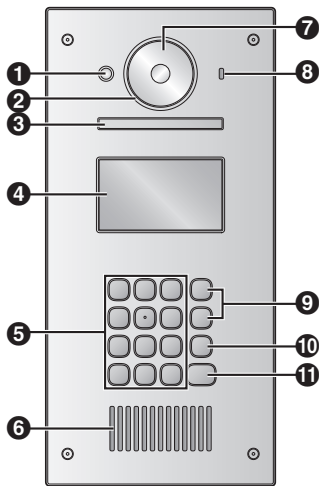
This section explains the basic operations of the VL-V901 lobby station (Video Intercom System for Apartment Complexes) when used with the VL-MWD275 main monitor.

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

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

12.1 Controls

12.1.1 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 (📞)**

12.2 Lobby station operations

12.2.1 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 [*].

12.2.2 Calling a receptionist

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

12.2.3 Opening the door by entering an unlock code

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

12.3 Main monitor operations with the lobby station

12.3.1 Image viewing screen of the main monitor



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.

12.3.2 Monitoring the outside with the lobby station or camera

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

Note:

- Depending on the composition of the system that the VL-V901 lobby station is connected to, monitoring may not be available.

12.3.3 Opening entrance doors

You can open the entrance door during an incoming call, or while talking to a visitor or monitoring with a lobby station or camera.

To open the entrance door during an incoming call, or while talking or monitoring, press .

12. VL-V901 basic operations

12.3.4 Calling extension telephones

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

12.3.5 Door bells

A door bell may be connected to your main monitor. In this case, the main monitor will ring when the door bell button is pressed.

12.4 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.

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