

Operating Instructions

Model Name	Model No.
Wireless Video Intercom System	VL-SW274
Main Monitor Station	VL-MW274



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 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.

Installation Guide is supplied separately.

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Introduction

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Incoming call operations

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VL-V900 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-SW274	VL-MW274	VL-W617	VL-V522L
VL-MW274	VL-MW274	-	-

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

*2 Product names used in this document.

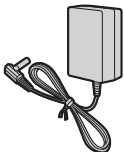
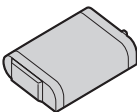

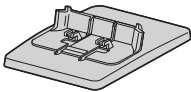
Caution:

- 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	Battery	Charger	Charger stand	
Quantity	1	1	1	1

Note:

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

1. Introduction

1.3 Additional/replacement accessories

Please contact your Panasonic dealer for sales information.

As of October, 2017

Accessory item	Order number	Number of devices that can be connected
Rechargeable battery (for the sub monitor)	HHR-P103 Battery type: – Nickel metal hydride (Ni-MH)	-
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)	
Lobby Station*1	VL-V591	
Video Intercom System for Apartment Complexes*1	VL-V900 and VL-V700 series	Contact your building manager for more information.
Sub monitor*2	VL-W617	Max. of 6
Extension monitor*2	VL-MW274	Max. of 3 (not including the main monitor)
Repeater	VL-FAN2	Max. of 2

*1 Contact your building manager for more information.

*2 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-V522L (supplied doorphone) and VL-V591.
 - VL-V591: Monitoring the outside with the doorphone (page 17)
 - VL-V591: Doorphone LED lights' illumination settings (page 22)
 - VL-V591: Doorphone backlight compensation settings (page 22)
 - 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 20). 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 October, 2017.

1.4 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-SW274BX") 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-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 12 VL-V900 basic operations (Page 35) 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>














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

1.5 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  to select "Brightness". <p>Sub monitor example</p> <p>【MENU】 → "BRIGHTNESS" →  (OK) → select the desired setting.</p> <ul style="list-style-type: none">• Meaning: Press the 【MENU】 button, use the navigator key to select "BRIGHTNESS" on the display, and then press the navigator key  (OK).

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 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 AC adaptor.
- Do not attempt to disassemble or modify this product. Contact an authorised service centre for repairs.
- Never touch the AC adaptor and power plug with wet hands.
- Do not touch the AC adaptor 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 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, 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 power plug into the power outlets. Failure to do so may cause electric shock and/or excessive heat resulting in a fire. Do not use damaged AC adaptor, power plug, or power outlets.
- Regularly remove any dust, etc., from the AC adaptor 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 and power plug when unplugging them. Unplugging the AC adaptor 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 2.4 GHz and 2.48 GHz with a peak transmission power of 100 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.

Sub monitor batteries

Preventing leakage, heat generation, rupture, or accidents

- Use only the battery(ies) specified.
- 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.

2. Important information

- 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 cable, AC adaptor, 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 2.4 GHz and 2.48 GHz with a peak transmission power of 100 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.)
- If you use the sub monitor near a microwave oven which is being used, noise may be heard. Move away from the microwave oven and closer to the main monitor.
- Coverage and voice quality depends on the local environmental conditions.

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 is 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 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

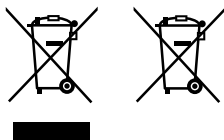
- Before submitting the main monitor/extension monitor and sub monitor for repair, initialize them. This will delete all information saved in the main monitor/extension monitor and sub monitor.*¹
- Even if the product is sent for repairs without being initialized, the memory (including recorded data 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*¹

*¹ Main monitor/extension monitor: perform "Factory Setting" in "Initialize settings" (page 25).

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.)

2.5 For India only

Declaration of Conformity with the requirements of the E-Waste (Management) Rules

The Product is in conformity with the requirements of the reduction of hazardous substances of the E-Waste Rules.

The content of hazardous substance with the exemption of the applications listed in SCHEDULE II of the E-Waste Rules:

1. Lead (Pb) – not over 0.1% by weight;
2. Cadmium (Cd) – not over 0.01% by weight;
3. Mercury (Hg) – not over 0.1% by weight;
4. Hexavalent chromium (Cr6+) – not over 0.1% by weight;
5. Polybrominated biphenyls (PBBs) – not over 0.1% by weight;
6. Polybrominated diphenyl ethers (PBDEs) – not over 0.1% by weight.

Disposal information



For the purpose of recycling to facilitate effective utilization of resources, please return this product to a nearby authorized collection centre, registered dismantler or recycler, or Panasonic service centre when disposing of this product.

Please see the Panasonic website for further information on collection centres, etc., or call the toll-free number below.

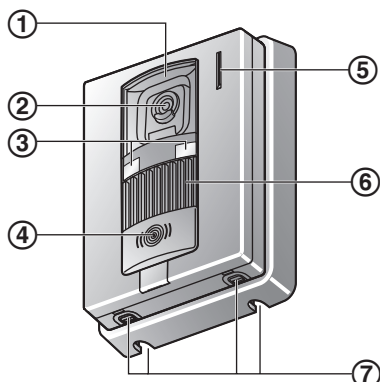
Website:

<http://www.panasonic.com/in/corporate/sustainability/panasonic-india-i-recycle-program.html>

Service helpline: 1800 103 1333 or 1800 108 1333

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 (red)

Lights in red when the power is on.

⑤ Microphone

⑥ Speaker

⑦ Water drain holes

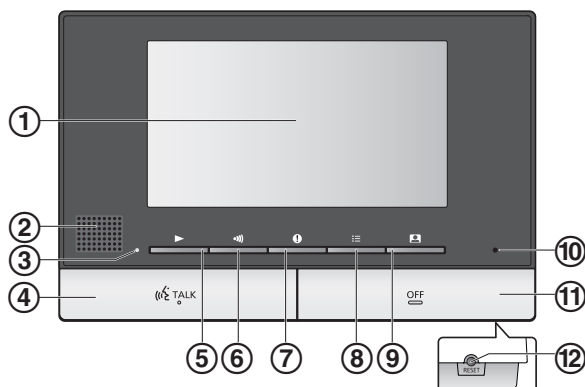
These holes allow rain water to drain. Do not cover them.

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 31 for more information.

3.1.2 Main monitor/extension monitor



① Display (page 12)

② Speaker

③ Play lamp (blue)

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

④ TALK button ([TALK])

⑤ 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).

⑥ Page button ([⏮])

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

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

⑦ Information button ([!])

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

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

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 Monitor button ([📺])

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

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

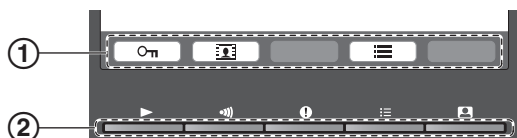
⑩ Microphone

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



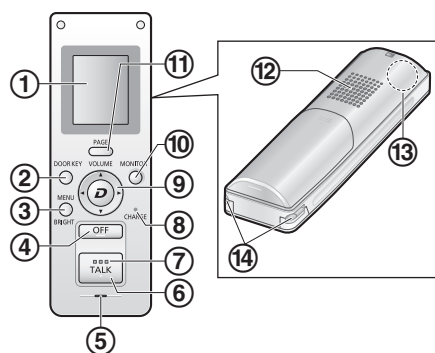
① Soft key icons

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.

3.1.3 Sub monitor



① Display (page 12)

② 【DOOR KEY】 button

- Allows you to open the door when connecting the Electric lock (sold separately) to the main monitor. (page 20)

③ 【MENU/BRIGHT】 button

- Press to change the function settings. (page 25)
- Press to adjust the brightness of displayed images. (page 22)

④ OFF button (【OFF】)

- Press to end an operation.
- Press during standby to turn on the monitor display.

⑤ Microphone

⑥ TALK button (【TALK】)

- Press to answer a call and/or speak to a visitor (page 16).

⑦ TALK indicator

- Flashes while the doorphone or the main monitor is calling. Lights up solid while talking.

⑧ CHARGE indicator

- Lights up while charging. Turns off when charging is complete. (page 14)

⑨ Navigator key

(It is also used for operating the features shown on the display: page 13)



- Adjusts the volume. (page 22)



- Press to scroll the displayed image slightly to the right or left. (page 22)



- Records an image. (page 18)

⑩ Monitor button (【MONITOR】)

- Press to monitor the sound and image taken by the doorphone (page 17).

⑪ PAGE button (【PAGE】)

- Press to page the main monitor or another sub monitor (page 16, 17).

⑫ Speaker

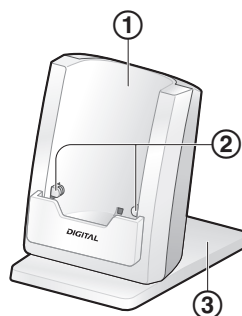
⑬ Antenna (built-in)

Do not cover the antenna with your hand when using the sub monitor. (Radio waves may weaken.)

⑭ Charge contacts (Metallic parts)

■ Charger

- To assemble the charger stand, see page 13.



① Charger

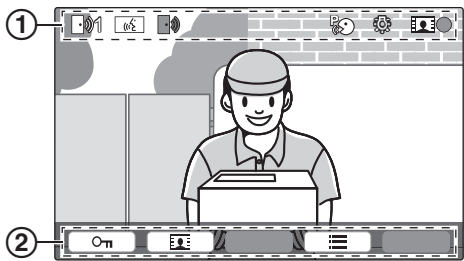
② Charge contacts (Metallic parts)

③ Charger stand

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 21).
- 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 22).
- Indicates that "Press-to-talk" mode is on (page 16).

Information screen

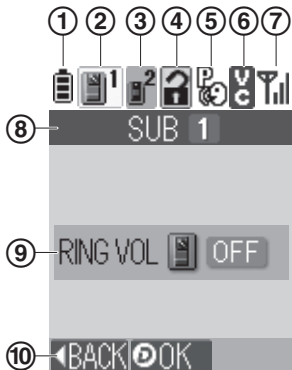
The information screen can be displayed by pressing **[F1]** when the main monitor is idle. The information screen is used to display information such as the current status of the main monitor.

3.2.2 Sub monitor - monitor display

Image viewing screen

The following display is an example for description purposes, and it may differ from the actual display.

- The monitor display is turned off during standby. When you press **[OFF]**, the information display appears.



- ① Indicates the battery level

	Estimated operating time after charging the battery for 7 hours. (When surrounding temperature is 20 °C) <ul style="list-style-type: none">• Continuous operating time: Approx. 2.5 hours• Standby time: Approx. 200 hours (When the sub monitor is off the charger and is not in use after the battery is fully charged.)<ul style="list-style-type: none">– While "OUT OF RANGE" is displayed (page 13), the standby time is shortened.
	Recharge the battery immediately. <ul style="list-style-type: none">• While in use: 2 beeps sound every 4 seconds and a call is disconnected within about 60 seconds.• During standby: "RECHARGE BATTERY" is displayed. (The battery needs to be recharged.)

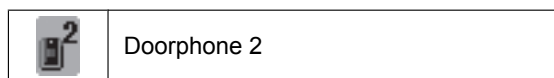
- ② Indicates which doorphone calling, monitoring, or in a call. Also indicates which doorphone took the image while viewing it.

Example:

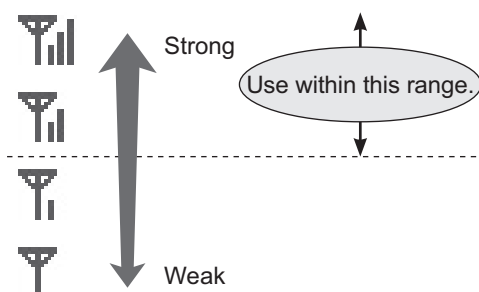
	Doorphone 1
--	-------------

- ③ Indicates which doorphone is calling while talking or monitoring.

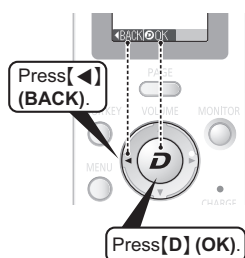
Example:



- ④ Indicates that the door is opened when the Electric lock (sold separately) is connected to the main monitor. (page 20)
- ⑤ Indicates that the "Press-to-talk" mode is on. (page 16)
- ⑥ Indicates the voice changer mode is on. (page 22)
- ⑦ Indicates the level of the reception.



- When the sub monitor is out of range of the main monitor, flashes and "OUT OF RANGE" is displayed. (Move closer to the main monitor.)
- ⑧ Indicates the registration number of the sub monitor.
- ⑨ Indicates that the ringer volume for the doorphone is set to "OFF".
- ⑩ Indicates the operation of the navigation key.
(The display varies depending on the operation.)
Example: menu setting



3.3 Charging the sub monitor

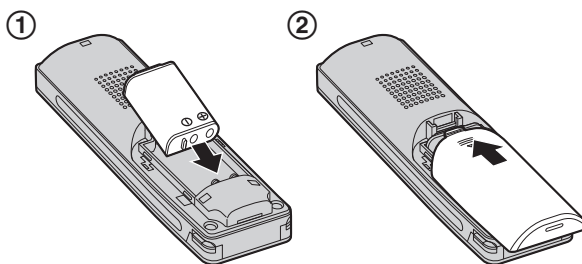
Only connect the charger with the supplied Panasonic AC adaptor (page 3).

- 1 Insert the battery.

- ① Remove the battery cover, align the terminals and insert.

- ② Close the battery cover.

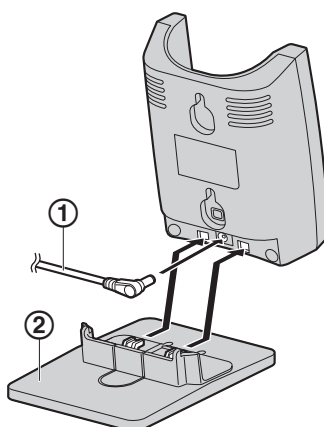
- The battery level is displayed as .



- 2 Assemble the charger stand.

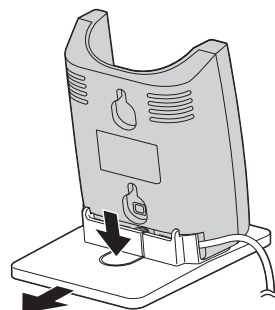
■ To assemble the charger stand

- ① Plug the connector of the AC adaptor into the jack on the charger.
- You can pull out the AC adaptor cord to the left or right side.
- ② Attach the charger stand.



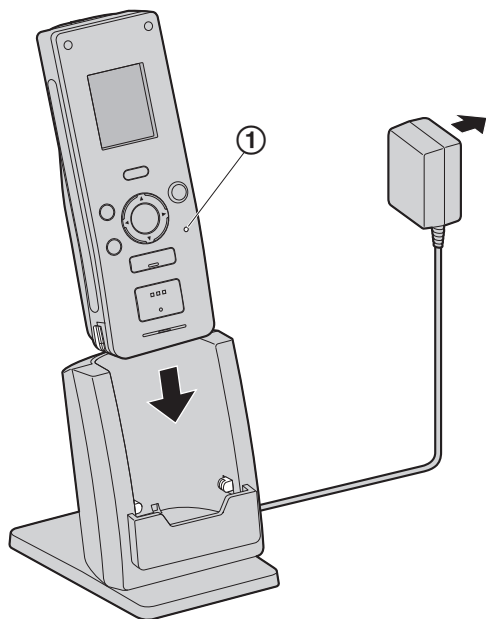
■ To remove the charger stand

Pressing the tab, pull the charger stand to detach.



3. Preparation

- 3 Plug the AC adaptor into the power outlet, place the sub monitor on the charger, and charge the battery.



While charging: The CHARGE indicator (①) lights up.

When charging is complete: The CHARGE indicator (①) turns off.

- At the first time of charging or after battery replacement, it takes about 7 hours to complete charging.
- If you use the sub monitor while charging, the charging time becomes longer.
- Locate the charger where "OUT OF RANGE" is not displayed on the sub monitor.
(The charging time becomes longer where the sub monitor is out of range of the main monitor.)
- Even after the sub monitor is fully charged, the sub monitor can be left on the charger without any ill effect on the batteries.

Important:

- **Use only the included AC adaptor.**
- **When the sub monitor is off the charger or the AC adaptor is disconnected for 1 week or more, remove the battery in order to maintain the battery performance and prevent the battery from discharging.**
- **Recharge the battery before using the sub monitor again.**

3.4 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 , 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).

3.5 Wide/zoom settings and zoom position settings

These functions are not available for the supplied doorphone (VL-V522L). 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)



Zoom mode



Wide mode (default setting)	Zoom mode
Images are not zoomed. The full camera image is displayed.	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 22.

Selecting wide or zoom

1. Press **[≡]** → select “Initial settings” → **OK**.
2. Select “Wide/Zoom settings” → **OK**.
 - If there are multiple doorphones, select the doorphone to be configured → **OK**.
3. Select the desired setting → **OK**.
 - “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 → **OK**.
 - 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” → **OK**.
2. Select “Zoom position settings” → **OK**.
 - If there are multiple doorphones, select the doorphone to be configured → **OK**.
 - A zoomed image from the doorphone is displayed.
3. Select the desired zoom position → **OK**.
 - A beep sounds, the settings are changed, and the display turns 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 17)


Features available while talking

- Adjusting wide/zoom and pan/tilt settings (page 22)*1
- Turn on or off the operation guide (page 22)
- Adjusting sound and display settings (page 22)
- Using "press-to-talk" (page 16)
- Transferring calls to other devices (page 16)

*1 These functions are not available for the supplied doorphone (VL-V522L). You can use these functions with optional doorphones (page 4).

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  is displayed.
2. **To speak to the visitor**
Speak while pressing and holding **[TALK]**.
- To listen to the visitor**
Release **[TALK]**.

Note:

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

Voice answer mode (Answering a call by voice sensor; sub monitor only)

This mode allows you to answer a call by voice without pressing **[TALK]** on the sub monitor.

Voice answer must be set "ON" beforehand (page 26).

1. When a ringer tone is heard, answer with a clear voice such as "Yes?" or "Hello?".
 - When a beep sounds, you can talk to the visitor.




Note:

- Make sure you are within about 50 cm of the sub monitor.
- The visitor cannot hear your initial reply when you answer with voice.
- Your initial reply should be brief (less than 1 second), otherwise the voice answer mode will not start.
- If a visitor calls you, a loud, brief sound (such as a dog's bark) may start the voice answer mode even though you have not replied by voice.
- When you locate the sub monitor near the main monitor, the voice answer mode may be started by a ringer tone.
- The voice answer mode is also available for paging calls.

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 **[. (**[PAGE]** for the sub monitor.)**
2. If there are multiple devices, select the device to transfer the call to → **[OK]**. ( (OK) for the sub monitor.)
 - To page all devices, select "Call all together" → **[OK]**. ("**ALL**" →  (OK) for the sub monitor.)
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 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 . ([MONITOR] for the sub monitor.)
 - If there are multiple doorphones, select the desired doorphone → . ( (OK) for the sub monitor.)
 - 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 22)*¹
- Turn on or off the operation guide (page 22)
- Adjusting sound and display settings (page 22)
- Scrolling an image right or left on the sub monitor (page 22)

*¹ These functions are not available for the supplied doorphone (VL-V522L). 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 . ([PAGE] for the sub monitor.)
2. If there are multiple devices, select the device to page → . ( (OK) for the sub monitor.)
 - To page all devices, select “Call all together” → . (“ALL” →  (OK) for the sub monitor.)
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 1”.

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 8 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 8 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 (8 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 8 images will be recorded.

-  is displayed on the screen when recording.

• Sub monitor:

While monitoring, press  (REC). Up to 8 images will be recorded.


- “RECORDING” is displayed on the screen when recording.






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

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

Note:

- Sub monitors cannot play images. Images recorded by sub monitors can only be played on the main monitor.
- 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 [OFF].

Note:

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

5.2.1 Image playing screen



Image playing screen











- ① Device number

- ② Image set number
- ③ Image position within a image set
- ④ Indicates that the image has not been played.
- ⑤ 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)



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 25.

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 using the main monitor, extension monitor, or sub monitor. You can also select the length of time control signals are sent for to unlock the door. (How long the door remains unlocked depends on each electric lock's specification.)

- A maximum of 2 electric locks can be connected to the main monitor.
- 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 unlocking time → .
- 6 When finished, press .

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 24.

"View extension after unlocking":



Determines whether to extend the displaying time of the doorphone image when the electric lock is unlocked. See page 24.

6.1.2 Unlocking electric locks

Main monitor/extension monitor:

1. Press  while talking or monitoring.

Sub monitor:

1. Press  while talking or monitoring.
 - When the door is opened,  is displayed.

Note:

- You can only unlock the door when talking or monitoring.



6.2 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.

7.1 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.

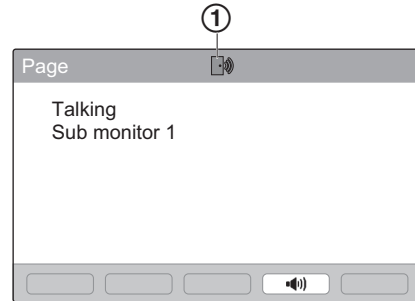
Main monitor example:

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
Already receiving an incoming call from a doorphone	The display changes to the new incoming call, and the previous incoming call is terminated.
<ul style="list-style-type: none"> Talking or monitoring with a doorphone Talking on an intercom call 	<p>The ringtone sounds and the incoming call's icon is displayed (①).</p> <p>To answer the incoming call:</p> <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	<p>The ringtone sounds and the incoming call's icon is displayed (①).</p> <p>To answer the incoming call:</p> <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-V522L). 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  ([MENU] or other buttons for the sub monitor) to display the options menu and change sound and display settings.

To adjust the incoming call volume*1

- **Main monitor/extension monitor:**

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

- **Sub monitor:**



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*1 (makes the voice heard at the doorphone sound deeper)

- **Main monitor/extension monitor:**


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

- **Sub monitor:**




[MENU] → "VOICE CHANGER" →  (OK).

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:**

[MENU] → "BRIGHTNESS" →  (OK) → select the desired setting.

To adjust backlight compensation (main monitor and extension monitor only)


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

To turn the LED lights on or off (main monitor and extension monitor only)

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

-  is displayed when the LED lights are on.

Scrolling an image right or left (sub monitor only)

Press .

- The displayed image is scrolled slightly to the right or left.

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

8.3 Ringtone settings

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

- For information about how to configure settings, see page 23 for the main monitor/extension monitor and page 26 for the sub monitor.

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 → **[OK]**.
 - Repeat this step as necessary to navigate to the desired setting.
- 3 Select the desired setting → **[OK]**.
- 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: "Initial settings"

Sub-menu			Settings	
1	2	3		
Time and date settings* ²	–	–	2017-1-1 0:00	
Zoom position settings* ^{1, 3}	Doorphone 1 – 2	–	–	For details see page 22.
Wide/Zoom settings* ^{1, 3}	Doorphone 1 – 2	When visitors come/When monitoring	Zoom, <Wide>	
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.	
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-V522L). You can use these functions with optional doorphones (page 4).

Item name: "Ringtone"

Sub-menu		Settings	
1	2		
Ring volume	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

8. Additional functions

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	
Electric lock	Doorphone 1 - 2	—	—	Unlock for 1 second - Unlock for 7 seconds, <No connection>	
	Unlocking buzzer sound	—	—	<On>, Off	For details see page 20.
	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	—	
	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	
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 Press [MENU].

2 Select the desired item →  (OK).

- In some functions, repeat this operation according to the display instructions.


3 Select the desired setting →  (OK).

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 < >.

8. Additional functions

Sub-menu		Settings
1	2	
RING VOLUME	DOOR	<HIGH>, MEDIUM, LOW, OFF
	PAGE	<HIGH>, MEDIUM, LOW
RING TONE	DOOR 1	<SOUND1>, SOUND1 REPEAT, SOUND2, SOUND2 REPEAT, SOUND3, SOUND3 REPEAT
	DOOR 2	SOUND1, SOUND1 REPEAT, <SOUND2>, SOUND2 REPEAT, SOUND3, SOUND3 REPEAT
VOICE ANSWER	—	ON, <OFF> <ul style="list-style-type: none"> You can answer a call from the doorphone, the main monitor, or another sub monitor by answering with a clear voice such as “Yes?” or “Hello?” unless you press [TALK] (page 16). <ul style="list-style-type: none"> Even if “ON” is selected, you can answer a call by pressing [TALK].
VOICE CHANGER	—	<NORMAL>, LOW <ul style="list-style-type: none"> You can select the tone for voice changer (page 22).
CONTRAST	—	<ul style="list-style-type: none"> When it is difficult to see the monitor display of the sub monitor, you can adjust the display contrast. 5 levels are available. <div> Default setting →  (Level 3) </div>
REGISTRATION	—	<ul style="list-style-type: none"> You can register the sub monitor to the main monitor (page 27).
INIT SETTINGS (Initialize settings)	—	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” → **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:
When “UNREGISTERED” is displayed on the screen, press **[MENU]** → **Ⓢ** (OK).
– “REGISTERED” is displayed.
- To re-register a sub monitor:
Press **[MENU]** → select “REGISTRATION” → **Ⓢ** (OK) → **Ⓢ** (OK).
– “REGISTERED” is displayed.

6 Main monitor:

Press **[OFF]**.

9.1.2 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]**.

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

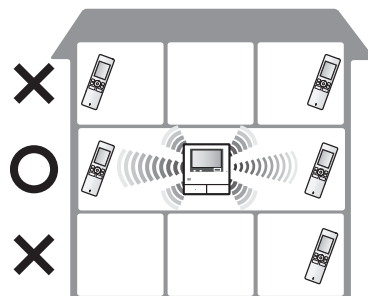
Note:

- 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 28), see the repeater's Getting Started for information about appropriate installation locations.

Signal range and repeater installation example

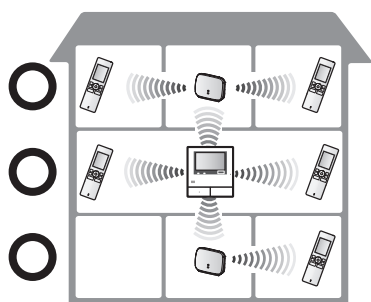
This extends signals away from the main monitor. This is useful when you want to extend the range around the main monitor and connect to sub monitors over shorter distances.

When repeaters are not used:



9. Expanding the system

When repeaters are used:



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” → .

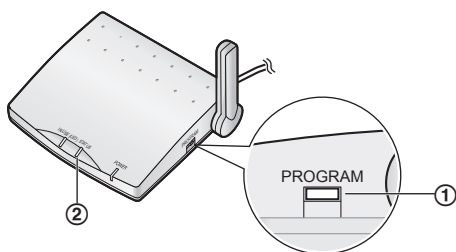
3 Select “Repeater” → .

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

- Complete the following operations within about 2 minutes.

5 Repeater:
While the power is on, press and hold
[PROGRAM] (①) for about 3 seconds.

- The STATUS indicator (②) flashes in green.
- After completing the registration, the indicator lights up solid.



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

Note:

- If you register two repeaters, please separate them more than 3 meters to avoid electrical noise.
- 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.

- 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.)

9.3 Cancelling devices (main monitor/extension monitor)

1 [] → select “Register/Cancel” → .

10.1 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.

10.2 Specifications

Main monitor (VL-MW274)

Power source	220-240 V AC, 50/60 Hz
Power consumption	Standby: 1.9 W During operation: 10 W
Dimensions (mm) (height × width × depth)	Approx. 158×243×29.5 (excluding protruding sections)
Mass (weight)	<ul style="list-style-type: none"> VL-MW274BX: approx. 825 g VL-MW274SX: approx. 850 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	2.4 GHz to 2.48 GHz
RF transmission power	100 mW (max.)

Doorphone (VL-V522L)

Power source	Power supplied by the main monitor
Dimensions (mm) (height × width × depth)	Approx. 131×99×36.5 (excluding protruding sections)
Mass (weight)	Approx. 200 g

Operating environment	Ambient temperature: approx. -15 °C to +55 °C Relative humidity (non-condensing): up to 90 %
Viewing angle	Horizontally: approx. 87° Vertically: approx. 66°
Installation method	Wall mount (mounting base supplied)
Minimum illuminance required	1 lx (within approx. 50 cm from the camera lens)
Lighting method	LED lights

Sub monitor (VL-W617)

■ Main body

Power source	Ni-MH battery (3.6 V DC / 650 mAh)
Dimensions (mm) (height × width × depth)	Approx. 157×52×35 (excluding protruding sections)
Mass (weight)	Approx. 175 g (including the batteries)
Operating environment	Ambient temperature: approx. 0 °C to +40 °C Relative humidity (non-condensing): up to 90 %
Display	Approx. 4.6 cm (1.8 inches, colour display)
Frequency range	2.4 GHz to 2.48 GHz
RF transmission power	100 mW (max.)

- *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 (PQLV219) 6.5 V DC, 0.5 A
Power consumption	Standby: 0.07 W (when the sub monitor is not placed in the charger) During charging: 1.8 W
Dimensions (mm) (height × width × depth)	Approx. 115×76×90 (using with the stand) Approx. 105×76×48 (using without the stand) (excluding protruding sections)

10. General information

Mass (weight)	Approx. 115 g (including the stand) Approx. 180 g (including 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. 	22 24
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. 	24 –
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. 	22
Images are dirty or unclear. <ul style="list-style-type: none"> 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. 	29 –
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

11. Troubleshooting

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-V522L).



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. 	23

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. 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. 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. 	16 11 8 27
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. (P-TALK is displayed on the main monitor/extension monitor and the sub monitor.) → When using the "Press-to-talk" mode, the visitor can hear your voice only while you are pressing [TALK]. 	16
Voice answer mode does not operate properly.	<p>Your voice is not loud enough or your initial reply is too long (must be less than 1 second).</p> <p>→ Try a different voice volume or change the length of your answer until the sub monitor beeps.</p>	16

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 charge contacts are dirty. Clean them with a soft, dry cloth. 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 7 hours.	<ul style="list-style-type: none"> When the power of the main monitor is turned off or “OUT OF RANGE” is displayed on the sub monitor, the charging time will become longer. → Make sure the power of the main monitor is turned on, and charge the sub monitor in a location near the main monitor where “OUT OF RANGE” disappears. 	8 13
Even if the sub monitor has been charged,  flashes after using it a few times.	<ul style="list-style-type: none"> The battery is at the end of its life. Replace the battery with a new one. 	12
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”. 	25
The product does not work with correct operations. The product does not work properly.	Perform the following operations. <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

Error messages can be viewed by pressing **[F12]**.

Display	Cause & Solution	Page
"Cannot register."	<ul style="list-style-type: none">Registration failed because it was not completed within the specified time. → Check that the devices to be registered are correctly connected and receiving power, and then try again.	27 28
"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.	27
	<ul style="list-style-type: none">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.	28
"Not registered."	<ul style="list-style-type: none">The extension monitor has not been registered on the main monitor.	27

11.3 Error messages - extension monitor

Error messages can be viewed by pressing **[F12]**.

Display	Cause & Solution	Page
"Cannot connect to the main monitor. Please check the connection or the registration of the main monitor."	<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.	27

11.4 Error messages - sub monitor

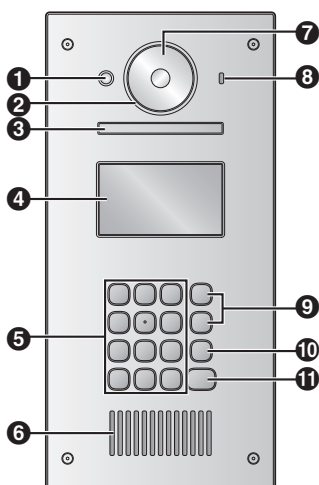
Display	Cause & Solution	Page
"CAN NOT CONNECT"	<ul style="list-style-type: none">The sub monitor is too far from the main monitor, or there is an object such as a concrete wall obstructing the signal. → Move the sub monitor closer to the main monitor or to an area that does not have any obstructions.A microwave or wireless LAN appliance is in use. Move closer to the main monitor or use a sub monitor located away from those appliances. Try again.	8
"REGISTRATION ERROR"	<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.	-

This section explains the basic operations of the VL-V900 lobby station (Video Intercom System for Apartment Complexes) when used with the VL-MW274 main monitor.

<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 [▼].

12. VL-V900 basic operations

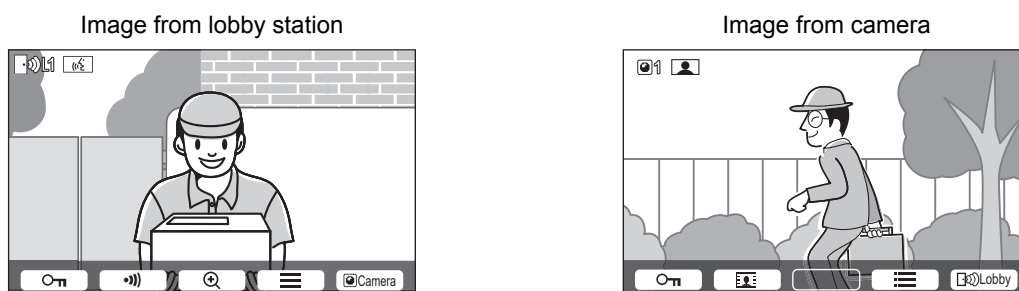
- 2 Press **[▲]** or **[▼]** to search for the receptionist.
- 3 Press **[📞]** to call.

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 → **[OK]**.
 - 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 **[📷Camera]** or **[📞Lobby]**.
- 2 When finished, press **[OFF]**.

Note:

- Depending on the composition of the system that the VL-V900 lobby station is connected to, monitoring may not be available.

12.3.3 Opening entrance doors

You can open the entrance door while talking to a visitor or monitoring with a lobby station or camera. To open the entrance door while talking or monitoring, press **[🚪]**.

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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