

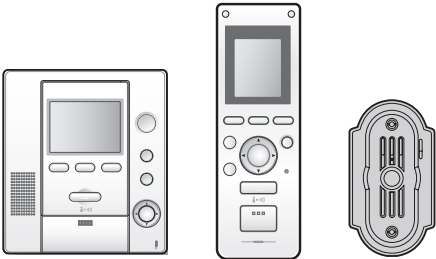
# Panasonic

## Wireless Video Intercom System

# Operating Instructions

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Model No. **VL-SW102BX**



**Thank you for purchasing a Panasonic Wireless Video Intercom System.**

Please read these Operating Instructions before using the unit and save for future reference.

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## **Important safety instructions**

- 1) Read these instructions.  
All the safety and operating instructions should be read before the appliance is operated.
- 2) Keep these instructions.  
The safety and operating instructions should be retained for future reference.
- 3) Heed all warnings.  
All warnings on the appliance and in the operating instructions should be adhered to.
- 4) Follow all instructions.  
All operating and use instructions should be followed.
- 5) Do not use this apparatus near water.  
For example, near a bathtub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, and the like.
- 6) Clean only with dry cloth.  
Do not use liquid cleaners or aerosol cleaners. Use a dry cloth for cleaning.
- 7) Do not block any ventilation openings.  
Install in accordance with the manufacturer's instructions.  
Slots and Openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface.
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.  
This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.
- 9) Protect the power cable from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 10) Only use attachments/accessories specified by the manufacturer.
- 11) Unplug this apparatus during lightning storms or when unused for long periods of time.  
This will prevent damage to the product due to lightning and power-line surges.
- 12) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power- supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

**SAVE THESE INSTRUCTIONS**

## **Additional safety information**

1. Use only the power source marked on the unit. If you are not sure of the type of power supplied to your home, consult your dealer or local power company.
2. Use only the specified AC adaptor.
3. Do not tamper with the plug.
4. Make sure the plug is securely inserted.
5. Do not touch the plug with wet hands.
6. Do not place objects on the power cable. Install the unit where no one can step or trip on the cord.
7. To reduce the risk of electric shock, do not disassemble this unit. Take the unit to an authorized service center when service is required. Opening or removing covers may expose you to dangerous voltages or other risks. Incorrect reassembly can cause electric shock when the unit is subsequently used.
8. Unplug this unit from power outlets and refer servicing to an authorized service center when the following conditions occur:
  - A. If smoke rises, or an unaccustomed noise or smell is discharged from the unit.
  - B. If metal objects have been dropped inside the main monitor station.
9. Do not put your ear(s) near the speaker, as loud sounds emitted from the speaker may cause hearing impairment.
10. Only a qualified technician is allowed to connect a power cable to the unit.  
Contact an authorized service center.
11. Do not make any wiring connections when the power supply is turned on.
12. Never install wiring during a lightning storm.
13. In order to turn off the power of this product, disconnect the plug or use the main disconnect device that is installed.
14. When existing chime wires are used, it is possible that they contain AC voltage. Electric shock or unit damage could result. Contact an authorized service center.
15. Never touch the inside of the main monitor station. High voltage is present.
16. Be sure to install the unit as specified to endure the mass.
17. If the wiring is outdoors, use a protection tube or a surge protector.
18. If the wiring is underground, do not make any connections underground.
19. **WARNING** - To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.
20. **WARNING** - Unplug this unit from power outlets if it emits smoke, an abnormal smell or makes unusual noise. These conditions can cause fire or electric shock. Confirm that smoke has stopped and contact an authorized service center.

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## **Battery**

To reduce the risk of fire or injury to persons, read and follow these instructions.

- Use only the battery(ies) specified.
- Do not dispose of the battery(ies) in a fire. They may explode. Check with local waste management codes for special disposal instructions.
- Do not open or mutilate the battery(ies).  
Released electrolyte may be toxic if swallowed.
- Exercise care when handling the battery(ies). Do not allow conductive materials such as rings, bracelets or keys to touch the battery(ies), otherwise a short circuit may cause the battery(ies) and/or the conductive material to overheat and cause burns.
- Charge the battery(ies) provided, or identified for use with the product only, in accordance with the instructions and limitations specified in this manual.

### For best performance

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#### Before using

- It is prohibited to disassemble or modify this unit. Contact the dealer where you purchased this unit for repair.
- When power fails, this unit 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.
  - (We might not be held responsible for the damage.)

#### Location/avoiding noise

- The main monitor station, the sub monitor station and the camera use radio waves to communicate with each other. For maximum distance and noise-free operation, we recommend the following:
  - Placing the unit away from electrical appliances such as:
    - TVs.
    - personal computers.
    - Microwave ovens.
    - Wireless LAN appliances.
    - Other sub monitor stations.
    - Other cameras (optional).
  - If you use the sub monitor station near a microwave oven which is being used, noise may be heard. Move away from the microwave oven and closer to the main monitor station.

For places to install the main monitor station and the door station, see the Installation Guide included separately.

#### Environment

- Keep the unit away from electrical noise generating devices, such as fluorescent lamps and mortars.
- The unit should be kept away from excessive smoke, dust, high temperature and vibration.
- The unit should not be exposed to direct sunlight.
- Do not place heavy objects on top of the unit.
- When you leave the unit unused for a long period of time, unplug it from the power outlet.
- The unit should be kept away from heat sources such as heaters, kitchen stoves, 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.
- The maximum calling distance (approx. 100 m) may be shortened when the unit is used in the places:
  - Where there are following obstacles between the main monitor station and the sub monitor station:
    - Metal doors or metal shutters.
    - Heat insulation including aluminium foil.
    - Concrete walls or walls made of galvanized iron sheet.
    - When using the sub monitor station on the different floor or house in the same grounds from where the main monitor station has been installed.
    - Many walls.
- Operating near 2.4 GHz electrical appliances may cause interference. Move away from the electrical appliances.

#### Important:

- When you move the sub monitor station from a cold place to a warm place, wait a little while to let the sub monitor station adapt to the change in environment before use. In this case, condensation such as the formation of dew may occur, resulting in error or malfunction.

#### Tapping

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

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

#### Using near medical equipment

- 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 unit operates in the frequency range of 2.4 GHz to 2.48 GHz, and the power output level can range from 0.03 to 0.175 watts.) Do not use the unit 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.



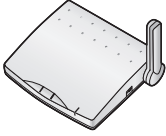


**Privacy and rights of portrait**

When installing or using the door station or the camera (optional), 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.

**Product names used in these Operating Instructions**

For plain explanation, the product names used in these Operating Instructions are described as follows.

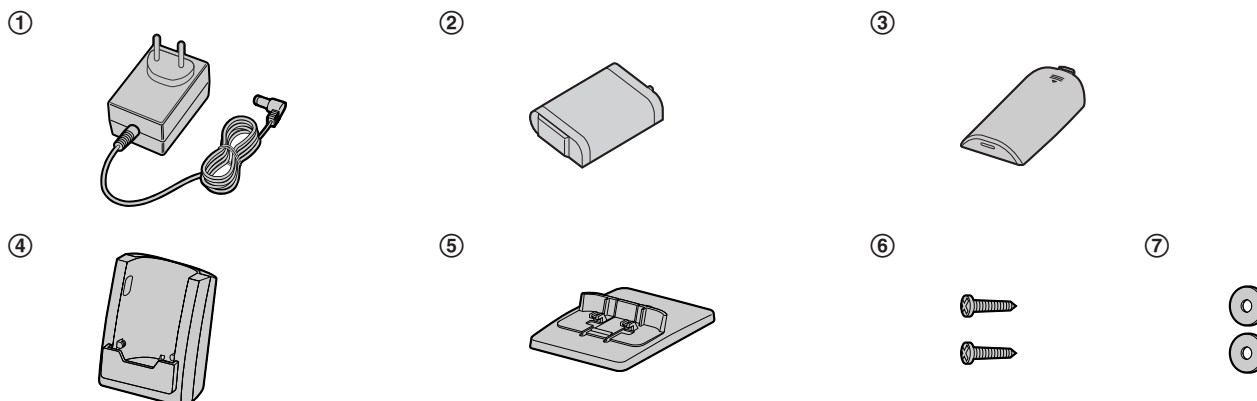
<b>Product figure</b>				 *1	 *1
<b>Description in these Operating Instructions (Product name)</b>	Main monitor station (Main monitor)	Sub monitor station (Wireless monitor)	Repeater (Repeater)	Door station (Door station)	Camera (Wireless camera)

\*1 Only available for certain countries. Please contact the dealer where you purchased the Wireless Video Intercom System.

## Accessory information

### Included items

#### For the sub monitor station



No.	Item	Quantity	Notes
①	AC adaptor	1	Cord length: Approx. 1.8 m
②	Battery	1	-----
③	Battery cover	1	-----
④	Charger	1	-----
⑤	Charger stand	1	-----
⑥	Wood screws	2	For the charger. (3.5 mm x 18 mm)
⑦	Washers	2	For the charger.

• Accessories for installing the main monitor station and the door station are described in the Installation Guide included.

### Additional/replacement accessories

Accessory items	Order number
Wireless monitor (called sub monitor station)	VL-W600BX (same as the included sub monitor station)
Repeater	VL-FAN1BX
DECT adaptor	VL-GD001CE, VL-GD001E
Rechargeable nickel metal hydride (Ni-MH) battery	HHR-P103
Door station	Only available for certain countries. Please contact the dealer where you purchased the Wireless Video Intercom System.
Wireless camera (called camera)	

### Compatible Panasonic PBXs

This unit can be used with Panasonic PBXs (page 49). Please consult your dealer for compatible PBX information.

This unit is compatible with the following Panasonic PBXs\*1:

KX-TDA30BX  
 KX-TDA100BX  
 KX-TDE100BX  
 KX-TDA200BX  
 KX-TDE200BX  
 KX-TDA600BX  
 KX-TDE600BX  
 KX-NCP500BX  
 KX-NCP1000BX

\*1 As of Dec, 2008.

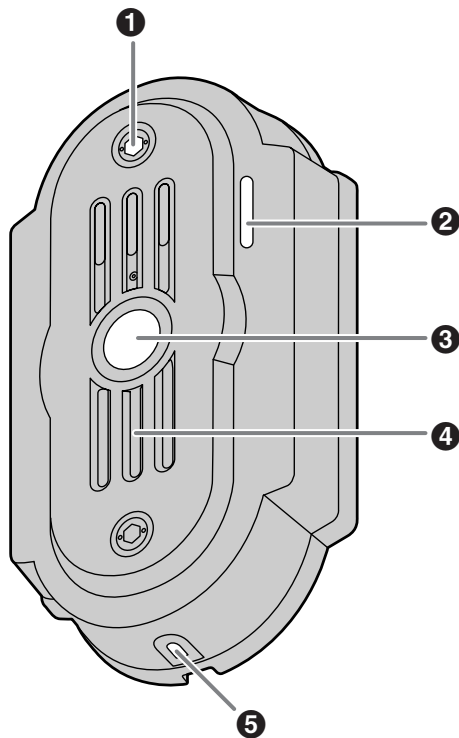


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## Location of controls

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### Door station

**1 Camera**

- When a visitor presses the call button, the camera on the door station will turn on and an image of the visitor will be shown on the monitor displays of both the main monitor station and the sub monitor station.

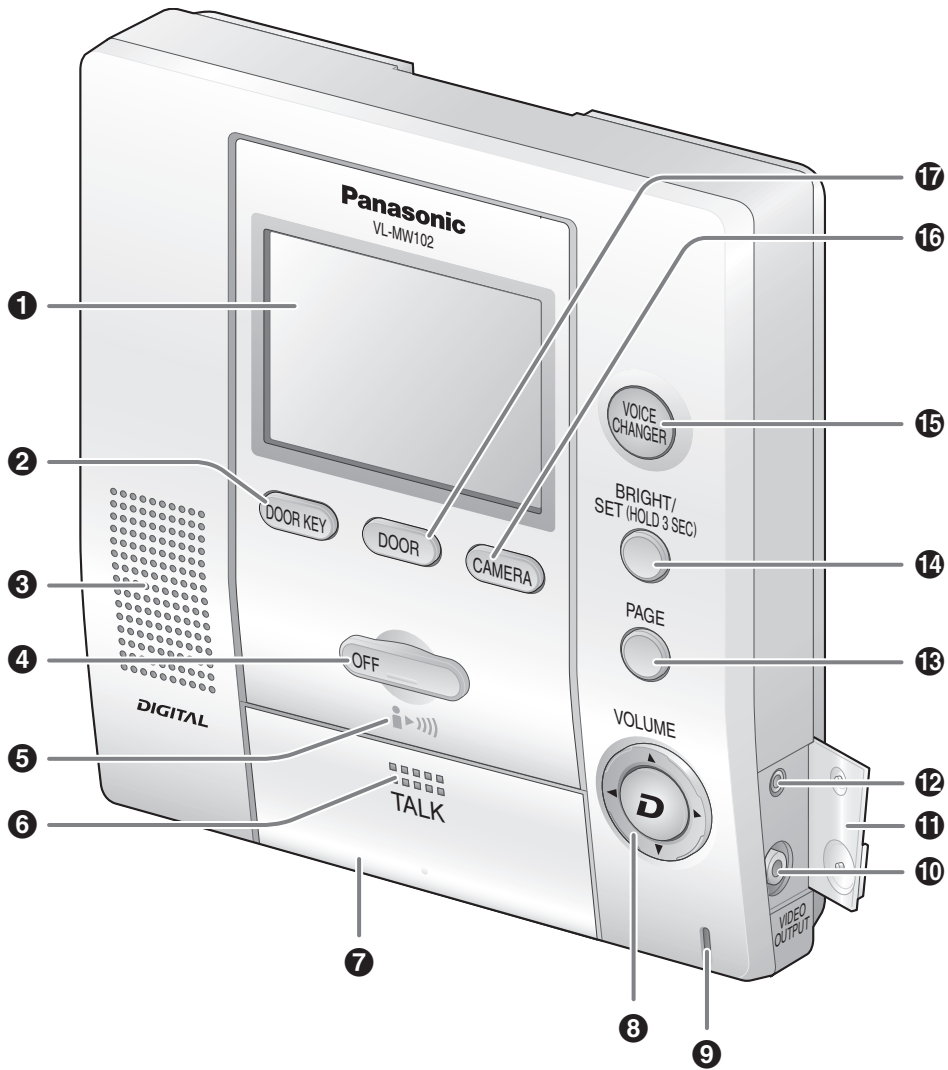
**2 Microphone****3 Call button**

- The call button is lighted with a blue LED light while the power is on.
- When a visitor presses the call button, a ringer tone will ring at the main monitor station and the sub monitor station.

**4 Speaker****5 Water drain hole**

- This hole allows rain water to drain. Do not cover it.




Main monitor station



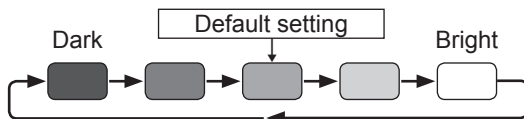
Note:

- For information about the rear view, refer to page 5 on the Installation Guide.

- ① **Monitor display** (page 12)
- ② **[DOOR KEY] button**
  - Allows you to open the door when connecting the door opener (sold separately) to the main monitor station (page 46).
- ③ **Speaker**
- ④ **[OFF] button**
  - Press to end an operation.
  - Press during standby to display the information display.
- ⑤ **Talking indicator**
  - Lights up while you are talking.
- ⑥ **TALK indicator**
  - Flashes while the door station or the sub monitor station is calling. Lights up solid during a call.
- ⑦ **[TALK] button**
  - Press to answer a call and/or speak to a visitor (page 21).
- ⑧ **Navigator key**

	<b>[▼] [▲]</b>	<ul style="list-style-type: none"> <li>• Adjusts the ringer volume for the door station (page 44).</li> <li>• Adjusts the speaker volume (page 44).</li> <li>• Selects the desired item or image.</li> </ul>
	<b>[◀] [▶]</b>	<ul style="list-style-type: none"> <li>• Adjusts the ringer volume for the camera (optional) (page 44).</li> </ul>
	<b>[D]</b>	<ul style="list-style-type: none"> <li>• Records an image (page 30).</li> <li>• Views the recorded image (page 32).</li> <li>• Flashes when unviewed images from the door station or the camera (optional) remain in memory (page 30).</li> </ul>

- ⑨ **Microphone**
  - Do not cover when you talk.
- ⑩ **[VIDEO OUTPUT] jack** (Supports the NTSC standard)
  - If you connect the jack to a TV set using an RCA pin cord (sold separately), the video (picture) image displayed on the main monitor station can be automatically output to the TV set.  
However, the larger the TV screen connected to the jack, the poorer the image quality will be.
- ⑪ **Connector cover**
- ⑫ **Connector**
  - Do not connect anything.
- ⑬ **[PAGE] button**
  - Press to page the sub monitor station (page 23, 36).
- ⑭ **[BRIGHT/SET] button**
  - Press to adjust the brightness of displayed images.
    - The display brightness is changed as follows each time you press the button. 5 levels are available.



- When you press and hold the button for about 3 seconds, the function setting display appears (page 38).
- ⑮ **[VOICE CHANGER] button**
  - Press to modify the sound of your voice heard by a visitor (page 22).
- ⑯ **[CAMERA] button**

(This button functions only when the optional camera is registered to the main monitor station.)

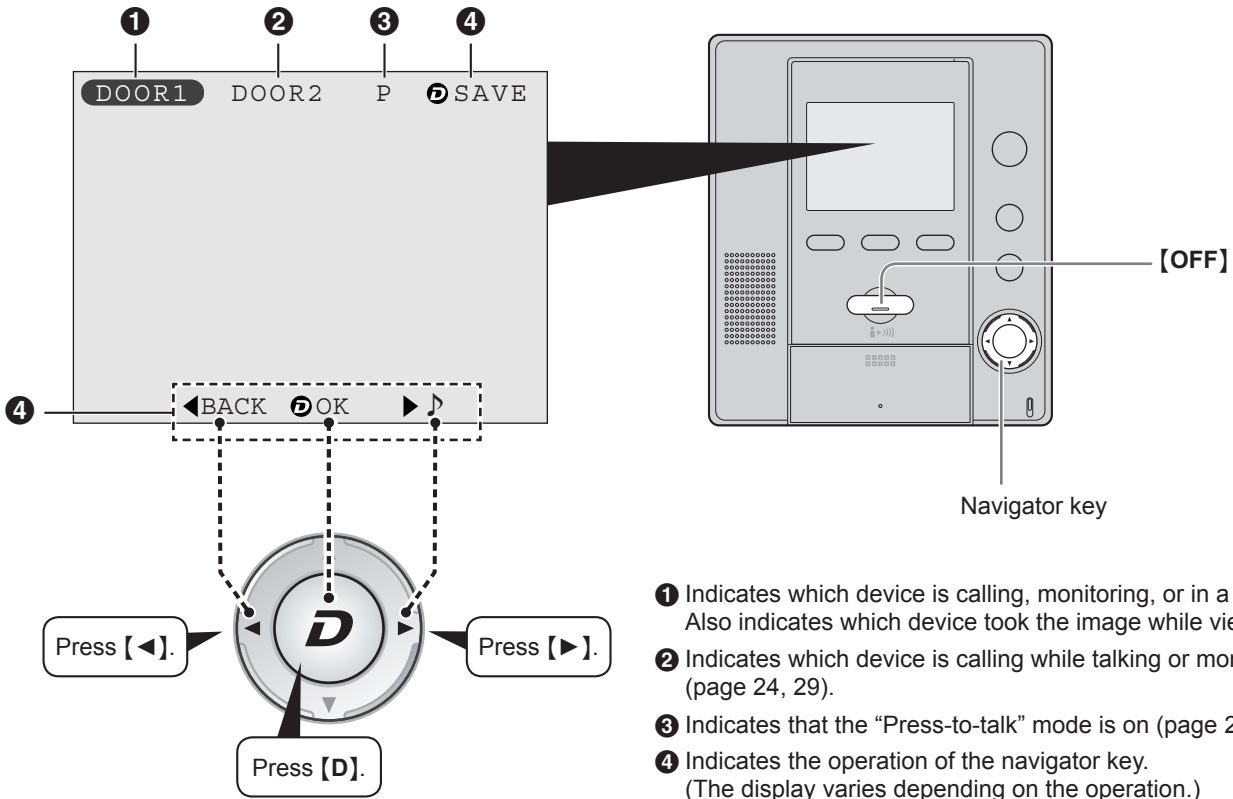
  - Press to monitor the sound and image taken by the camera (page 27).
- ⑰ **[DOOR] button**
  - Press to monitor the sound and image taken by the door station (page 25).

**Monitor display (Main monitor station)**

The following displays are examples for description purposes, and they may differ from the actual display.

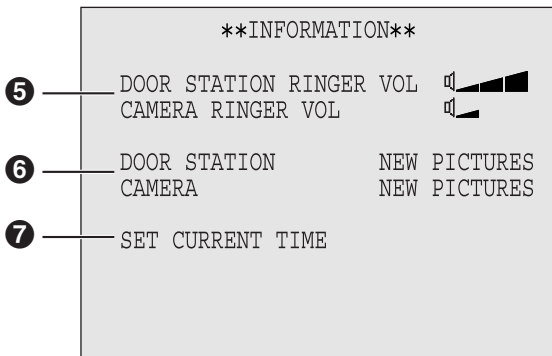
- The monitor display is turned off during standby. When you press **[OFF]**, the information display appears.

**<Display during operation>**



- ① Indicates which device is calling, monitoring, or in a call. Also indicates which device took the image while viewing it.
- ② Indicates which device is calling while talking or monitoring (page 24, 29).
- ③ Indicates that the “Press-to-talk” mode is on (page 22).
- ④ Indicates the operation of the navigator key. (The display varies depending on the operation.)
- ⑤ Indicates the current setting of the ringer volume for the door station or the camera (optional). When the ringer volume is set to “OFF”, “OFF” is displayed.
- ⑥ Appears when unviewed images from the door station or the camera (optional) remain in memory.
- ⑦ Appears when the date and time has not been set (page 20).

**<Information display>**



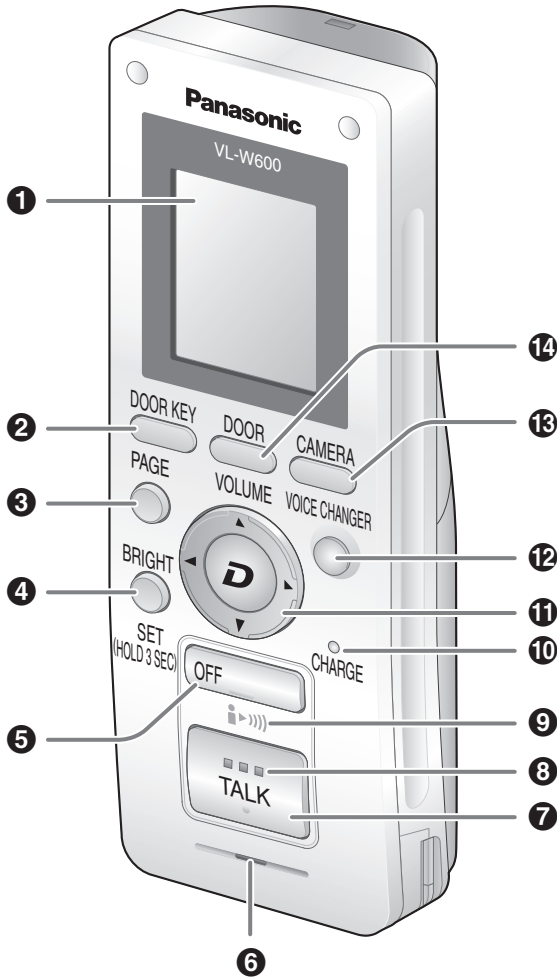
**Note:**

• **Images on the monitor display:**

A referenced image taken by the camera (optional) is displayed every 3 seconds. (The displayed image is not a moving picture.)

Sub monitor station

■ Front view



1 Monitor display (page 16)

2 [DOOR KEY] button

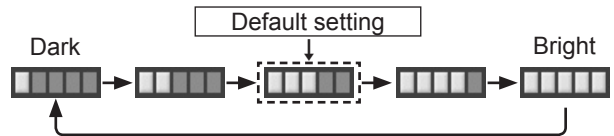
- Allows you to open the door when the door opener (sold separately) is connected to the main monitor station (page 46).

3 [PAGE] button

- Press to page the main monitor station or another sub monitor station (page 23, 36).

4 [BRIGHT/SET] button

- Press to adjust the brightness of displayed images.
  - The display brightness is changed as follows each time you press the button. 5 levels are available.



- When you press and hold the button for about 3 seconds, the function setting display appears (page 38).

5 [OFF] button

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

6 Microphone

7 [TALK] button

- Press to answer a call and/or speak to a visitor (page 21).

8 TALK indicator

- Flashes while the door station or the main monitor station is calling. Lights up solid during a call.

9 Talking indicator

- Lights up while you are talking.

10 CHARGE indicator

- Lights up while charging. Turns off when charging is complete.

11 Navigator key

	[▼] [▲]	<ul style="list-style-type: none"> <li>• Adjusts the ringer volume for the door station (page 44).</li> <li>• Adjusts the speaker volume (page 44).</li> <li>• Selects the desired item or image.</li> </ul>
	[◀] [▶]	<ul style="list-style-type: none"> <li>• Adjusts the ringer volume for the camera (optional) (page 44).</li> <li>• Press to move the displayed image right or left slightly.</li> </ul>
	[D]	<ul style="list-style-type: none"> <li>• Records an image (page 30).</li> <li>• Views the recorded image (page 32).</li> </ul>

12 [VOICE CHANGER] button

- Press to modify the sound of your voice heard by a visitor (page 22).

13 [CAMERA] button

(This button functions only when the optional camera is registered to the main monitor station.)

- Press to monitor the sound and image taken by the camera (page 27).

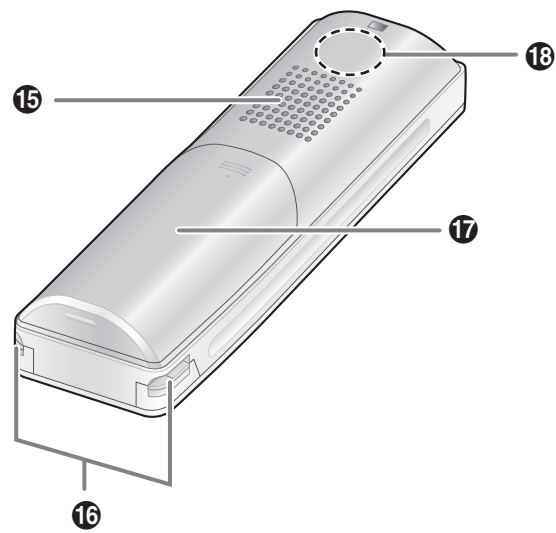
14 [DOOR] button

- Press to monitor the sound and image taken by the door station (page 25).

## Preparation

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### ■ Rear view



**15 Speaker**

**16 Charge contacts** (Metallic parts)

**17 Battery cover**

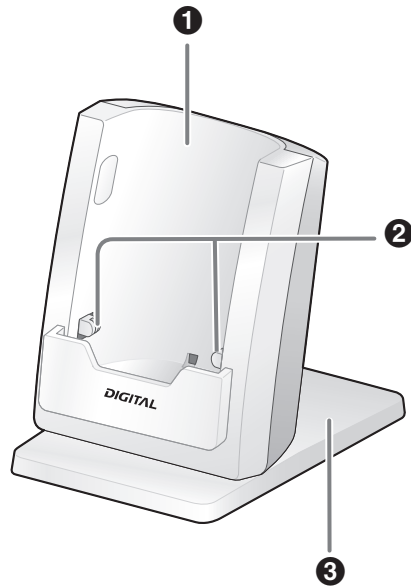
- Open to replace the battery.

**18 Antenna** (built-in)

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

## Charger

- To assemble the charger stand, see page 18.

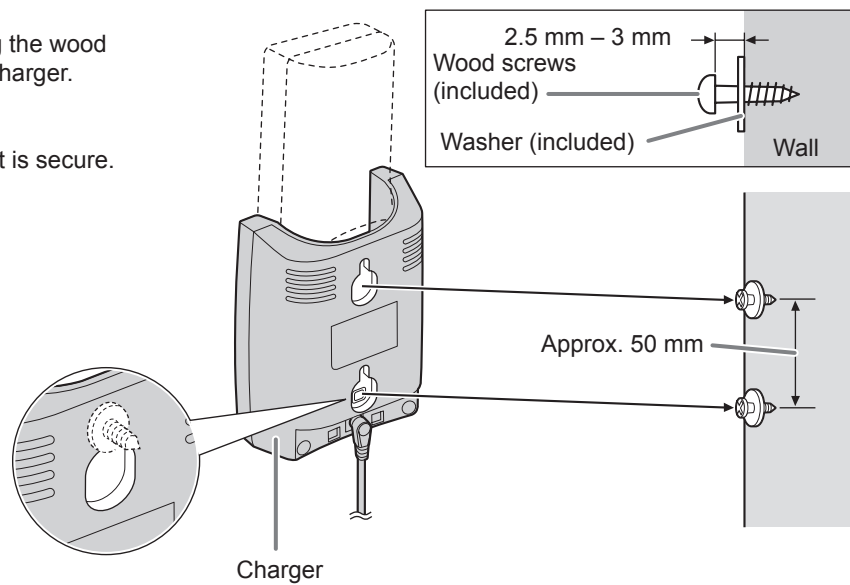


- 1 Charger
- 2 Charge contacts (Metallic parts)
- 3 Charger stand

### ■ Mounting the charger on the wall

- The charger stand is not required.

- 1 Mount onto the wall, directing the wood screws into the slots on the charger.
- 2 Slide the charger down until it is secure.



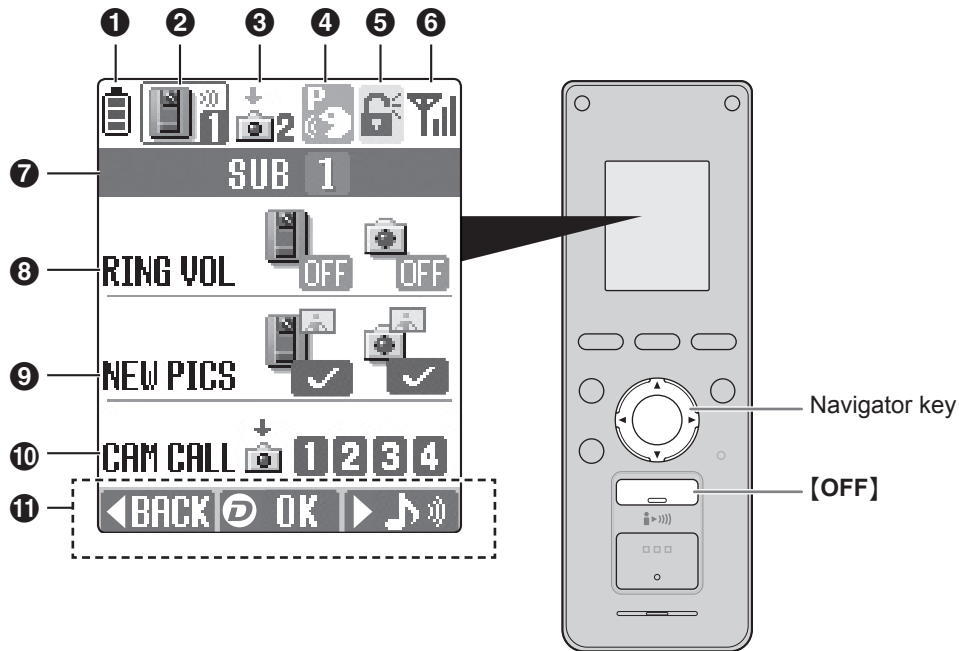
Wall mount template for the charger

Approx. 50 mm

**Monitor display (Sub monitor station)**

The following display is 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.
	<ul style="list-style-type: none"> <li>• Continuous operating time: Approx. 2.5 hours*</li> <li>• Standby time: Approx. 200 hours* (When the sub monitor station is off the charger and is not in use after the battery is fully charged.)</li> <li>• While "OUT OF RANGE" is displayed (page 17), the standby time is shortened.</li> </ul> <p>* When surrounding temperature is 20 °C.</p>
	Recharge the battery immediately.
	<b>While in use:</b>
	<ul style="list-style-type: none"> <li>• 2 beeps sound every 4 seconds and a call is disconnected within about 60 seconds.</li> </ul>
	<b>During standby:</b>
	<ul style="list-style-type: none"> <li>• "RECHARGE BATTERY" is displayed. (The battery needs to be recharged.)</li> </ul>

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

	Door station 1 (When using an additional door station, "2" is displayed.)
	Main monitor station
	Sub monitor station 1 (When using multiple sub monitor stations, "2" - "4" is displayed.)
	Camera 1 (optional) (When using multiple cameras, "2" - "4" is displayed.)

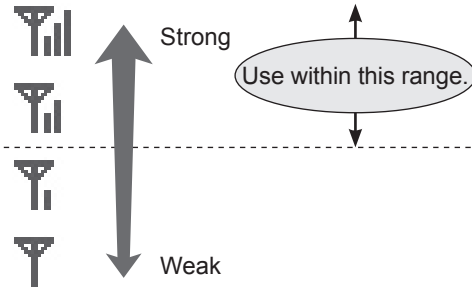
3 Indicates which device is calling while talking or monitoring.

	Door station 1 (When using an additional door station, "2" is displayed.)
	Camera 1 (optional) (When using multiple cameras, "2" - "4" is displayed.)

4 Indicates that the "Press-to-talk" mode is on (page 22).



- 5 Indicates that the door is opened when the door opener (sold separately) is connected to the main monitor station (page 46).
- 6 Indicates the level of the reception.



- When the sub monitor station is out of range of the main monitor station, “” flashes and “OUT OF RANGE” is displayed. (Move closer to the main monitor station.)

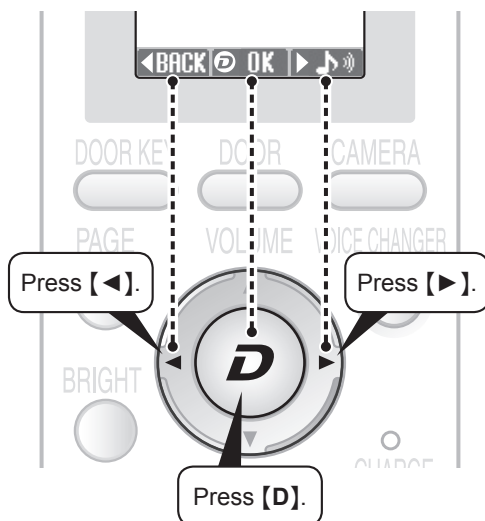
- 7 Indicates the registration number of the sub monitor station.

8		Indicates that the ringer volume for the door station is set to “OFF”.
		Indicates that the ringer volume for the camera (optional) is set to “OFF”.

9		Appears when unviewed images from the door station remain in memory.
		Appears when unviewed images from the camera (optional) remain in memory.

10		When you have not answered a call from the camera (optional) while talking or monitoring, its registration number is displayed. (When using multiple cameras, “ <b>2</b> ” – “ <b>4</b> ” is displayed.)
----	--	--

- 11 Indicates the operation of the navigator key. (The display varies depending on the operation.)



**Note:**

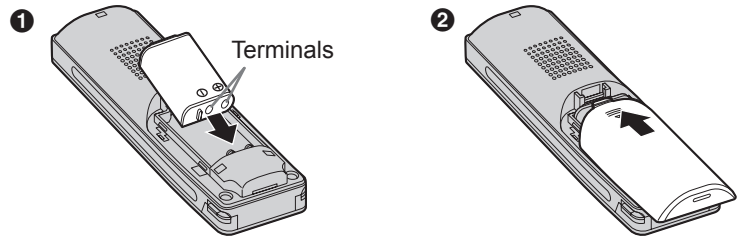
● **Images on the monitor display:**

A refreshed image taken by the door station or the camera (optional) is displayed every 3 seconds. (The displayed image is not a moving picture.)

## Charging the sub monitor station

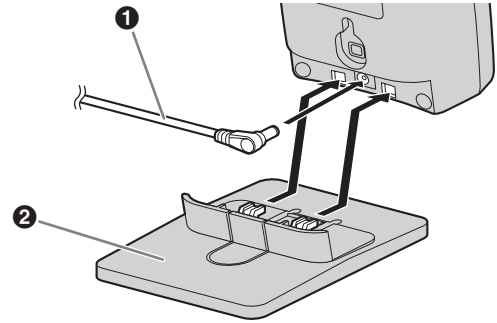
**1** Insert the battery.

- ❶ Align the terminals and insert.
- ❷ Close the battery cover.



**2** Assemble the charger stand.

- ❶ 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.
- ❷ Attach the charger stand.



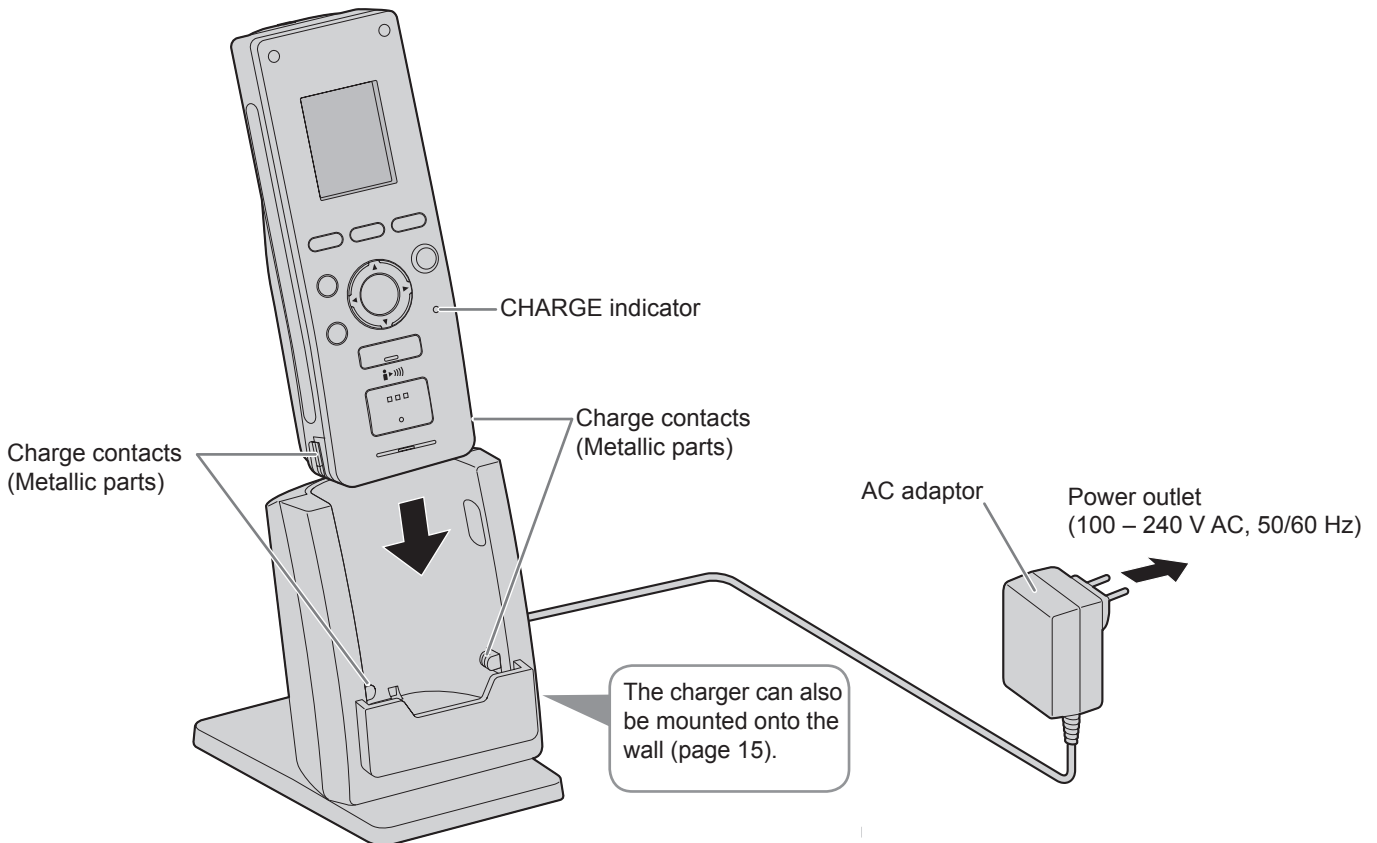
**3** Plug the AC adaptor into the power outlet (100 – 240 V AC).

**4** Place the sub monitor station on the charger and charge the battery.

While charging: The CHARGE indicator lights up.

When charging is complete: The CHARGE indicator 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 station while charging, the charging time becomes longer.
- Locate the charger where “OUT OF RANGE” is not displayed on the sub monitor station.  
(The charging time becomes longer where the sub monitor station is out of range of the main monitor station.)

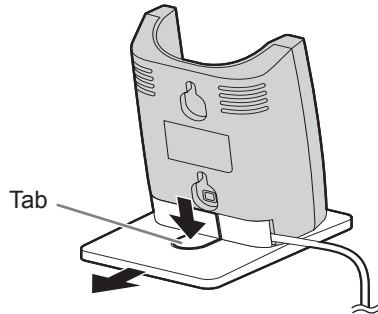


**Important:**

- If the charge contacts become soiled, clean the charge contacts (page 59).
- When the sub monitor station 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 station again.

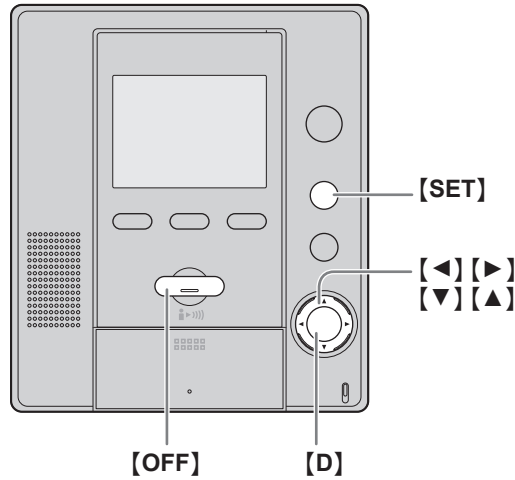
■ **To remove the charger stand**

Pressing the tab, pull the charger stand to detach.



## Setting the date and time

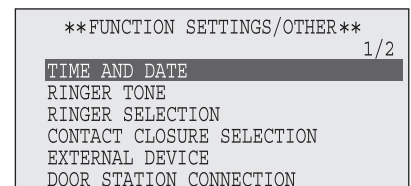
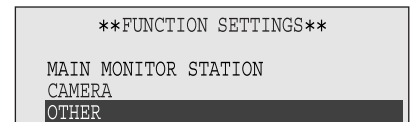
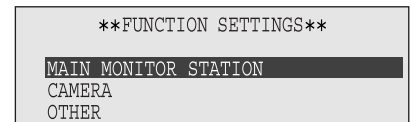
This unit has a recording function. The date and time will not be recorded when recording unless they are set. You can set the date and time using the main monitor station.



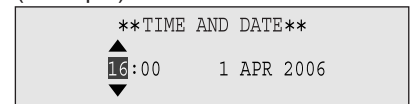
- 1 During standby, press and hold **[SET]** for about 3 seconds.
- 2 Select "OTHER" by pressing **[▼]** or **[▲]**.
- 3 Press **[D]** then select "TIME AND DATE" by pressing **[▼]** or **[▲]**.
- 4 Press **[D]** then set the current date and time.
  - [◀] [▶]**: Select the location for hour/minute/day/month/year.
  - [▼] [▲]**: Select numbers.
  - (You can scroll numbers quickly by pressing and holding **[▼]** or **[▲]**.)
- 5 Press **[D]** after finishing the setting.
  - The screen in step 3 is displayed.
- 6 Press **[OFF]**.

**Note:**

- Time may shift about 60 seconds per month.

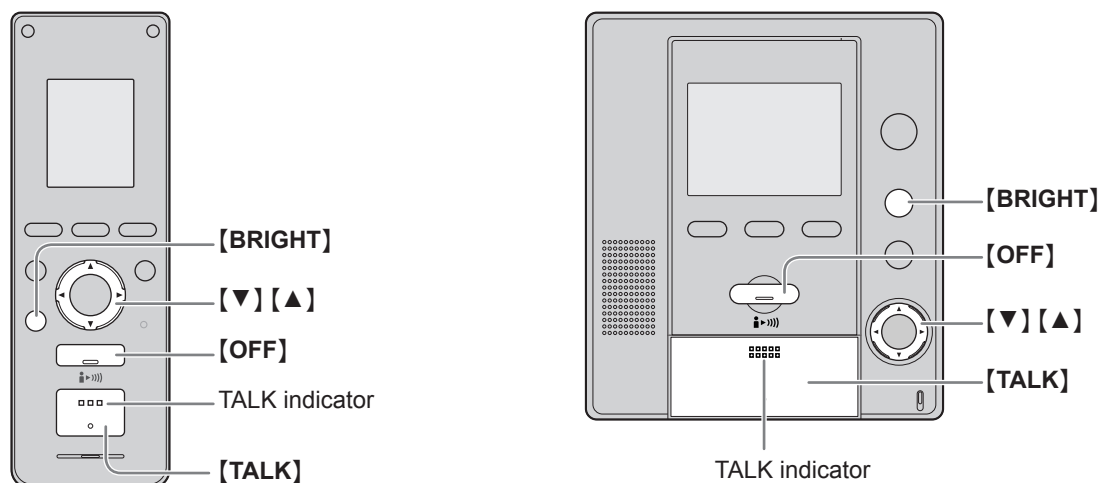


(Example)



## Answering a call

When you receive a call from a door station, the main monitor station and the sub monitor station ring and the TALK indicators flash. You can monitor the visitor on the monitor display before answering a call.



**1** When a ringer tone is heard, press **[TALK]**.

**2** Speak to the visitor.

- Speak alternately with the visitor.  
(If you and the visitor speak at the same time, you will not hear each other.)

■ **To adjust the speaker volume:**  
Press **[▼]** or **[▲]**.

■ **To adjust the display brightness:**  
Press **[BRIGHT]** (page 11, 13).

**3** To end the conversation, press **[OFF]**.

### Note:


- If you do not answer a door call within 30 seconds, the display will turn off.  
A conversation will be automatically disconnected in about 90 seconds and then the display will turn off.  
To turn on the display and talk to the visitor again, press **[TALK]**.
- The image taken by the door station is automatically recorded. Even if you do not answer a call, the image is recorded (page 30).
- You can record an image manually while monitoring the display during a call (page 31).
- You can change the ringer tone and the ringer volume (page 43, 44).
- At night or when there is not enough lighting in the doorway, the display will be shown in black and white.

### When using an additional door station or camera:

- When you receive another call from an additional door station or an additional camera while receiving a previous call, the display is switched to the image from the device calling later.
- When you receive another call from an additional door station or an additional camera during conversation, see page 24.

### If it is difficult to hear the visitor's voice due to noise (Press-to-talk mode)

You can speak with the visitor alternately by pressing **[TALK]** to switch between the talking mode and the receiving mode. (You can operate this feature in the same way by using either the main monitor station or the sub monitor station.)

- 1 Press and hold **[TALK]** for about 2 seconds during a call until a beep sounds.
  - “P” appears on the main monitor station, “” appears on the sub monitor station.

- 2 **To speak to the visitor:**

Speak while pressing and holding **[TALK]**.

**To hear the visitor:**

Release **[TALK]**.

**Note:**

- Press-to-talk mode is canceled after the conversation ends.
- Press-to-talk mode is also available for a paging call or call from the optional camera.

---

### Speaking with the modified sound of your voice (Voice changer)

This feature allows you to modify the sound of your voice as heard by the visitor. (You can operate this feature in the same way by using either the main monitor station or the sub monitor station.)

- 1 Press **[VOICE CHANGER]** while receiving a call or during a conversation ends.
  - [VOICE CHANGER]** lights up.  
(To cancel the voice changer mode, press **[VOICE CHANGER]** again. **[VOICE CHANGER]** light goes off.)

**Note:**

- 2 different voice changer types are available. You can select the desired type in the function settings (page 39).
- Voice changer is canceled after the conversation ends.
- Voice changer is also available for a call from the optional camera.

---

### Answering a call by voice sensor (Voice answer mode)

This mode allows you to answer a call by voice without pressing **[TALK]**. (You can operate this feature in the same way by using either the main monitor station or the sub monitor station.) Voice answer must be set “ON” beforehand (page 39).

- 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.

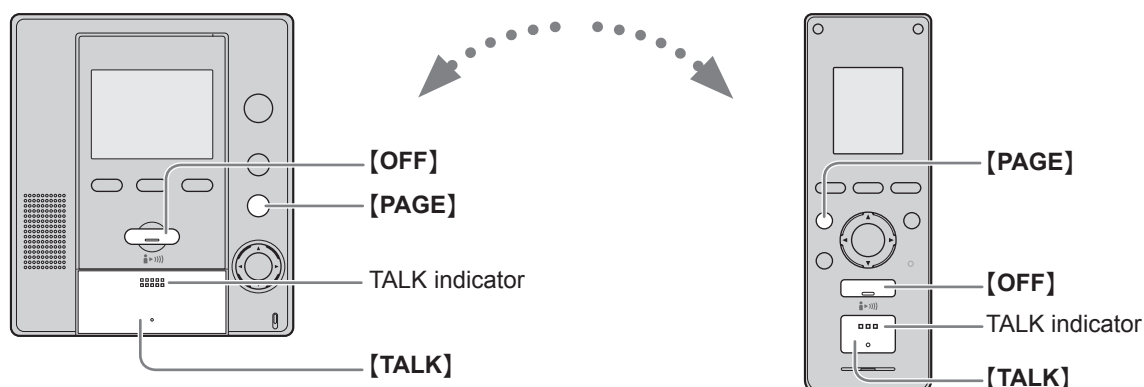
**Note:**

- Make sure you are within about 50 cm of the main monitor station or the sub monitor station.
- 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 barking dog) may start the voice answer mode even though you have not replied by voice.
- When you locate the sub monitor station near the main monitor station, the voice answer mode may be started by a ringer tone.
- The voice answer mode is also available for paging calls.

## Transferring a call

You can transfer a door call between the main monitor station and the sub monitor station.

- Both of the main monitor station and the sub monitor station can transfer a door call using the same operation.
- When using multiple sub monitor stations, you can transfer a door call between the sub monitor stations.



### To transfer a call:

- 1 During a door call, press **[PAGE]** and talk to the paged party.
  - The image taken by the door station disappears, and the TALK indicator flashes.
- 2 Tell the paged party to receive the door call. Press **[OFF]**.
  - The paged call is disconnected, and the paged party can talk to the visitor.

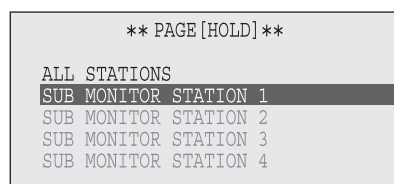
#### Note:

- The visitor cannot hear voices during paging.
- If the paged party does not answer or you want to return to the door call during paging, press **[TALK]**.
- When using multiple sub monitor stations, all sub monitor stations are paged in step 1.

### When using multiple sub monitor stations, you can page them individually.

This feature must be set beforehand ("PAGE" on page 39).

- 1 Press **[PAGE]** during a door call, then select the desired sub monitor station by pressing **[▼]** or **[▲]**.

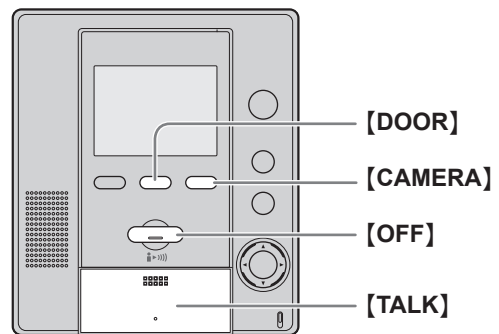
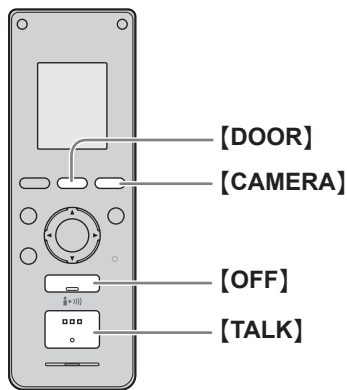
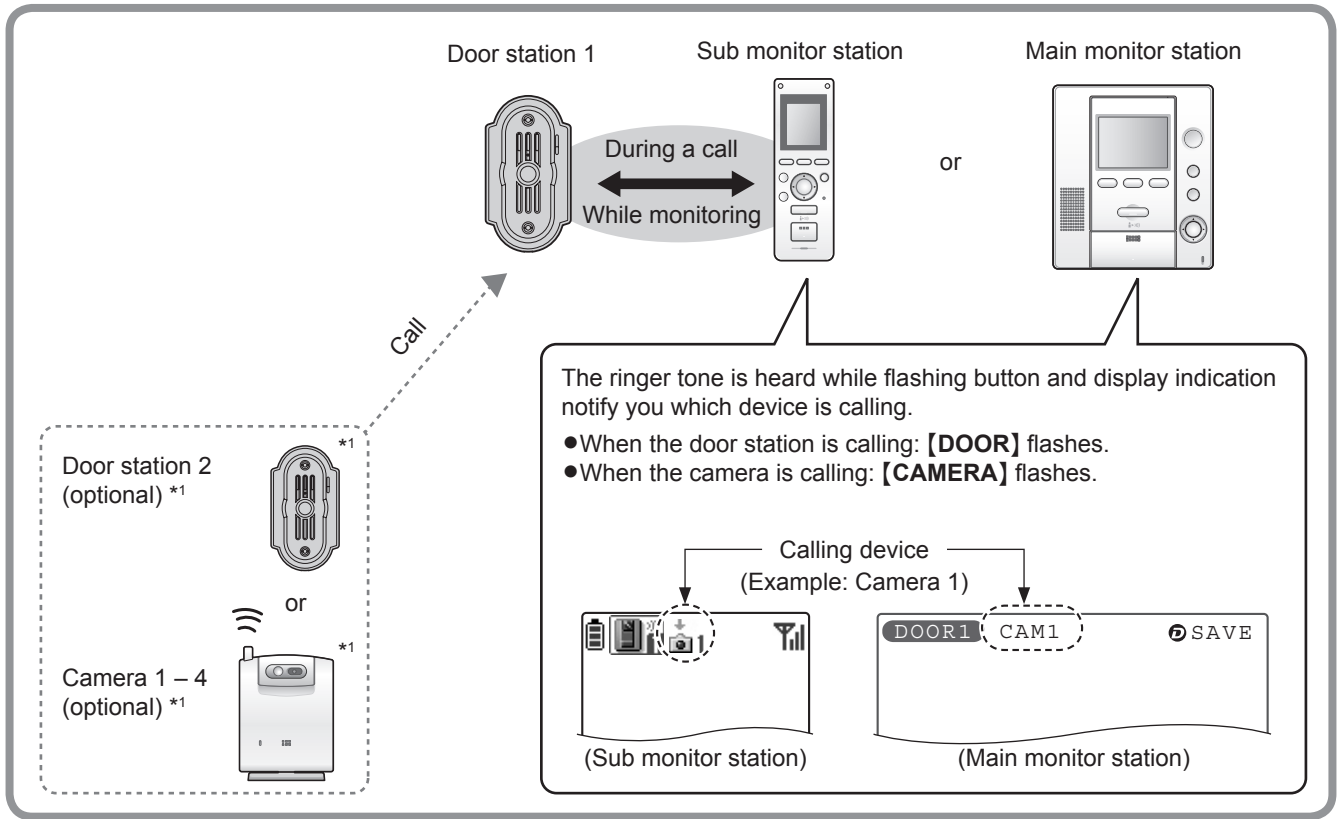


- 2 Press **[D]** and talk to the paged party.
  - Only the paged party can hear the paging call.
- 3 When the paged party answers, tell the paged party to receive the door call. Press **[OFF]**.
  - The paged party can talk to the visitor.

### ➔ To receive a transferred call:

- 1 When the paging call is heard, press **[TALK]** and talk to the paging party.
- 2 Talk to the visitor.
  - The image taken by the door station is displayed.
  - Press **[OFF]** to end the call.

When receiving another call during a call or while monitoring



When answering a call:

- 1 Press the flashing **[DOOR]** or **[CAMERA]** button.
  - You can monitor the sound and image taken by the door station or the camera. (The other party cannot hear your voice.)
  - To speak to the other party: Press **[TALK]**.

- 2 To end monitoring or the conversation, press **[OFF]**.

Note:

- To return to the first door call after answering another call, operate from step 1 on page 25.

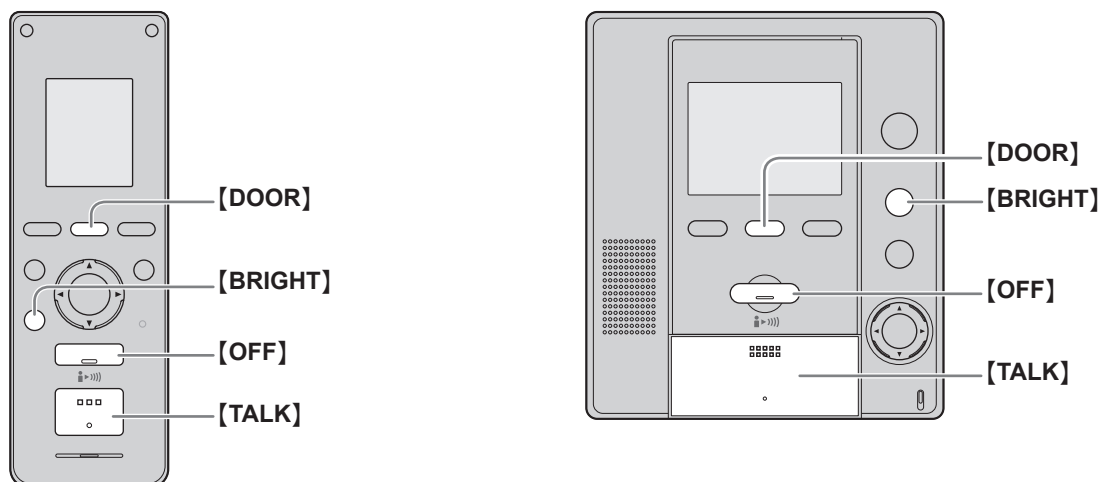
\*1 Only available for certain countries. Please contact the dealer where you purchased the Wireless Video Intercom System.



## Monitoring the outside (Door station monitor)

You can monitor the sound and image taken by the door station.

(You can operate this feature in the same way by using either the main monitor station or the sub monitor station.)



### 1 Press [DOOR].

- The outside image will be shown on the display, and you will hear the sound from outside.  
(The sound from your end will not be heard at the door station.)

#### ■ To adjust the display brightness:

Press [BRIGHT] (page 11, 13).

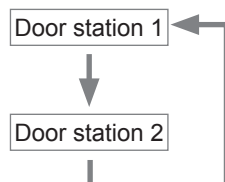
#### ■ To speak to the other party at the door station:

Press [TALK].

### 2 To end monitoring, press [OFF].

#### When installing 2 door stations:

Press [DOOR] repeatedly in step 1 to select the desired door station.



#### Note:

- At night or when there is not enough lighting in the doorway, the display will be shown in black or white.
- Monitoring will automatically end in about 90 seconds.

#### When using an additional door station or camera:

- When you receive another call from a door station or a camera while monitoring, see page 24.

### Features of the camera

**Camera monitor:**

You can monitor the image and sound of the other room where the camera is located by using the main monitor station or the sub monitor station. The quality of the images taken by the camera is a little lower than the quality of the images taken by the door station.

**When the camera sensor detects temperature variations:**

The ringer tone sounds and the image taken by the camera is displayed on the main monitor station and the sub monitor station.

The image taken at the time of detection and 3 more images (4 images in total) are automatically recorded at about a 3 second interval after detection. Even if you do not answer a call, the image is recorded and you can review the recorded image anytime (page 30).

**Camera image displayed on the main monitor station:**

4 refreshed images taken by the camera are displayed on the main monitor station every 3 seconds. You can select either "4 PICTURES" (default setting) or "1 PICTURE" in the function setting for "NUMBER OF CAMERA PICTURES" (page 39).

The image quality of "1 PICTURE" is lower than "4 PICTURES" because the image of "1 PICTURE" is enlarged to the full display size.

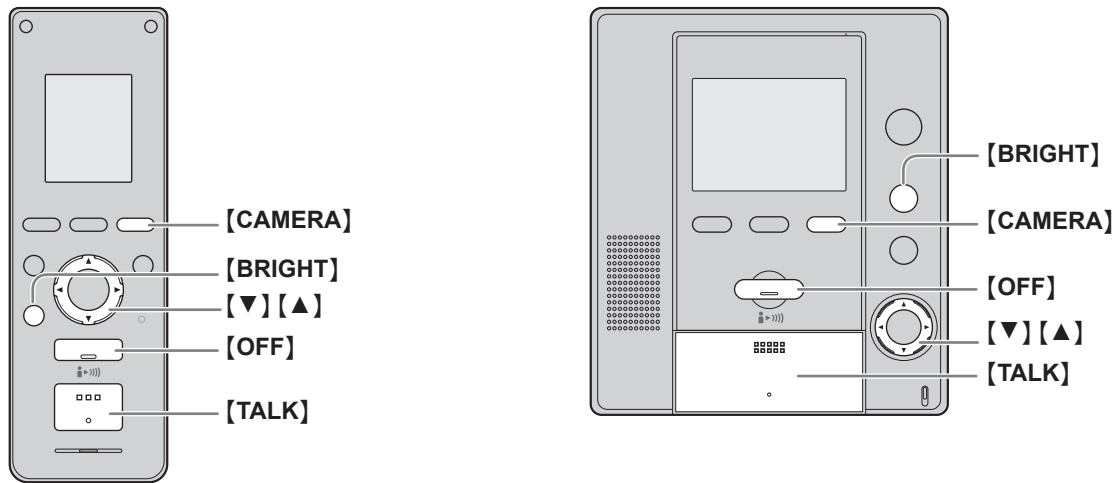
**Note:**

- You can zoom in the image from the camera. This feature must be set beforehand: ("ZOOM" on page 40).
- When the sensor detects, the camera sounds a ringer tone "CAMERA RINGER". You can change the ringer pattern: ("CAMERA RINGER" on page 40) or the ringer volume: ("CAMERA RINGER VOLUME" on page 40).
- After detecting motion, the sensor does not detect for about 60 seconds. You can change the time interval of detection: ("SENSOR TYPE" on page 40).
- The automatic recording mode can be deactivated: ("SENSOR TYPE" on page 40).

## Monitoring the view from the camera (Camera monitor)

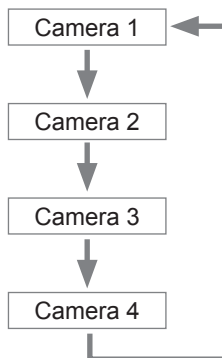
You can monitor the sound and camera of the place where the camera is located.

(You can operate this feature in the same way by using either the main monitor station or the sub monitor station.)



### 1 Press [CAMERA].

- The image taken by the camera will be shown on the display, and you will hear the sound from the camera. (The sound from your end will not be heard at the camera.)
- **To speak to the other party at the camera:**  
Press [TALK].
- **To adjust the speaker volume:**  
Press [▼] or [▲].
- **To adjust the display brightness:**  
Press [BRIGHT] (page 11, 13).
- When 2 or more cameras are registered, press [CAMERA] repeatedly to select the desired camera.  
(Example: When 4 cameras are registered.)



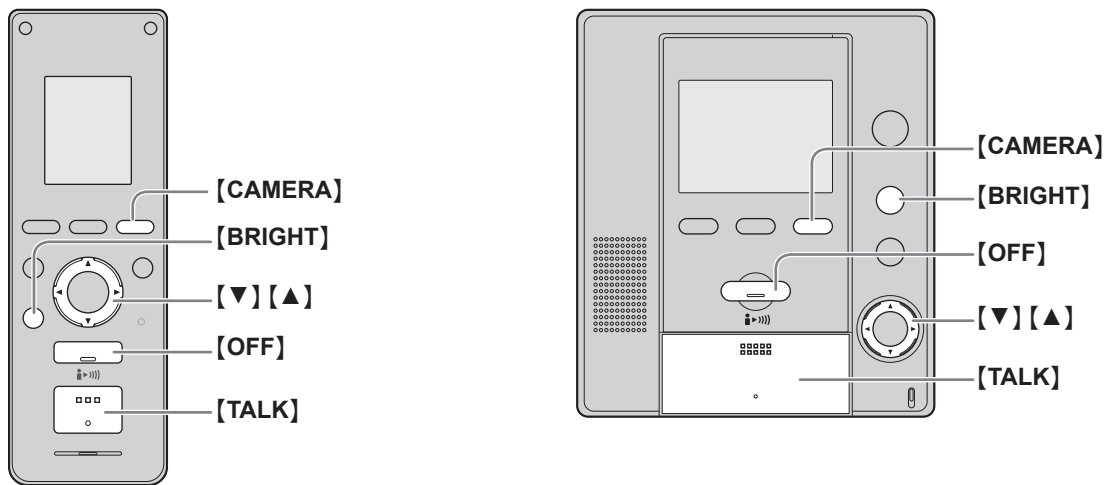
### 2 To end monitoring, press [OFF].

#### Note:

- Monitoring will automatically end in about 90 seconds.
- When you receive another call from the door station or another camera while monitoring or during conversation, see page 29.
- **Quality of images taken by the camera: (The following can occur)**
  - A moving person is blurred because of the still image.
  - The person's face becomes dark when direct sunlight shines on the camera lens.
  - The picture color is different from the actual color.
  - The image looks misty under fluorescent lights.

## Answering a call from the camera

When the sensor detects motion, the main monitor station and the sub monitor station ring and the **[CAMERA]** buttons flash. The image taken by the camera appears on the display. (You can operate this feature in the same way by using either the main monitor station or the sub monitor station.)



### 1 When a ringer tone is heard, press **[CAMERA]**.

- You will hear the sound from the camera. (The sound from your end will not be heard at the camera.)

#### ■ To speak to the other party at the camera:

Press **[TALK]**.

#### ■ To adjust the speaker volume:

Press **[▼]** or **[▲]**.

#### ■ To adjust the display brightness:

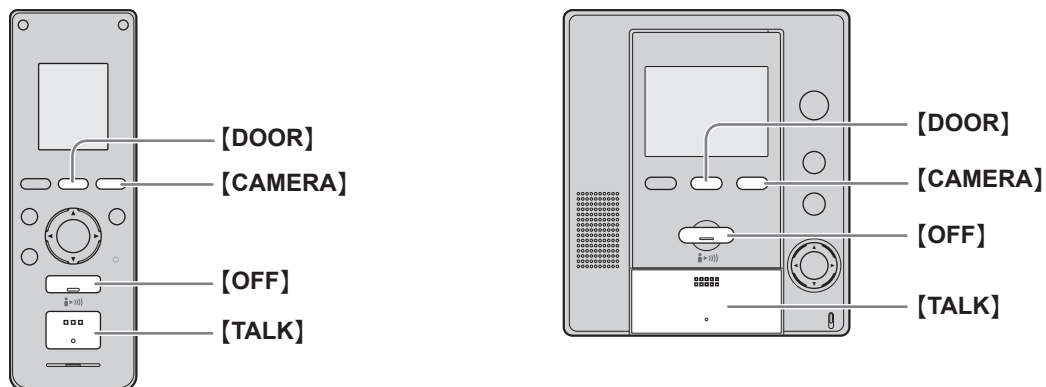
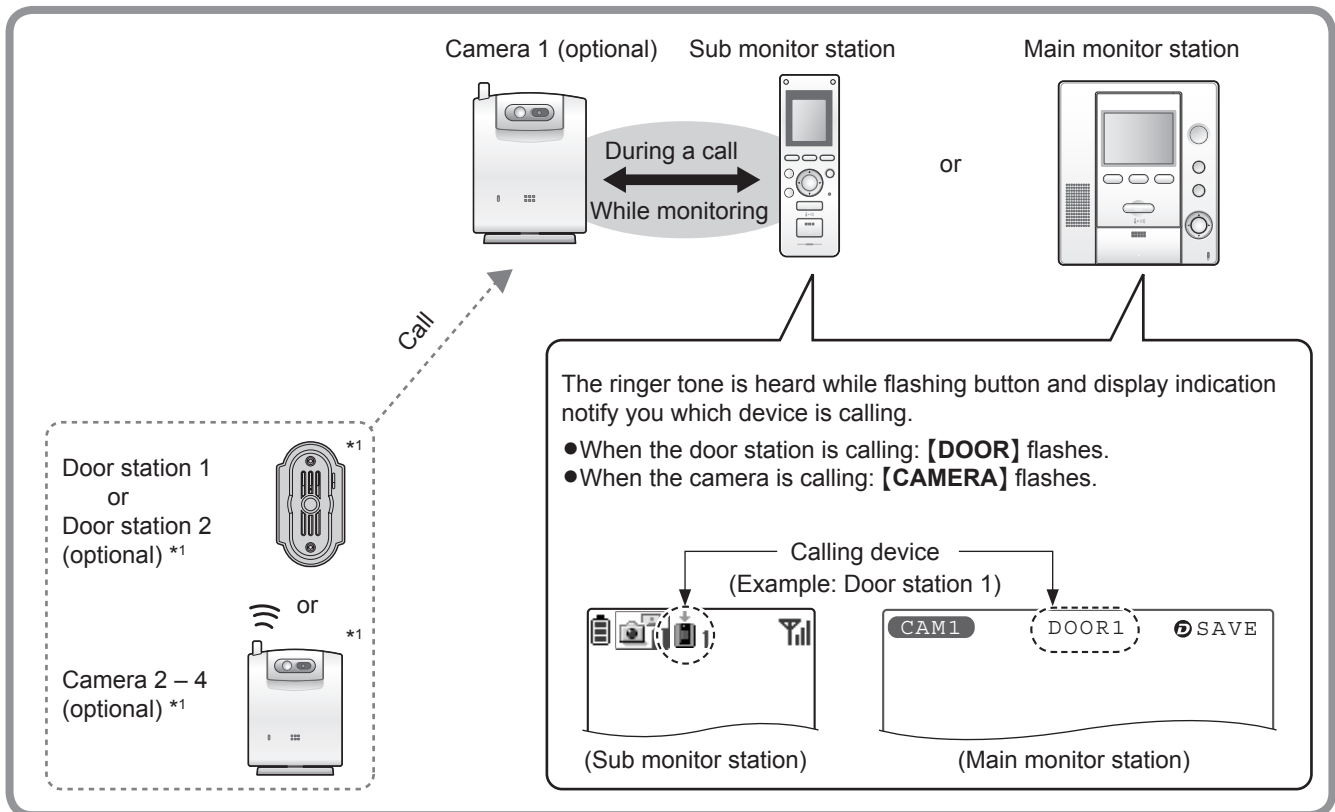
Press **[BRIGHT]** (page 11, 13).

### 2 To end monitoring or the conversation, press **[OFF]**.

#### Note:

- If you do not answer a call within 30 seconds, the display will turn off. Monitoring or the conversation will automatically end in about 90 seconds and then the display will turn off.
- The image taken at the time of detection and 3 more images (4 images in total) are automatically recorded at about a 3 second interval after detection. Even if you do not answer a call, the images are recorded (page 30).
- You can record a set of images manually while monitoring the display (page 31).
- You can change the ringer tone and the ringer volume (page 43, 44).
- When you talk to the camera, make sure you are within about 50 cm of the camera.
- When it is difficult to hear the visitor's voice or you want to speak with modified voice, use "Press-to-talk" mode (page 22) or voice changer (page 22).
- When you receive another call from the door station or another camera while receiving a call, the display is switched to the image from the device calling later.
- When you receive another call from the door station or another camera while monitoring or during conversation, see page 29.

**When receiving another call during a call or while monitoring**



**When answering a call:**

**1** Press the flashing **[DOOR]** or **[CAMERA]** button.

- You can monitor the sound and image taken by the door station or the camera.  
(The other party cannot hear your voice.)

■ **To speak to the other party:**  
Press **[TALK]**.

**2** To end monitoring or the conversation, press **[OFF]**.

**Note:**

- To return to the first call from the camera after answering another call, operate from step 1 on page 27.

\*1 Only available for certain countries. Please contact the dealer where you purchased the Wireless Video Intercom System.

## Recording an image

The main monitor station can record (save) up to 100 images from the door station or the camera (optional) in total. When the camera is registered, you can store up to 30 images from the door station and up to 70 images from the camera separately ("PICTURE RECORD ALLOCATION" on page 41).

### Auto recording

When you receive a call in standby mode, images are automatically recorded with the following timing. (Even if you do not answer a call, the image is recorded and you can review the recorded image anytime.)

■ **When receiving a call from the door station:**

One image is recorded after about 2 seconds when receiving a door call.

- The number of images to be recorded can be changed to 4 images ("DOOR STATION PICTURE REC NUMBER" on page 41).

■ **When receiving a call from the camera (optional):**

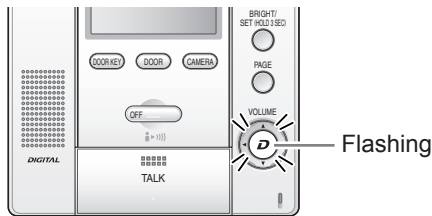
The image taken at the time of detection and 3 more images (4 images in total) are recorded at about 3 second interval after the sensor detects motion.

- The number of images to be recorded cannot be changed.

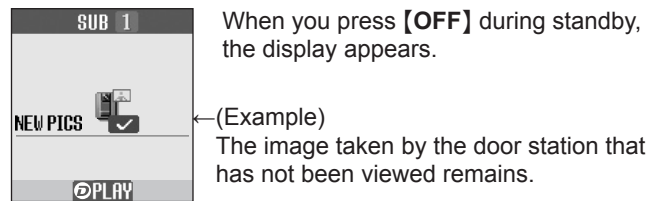
**Note:**

- If you do not answer a call, the main monitor station and the sub monitor station notify you that an unviewed image has been recorded as follows.

Main monitor station: **[D]** is flashing.



Sub monitor station: Message and icon appear on the display.



- When you have viewed the recorded image (page 32), **[D]** on the main monitor station goes off. (The message and icon on the sub monitor station disappear if you have viewed all images.)
- You can allow **[D]** to not flash or flash only when an unviewed image from either the door station or the camera remains ("FLASHING PLAY BUTTON" on page 39).
- If you receive another call while monitoring or during conversation, the image is not recorded unless you answer the call. If you answer the call, the image is recorded with the following timing.
  - When receiving a call from the door station: 1 or 4 image(s) that is(are) displayed after pressing **[DOOR]** is(are) recorded.
  - When receiving a call from the camera: 4 images are recorded after pressing **[CAMERA]**.
    - The first image is the one taken at the time of detection.
- You can deactivate the auto recording feature ("DOOR STATION AUTO RECORDING" on page 41, "SENSOR TYPE" on page 40).
- If you receive a call from another device while recording, all 4 images may not be recorded. (At least one image is recorded.)

**Auto image update:**

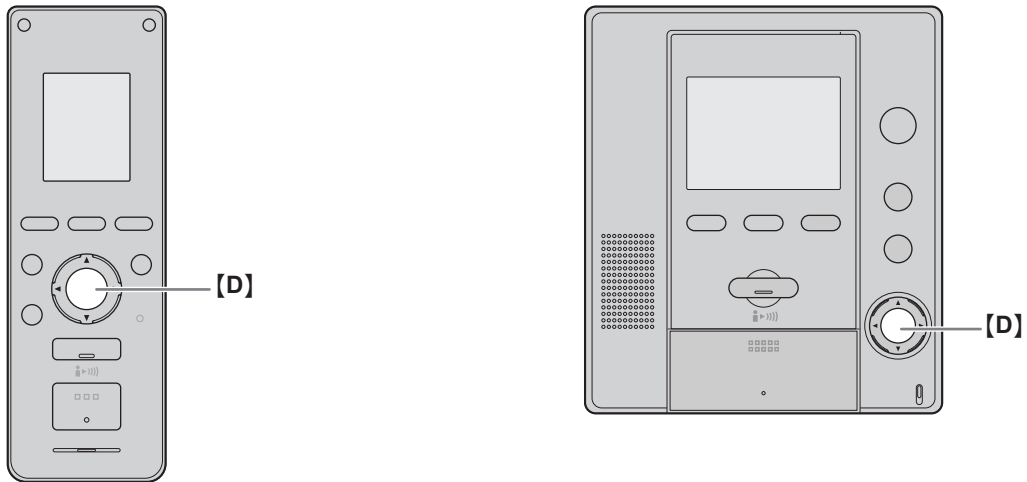
If a new image is recorded when 100 images are already stored, the oldest image (including unviewed images) is automatically erased.

**Note:**

- You can protect the image that you do not want to erase (page 32).
- When "PICTURE RECORD ALLOCATION" is set to "YES" (page 41):
  - If a new image from the door station is recorded when 30 images from the door station and 70 images from the camera are already stored, the oldest image from the door station will be erased.

## Manual recording

You can record an image anytime you are receiving a call, during conversation, or monitoring. (You can operate this feature in the same way by using either the main monitor station or the sub monitor station.)

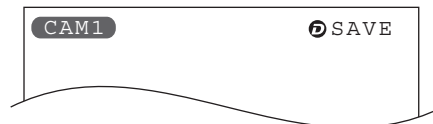


**1** While “SAVE” is displayed on the monitor display, press [D].

(Sub monitor station)



(Main monitor station)



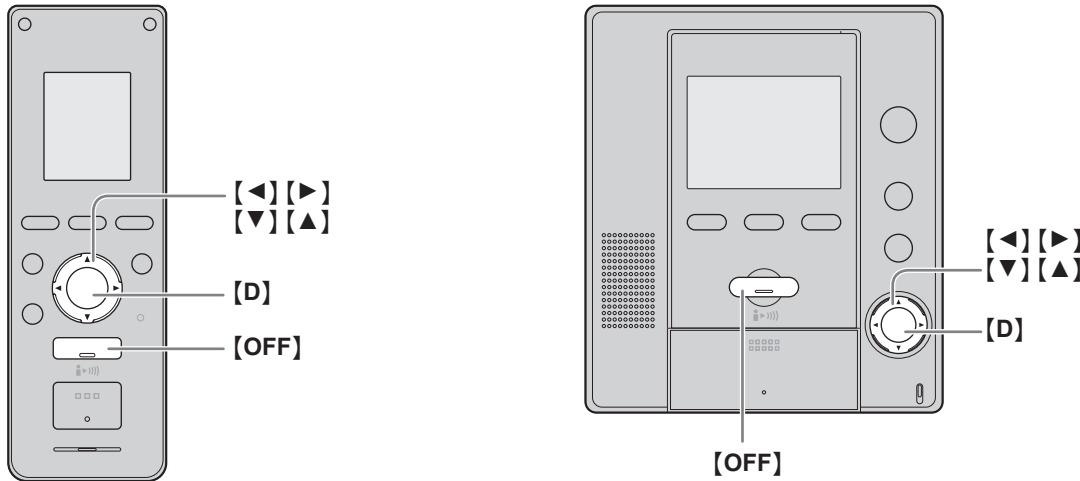
### Note:

- Recording starts a short while after pressing [D]. Therefore, the recorded image may be different from the image that was displayed when you pressed [D].
- While saving an image, displayed image may move later.

## Viewing recorded images

You can view recorded images. (You can operate this feature in the same way by using either the main monitor station or the sub monitor station.)

When **[D]** on the main monitor station is flashing, there is an image that has not been viewed yet. If you view the image, **[D]** will stop flashing.



**1** During standby, press **[D]** and select the desired item to view by using **[▼]** or **[▲]**.

“DOOR STATION NEW PICTURES”: Recorded images taken by the door station when you did not answer calls

“DOOR STATION PICTURES”: All recorded images taken by the door station

“CAMERA NEW PICTURES”: Recorded images taken by the camera when you did not answer calls

“CAMERA PICTURES”: All recorded images taken by the camera

- Items having no recorded images are displayed in a light tone color and you cannot select them.

**2** Press **[D]** to view the image.

■ **To switch to another image:**

Press **[▼]** or **[▲]**.

– Each time you press **[▼]**, an image is displayed starting from the most recently recorded one.

– If you press and hold **[▼]** or **[▲]**, you can switch images quickly, and when you release your finger, the image is displayed.

- For display information when viewing images, see page 33, 34.

- If you press **[◀]** or **[▶]** on the sub monitor station while the image is displayed, the image moves right and left slightly.

**3** To stop viewing images, press **[OFF]**.

- **[D]** on the main monitor station goes off even if the unviewed images remain.

## Protecting the recorded images

You can protect up to 20 recorded images that you do not want to erase while viewing images.

**1** While “PROTECT” is displayed on the monitor display, press **[D]**.

- “**○**” appears on the display.

- To release protection, press **[D]** again. (“**○**” disappears)

**2** To end the operation, press **[OFF]**.

**Note:**

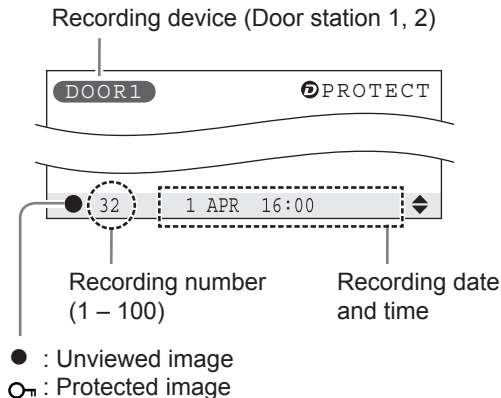
- If you protect one of a sequence of 4 continuously recorded images, the 4 images are protected as one set. This set of 4 images is counted as one image.



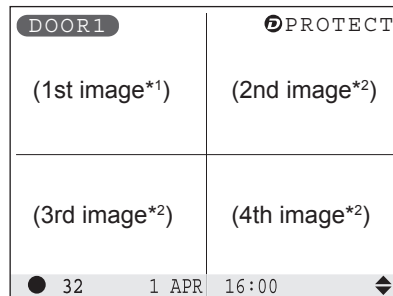
**Recorded images taken by the door station**

**Main monitor station**

■ When “DOOR STATION PICTURE REC NUMBER” is set to “1 PICTURE” (page 41) (default setting):



■ When “DOOR STATION PICTURE REC NUMBER” is set to “4 PICTURES” (page 41):

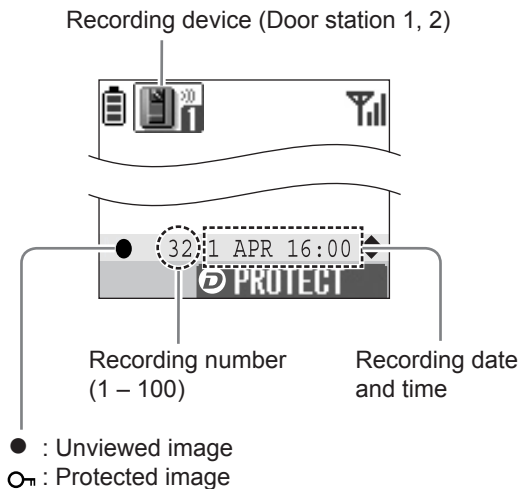


**Note:**

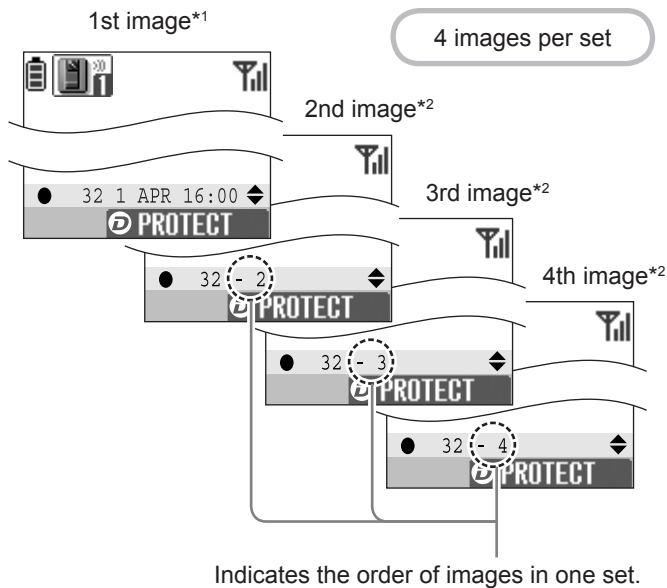
● If you could not record 4 images, only the recorded images are displayed and the others are displayed in black.

**Sub monitor station**

■ When “DOOR STATION PICTURE REC NUMBER” is set to “1 PICTURE” (page 41) (default setting):



■ When “DOOR STATION PICTURE REC NUMBER” is set to “4 PICTURES” (page 41):



**Note:**

● If you could not record 4 images, “SAVE INTERRUPTED NEXT PIC” is displayed when [▼] is pressed, and the next image appears.

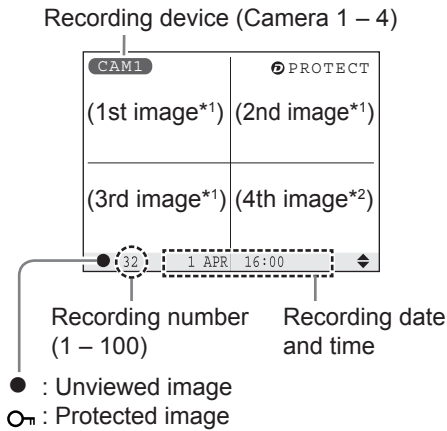
\*1 1st image recorded after 2 seconds when receiving a call

\*2 2nd – 4th images recorded at about a 3 second interval after recording the first image

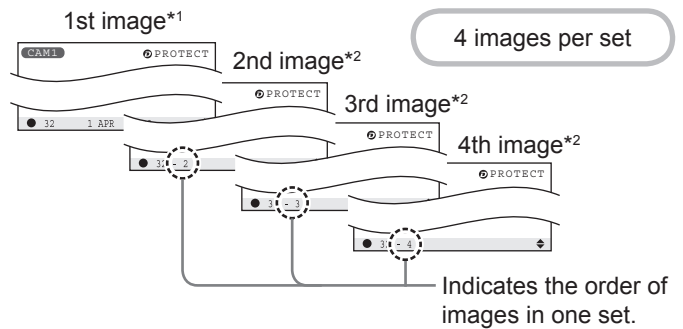
Recorded images taken by the camera

Main monitor station

■ When “NUMBER OF CAMERA PICTURES” is set to “4 PICTURES” (page 39) (default setting):



■ When “NUMBER OF CAMERA PICTURES” is set to “1 PICTURE” (page 39):



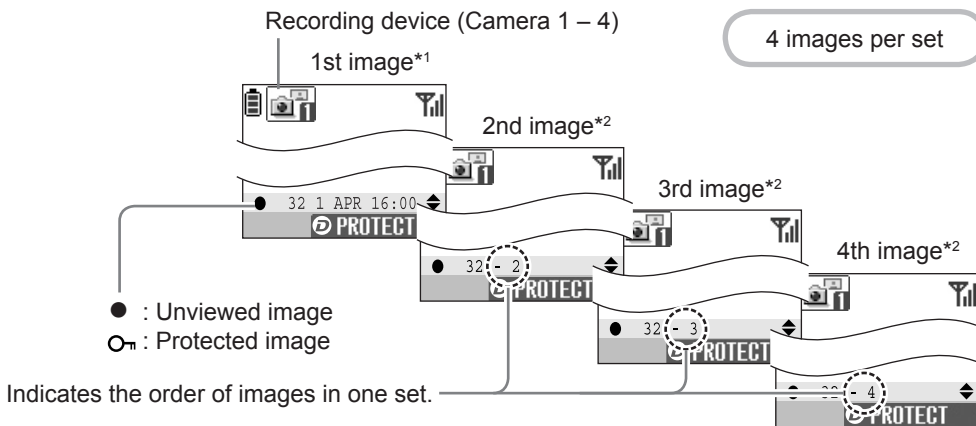
Note:

- If you could not record 4 images, only the recorded images are displayed and the others are displayed in black.

Note:

- If you could not record 4 images, “SAVE INTERRUPTED NEXT PICTURE” is displayed when [▼] is pressed, and the next image appears.

Sub monitor station



Note:

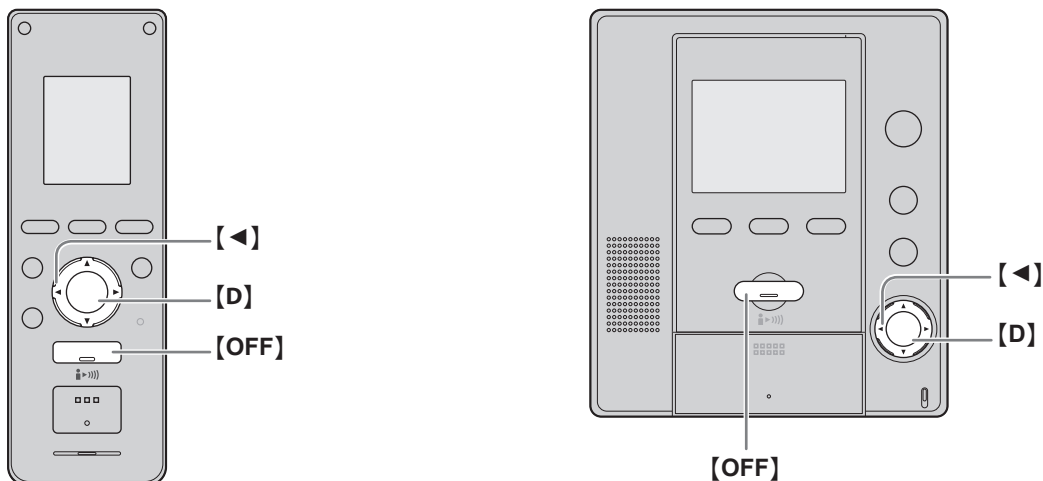
- If you could not record 4 images, “SAVE INTERRUPTED NEXT PIC” is displayed when [▼] is pressed, and the next image appears.

\*1 1st image recorded just after detection

\*2 2nd – 4th images recorded at about a 3 second interval after recording the first image

## Erasing an image

You can erase an unnecessary image. (You can operate this feature in the same way by using either the main monitor station or the sub monitor station.)



**1** While viewing the image, press and hold **[D]** for 2 seconds or more.

- To view the recorded images, see page 32.

(When erasing a single image:)



(When erasing 4 continuous images:)

(Sub monitor station)



(Main monitor station)



- If you erase one of 4 continuous images, all 4 images are erased together.

**2** Press **[◀]**.

- The image is erased, and the next image is displayed.

**3** To end the operation, press **[OFF]**.

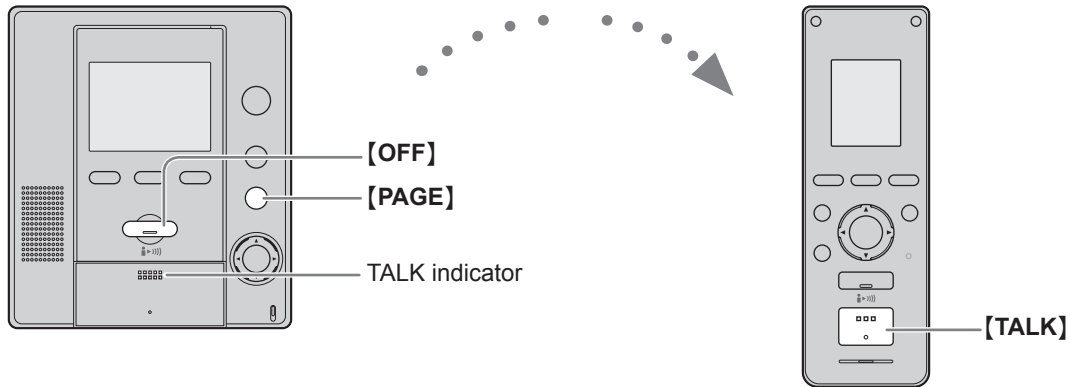
### Note:

- The image erased by using the sub monitor station is also erased from the main monitor station because the recorded images are stored in the main monitor station.
- If you try to erase the protected image, "PROTECTED PICTURE RELEASE PROTECTION" (main monitor station) or "PROTECTED PIC RELEASE PROTECTION" (sub monitor station) message appears. Release the protection setting beforehand (page 32).
- You can erase all images including unviewed images and protected images at once ("DELETE ALL PICTURES" on page 42).

## Talking between the main monitor station and the sub monitor station

Intercom calls between the main monitor station and the sub monitor station can be made. (The other party's image is not displayed.)

### Making an intercom call from the main monitor station



#### Caller (Main monitor station)

- 1 During standby, press **[PAGE]** and talk to the other party.
  - The TALK indicator lights up.
- 2 When the paged party answers the call, talk with the paged party.
- 3 To end the intercom call, press **[OFF]**.
  - The intercom call is disconnected.



#### Receiver (Sub monitor station)

- 1 When the paging call is heard, press **[TALK]**.
- 2 Talk with the other party.

#### Note:

- An intercom call will automatically end in about 90 seconds.
- When using multiple sub monitor stations, all sub monitor stations are paged in step 1.

#### When receiving a call from the door station or the camera (optional) during an intercom call:

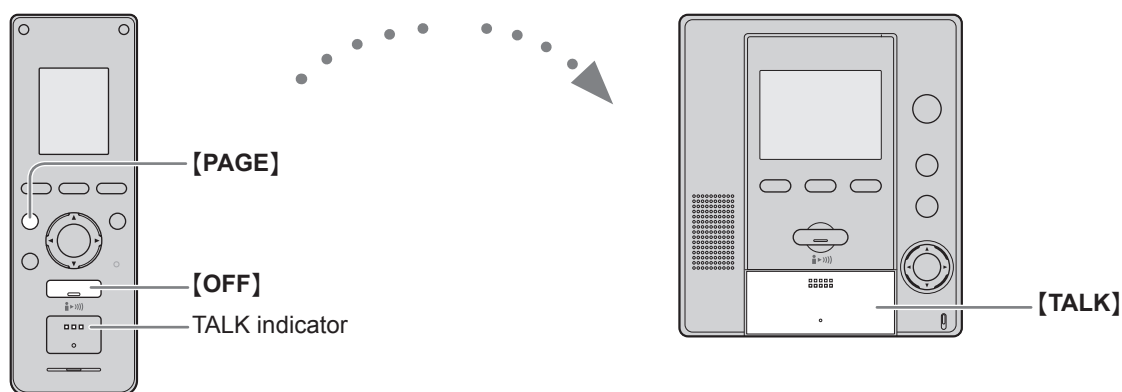
- ① Press **[OFF]** to end the intercom call.
- ② Answer the call (when received from the door station, see page 21, or when received from the camera, see page 28).

#### When using multiple sub monitor stations, you can page them individually from the main monitor station.

This feature must be set beforehand ("PAGE" on page 39).

- ① Press **[PAGE]**, and then select the desired sub monitor station by pressing **[▼]** or **[▲]**.
- ② Press **[D]** and talk to the paged party.
  - Only paged party can hear the paging call.
- ③ When the paged party answers, talk with the paged party.

## Making an intercom call from the sub monitor station



### Caller (Sub monitor station)



### Receiver

(Main monitor station or another sub monitor station)

- 1 During standby, press **[PAGE]** and talk to the paged party.
  - The TALK indicator lights up.
- 2 When the paged party answers the call, talk with the paged party.
- 3 To end the intercom call, press **[OFF]**.
  - The intercom call is disconnected.

#### Note:

- An intercom call will automatically end in about 90 seconds.
- When using multiple sub monitor stations, the main monitor station and all sub monitor stations are paged in step 1.

#### When receiving a call from the door station or the camera (optional) during an intercom call:

- ① Press **[OFF]** to end the intercom call.
- ② Answer the call (when received from the door station, see page 21, when received from the camera, see page 28).

#### When using multiple sub monitor stations, you can page them individually from the sub monitor station.

This feature must be set beforehand ("PAGE" on page 39).

- ① Press **[PAGE]**, and then select the desired destination by pressing **[▼]** or **[▲]**.
- ② Press **[D]** and talk to the paged party.
  - Only paged party can hear the paging call.
- ③ When the paged party answers, talk with the paged party.

## Changing the function settings (Function list)

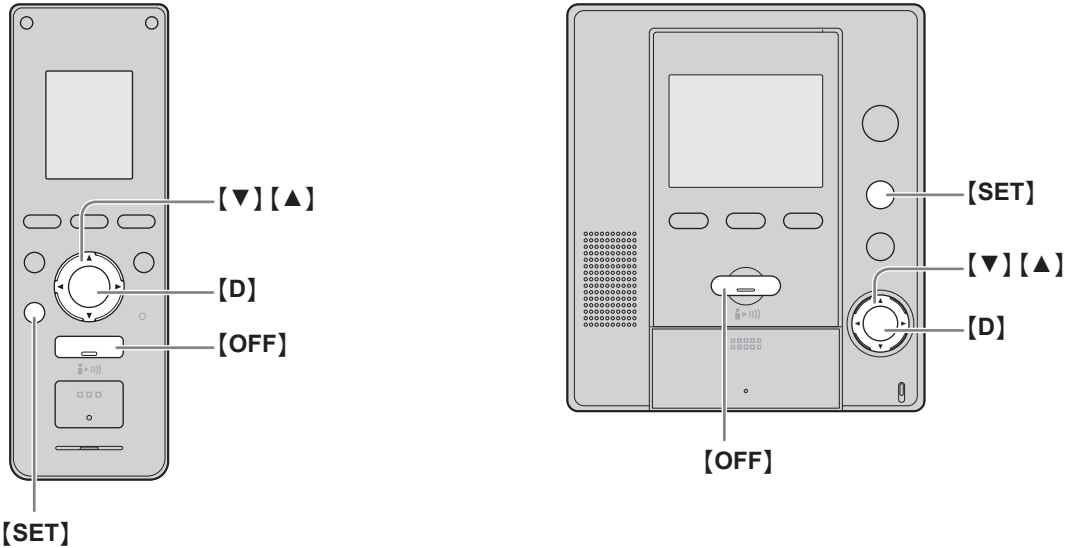
### Changing the settings

You can change and set the functions of "MAIN MONITOR STATION", "SUB", "CAMERA" and "OTHER".

Use the main monitor station to change the settings of "MAIN MONITOR STATION" and "OTHER", and use the sub monitor station to change the settings of "SUB".

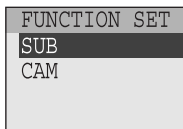
Use the main monitor station or the sub monitor station to change the settings of "CAMERA".

- When receiving a call while setting or no operation is done for about 90 seconds, the setting function screen automatically quits.

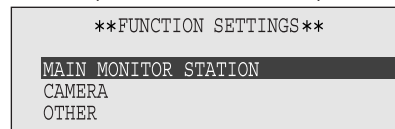


- 1 During standby, press and hold [SET] for about 3 seconds.

(Sub monitor station)



(Main monitor station)



- 2 Select the desired item to change the settings (SUB/CAMERA/MAIN MONITOR STATION/OTHER) by pressing [▼] or [▲], and press [D].

■ When you select "CAMERA" (main monitor station) or "CAM" (sub monitor station):

Select the desired number of the camera by pressing [▼] or [▲], and press [D].

- 3 Select the desired function by pressing [▼] or [▲], and press [D].

- 4 Select the desired setting by pressing [▼] or [▲], and press [D].

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

- 5 To end the setting, press [OFF].

## Functions of the main monitor station

The functions listed below can be set when selecting "MAIN MONITOR STATION" in step 2 on page 38. The default setting is indicated in bolds.

Functions	Contents
VOICE ANSWER	You can answer a call from the door station or the sub monitor station by answering with a clear voice such as "Yes" or "Hello" unless you press <b>[TALK]</b> . (This function is not work for the calls from the camera.) ON, <b>OFF</b> <ul style="list-style-type: none"> <li>•To answer a call by voice, see page 22.</li> <li>•Even if "ON" is selected, you can answer a call by pressing <b>[TALK]</b>.</li> </ul>
PAGE	To page all sub monitor stations, select "ALL STATIONS". To page all or each sub monitor station, select "ALL/EACH STATIONS". <b>ALL STATIONS, ALL/EACH STATIONS</b>
VOICE CHANGER	You can select the tone for voice changer. <b>NORMAL, LOW</b>
DISPLAY RECORDING DATE	You can set the recording time and date to be displayed while viewing the recorded image. <b>ALWAYS, 3 SEC</b>
FLASHING PLAY BUTTON (Flashing <b>[D]</b> button)	You can make the <b>[D]</b> button on the main monitor station flash when the unviewed images taken by the door station or the camera remain. OFF (Not flash), DOOR STATION, CAMERA, <b>DOOR STATION/CAMERA</b> <ul style="list-style-type: none"> <li>•"DOOR STATION": Flashes only when the unviewed images taken by the door station remain.</li> <li>•"CAMERA": Flashes only when the unviewed images taken by the camera remain.</li> <li>•"DOOR STATION/CAMERA": Flashes when the unviewed images taken by the door station or the camera remain.</li> </ul>
NUMBER OF CAMERA PICTURES	You can select the display type (1 picture or 4 pictures) of the images taken by the camera or the recorded image. 1 PICTURE, <b>4 PICTURES</b>

## Functions of the sub monitor station

The functions listed below can be set when selecting "SUB" in step 2 on page 38. The default setting is indicated in bolds.

Functions	Contents
VOICE ANSWER	You can answer a call from the door station the main monitor station or the sub monitor station by answering with a clear voice such as "Yes" or "Hello" unless you press <b>[TALK]</b> . (This function is not work for the calls from the camera.) ON, <b>OFF</b> <ul style="list-style-type: none"> <li>•To answer a call by voice, see page 22.</li> <li>•Even if "ON" is selected, you can answer a call by pressing <b>[TALK]</b>.</li> </ul>
PAGE	To page the main monitor station and all sub monitor stations, select "ALL". To page the main monitor station or page all or each sub monitor station, select "ALL/EACH". <b>ALL, ALL/EACH</b>
VOICE CHANGER	You can select the tone for voice changer. <b>NORMAL, LOW</b>
DISP REC DATE	You can set the recording time and date to be displayed while viewing the recorded image. <b>ALWAYS, 3 SEC</b>
CONTRAST	When it is difficult to see the monitor display of the sub monitor station, you can adjust the display contrast. 5 levels are available. Level 1 – 5 ( <b>Level 3</b> )
INIT SETTINGS	This feature resets all settings of the sub monitor station to their default settings. YES, NO

**Functions of the camera (optional)**

The functions listed below can be set when selecting “CAMERA” (main monitor station) or “CAM” (sub monitor station) in step 2 on page 38. You can set the functions of the camera 1 – 4 separately.

The default setting is indicated in bolds.

[ ]: Function names when using the sub monitor station.

<b>Functions</b>	<b>Contents</b>
CAMERA RINGER [CAM RINGER]	You can select the ringer pattern that is heard from the camera when the sensor detects motion. <b>TONE A, TONE B, TONE C, TONE D</b> ●To confirm the ringer pattern, press [▶] while selecting the desired tone.
CAMERA RINGER VOLUME [CAM RINGER VOL]	You can select the volume of the camera ringer heard when the sensor detects motion. HIGH, <b>MEDIUM</b> , LOW, OFF
SENSOR TYPE [SENSOR TYPE]	You can select the sensor type (INTERNAL/EXTERNAL/OFF), the interval for detecting motion (60 SEC/20 SEC/ALWAYS) and the activation of the auto recording feature (ON/OFF). <b>INTERNAL (60 SEC AUTO REC ON)</b> <b>[IN / 60 SEC AUTO REC ON],</b> INTERNAL (60 SEC AUTO REC OFF)                      [IN / 60 SEC AUTO REC OFF], INTERNAL (20 SEC AUTO REC ON)                      [IN / 20 SEC AUTO REC ON], INTERNAL (20 SEC AUTO REC OFF)                      [IN / 20 SEC AUTO REC OFF], EXTERNAL (60 SEC AUTO REC ON)                      [EXT / 60 SEC AUTO REC ON], EXTERNAL (60 SEC AUTO REC OFF)                      [EXT / 60 SEC AUTO REC OFF], EXTERNAL (20 SEC AUTO REC ON)                      [EXT / 20 SEC AUTO REC ON], EXTERNAL (20 SEC AUTO REC OFF)                      [EXT / 20 SEC AUTO REC OFF], EXTERNAL (ALWAYS / AUTO REC OFF)                      [EXT / ALWAYS AUTO REC OFF], OFF [OFF] ●When using a device connected to the external sensor terminal, select “EXTERNAL”.
INTERNAL SENSOR SENSITIVITY [IN SENSOR SENSITIVITY]	You can select the sensitivity of the sensor. (For information about the sensor, refer to the Operating Instructions included with the camera.) <b>NORMAL</b> , LOW ●The front detection distance is about 5 m when “NORMAL” is selected, and about 2 m when “LOW” is selected. (Surrounding temperature: Approx. 20 °C) ●When the sensor detects motion excessively, select “LOW”.
CAMERA MIC SENSITIVITY [MIC SENSITIVITY]	You can select the microphone sensitivity of the camera. HIGH, <b>MEDIUM</b> , LOW, OFF ●When “OFF” is selected, you cannot hear the sound from the camera.
CAMERA RECEIVER VOLUME [CAM RECEIVER VOL]	You can select the speaker volume heard from the camera during the conversation with a main monitor station user or sub monitor station user. <b>HIGH</b> , MEDIUM, LOW
IN USE INDICATOR [IN USE INDICATOR]	Select “ALWAYS” to turn on the IN USE indicator on the camera at all times, “WHEN CONNECTED” (main monitor station) or “CONNECTED” (sub monitor station) to turn on the indicator only when the camera is in use, or “OFF” to turn off the indicator at all times. <b>ALWAYS</b> , WHEN CONNECTED [CONNECTED], OFF
ZOOM [ZOOM]	You can select whether the image from the camera is zooming in or not. <b>NORMAL</b> , ENLARGE (Approx. 1.6 x zoom)
EXPOSURE [EXPOSURE]	The image quality is adjusted according to the exposure setting when the camera is in dark environments. You can select the following exposure levels. (Darker) -3, -2, -1, 0 ( <b>NORMAL</b> ), +1, +2, +3 (Brighter)
REVERSE PICTURES [REVERSE PICS]	You can select whether the image from the camera is upside down or not. YES, <b>NO</b>
INITIALIZATION SETTINGS [INIT SETTINGS]	This feature resets all settings of the camera to their default settings. YES, NO



## Other functions

The functions listed below can be set when selecting "OTHER" in step 2 on page 38.  
The default setting is indicated in bolds.

Functions	Contents
TIME AND DATE	You can set the current date and time (page 20).
RINGER TONE	You can select the ringer pattern that is heard from the main monitor station and the sub monitor station (page 43). DOOR STATION 1: <b>TONE 1</b> , TONE 2, TONE 3 DOOR STATION 2: TONE 1, <b>TONE 2</b> , TONE 3 CAMERA 1 – 4: <b>TONE A</b> , TONE B, TONE C, TONE D (You can select the tone for each extended cameras separately.) ● To confirm the ringer pattern, press <b>[▶]</b> while selecting the desired tone.
RINGER SELECTION	This function prevents the main monitor station or the specified sub monitor station from receiving calls from the door station or the camera (optional) (page 45). DOOR STATION 1: <b>ON</b> , OFF DOOR STATION 2: <b>ON</b> , OFF CAMERA 1 – 4: <b>ON</b> , OFF (You can select the setting for each camera separately.) ● Select "OFF" for the door station or the camera from which you do not want to receive calls.
CONTACT CLOSURE SELECTION	You can select whether the device connected to the K1/K2 terminal on the main monitor station functions or not when calls from the door station or the camera (optional) are received (page 47). DOOR STATION 1: <b>ON</b> , OFF DOOR STATION 2: <b>ON</b> , OFF CAMERA 1 – 4: <b>ON</b> , OFF (You can select the setting for each camera separately.) ● Select "OFF" for the door station or the camera with which you want to cut-off from call functions.
EXTERNAL DEVICE	It is unnecessary to change this setting. If you change the setting, the unit may not work properly. <b>1 TERMINAL-2 SIGNALS</b> , 2 TERMINALS-1 SIGNAL
DOOR STATION CONNECTION	You can select the setting of the door station. DOOR STATION 1: <b>YES</b> , NO DOOR STATION 2: <b>YES</b> , NO ● Select "NO" for the door station that is not in use.
DOOR KEY	You can select how long the door is open when the door opener (sold separately) is connected to the main monitor station (page 46). 2 SEC OPEN, 3 SEC OPEN, 4 SEC OPEN, <b>5 SEC OPEN</b> , 6 SEC OPEN, 7 SEC OPEN, NOT CONNECT
DOOR STATION AUTO RECORDING	When receiving calls from the door station, images are automatically recorded. DOOR STATION 1: <b>ON</b> , OFF DOOR STATION 2: <b>ON</b> , OFF
PICTURE RECORD ALLOCATION	You can divide the recordable number (up to 100 images) into 2 parts, one for the images from the door station and the other for the images from the camera (optional). <b>YES, NO</b> ● When "YES" is selected up to 30, images are recorded from the door station and up to 70 images are recorded from the camera (optional).
DOOR STATION PICTURE REC NUMBER	You can select the number of images to be recorded when receiving a call from the door station. (You cannot select the setting for door stations 1 or 2 separately.) <b>1 PICTURE</b> , 4 PICTURES ● When "4 PICTURES" is selected, 4 images are recorded during auto recording or manual recording.
PICTURE RECORD TIMING	You can select the interval to automatically record images when receiving calls from the door station. (You cannot select the setting for door stations 1 or 2 separately.) <b>NORMAL</b> (about 2 seconds), DELAYED (about 3 seconds) ● Select "DELAYED" at night when the recorded images are difficult to see.

## Programming

Functions	Contents
REPEATER	<p>You can select which device is relayed by the optional repeater (up to 2 expandable units).</p> <p><b>REPEAT SUB MONITOR STATIONS</b>, REPEAT CAMERA 1, REPEAT CAMERA 2, REPEAT CAMERA 3, REPEAT CAMERA 4</p> <ul style="list-style-type: none"><li>● The devices that are not registered to the main monitor station are displayed in a light tone and you cannot select them.</li></ul>
DELETE ALL PICTURES	<p>You can erase all recorded images.</p> <p>YES, NO</p> <ul style="list-style-type: none"><li>● The protected images are also erased.</li></ul>
INITIALIZATION SETTINGS	<p>This function resets the settings of “MAIN MONITOR STATION” and “OTHER” to their default settings.</p> <p>YES, NO</p> <ul style="list-style-type: none"><li>● Recorded images are not erased.</li><li>● The protection setting for the image is not canceled.</li><li>● The setting of “REPEATER” is not reset.</li></ul>

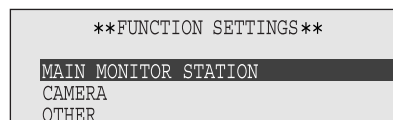
## Changing the ringer tone

You can change the ringer tone that is heard when receiving calls from the door station or the camera (optional).  
(The ringer tone of the paging call cannot be changed.)

You can perform this operation using the main monitor station.

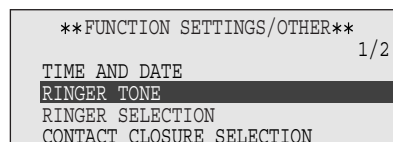
- The default settings are: Door station 1 “TONE 1”, Door station 2 “TONE 2”, Camera 1 – 4 “TONE A”

1 During standby, press and hold **[SET]** for about 3 seconds.

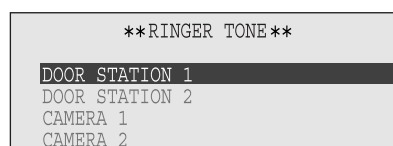


2 Select “OTHER” by pressing **[▼]** or **[▲]**.

3 Press **[D]** then select “RINGER TONE” by pressing **[▼]** or **[▲]**.

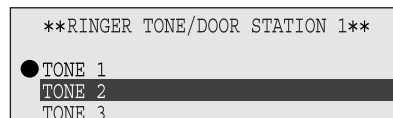


4 Press **[D]** then select the desired device to change by pressing **[▼]** or **[▲]**.



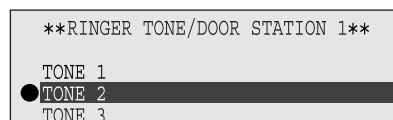
5 Press **[D]** then select the desired ringer tone by pressing **[▼]** or **[▲]**.

- Press **[▶]** to listen to the ringer tone.



6 Press **[D]**.

- “●” moves to the selected item.



↓  
(Returns to the display of step 4.)

7 To end the operation, press **[OFF]**.

## Adjusting the volume

### Ringer volume

You can change the volume of the ringer heard when receiving calls from the door station or the camera (optional) by using the main monitor station or the sub monitor station. (3 levels and "OFF" are available.)

■ **To adjust the ringer volume of the door station:**

During standby, press [▼] or [▲].

Each time you press [▼], the volume level decreases.

Each time you press [▲], the volume level increases.

- If you press and hold [▼] until 2 short beeps sound, the ringer volume is set to "OFF".

■ **To adjust the ringer volume of the camera:**

During standby, press [◀] or [▶].

Each time you press [◀], the volume level decreases.

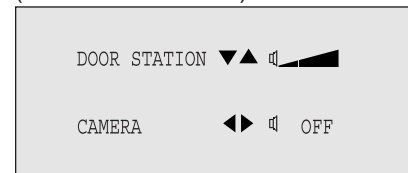
Each time you press [▶], the volume level increases.

- If you press and hold [◀] until 2 short beeps sound, the ringer volume is set to "OFF".

(Sub monitor station)



(Main monitor station)



### Speaker volume

You can change the speaker volume of the main monitor station or the sub monitor station. (3 levels are available.)

During a call or while monitoring, press [▼] or [▲].

Each time you press [▼], the volume level decreases.

Each time you press [▲], the volume level increases.

**Note:**

- The ringer of the paging call sounds at the current speaker volume.

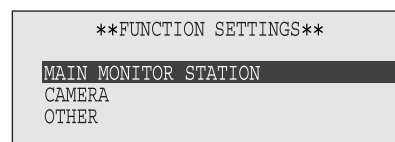
## Assigning the door station or the camera to receive calls (RINGER SELECTION)

When you do not want the main monitor station or sub monitor station to receive calls from a certain door station or camera (optional), set that door station or camera to "OFF".

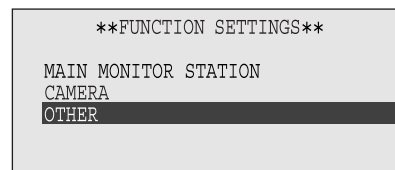
You can perform this operation using the main monitor station.

- The default setting is "ON" for all devices.
- The specified main monitor station or sub monitor station does not receive calls from the device that is set to "OFF".

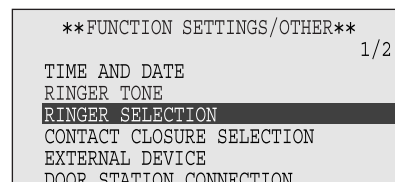
1 During standby, press and hold **[SET]** for about 3 seconds.



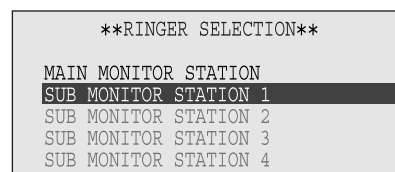
2 Select "OTHER" by pressing **[▼]** or **[▲]**.



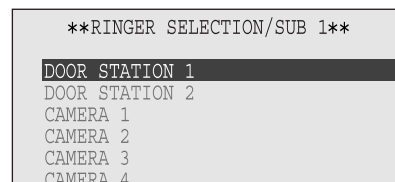
3 Press **[D]** then select "RINGER SELECTION" by pressing **[▼]** or **[▲]**.



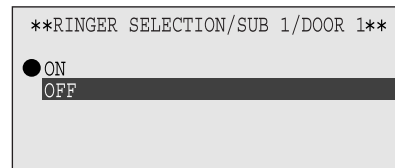
4 Press **[D]** then select the main monitor station or the desired sub monitor station by pressing **[▼]** or **[▲]**.



5 Press **[D]** then select the desired device by pressing **[▼]** or **[▲]**.

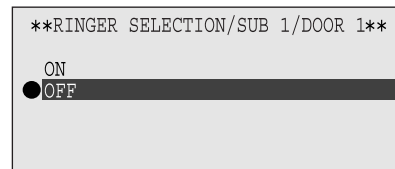


6 Press **[D]** then select "ON" or "OFF" by pressing **[▼]** or **[▲]**.



7 Press **[D]**.

- "●" moves to the selected item.



↓  
(Returns to the display of step 5.)

8 To end the operation, press **[OFF]**.

### Note:

- This function does not work when another call is received during a call or while monitoring. (Calls from door stations or cameras set to "OFF" are received.)

## Using [DOOR KEY] button

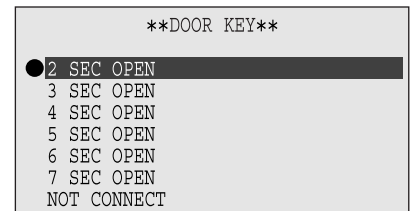
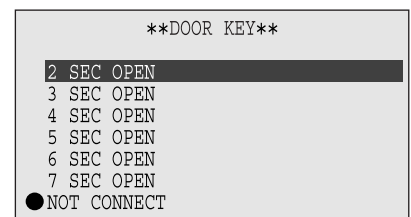
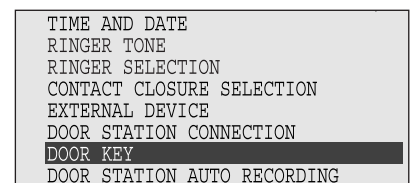
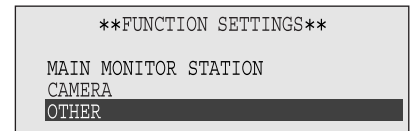
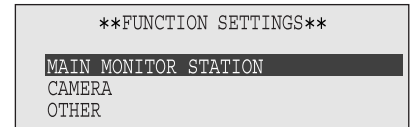
### Setting [DOOR KEY] button

When a separate door opener is connected to the main monitor station, you can open the door using the main monitor station or the sub monitor station. You can also select how long the door remains open. If you do not use the door opener, select "NOT CONNECT".

You can perform this operation using the main monitor station.

- The default setting is "5 SEC OPEN".

- 1 During standby, press and hold [SET] for about 3 seconds.
- 2 Select "OTHER" by pressing [▼] or [▲].
- 3 Press [D] then select "DOOR KEY" by pressing [▼] or [▲].
- 4 Press [D] then select the desired item by pressing [▼] or [▲].
- 5 Press [D].
  - "●" moves to the selected item.



↓  
(Returns to the display of step 3.)

- 6 To end the operation, press [OFF].

### Using [DOOR KEY] button

You can perform the operation using the main monitor station or the sub monitor station.

- 1 To open the door, press [DOOR KEY] while receiving a call from the door station, monitoring image taken by the door station, talking to the main monitor station from the door station.
  - Door opener allows you to open the door for the time specified in step 4 of the section "Setting [DOOR KEY] button".
  - When you operate on the sub monitor station, you cannot open the door while receiving a call from the door station.
  - When the door is opened, "🔓" is displayed on the sub monitor station (When you operate on the sub monitor station), and the [DOOR KEY] on the main monitor station lights up (When you operate on the main monitor station).

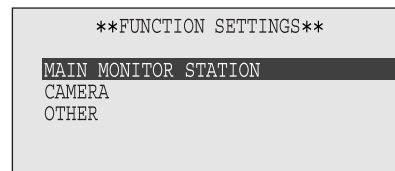
## Setting the contact closure (CONTACT CLOSURE SELECTION)

If a device is connected to the K1/K2 terminal of the main monitor station (For information about the K1/K2 terminal, refer to page 5 on the Installation Guide), it is also able to receive calls from the door station or the camera (optional). You can specify the door station or camera from which the device can receive calls.

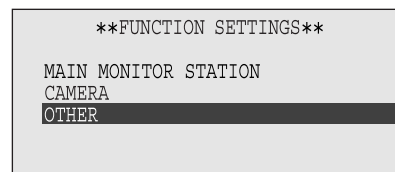
You can perform this operation using the main monitor station.

- The default setting is “ON” for all devices.
- The device does not receive calls from door stations or cameras that are set to “OFF”.

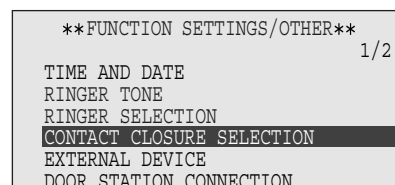
1 During standby, press and hold **[SET]** for about 3 seconds.



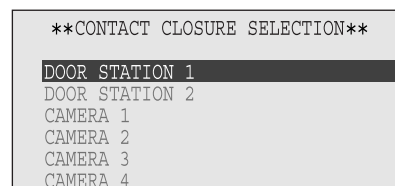
2 Select “OTHER” by pressing **[▼]** or **[▲]**.



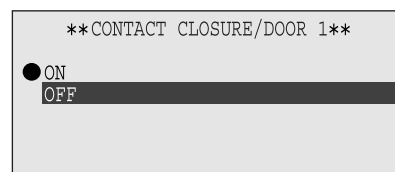
3 Press **[D]** then select “CONTACT CLOSURE SELECTION” by pressing **[▼]** or **[▲]**.



4 Press **[D]** then select the desired device by pressing **[▼]** or **[▲]**.

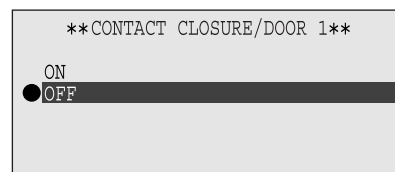


5 Press **[D]** then select “ON” or “OFF” by pressing **[▼]** or **[▲]**.



6 Press **[D]**.

- “●” moves to the selected item.



↓  
(Returns to the display of step 4.)

7 To end the operation, press **[OFF]**.

## Expanding your system with optional units

You can expand your system with the following optional units ("Accessory items" on page 8). For installing or using the optional units, refer to their separate Operating Instructions. For wiring between the optional units and the main monitor station, refer to the Installation Guide included separately.

### System components (as of May 2006)

#### Units required to be registered to the main monitor station

##### Adding a sub monitor station:

Wireless monitor (up to 3 additional units) (page 50)

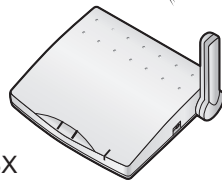
VL-W600BX



##### Expanding the range of the system (radio wave range):

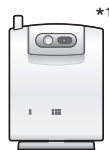
Repeater (up to 2 units) (page 54)

VL-FAN1BX



##### Monitoring other room:

Wireless camera \*1 (up to 4 units) (page 52)



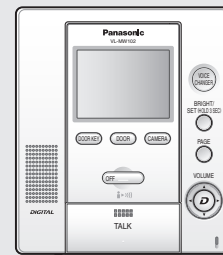
#### Wireless video intercom system

Sub monitor station

Door station



Main monitor station



#### Units required to be installed

##### Using with Panasonic digital cordless phone:

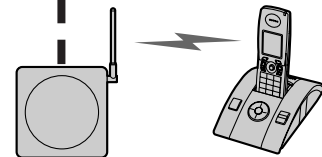
Connecting to a DECT adaptor allows you to answer calls from the door stations using a Panasonic digital cordless phone.

\*3 Voice only

\*4 As of May, 2006

##### When using two door stations:

From the digital cordless phone via the DECT adaptor, you can call up the only one door station that has received the last incoming call or has talked with.



DECT adaptor VL-GD001CE\*3  
Digital cordless phone KX-TG1895BX\*4  
VL-GD001E

\*1 Only available for certain countries. Please contact the dealer where you purchased the Wireless Video Intercom System.

\*2 While the sub monitor stations are registered to the repeater, you cannot register more than one camera to the repeater at the same time. If you want to register more than one camera at the same time to the repeater while the sub monitor stations are registered to the repeater, please install another repeater for each camera.



### Units required to be installed

#### Adding a door station: \*1

Door station (limited to one additional unit)  
(page 8)



#### Operating the door opener:

Door opener

Connecting to a door opener allows you to open the door using the **[DOOR KEY]** on the main monitor station or the sub monitor station (page 46).

#### Using with Panasonic PBX:

Connecting to a PBX allows you to answer calls from the door station using additional machines (extensions).  
**Please use only a Panasonic PBX (page 8).**

PBX

Terminal box

#### Note:

- If you answer a call from the door station with a PBX extension, the camera image taken by the door station will be displayed at the main monitor station. The display will turn off when the conversation ends. If the main monitor station user or sub monitor station user tries to answer the call, a beep will sound.
- If you answer a call from the door station with the main monitor station or the sub monitor station, the call will continue to ring at the extension for about 15 to 30 seconds. Even if extension user wants to answer the call while the call is ringing, extension user cannot participate in the call.

#### When using two door stations:

From the PBX extension, you can call up the only one door station that has received the last incoming call or has talked with.

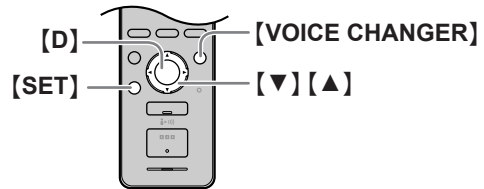
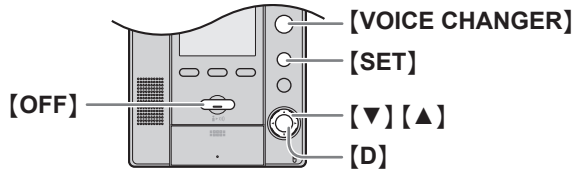
## Adding a sub monitor station (REGISTRATION/CANCELLATION)

You can add another 3 optional sub monitor stations (page 8).

Registration to the main monitor station (extension) is required. Charge the sub monitor station to be registered for about 5 minutes before registration.

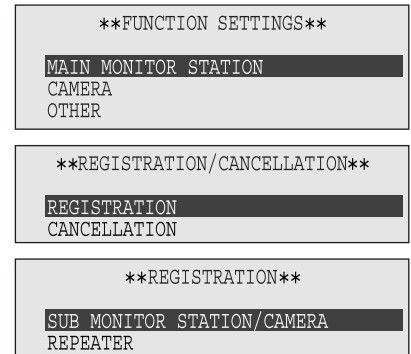
### Registering the sub monitor station to the main monitor station (REGISTRATION)

Place the sub monitor station to be registered near the main monitor station and then operate the sub monitor station within 2 minutes in succession to the operations of the main monitor station.



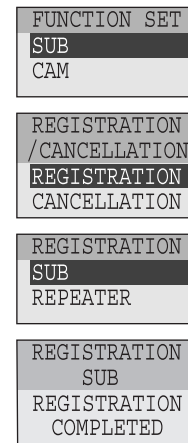
#### Operations of the main monitor station:

- 1 During standby, press and hold **[SET]** for about 3 seconds.
- 2 Press **[VOICE CHANGER]** 3 times then select "REGISTRATION" by pressing **[▼]** or **[▲]**.
- 3 Press **[D]** then select "SUB MONITOR STATION/CAMERA" by pressing **[▼]** or **[▲]**.
- 4 Press **[D]**.



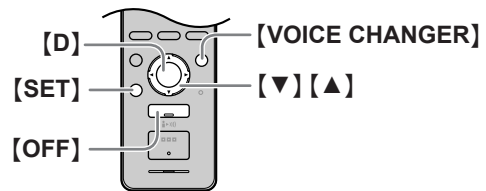
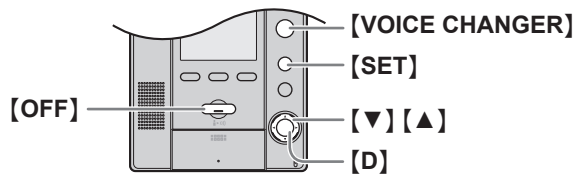
#### Operations of the sub monitor station to be registered:

- 5 Press and hold **[SET]** for about 3 seconds.
- 6 Press **[VOICE CHANGER]** 3 times then select "REGISTRATION" by pressing **[▼]** or **[▲]**.
- 7 Press **[D]** then select "SUB" by pressing **[▼]** or **[▲]**.
- 8 Press **[D]**.
- 9 To end the operation, press **[OFF]** on the main monitor station.

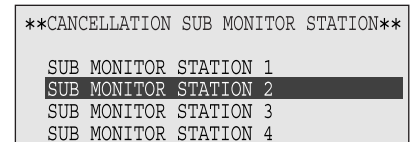
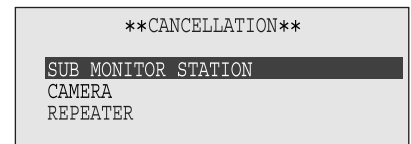
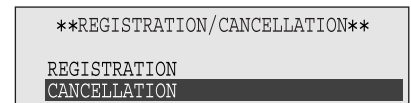
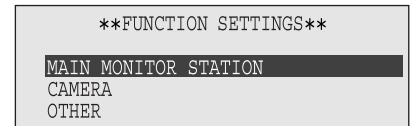


## Canceling the registration (CANCELLATION)

You can cancel the registration of a sub monitor station if you do not use it.  
You can operate this feature in the same way by using either the main monitor station or the sub monitor station.



- 1 During standby, press and hold **[SET]** for about 3 seconds.
- 2 Press **[VOICE CHANGER]** 3 times then select "CANCELLATION" by pressing **[▼]** or **[▲]**.
- 3 Press **[D]** then select "SUB MONITOR STATION" by pressing **[▼]** or **[▲]**.
- 4 Press **[D]** then select the sub monitor station to be canceled by pressing **[▼]** or **[▲]**.
- 5 Press **[D]**.
- 6 To end of the operation, press **[OFF]**.



### Important:

- Remove the battery from the canceled sub monitor station in order to avoid malfunction.

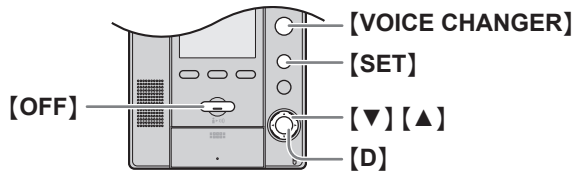
### Adding a camera (REGISTRATION/CANCELLATION)

You can add up to 4 optional cameras (page 8).

Perform the following operations to register the camera to the main monitor station, then install the camera according to the Operating Instructions included with the camera.

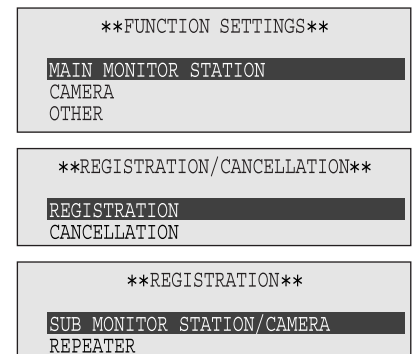
#### Registering the camera to the main monitor station (REGISTRATION)

Place the camera near the main monitor station and then operate the camera within 2 minutes in succession to the operations of the main monitor station.



#### Operations of the main monitor station:

- 1 During standby, press and hold **[SET]** for about 3 seconds.
- 2 Press **[VOICE CHANGER]** 3 times.
- 3 Select "REGISTRATION" by pressing **[▼]** or **[▲]**.
- 4 Press **[D]** then select "SUB MONITOR STATION/CAMERA" by pressing **[▼]** or **[▲]**.
- 5 Press **[D]**.



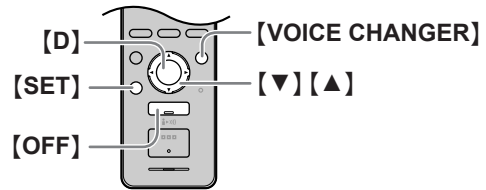
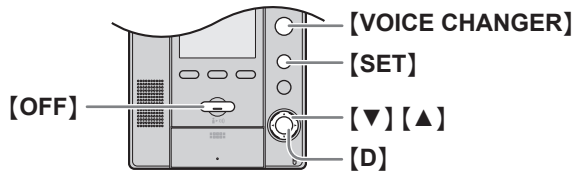
#### Operations of the camera to be registered:

- 6 Perform the operations following the Operating Instructions included with the camera.

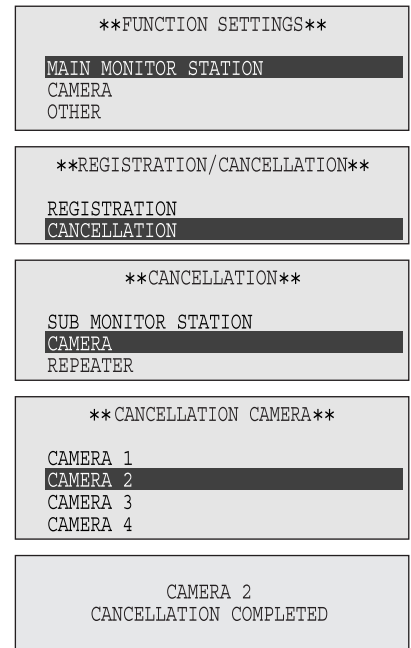
## Canceling the registration (CANCELLATION)

You can cancel the registration of a camera if you do not use it.

You can operate this feature in the same way by using either the main monitor station or the sub monitor station.



- 1 During standby, press and hold **[SET]** for about 3 seconds.
- 2 Press **[VOICE CHANGER]** 3 times then select "CANCELLATION" by pressing **[▼]** or **[▲]**.
- 3 Press **[D]** then select "CAMERA" (main monitor station) or "CAM" (sub monitor station) by pressing **[▼]** or **[▲]**.
- 4 Press **[D]** then select the camera to be canceled by pressing **[▼]** or **[▲]**.
- 5 Press **[D]**.
- 6 To end the operation, press **[OFF]**.



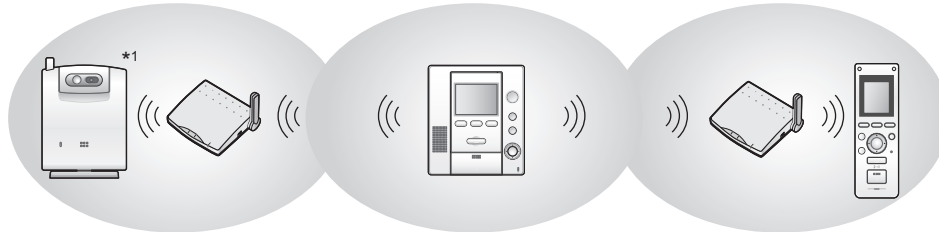
### Important:

- Turn off the power of the canceled camera in order to avoid malfunction.

## Setting a repeater (REGISTRATION/CANCELLATION)

You can set up to 2 optional repeaters (page 8).

- One repeater can relay radio waves between the main monitor station and multiple sub monitor stations.
- One repeater cannot relay radio waves between the main monitor station and multiple cameras.\*1
- If you set a repeater between the main monitor station and sub monitor stations or camera located at a distance, the repeater expands the radio wave range and may improve image distortion and/or sound cutting in and out.



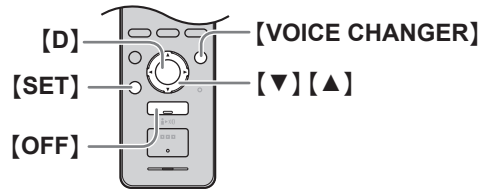
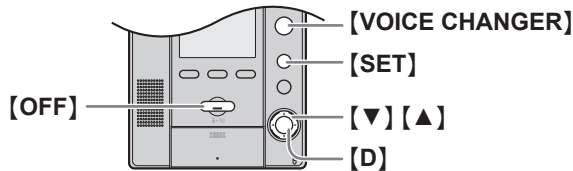
Perform the following operations to register the repeater to the main monitor station, then install the repeater according to the Operating Instructions included with the repeater.

\*1 Only available for certain countries. Please contact the dealer where you purchased the Wireless Video Intercom System.

### Registering the repeater to the main monitor station (REGISTRATION)

Place the repeater near the main monitor station and then operate the repeater within 2 minutes in succession to the operations of the main monitor station or the sub monitor station.

You can operate this feature in the same way by using either the main monitor station or the sub monitor station.



#### Operations of the main monitor station or the sub monitor station:

- 1 During standby, press and hold **[SET]** for about 3 seconds.
- 2 Press **[VOICE CHANGER]** 3 times then select "REGISTRATION" by pressing **[▼]** or **[▲]**.
- 3 Press **[D]** then select "REPEATER" by pressing **[▼]** or **[▲]**.
- 4 Press **[D]** then select the repeater to be registered by pressing **[▼]** or **[▲]**.
- 5 Press **[D]** then select the device to be relayed to by pressing **[▼]** or **[▲]**.
  - The device to be relayed to can be changed later ("REPEATER" on page 42).
- 6 Press **[D]**.

**FUNCTION SETTINGS** MAIN MONITOR STATION CAMERA OTHER
**REGISTRATION/CANCELLATION** REGISTRATION CANCELLATION
**REGISTRATION** SUB MONITOR STATION/CAMERA REPEATER
**REGISTRATION REPEATER** REPEATER 1 REPEATER 2
**REGISTRATION REPEATER 1** REPEAT SUB MONITOR STATIONS REPEAT CAMERA 1 REPEAT CAMERA 2 REPEAT CAMERA 3 REPEAT CAMERA 4
**REGISTRATION REPEATER 1** OPERATE REPEATER REPEAT SUB MONITOR STATIONS

**Operations of the repeater to be registered:**

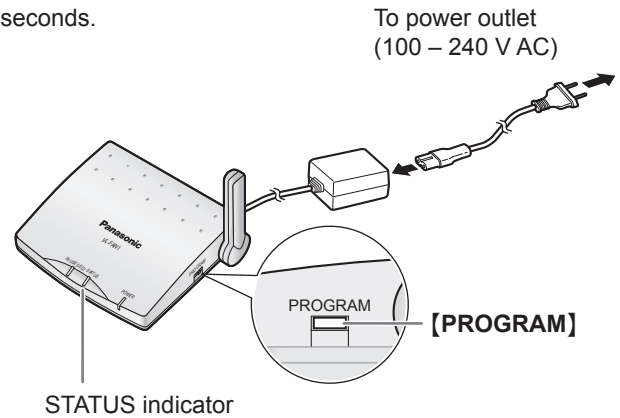
**7** While the power is on, press and hold **[PROGRAM]** for about 3 seconds.

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

**8** To end the operation, press **[OFF]** on the main monitor station or the sub monitor station.

**Important:**

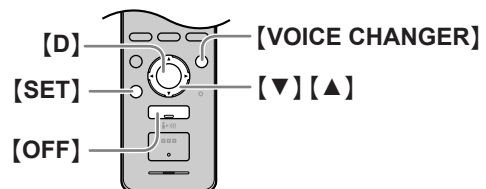
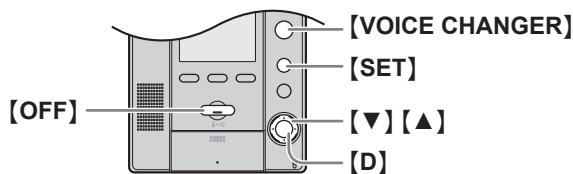
- If you register two repeaters, please separate them more than 3 meters to avoid electrical noise.



**Canceling the registration (CANCELLATION)**

You can cancel the registration of a repeater if you do not use it.

You can operate this feature in the same way by using either the main monitor station or the sub monitor station.



**1** During standby, press and hold **[SET]** for about 3 seconds.

**2** Press **[VOICE CHANGER]** 3 times then select "CANCELLATION" by pressing **[▼]** or **[▲]**.

**3** Press **[D]** then select "REPEATER" by pressing **[▼]** or **[▲]**.

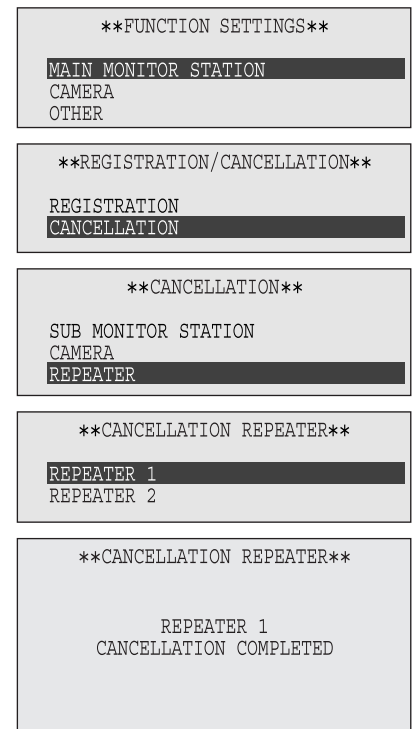
**4** Press **[D]** then select the repeater to be canceled by pressing **[▼]** or **[▲]**.

**5** Press **[D]**.

**6** To end the operation, press **[OFF]**.

**Important:**

- Turn off the power of the canceled repeater in order to avoid malfunction.




## Troubleshooting

### Images taken by the door station or the camera (optional)


Problem	Cause & Solution	Page
The image taken by the door station is displayed in black and white.	<ul style="list-style-type: none"> <li>● At night or when there is not enough lighting in the door way, the display will be shown in black and white. This is not a malfunction.</li> </ul>	—
The image is not clear or is blurry.	<ul style="list-style-type: none"> <li>● The surface or the lens of the door station or the camera is dirty. Clean it with a soft dry cloth.</li> <li>● The surface or the lens of the door station or the camera is wet with dew. Wait for the condensation to evaporate.</li> </ul>	59 —
The display is white or black.	<ul style="list-style-type: none"> <li>● Adjust the brightness of the display by pressing <b>[BRIGHT]</b>.</li> </ul>	11, 13
The image taken by the door station is white, or white lines are shown on the display.	<ul style="list-style-type: none"> <li>● Strong light such as sunlight is shining into the lens of the door station. Though this may cause the display image to become difficult to see, it is not a malfunction.</li> </ul>	—
The image taken by the camera is poor.	<ul style="list-style-type: none"> <li>● The place where the camera is located is dark.                             <ul style="list-style-type: none"> <li>– Improve lighting.</li> </ul> </li> </ul>	—
The image taken by the camera is dark and difficult to see.	<ul style="list-style-type: none"> <li>● When there is a strong sunlight or a backlight in the place where the camera is located, or when you monitor a black object, the image is dark.                             <ul style="list-style-type: none"> <li>– Move to a place where is poor at sunlight, or adjust the setting of “EXPOSURE”.</li> </ul> </li> </ul>	40
The brightness of the image taken by the camera is not properly adjusted.	<ul style="list-style-type: none"> <li>● The brightness of the place where the camera is located has changed rapidly. Wait for about 10 seconds until the brightness is automatically adjusted.</li> </ul>	—
The image displayed on the sub monitor station distorts or is displayed slowly. (It takes 5 seconds or more to be displayed.)	<ul style="list-style-type: none"> <li>● The sub monitor station or the camera is too far from the main monitor station. Move closer to the main monitor station. If you install a repeater (optional), the image may be improved.</li> <li>● There is an object such as a concrete wall obstructing the signal. Move to a place without an obstacle. If you install a repeater (optional), the image may be improved.</li> <li>● A microwave or wireless LAN appliance is in use. Move closer to the main monitor station or use a sub monitor station or camera located away from those appliances. Try again.</li> </ul>	54 54 —

### Recorded images (Main monitor station/Sub monitor station)



Problem	Cause & Solution	Page
I cannot protect an image.	<ul style="list-style-type: none"> <li>● The number of images you can protect has been exceeded. You can protect up to 20 images. Cancel another protection setting, then try again.                             <ul style="list-style-type: none"> <li>– Unprotected images will be overwritten by new images.</li> </ul> </li> </ul>	32
I cannot erase an image.	<ul style="list-style-type: none"> <li>● The image is protected. (“”) indicates a protected image.) Cancel the protection setting, then try again.</li> </ul>	32
The recorded image taken by the door station at night is dark.	<ul style="list-style-type: none"> <li>● It takes some time to display the image from the door station at night. Therefore, the auto recording may start before the image can be displayed. Change the setting of “PICTURE RECORD TIMING” to “DELAYED”.</li> </ul>	41
“--/--, --:--” is displayed for the recording date and time.	<ul style="list-style-type: none"> <li>● The date and time are not set. Set the current date and time.</li> </ul>	20



**Conversation**

Problem	Cause & Solution	Page
Sound cuts in/out or fades.	● The surroundings of the main monitor station, the sub monitor station, the door station or the camera are noisy. Try “Press-to-talk” mode.	22
	● The antenna on the sub monitor station is being covered with your hand. Do not cover it.	14
	● The sub monitor station or the camera is too far from the main monitor station. Move closer to the main monitor station. If you install a repeater (optional), the sound may be improved.	54
	● There is an object such as a concrete wall obstructing the signal. Move to a place without an obstacle. If you install a repeater (optional), the sound may be improved.	54
	● A microwave or wireless LAN appliance is in use. Move closer to the main monitor station or use a sub monitor station or camera located away from those appliances. Try again.	—
A howling noise interrupts the conversation.	● A howling noise may occur when you are too close to the other party. Move away from the other party.	—
Your voice cannot be heard by the outside visitor. (Visitor’s voice can be heard.)	● The “Press-to-talk” mode is activated. “P” is displayed on the main monitor station or “  ” is displayed on the sub monitor station. Only while pressing <b>[TALK]</b> , the outside visitor can hear your voice.	22
Voice answer mode does not operate properly.	● Your voice is not loud enough or your initial reply is too long (must be less than 1 second). Try a different voice volume or change the length of your answer until the main monitor station or the sub monitor station beeps.	22

**Sub monitor station/Battery**

Problem	Cause & Solution	Page
“  ” flashes and 2 short beeps sound.	● The battery level is low. Charge the battery immediately.	18
Even if you place the sub monitor station on the charger, the CHARGE indicator does not light up.	● The AC adaptor is disconnected from the power outlet or the charger. Plug the AC adaptor into the power outlet or the charger firmly.	18
	● The sub monitor station is not placed on the charger correctly. Replace it securely. (A short beep sounds and the CHARGE indicator lights in solid red.)	18
	● The charge contacts are dirty. Clean them with a soft, dry cloth.	59
	● The battery is new or discharged. Place the sub monitor station on the charger and wait for about 60 seconds.	18
The CHARGE indicator does not go off after the battery has been charged for about 7 hours.	● When the power of the main monitor station is turned off or “OUT OF RANGE” is displayed on the sub monitor station, the charging time will become longer. Make sure the power of the main monitor station is turned on, and charge the sub monitor station in a location near the main monitor station where “OUT OF RANGE” disappears.	18
Even if the sub monitor station has been charged, “  ” flashes after using it a few times.	● The battery is at the end of its life. Replace the battery with a new one.	60
The sub monitor station or the charger is warm.	● This is normal. (It may feel a little warmer in summer than in winter.) If it feels very hot, disconnect the AC adapter from the power outlet and contact our service personnel.	—

Others

Problem	Cause & Solution	Page
The main monitor station does not work. <ul style="list-style-type: none"> <li>●The display monitor does not display anything.</li> <li>●The ringer tone does not sound.</li> <li>●No voices can be heard.</li> </ul>	<ul style="list-style-type: none"> <li>●The plug is disconnected from the power outlet, or it is about to be disconnected. Disconnect the plug, and connect it securely again. If this does not solve the problem, contact our service personnel.</li> <li>●If you are using your own power cable, contact our service personnel.</li> </ul>	— —
The display is black.	<ul style="list-style-type: none"> <li>●During standby, the display turns off. It turns on again when you press <b>[OFF]</b>.</li> <li>●The battery of the sub monitor station is discharged. Recharge it.</li> </ul>	— 18
The ringer tone for the door station or the camera (optional) does not sound.	<ul style="list-style-type: none"> <li>●The ringer volume is turned off. Press <b>[▲]</b> for the door station or press <b>[▶]</b> for the camera to turn it on.</li> <li>●“RINGER SELECTION” is set to “ON”. Confirm this function setting.</li> </ul>	44 45
<b>[D]</b> is flashing.	<ul style="list-style-type: none"> <li>●If an unviewed recorded image from the door station or the camera (optional) remains, <b>[D]</b> flashes. When you press <b>[D]</b> to view the image, it will go off.</li> </ul>	30, 32
The sensor of the camera (optional) does not respond at all or responds incorrectly.	<ul style="list-style-type: none"> <li>●The interval of detection is about 60 seconds at the default setting (“SENSOR TYPE”). The sensor does not detect motion for about 60 seconds after you answer a call from the camera.</li> <li>●“SENSOR TYPE” is set to “EXTERNAL” or “OFF”. Change the setting to “INTERNAL”.</li> <li>●When the camera is installed in the following locations, the sensor may not respond or respond incorrectly. <ul style="list-style-type: none"> <li>– Where direct sunlight shines on the camera.</li> <li>– Where temperature varies greatly, such as near an air conditioner or heater.</li> <li>– Where the camera is exposed to oil or steam such as in a kitchen.</li> <li>– Near any electrical appliance, such as a mobile phone, that emits a strong radio signal.</li> <li>– Where an object can cause temperature change due to reflection.</li> <li>– Where the surrounding temperature becomes high such as under incandescent lamps.</li> </ul> </li> <li>●The sensor may respond to wind from the outside, or the temperature change around the camera by opening/closing the door.</li> </ul>	40 — — —
The sensor of the camera (optional) has difficulty detecting motion, or detection range is small.	<ul style="list-style-type: none"> <li>●The sensor is dirty. Clean it with a soft, dry cloth.</li> <li>●“INTERNAL SENSOR SENSITIVITY” is set to “LOW”. Change the setting to “NORMAL”.</li> </ul>	— 40
The sensor of the camera (optional) responds but a person is not shown.	<ul style="list-style-type: none"> <li>●The camera cannot take a picture in the following cases: <ul style="list-style-type: none"> <li>– When a person moves near the boundary of the detection range.</li> <li>– When a person passes in front of the camera too slow or fast.</li> </ul>                     If you change the setting of “INTERNAL SENSOR SENSITIVITY” to “LOW”, the problem may be solved.                 </li> </ul>	40
I cannot connect the sub monitor station or the camera (optional).	<ul style="list-style-type: none"> <li>●The sub monitor station or the camera is too far from the main monitor station. Move closer to the main monitor station. If you install a repeater (optional), the problem may be solved.</li> <li>●There is an object such as a concrete wall obstructing the signal. Move to a place without an obstacle. If you install a repeater (optional), the problem may be solved.</li> <li>●A microwave or wireless LAN appliance is in use. Move closer to the main monitor station or use a sub monitor station or camera located away from those appliances. Try again.</li> </ul>	54 54 —

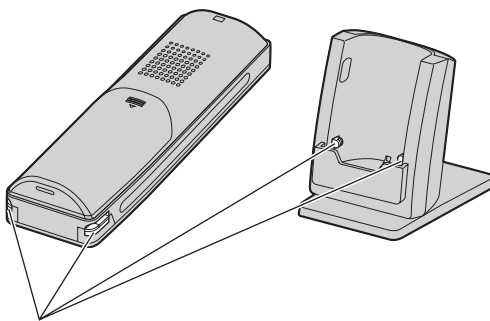
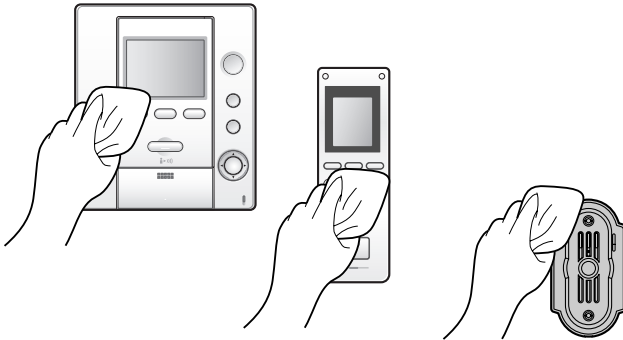
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## Cleaning

Clean the unit with a soft, dry cloth when cleaning. For excessive dirt, wipe the unit with a slightly damp cloth.

**Important:**

- When cleaning the unit, disconnect the plug or AC adaptor from the power outlet.
- Do not use anything containing alcohol, polish powder, powder soap, benzine, thinner, wax, petroleum, or boiling water. Also do not spray with insecticide, glass cleaner, or hair spray. This could cause a change in color or quality.




Clean the charge contacts with a soft, dry cloth once a month.

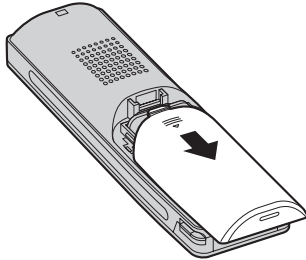
(If the charge contacts are dirty, charging time will become longer or the battery cannot be charged at all.)

## Battery replacement

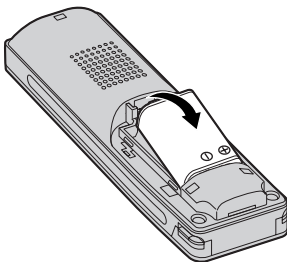
The battery is a consumable part.

When the battery level (  ) flashes after a few calls even if the battery has been charged for about 7 hours, replace the battery with a new one.

**1** Open the battery cover.



**2** Remove the old battery.



**3** Insert the new battery and charge it (step 1 and 4 on page 18).

**Important:**

- Use only the rechargeable Panasonic battery HHR-P103.
  - Battery specifications: Rechargeable nickel metal hydride (Ni-MH) battery (3.6 V DC, 650 mAh)

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## Technical data about this product

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### Main monitor station (VL-MW102BX)

<b>Power supply:</b>	220 – 240 V AC, 50 Hz
<b>Current consumption:</b>	Standby: Approx. 0.02 A During operation: Approx. 0.15 A
<b>Dimensions:</b>	Approx. height 188 mm x width 165 mm x depth 41.5 mm
<b>Mass (Weight):</b>	Approx. 760 g
<b>Operating environment:</b>	0 °C to 40 °C, Up to 90% RH (Relative Humidity) non condensing
<b>Installation method:</b>	Wall mount (Wall mount bracket included)
<b>External material:</b>	Flame retardant ABS resin (panel: acrylic resin)
<b>Frequency:</b>	2.402 GHz – 2.481 GHz

**Note:**

- Before connecting to a door opener, make sure the door opener is as follows:
  - S1/S2 terminal: Normally open/Actively short
  - Less than 30 V AC (1 A), 24 V DC (1 A)
  - S1/S2 terminal on the main monitor station is not the power supply to the door opener. If the door opener needs a power supply device to connect to the main monitor station, contact the dealer where you purchased the door opener.

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### Sub monitor station (VL-W600BX)

<b>Power supply:</b>	Ni-MH battery (3.6 V DC / 650 mAh)
<b>Dimensions:</b>	Approx. height 157 mm x width 52 mm x depth 35 mm
<b>Mass (Weight):</b>	Approx. 175 g
<b>Operating environment:</b>	0 °C to 40 °C, Up to 90% RH (Relative Humidity) non condensing
<b>External material:</b>	ABS resin
<b>Frequency:</b>	2.402 GHz – 2.481 GHz

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### Door station (VL-GC001BX-S)

<b>Dimensions:</b>	Approx. height 165 mm x width 90 mm x depth 35 mm
<b>Mass (Weight):</b>	Approx. 330 g
<b>Operating environment:</b>	-10 °C to 50 °C, Up to 90% RH (Relative Humidity) non condensing
<b>Installation method:</b>	Wall mount (Wall mount bracket included)
<b>External material:</b>	Aluminum

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### Charger

<b>Power supply:</b>	AC adaptor PQLV206BX (100 – 240 V AC, 50/60 Hz)
<b>Dimensions:</b>	Approx. height 115 mm x width 76 mm x depth 90 mm (using with the stand) Approx. height 105 mm x width 76 mm x depth 48 mm (using without the stand)
<b>Mass (Weight):</b>	Approx. 115 g (including the stand)
<b>Operating environment:</b>	0 °C to 40 °C, Up to 90% RH (Relative Humidity) non condensing
<b>External material:</b>	ABS resin

**Note:**

- Design and specifications are subject to change without notice.
- The pictures and illustrations in these instructions may vary slightly from the actual product.

**Trademarks:**

- All other trademarks identified herein are property of their respective owners.

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**For your future reference**

Date of purchase

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Serial number (found in the battery compartment of the sub monitor station)

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Dealer's name and address

---

Dealer's telephone number

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**Attach your sales receipt here.**

[Dashed box for sales receipt attachment]

**Panasonic Communications Co., Ltd.**

1-62, 4-chome, Minoshima, Hakata-ku, Fukuoka 812-8531, Japan

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