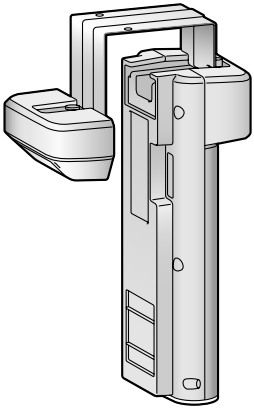
Panasonic

Operating Instructions

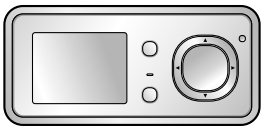
Wireless Door Camera

Model No. **VL-SDM200A**

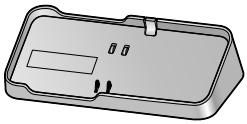
Including: VL-CM851A
VL-DM200A
VL-MDM200A



VL-CM851A



VL-DM200A



VL-MDM200A

Thank you for purchasing a Panasonic product.

Please read this manual before using the unit and save for future reference.

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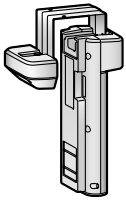
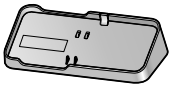
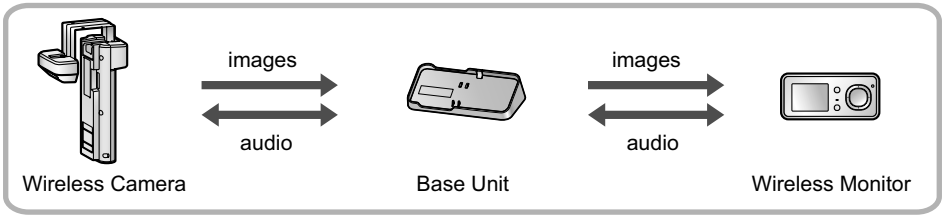
Product descriptions

Product figure			
	VL-CM851A*1	VL-MDM200A*2	VL-DM200A*3
Description in this manual	Wireless Camera	Base Unit	Wireless Monitor

*1 The Wireless Camera is used by attaching it to the front door of a house or apartment (page 17).
*2 The Base Unit is needed in order to view images from the Wireless Camera on the Wireless Monitor. Always use the Base Unit with it connected to a power supply.
*3 The Wireless Monitor is portable, allowing you to easily check your front door with images from the Wireless Camera. Including the included Wireless Monitor, a total of 4 Wireless Monitors can be used with a single Wireless Camera. For information on additional accessories, see page 4.

Flow of images and audio



Important:

- Images cannot be viewed on the Wireless Monitor if the Base Unit is not connected to a power supply.

Accessory information

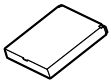
Supplied accessories

① Double-sided tape[*1] … × 1
Order No. PNHX1536ZA

② Hex key[*1] … × 1

③ Screws[*1] … × 2

④ Battery pack[*2] … × 1



⑤ Operating Instructions[*3] … × 1

*1 Used for the Wireless Camera and for installation.
*2 Used for the Wireless Monitor.
*3 Containing English Operating Instructions, French Operating Instructions, and Spanish Quick Reference Guide.

Additional/replacement accessories

– Wireless Monitor: VL-DM200A[*1]
– Battery pack for Wireless Monitor: CGA-LB102[*1]
*1 As of August, 2012.

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

License:
- Portions of this software are based in part on the work of the Independent JPEG Group.

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

This product is not designed to be used to prevent theft or intrusions. Panasonic assumes no liability for any accidents or damages occurring in such cases.

For your safety

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

WARNING

Power connection

- 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.
- Do not overload power outlets and extension cords. This can result in the risk of fire or electric shock.
- Completely insert the power plug into the power outlet. Failure to do so may cause electric shock and/or excessive heat resulting in a fire.
- Regularly remove any dust, etc. from the power plug by pulling it from the power outlet, then wiping with a dry cloth. Accumulated dust may cause an insulation defect from moisture, etc. resulting in a fire.
- If the unit emits smoke or an abnormal smell, or makes an unusual noise, immediately unplug the power plug from the power outlet and remove the battery pack. These conditions can cause fire or electric shock. Confirm that smoke has stopped and contact an authorized service center.
- Never touch the plug with wet hands. Danger of electric shock exists.

Installation

- Do not use the unit in areas that are exposed to rain, moisture, steam, or oily smoke, or areas that have excessive dust. This may cause fire or electric shock.
- Do not install or use this product near automatically controlled devices such as automatic doors and fire alarms. Radio waves emitted from this product may cause such devices to malfunction resulting in an accident.
- Do not perform any actions (such as damaging, altering, exposing to heat sources, or placing heavy objects on the electrical parts and the power plug) that may damage the electrical parts and the power plug. Using the unit with damaged electrical parts or a damaged power plug may cause electric shock, short circuits, or fire. Contact an authorized service center for repairs.

Operating safeguards

- To reduce the risk of electric shock, do not disassemble this unit. Refer servicing to an authorized service center when service is required. Opening covers may expose you to dangerous voltages or other risks. Incorrect reassembly can cause electric shock when the unit is subsequently used.
- Do not touch the Base Unit, electrical parts, or the power plug during an electrical storm. There may be a remote risk of electric shock from lightning.
- Never put metal objects inside the unit. This may cause fire or electric shock. If metal objects enter the unit, immediately unplug the power plug from the power outlet and refer servicing to an authorized service center.
- Never spill any liquids on the unit or get the unit wet in any way. This may cause fire, electric shock, or injury. If the unit becomes wet, immediately unplug the power plug from the power outlet and refer servicing to an authorized service center.
- Never spill any liquids on the electrical parts or power plug, or get the electrical parts or power plug wet in any way. This may cause fire, electric shock, or injury. If the electrical parts or power plug becomes wet, immediately unplug the power plug from the power outlet and refer servicing to an authorized service center.
- Unplug this unit from power outlets and refer servicing to an authorized service center when the following conditions occur:
  - If the power cord is damaged or frayed.
  - If metal objects have been dropped inside the Base Unit.

  - If the Base Unit or the Wireless Monitor has been exposed to rain or water, or liquid has been spilled into the unit, do not use a microwave oven to speed up the drying process of any parts of the unit to avoid permanent damage.
  - If the unit has been dropped or physically damaged.
- Do not place the unit in a microwave oven or other devices such as electromagnetic cookers. This may cause heat or smoke to be generated, fire, or an explosion.

Medical

- 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 1.92 GHz to 1.93 GHz, and the RF transmission power is 115 mW (max.).)
- 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.

Installation and relocation

- The power plug is used as the main disconnect device. Ensure that the power outlet is installed near the product and is easily accessible.
- Make sure to have sure footing when attaching or taking off the unit. Tripping over or falling down may cause injury.

Battery pack (Wireless Monitor)

- Charge the battery provided, or identified for use with the product only, in accordance with the instructions and limitations specified in this manual.
- In order to prevent the risk of heat generation, fire, an explosion, or leaking liquids, do not do the following.
  - Use a battery other than the specified battery.
  - Disassemble or reconstruct the battery.
  - Carry or store the battery together with rings, bracelets, keys, or similar objects.
  - Use the included battery pack with other devices.
  - Use a charger other than the specified charger (Base Unit), or tamper with the charger (Base Unit).
  - Dispose of the unit in a fire, heat up the unit, or get the unit wet with any type of liquid.
  - Use, charge, or leave the battery near a fire or stove, or in places with high temperatures such as places that receive direct sunlight.
  - Connect metal objects to battery terminals.
  - Heat the battery in a microwave oven.
- Exercise care when handling the battery. Do not allow conductive materials such as rings, bracelets, keys, or similar objects to touch the battery, otherwise a short circuit may cause the battery and/or the conductive material to overheat and cause burns.
- Do not open, puncture, crush, or drop the battery. A damaged battery must not be used. This can result in the risk of fire, explosion, overheating, and leaking of the electrolyte.
- Do not come into contact with the electrolyte from the battery or let it get in your eyes if liquid is leaking from the battery. This may cause damage to your eyes. Should the electrolyte from the battery get into your eyes, do not rub your eyes. Immediately flush your eyes with clean water and see a doctor for medical treatment as soon as possible.

Dry-cell battery (Wireless Camera)

- Do not come into contact with the electrolyte from the batteries or let it get in your eyes if liquid is leaking from the batteries. This may cause loss of sight. Should the electrolyte from the batteries get into your eyes, do not rub your eyes. Immediately flush your eyes with clean water and see a doctor for medical treatment as soon as possible.

- In order to prevent the risk of heat generation, fire, an explosion, or leaking liquids, do not do the following.
  - Charge, heat up, or disassemble batteries, or dispose of batteries in the fire.
  - Connect metal objects to batteries' terminals.
  - Carry or store the batteries together with rings, bracelets, keys, or similar objects.
  - Use old and new batteries or batteries of different types together.
- Do not place the batteries within reach of children. There is a risk that children may swallow batteries. If you suspect that a child has swallowed a batteries immediately seek consultation with a medical practitioner.
- In order to prevent the risk of heat generation, an explosion, or leaking liquids, immediately remove batteries that cannot be used, remove batteries when not using the unit for extended periods, and do not insert batteries with incorrect polarities.

CAUTION

Installation and relocation

- In order to prevent the risk of injury from the unit falling, do the following.
  - Always follow the attachment procedures listed in this manual.
  - Attach the Wireless Camera securely to the door.
  - Make sure that the battery case does not fall when exchanging batteries.
  - Do not use excessive force when closing the door.
  - Never use the unit in an unstable place or a place that is exposed to strong vibrations.

Battery (Wireless Monitor)

Attention:

A lithium ion/polymer battery that is recyclable powers the product you have purchased. Please call 1-800-8-BATTERY for information on how to recycle this battery.

Dry-cell battery (Wireless Camera)

- Only use specified batteries. Using unspecified batteries may cause leaking fluids, heat generation, or an explosion.

Important safety instructions

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

- Do not use this unit 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.
- Use only the battery pack indicated in this manual.
- Do not dispose of the battery(ies) in a fire. They may explode. Check with local waste management codes for special disposal instructions.

SAVE THESE INSTRUCTIONS

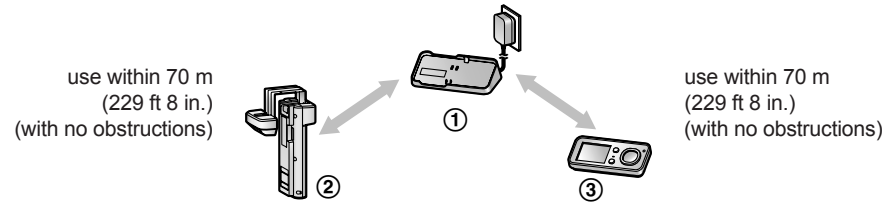
For best performance

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 images:
  The recorded images may be lost when:
  – The unit is mishandled.
  – Electric shock or radio wave interference occurs.
  – The power is turned off during use.
  (We might not be liable for the damage.)
- Panasonic may not be liable for damages due to external factors such as power failures.

Location/avoiding noise (Base Unit/Wireless Camera/Wireless Monitor)

The Base Unit (①), Wireless Camera (②), and Wireless Monitor (③) use radio waves to communicate with each other.



- For maximum distance and noise-free operation, we recommend the following:
  Placing the Base Unit and Wireless Monitor away from electrical appliances such as:
  – TVs
  – Radios
  – Personal computers
  – Air conditioners
- Coverage and voice quality depends on the local environmental conditions.

Environment

- Keep the unit away from electrical noise generating devices, such as fluorescent lamps and motors.
- 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 install the Wireless Camera in areas where there is a backlight (the visitors' faces appear dark and are hard to recognize), or areas that create hydrogen sulfide (this may cause a malfunction).
- Do not install the Wireless Camera in areas where it can be directly exposed to the elements (this may cause a malfunction).
- 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. In this situation, we recommend that you turn the power for the Wireless Camera off in order to conserve the batteries' energy.
- 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 5 °C (41 °F) or greater than 40 °C (104 °F). Damp basements should also be avoided. To avoid damage, charge the battery only in temperatures ranging from 5 °C (41 °F) to 40 °C (104 °F).

- Even when the Wireless Monitor and Wireless Camera are within 70 m (229 ft 8 in.) and not used too close together, if there obstructions such as the ones below, problems such as signals becoming weak, noise, interrupted transmissions, distorted images, and slow image refresh rates may occur, causing the Wireless Monitor and Wireless Camera to not be able to be used together. (See page 14 for information about the signal display.)
  - walls with an insulation material that contains aluminum foil
  - walls made of concrete or galvanized iron
  - when each device (Base Unit, Wireless Camera, and Wireless Monitor) is used on a different floor
  - double insulating glass or metallic shutters
  - places where several walls are separated by open space
- Some types of hearing aids may receive noise from wireless communications between the Base Unit, Wireless Camera, and Wireless Monitor.
- When the Wireless Monitor and Wireless Camera are too close together, feedback may occur.
- Operating the product near electrical appliances may cause interference. Move away from the electrical appliances.

Other information

Caution

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

Privacy and rights of portrait

When installing or using the Wireless Camera, 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.

Others

- Panasonic assumes no liability for injuries or property damage resulting from failures arising out of improper installation or operation inconsistent with the Operating Instructions.
- If you stop using the Wireless Camera, remove the Wireless Camera from the door to prevent them from falling off.

Personal information

- The unit records the following personal information. Panasonic assumes no liability for any unforeseen damages arising from the exposure of the recorded information.
  - Data recorded on the Base Unit:
    Recorded data containing images of visitors, or other images.
- **Disclaimer**
  Recorded data may be altered or deleted as a result of incorrect operations, exposure to static electricity, accidents, malfunction, repairs or other operations. Panasonic assumes no liability for any direct or indirect damages resulting from the loss or alteration of recorded images.

Requesting repairs for the unit

- The data recorded on the Base Unit cannot be exported. Before requesting repairs, check the currently recorded images as necessary.
- After checking the recorded data, delete the data recorded on the Base Unit by performing **“RESET + DEL ALL PICS”** with the Wireless Monitor (page 28).

– Even if the unit is sent for repairs without performing **"RESET + DEL ALL PICS"**, the memory (including recorded data and contents of the settings) of the Base Unit may be cleared and set to factory default after repair.

- If operations cannot be performed with the Wireless Monitor because of damage to the unit, consult with the place of purchase for the appropriate action.

Note for product disposal, transfer, or return

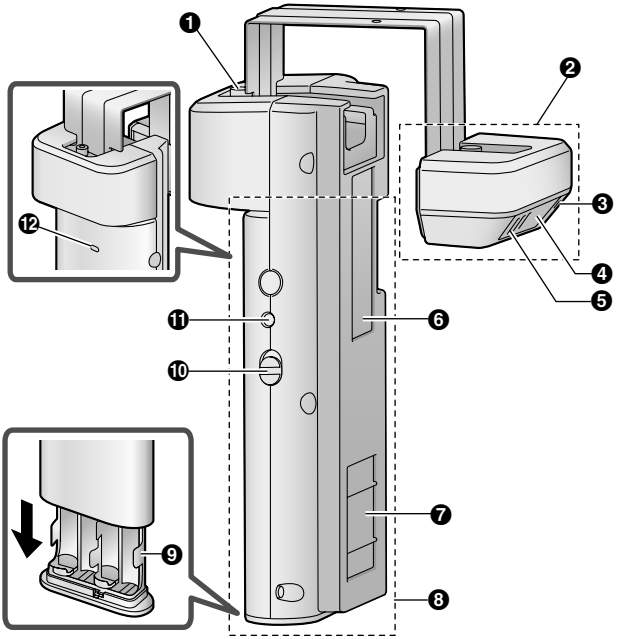
- This product can store your private/confidential information. To protect your privacy/confidentiality, we recommend that you erase the information (recorded images) from the memory before you dispose of, transfer or return the product.
- Delete the data recorded to the Base Unit by performing **"RESET + DEL ALL PICS"** with the Wireless Monitor (page 28).

Notice (for users in the United States Only)

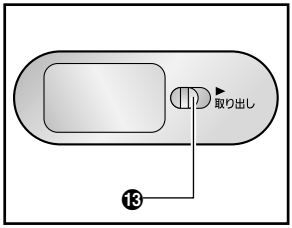
- This product is designed for use in the United States of America. Sale or use of this product in other countries may violate local laws.
- Cet appareil est conçu pour être utilisé aux États-Unis d'Amérique. La vente ou l'emploi de cet appareil dans certains autres pays peut constituer une infraction à la législation locale.
- Este producto está diseñado para usarse en los Estados Unidos de América. La venta o el empleo de este producto en ciertos países puede constituir violación de la legislación local.
- 本產品專為美國使用而設。若在其他國家銷售或使用，可能會違反當地法例。
- この製品は、日本国外での使用を目的として設計されており、日本国内での使用は法律違反となります。従って、当社では日本国内においては 原則として修理などのサービスは致しかねます。

Location of controls

Wireless Camera



● **Bottom view**



❶ Fixing screw
❷ Camera unit
❸ Microphone
❹ Camera lens
❺ Speaker
❻ Cable protection sheet
- Do not remove this sheet.

❼ Magnet/rubber
- The magnet and rubber are used to stop the Wireless Camera from moving.

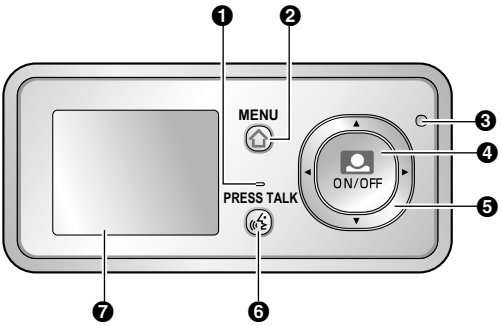
❽ Wireless unit
❾ Battery case
❿ Power slide switch (ON/OFF)
- The batteries run out of power faster in the following situations. Turn the power slide switch OFF in these situations.
  – In situations such as when you are away from home for extended periods of time and you disconnect the power to the Base Unit.
  – During electrical power failures.

⓫ Pair button (Not normally used.)
- Only used when pairing must be performed again for repairs or product exchanges (page 35).

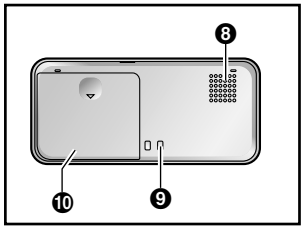
⓬ Pair indicator
- Flashes/lights when pairing (not normally performed).
- When you turn the Wireless Camera's power ON, you can check the pair indicator to check if the power is actually turned on (page 19).

⓭ Slide lever
- Use the slide lever when removing the battery case.

Wireless Monitor



- **Bottom view**



❶ Microphone
❷ Menu button
❸ Charge indicator
❹ Monitor button
- Used to monitor the area outside the door (page 23).
- Used to perform operations displayed by the operation guidance.

❺ Navigator key

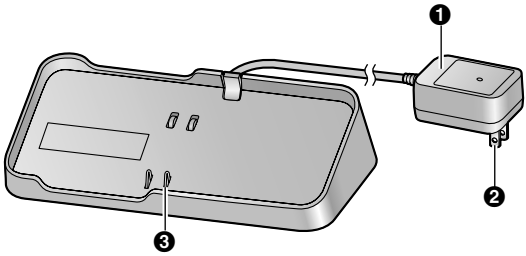
Used to select items or perform operations displayed by the operation guidance.

	【▲】/【▼】	Press 【▲】 (up) or 【▼】 (down).
	【◄】/【►】	Press 【◄】 (left) or 【►】 (right).

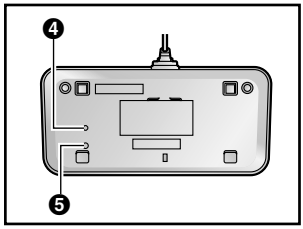
❻ Talk button
❼ Monitor display
❽ Speaker
❾ Charge contacts (metal parts)
❿ Battery cover
- Open the battery cover when inserting the battery pack or exchanging the battery pack (page 15, 30).

Base Unit

(Shown on the Base Unit as: MAIN UNIT)



● **Bottom view**

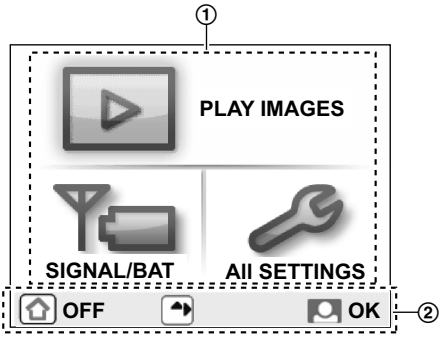


❶ Electrical parts
❷ Power plug
❸ Charge contacts (metal parts)
❹ Pair indicator (page 29, 35)
❺ Pair button (page 29, 35)

Monitor display

- The following display is an example for description purposes, and it may differ from the actual display.
- To display the top menu when it is off (not displayed), press **[MENU]**.

Top menu



When displaying images

① Displays the menu names for items that can be operated.
"PLAY IMAGES": Use this menu to view recorded images (page 25).
"SIGNAL/BAT": Use this menu to display the status of the wireless signal and batteries (page 14).
"ALL SETTINGS": Use this menu to change settings (page 27).

② Operation guidance
Displays what actions the buttons can be used for and guidance for operations.
- The operation guidance can be configured not to be displayed when monitoring or viewing recorded images (page 27).

③ Displays the current status with symbols.

	Displayed when displaying the Zoom display (page 23). The displayed arrows indicate which direction the Zoom position can be moved when displaying the Zoom display.
	Displayed when recording images (page 24).
	Displayed when **[PRESS TALK]** is pressed while talking (page 23).
	Displayed when the signal between the Base Unit and Wireless Camera/Wireless Monitor is weak.
	Displayed when there is not much power remaining in the batteries of the Wireless Camera or Wireless Monitor.

Signal/battery information

You can display and check the signal and remaining battery power of the Wireless Camera and Wireless Monitor with the following operations.

1 Press **[MENU]**, then select **"SIGNAL/BAT"** by pressing **[▲]**, **[▼]**, **[◄]**, or **[►]**.

2 Press **[ ]** (Monitor button) (**"OK"**).

3 Press **[►]** (**"RENEW"**) to display the latest signal status and remaining battery power information.

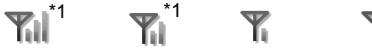
4 To finish the operation, press **[MENU]** 2 times.

Note:

- The **[MENU]** button will light in red to inform you when the signal is weak or if the remaining battery power is running low. If the **[MENU]** button is pressed at this time, the light goes out and the signal/battery information screen is displayed. Take the appropriate action, such as exchanging the batteries, after checking the information displayed.

Signal status symbols

Good Bad Out of range



*1 Use within this range.

Note:

- When the signal is bad or out of range, move the devices to an area with a good signal.
  - When the Wireless Camera is out of range, move the Base Unit to an area with a good signal.
  - When the Wireless Monitor is out of range, move the Wireless Monitor or Base Unit to an area with a good signal.

Remaining battery power symbols

Lots Little Out of power

*1 Use within this range.

Note:

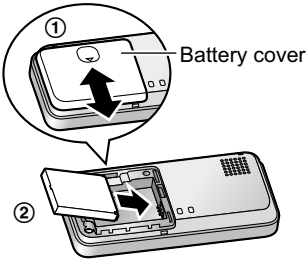
- When the batteries of the Wireless Camera run out of power, exchange them with new batteries (page 19, 30).
- When the Wireless Monitor runs out of power, charge it with the Base Unit (page 15).

- When the Wireless Camera is (Out of range), the remaining battery power symbol of the Wireless Camera is not displayed.

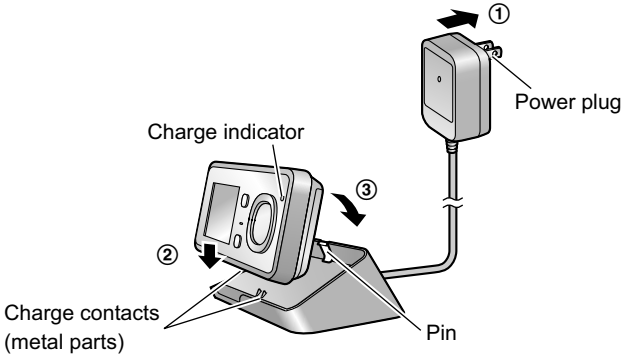
Charging the Wireless Monitor

Charge the Wireless Monitor before using it.

1 Insert the battery pack.
- Open the cover (①), insert the battery pack (②), and then close the battery cover (①).



2 Plug the power plug into the power outlet (120 V AC, 60 Hz) (①).



3 Place the Wireless Monitor on the lower part of the Base Unit (②), and then firmly push it into the Base Unit until it clicks into place (③). Check that the charge indicator lights up.
- While charging: the charge indicator lights up.
  When charging is completed: the charge indicator turns off.
  (It takes about 6 hours to complete charging.)
- Even after the Wireless Monitor is fully charged, the Wireless Monitor can be left on the Base Unit without causing it to overcharge.
- When the battery pack is completely out of power, it may take some time until the charge indicator lights up (about 5 minutes) when charging the Wireless Monitor. This is not a malfunction.
- When removing the Wireless Monitor from the Base Unit, remove the upper part of the Wireless Monitor first.

Do not unplug the power plug from the power outlet when recharging is completed. (Images from the Wireless Camera cannot be monitored when the power plug is unplugged from the power outlet.)

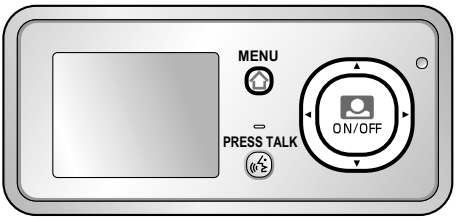
Note:

- In order to maintain battery pack performance and prevent the battery pack from discharging, remove the battery pack when the Wireless Monitor is off the Base Unit or the power plug is unplugged from the power outlet for a week or longer.
  – Recharge the battery pack before using the Wireless Monitor again.

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 (page 25). You can set the date and time using the Wireless Monitor.

- The date and time registered to the Base Unit can also be changed on additional Wireless Monitors.



1 Press **[MENU]**, then select **"ALL SETTINGS"** by pressing **[▲]**, **[▼]**, **[◄]**, or **[►]**.

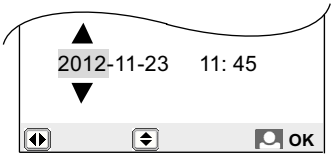
2 Press **[ ]** (Monitor button) (**"OK"**), then select **"START-UP SETTINGS"** by pressing **[▲]** or **[▼]**.

3 Press **[ ]** (Monitor button) (**"OK"**), then select **"TIME AND DATE SETTINGS"** by pressing **[▲]** or **[▼]**.

4 Press **[ ]** (Monitor button) (**"OK"**), then set the current date and time.
Select the year/month/date/hour/minute by pressing **[◄]** or **[►]**.
Select numbers by pressing **[▲]** or **[▼]**.

- You can scroll numbers by pressing and holding **[▲]** or **[▼]**.

Example:



5 Press **[ ]** (Monitor button) (**"OK"**) after finishing the settings.

- A beep will sound when the settings are changed.

6 To finish the operation, press **[MENU]** 2 times.

Note:

- Time may get out of sync by about 60 seconds per month.

Attaching the Wireless Camera

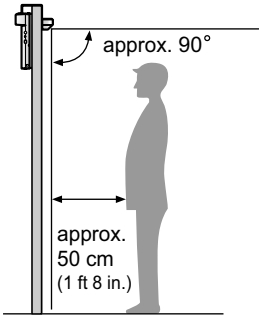
Before attaching the Wireless Camera (Installation preparation)

Wireless Camera range

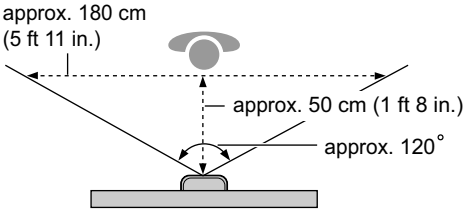
- Views when the camera is set **"WIDE"** (default).

When using with a door with a height of 2 m (6 ft 7 in.)

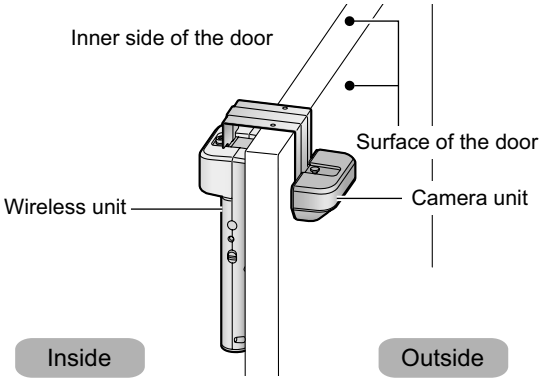
Side view



Top view



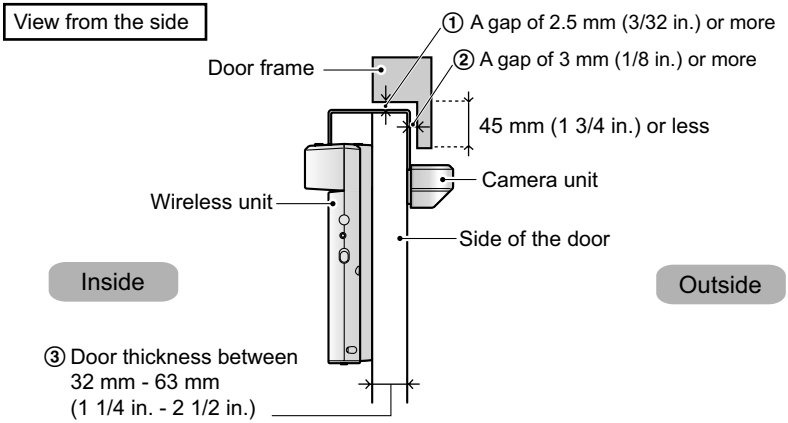
Attaching the Wireless Camera to a door



- Attach the Wireless Camera to a door in a protected area that is not directly exposed to the elements, such as under a roof or eave.
- Connect the Base Unit to the power outlet and turn it on.
- Attach the Wireless Camera to a flat area on the surface on the door.
- Wipe dirt and moisture from the surface of the door where the Wireless Camera will be attached.
- Remove the protection film from rear side of the wireless unit.

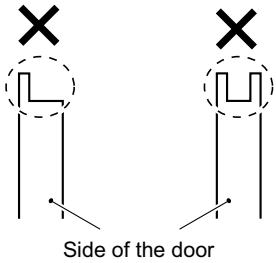
Doors the Wireless Camera can be attached to

- **Steel doors that open to the inside that meet the following requirements.**
  - A gap of 2.5 mm (3/32 in.) or more for ① and 3 mm (1/8 in.) or more for ② between the door and door frame.
  - A door with a thickness of between 32 mm - 63 mm (1 1/4 in. - 2 1/2 in.) (③).



Note:

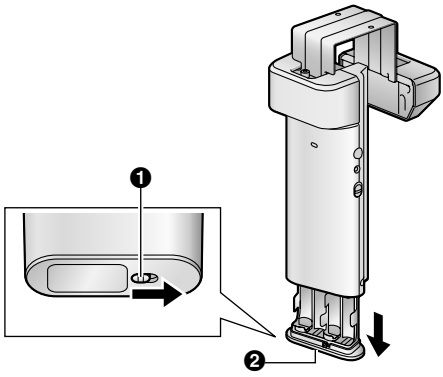
- The Wireless Camera cannot be attached to the following doors.
  - Sliding doors
  - Doors that open to the outside
  - A door with a protrusion such as a guard plate, or a cavity



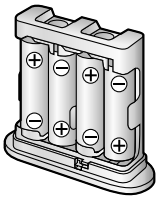
Inserting batteries into the wireless unit

Before attaching the Wireless Camera to the door, insert the batteries by performing the following procedure.

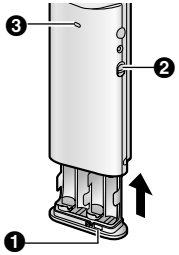
1 Slide the slide lever (❶) across and take out the battery case (❷) from the wireless unit.
- Be careful not to drop the battery case when taking it out.



2 Insert the batteries.
- 4 Alkaline AA batteries
- Do not mix old and new batteries, or batteries of different types.
- Make sure that the polarity (⊕, ⊖) of the batteries is correct.



3 Insert the battery case into the wireless unit.
- Firmly push the battery case into the wireless unit until the red label (❶) cannot be seen.



4 Slide the power slide switch (❷) to ON.
- You can check if the power is actually on by confirming that the pair indicator (❸) changes from flashing to not lit.

Note:
- Batteries have a shelf-life. Check the shelf-life listed on the batteries before using them.

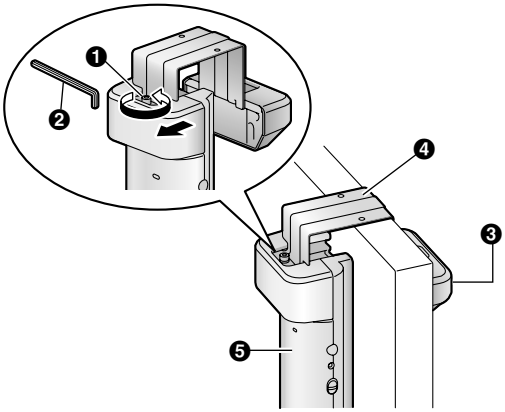
- Use Alkaline AA (LR6) batteries. The batteries' lifetime will be reduced if different types of batteries are used together.
- To prevent the Wireless Camera from falling down when replacing the batteries, make sure to close the door and turn off the power of the Wireless Camera before replacing batteries.

Attaching the Wireless Camera to a door

Note:

- Be careful not to get your fingers caught in the door when attaching the Wireless Camera.

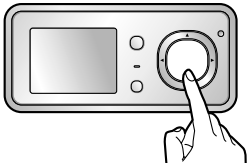
1 Loosen the wireless unit's fixing screw (❶) with the included hex key (❷), and then hang the Wireless Camera from the door.
- Do not take the fixing screw (❶) off, just loosen it.
- Position the Wireless Camera so that visitors can be centrally viewed when monitoring.



2 Holding the camera unit (❸), adjust the position of the metal plate (❹) so that the distance between the wireless unit (❺) and camera unit (❸) matches the width of the door, then temporarily fix the Wireless Camera into position by gently tightening the fixing screw (❶).

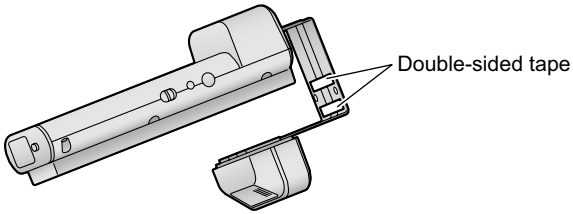
3 Check that the metal plate (❹) of the Wireless Camera does not hit against the door frame when opening or closing the door.

4 Check that the Wireless Camera is in a suitable position.
- Check images from the Wireless Camera on the Wireless Monitor, and adjust the position of the Wireless Camera as necessary.

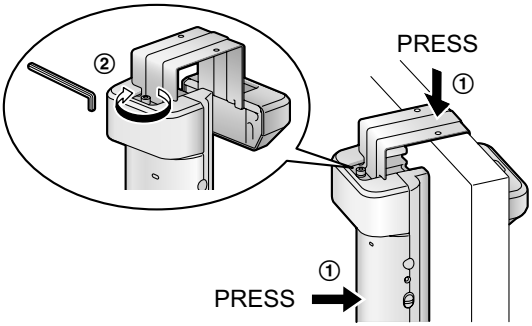


5 Carefully take the Wireless Camera off the door without loosening the fixing screw, and then remove the silicon paper from the double-sided tape on the back of the metal plate.

- Wipe dirt and moisture from the surface of the door, then attach the Wireless Camera to a flat area on the surface of the door.



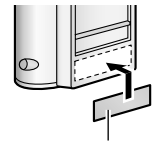
6 Hang the Wireless Camera from the position confirmed in step 4, then press the Wireless Camera into the door so that the double-sided tape on the back of the metal plate and wireless unit sticks to the door (①). Make sure that there are no gaps between the top of the door and the metal plate.



- Check that the wireless unit does not easily move around when the door is closed.
- Perform the following when the double-sided tape does not stick well to the door and the Wireless Camera moves around easily.

(1) Remove the Wireless Camera from the door.

(2) Loosen the fixing screw, widen the distance between camera unit and wireless unit, and then stick the additional double-sided tape to the back of the wireless unit.



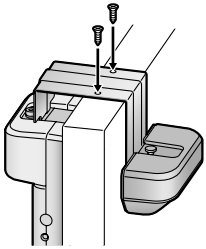
(3) Remove the silicon paper from the double-sided tape, then hang the Wireless Camera from where it was positioned before.

(4) After pressing the wireless unit into the door to so that it sticks to the door, adjust the position of the metal plate so that the distance between the wireless unit and camera unit matches the width of the door while holding the camera unit.

7 Close the door, then firmly tighten the fixing screw (②) while holding the wireless unit to stop it from moving.

- Hold the long part of the hex key and firmly tighten the fixing screw.
- Check that the fixing screw has not become loose at regular intervals.

- If the door is made of wood, make sure to use the included screws to fix the metal plate to the top side of the door. Make sure to get permission from the owner before fixing screws to the door.



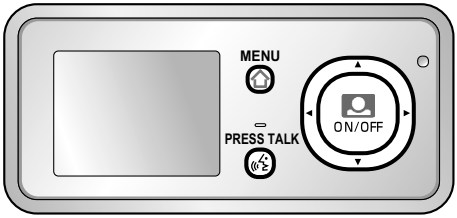
Important:

- Because the Wireless Camera uses double-sided tape with strong adhesion to prevent it from falling down, care is needed when removing the Wireless Camera from the door. (Forcibly removing the double-sided tape may damage the surface of the door.)

Monitoring the outside

You can monitor the sounds and images from outside taken by the Wireless Camera.
- The sound from your end will not be heard at the Wireless Camera.

You can perform the following operations during monitoring:
- Switching between Wide/Zoom (page 23)
- Recording images (page 24)
- Adjusting brightness (display)/Audio output volume/Audio input volume (page 23)



1 Press **【】** (Monitor button).
- The outside image will be shown on the display, and you will hear the sound from outside.
- To speak to the other party at the Wireless Camera, press **【PRESS TALK】**.

> You can speak to the other party by pressing and holding **【PRESS TALK】**.
> - appears on the display.
> - You cannot hear the sound from the other party when **【PRESS TALK】** is pressed.
>
> You can hear the sound from other party by releasing **【PRESS TALK】**.
> - disappears from the display.
> - The sound from your end will not be heard at the Wireless Camera.

2 To end operations, press **【】** (Monitor button).

Note:
- Monitoring lasts for about 20 seconds after **【】** (Monitor button) is pressed. However, if operations are performed during monitoring, monitoring can be extended to a maximum of 3 minutes.
- At night or at other times when the area around the Wireless Camera becomes dark, the following occur:
  – The image quality is reduced.
  – Images are automatically brightened to make it easier to see the face of the other party. Although images may appear to be washed out, this is not a malfunction.

Adjusting brightness (display)/Audio output volume/Audio input volume

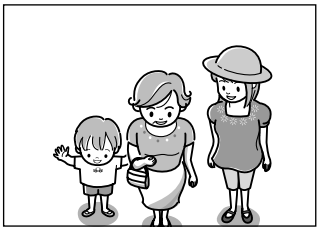
1 Press **【MENU】** while monitoring.

2 Press **【▲】** or **【▼】** to select the desired item (such as brightness).

3 Press **【◄】** or **【►】** to adjust it.

Manipulating displayed images with Wide/Zoom and Pan/Tilt

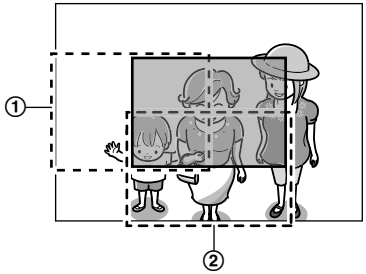
During monitoring, the display can be temporarily switched between Wide/Zoom, and the Zoom position can be changed with pan/tilt operations.

Wide display (default setting)	Zoom display
	

1 Press and hold 【[monitor]】 (Monitor button) for about 3 seconds when in the Wide display.
- The display is switched to the Zoom display.
- To switch back to the Wide display, press and hold 【[monitor]】 (Monitor button) for about 3 seconds again.

2 To change the Zoom position with Pan/Tilt, press 【▲】, 【▼】, 【◄】, or 【►】 when in the Zoom display.
- The Zoom position changes each time 【▲】, 【▼】, 【◄】, or 【►】 is pressed.

Example:



In the illustration above, the Zoom position is shown in gray.
– Press 【◄】 1 time: the Zoom position is moved to (①).
– Press 【▼】 1 time: the Zoom position is moved to (②).

- The Zoom position can be moved in the direction of the symbols shown on the screen.

Note:

- Performing the above operations only temporarily switches between Wide/Zoom displays. Therefore, images will be displayed according to the default settings the next time images are monitored. To change the default settings, change **"WIDE/ZOOM SETTINGS"** (page 27).
- When the Zoom position is changed, it is retained and used the next time images are monitored.

Recording displayed images

Images being monitored can be recorded.

- Each recorded picture records 1 still image picture. (A maximum of 10 recorded pictures can be recorded.)

- Recorded images are saved to the Base Unit.
- Images recorded by additional Wireless Monitors are also saved to the Base Unit.

1 Press **【MENU】** while monitoring images.

2 Press **【►】** (**"RECORD"**).
- **REC** is displayed on the screen.

Note:

- Images are recorded according to the current display setting. When in Wide display, Wide display images are recorded, and when in Zoom display, images of the zoomed in area are recorded. (When viewing recorded images, the display setting (Wide or Zoom) and the Zoom position cannot be changed.)
- There may be a delay from when recording operations are performed to when recording starts. Accordingly, the actual recorded images may differ from the images monitored when recording operations were performed.

When the recording memory is full (automatic overwriting):

- **In order to record new images when the recording memory is full, existing recorded images are automatically deleted in order from the oldest image.** In this way recorded images do not have to be manually deleted, and recording can be performed at anytime. You can use the picture protection setting to protect images that you do not want to be deleted from being deleted (page 25).

Viewing recorded images

Images recorded during monitoring can be viewed with the following operations.

- While viewing images, you can protect images that you do not want to be deleted, and delete unnecessary images (page 25). (A maximum of 5 images can be protected.)

1 Press **【MENU】**, then select **"PLAY IMAGES"** by pressing **【▲】** or **【▼】**.

2 Press **【】** (Monitor button) (**"OK"**).
- The image with the most recent date and time is displayed.
- When there is more than 1 image, press **【◄】** to view the next image. Each time you press **【◄】**, images are displayed in chronological order starting from the most recently recorded image to the oldest recorded image.
- You can hide the guidance (date and time, and the operation guidance) by pressing **【▼】**. The guidance is temporarily hidden, but it is displayed again when an operation is performed.

3 To finish the operation, press **【】** (Monitor button) (**"OFF"**).

Protecting and deleting pictures

How to protect images (or remove protection)

1 Press **【MENU】** while viewing images.

2 Select **"SET/REMOVE PROTECTION"** by pressing **【▲】** or **【▼】**, then press **【】** (Monitor button) (**"OK"**).
- When an image is configured to be protected, a protection symbol " " is displayed for the image. When the protection setting is removed, the symbol disappears.

How to delete images

1 Press **【MENU】** while viewing images.

2 Select **"DELETE 1 PICTURE"** by pressing **【▲】** or **【▼】**, then press **【】** (monitor button) (**"OK"**).

3 Select **"YES"** by pressing **【▲】** or **【▼】**, then press **【】** (monitor button) (**"OK"**).

Note:

- A maximum of 5 images can be protected. If you want to protected an image when 5 images are already protected, you must remove protection from 1 of the images.
- Protected images cannot be deleted. Remove the protection in order to delete protected images.

Programming function settings

You can change the function settings to suit your needs.

How to change the function settings

1. Press **[MENU]**, then select the **"ALL SETTINGS"** by pressing **[▲]**, **[▼]**, **[◄]**, or **[►]**.
2. Press **[ ]** (monitor button) (**"OK"**), then select the desired item by pressing **[▲]** or **[▼]**.
3. Press **[ ]** (monitor button) (**"OK"**).
4. Press **[▲]** or **[▼]** to select the desired setting, then press **[ ]** (monitor button) (**"OK"**).
   - This step may vary depending on the feature being programmed.
5. Press **[▲]** or **[▼]** to select the desired setting, then press **[ ]** (monitor button) (**"OK"**).
6. To finish the operation, press **[MENU]** 2 times.

Note:

- When no operation is performed for about 60 seconds during settings, the setting function quits.

Function list

In the following list, < > indicates the default settings.

Item	Function	Setting
START-UP SETTINGS	MOTTLED COLOR PREVENT*1	<POWER FREQUENCY (60Hz)> / POWER FREQUENCY (50Hz) ● To prevent mottled or uneven color from being displayed, set the power frequency to match the area in which you use the unit.
	TIME AND DATE SETTINGS*1	You can set the current date and time (page 16).
	LANGUAGE SELECTION	<ENGLISH> / FRENCH / SPANISH / ARABIC
DISPLAY/SOUND SETTINGS	WIDE/ZOOM SETTINGS*1	<WIDE> / ZOOM ● Select how images are initially displayed: Wide or Zoom.
	CONTRAST	When it is difficult to see the monitor display, you can adjust the display contrast. 5 levels are available.
	OPERATION GUIDANCE	<YES> / NO ● Select NO if you do not want the operation guidance (page 13, 25) to be displayed when viewing Wireless Camera images or recorded images.
	CONFIRMATION SOUND	<ON> / OFF ● When OFF is selected, all sounds (apart from audio from talking) are turned off.
SAVE CAMERA BATTERIES*1	–	<OFF> / ON ● Select ON to lengthen the time that the batteries can be used for. (However, by selecting ON, the time it takes to display images when monitoring may increase.)

Item	Function	Setting
RESET + DEL ALL PICS	ONLY DELETE ALL PICS*1	DELETE ALL PICTURES / DEL NON-PROTECTED PICS ● Images saved on the Base Unit are deleted.
	RESET + DEL ALL PICS*1*2	YES / NO ● If YES is selected, all images recorded to the Base Unit (including protected images) are deleted, and the entire Wireless Door Camera system settings, including the Wireless Monitor settings, are reset.
	ONLY RESET SETTINGS*1*2	YES / NO ● If YES is selected, the entire Wireless Door Camera system settings, including the Wireless Monitor settings, are reset.
PAIRING/CANCEL	PAIRING	Pairs the Wireless Monitor to the Base Unit (page 29).
	CANCELATION	Removes the pairing of the Wireless Monitor from the Base Unit (page 30).

*1 These settings are related to the entire Wireless Door Camera system. If these settings are changed in the Wireless Monitor, the settings for all the additional Wireless Monitors are also changed.

*2 Pairing for the Wireless Monitor paired to Base Unit is not changed when the unit is reset.
– Even when the Wireless Monitor is within signal range, if the Wireless Camera is out of signal range, the unit cannot be reset. Only reset the unit when all devices are within signal range.

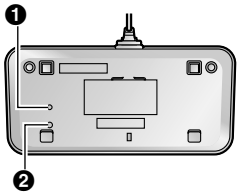
Adding extra Wireless Monitors (Pairing)

- By adding separately sold Wireless Monitors (page 4), a total of 4 Wireless Monitors (including the included Wireless Monitor) can be used with a single Wireless Camera.
- Pair additional Wireless Monitors to the Base Unit.
- Place the additional Wireless Monitor near the Base Unit and then perform operations on the additional Wireless Monitor ( ) within about 2 minutes of performing operations on the Base Unit ( ).

1 : Plug the power plug of the Base Unit into the power outlet.

2 : Press and hold the pair button (❷) located on the bottom side of the Base Unit for about 3 seconds with a pointed object.
- Stop pressing the pair button (❷) when the pair indicator (❶) starts to slowly flash.

<Bottom view>



3 : Press **【MENU】**.
- Perform the operation for step 3 within about 2 minutes after performing step 2.

4 : Press **【** **】** (monitor button) to start pairing.
- When pairing is completed, **"PAIRING COMPLETED"** is displayed.

Note:

- Pairing cannot be performed when another Wireless Monitor is accessing the Base Unit (for monitoring or other purposes).
- The monitor number of the Wireless Monitor to be paired cannot be specified.

Pairing canceled Wireless Monitors again

1 Press **【MENU】**.
2 Select **"ALL SETTINGS"** by pressing **【▲】**, **【▼】**, **【◄】**, or **【►】**, then press **【****】** (monitor button) (**"OK"**).
3 Select **"PAIRING/CANCEL"** by pressing **【▲】** or **【▼】**, then press **【****】** (monitor button) (**"OK"**).
4 Select **"PAIRING"** by pressing **【▲】** or **【▼】**, then press **【****】** (monitor button) (**"OK"**).
5 Select **"MONITOR"** by pressing **【▲】** or **【▼】**, then press **【****】** (monitor button) (**"OK"**).
6 Press **【****】** (monitor button).
7 To finish the operation, press **【MENU】** 2 times.

Canceling unused Wireless Monitors

- These operations are performed on the included Wireless Monitor, and can also be performed on the additionally paired Wireless Monitor.
- The pairing of the Wireless Monitor performing operations cannot be canceled.

1 Press **【MENU】**.

2 Select **"ALL SETTINGS"** by pressing **【▲】**, **【▼】**, **【◄】**, or **【►】**, then press **【】** (monitor button) (**"OK"**).

3 Select **"PAIRING/CANCEL"** by pressing **【▲】** or **【▼】**, then press **【】** (monitor button) (**"OK"**).

4 Select **"CANCELATION"** by pressing **【▲】** or **【▼】**, then press **【】** (monitor button) (**"OK"**).

5 Select **"MONITOR"** by pressing **【▲】** or **【▼】**, then press **【】** (monitor button) (**"OK"**).

6 Select the Wireless Monitor to cancel by pressing **【▲】** or **【▼】**, then press **【】** (monitor button) (**"OK"**).
- In the following situations, Wireless Monitors are displayed in gray and cannot be canceled.
  – when trying to cancel the pairing of a Wireless Monitor that is performing operations.
  – when there is a Wireless Monitor that has not been paired.

7 To finish the operation, press **【MENU】** 2 times.

Important:

- In order to prevent false operations, remove the battery packs from canceled Wireless Monitors.

Replacing batteries or battery packs

■ Batteries used in the Wireless Camera

When the batteries of the Wireless Camera run out of power ( ), exchange them with new batteries.

- ONLY USE Alkaline AA batteries.
- Refer to page 19 for information on how to insert batteries.
- **To prevent the Wireless Camera from falling down, make sure to close the door and turn off the power of the Wireless Camera before replacing batteries.**

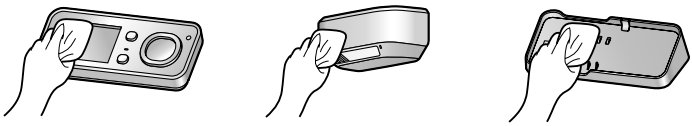
■ Battery pack used in the Wireless Monitor

When the Wireless Monitor's battery pack runs out of power soon after being charged, exchange it with a new battery pack.

- Use the separately sold CGA-LB102 for a replacement battery pack (page 4).
  – Battery specifications: lithium ion battery, DC 3.7 V, 940 mAh.
- Refer to page 15 for information on how to insert battery packs.

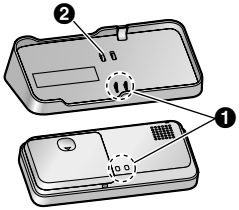
Cleaning

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

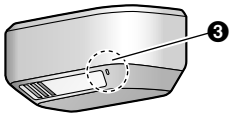


- When cleaning the Base Unit, electrical parts, and power plug, make sure to unplug the power plug from the power outlet.

- Wipe the charge contacts (❶) about once a month with a dry cloth. (If the charge contacts become dirty, it may take longer to charge, or charging may not be possible.)
  – Press ❷ so that the charge contacts (❶) come out from Base Unit.



- Remove any moisture from the Wireless Camera's microphone (❸) with a cotton bud or similar product.
  – Audio may not be heard clearly when there is moisture in the microphone.



Important:

- 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.

Troubleshooting

Display issues

Problem	Cause & Solution	Page
Images appear slightly distorted.	● This is a characteristic of camera lenses and is not a malfunction.	–
The image of a person's face is dark.	● When there is a backlight in the place where the Wireless Camera is located, the person's face becomes dark. – Adjust the brightness of the display while monitoring.	23
The image is not clear or is blurry.	● The surface of the lens of the Wireless Camera is dirty. – Clean it with a soft dry cloth. ● The surface of the lens of the Wireless Camera is wet with dew. Wait for the condensation to evaporate.	30 –
The image of the subject is washed out when it is dark.	● When it is dark, the image brightness is automatically adjusted in order to make the person's face easier to see. Although images may appear washed out, this is not a malfunction.	–
The image is white or black.	● The brightness of the display is not properly adjusted. Adjust the brightness while monitoring.	23
The image is white, or white lines or circles are shown on the display.	● Strong light such as sunlight is shining into the lens of the Wireless Camera. Though this may cause the display image to become difficult to see, this is not a malfunction. – Locate the Wireless Camera away from direct sunlight.	–
The image is flickering.	● The **MOTTLED COLOR PREVENT** setting does not match the power frequency for the region that you are using the unit in. – Matching the power frequency for the region that you are using the unit in can improve the quality of the colors displayed. When using the unit in a different region (after moving, etc.), match the settings to that region. ● AC (alternating current) lights such as fluorescent lights may cause flickering. This is not a malfunction.	27 –
The image displayed on the Wireless Monitor distorts or is displayed slowly. (It takes about 5 seconds or more to be displayed.)	● The distance between the Base Unit and Wireless Camera, or Base Unit and Wireless Monitor is too far, or there is a concrete wall or other obstruction between the Base Unit and Wireless Camera, or Base Unit and Wireless Monitor. – Move the Base Unit to a location closer to the Wireless Camera that has no obstructions, or move the Wireless Monitor to a location closer to the Base Unit that has no obstructions.	8
The recording date and time are not displayed while viewing images.	● The date and time are not set. The date and time may be reset to the default setting after a long periods with the power plug unplugged or when a power failure occurs. – Set the current date and time using the Wireless Monitor.	16

Base Unit/Wireless Monitor

Problem	Cause & Solution	Page
Even when the Wireless Monitor is placed on the Base Unit (or the charger of additional Wireless Monitors), the charge indicator does not light up.	● The power plug is unplugged from the power outlet. – Plug the power plug into the power outlet firmly. ● The Wireless Monitor is not placed on the Base Unit correctly. – Replace it securely. (The charge indicator lights in red.) ● The charge contacts are dirty. – Wipe them with a soft dry cloth. If there is no change after performing the above actions, contact our service personnel.	15 15 31 –
Even if the Wireless Monitor has been charged, flashes after using it a few times.	● The battery pack is at the end of its life. – Replace the battery pack with a new one.	30
The Wireless Monitor or the Base Unit (or the charger of additional Wireless Monitors) is warm.	● This is normal. (It may feel a little warmer in summer than in winter.) – If it feels very hot, unplug the power plug from the power outlet and remove the battery pack, then contact our service personnel.	–

Others

Problem	Cause & Solution	Page
The Wireless Camera's batteries run out of power quickly.	● The Wireless Camera is out of range of the Base Unit. – When the Wireless Camera is out of range of the Base Unit, it repeatedly searches for the Base Unit which causes the batteries' power to be consumed faster. Move the Base Unit so that it is within range of the Wireless Camera. ● The power plug is unplugged from the power outlet. – When the Base Unit is disconnected from the power outlet it causes the Wireless Camera to become out of range from the Base Unit. This causes the Wireless Camera to repeatedly search for the Base Unit which results in the batteries' power being consumed faster. When unplugging the power plug of the Base Unit, turn the slide switch of the Wireless Camera to OFF. ● You are using rechargeable batteries. – Depending on the capacity of the rechargeable batteries, their life span may become shorter. This is not a malfunction.	14 – –
There is a power failure.	● The unit does not work during a power failure. The date and time may be reset to the default setting after a power failure. – In this case, set the date and time again using the Wireless Monitor.	16

Problem	Cause & Solution	Page
The unit does not work with correct operations. (The unit does not work properly.)	● Perform the following operations. **Wireless Camera:** Replace the batteries. **Wireless Monitor:** Remove the battery pack and insert it again. – Program settings are not affected. **Base Unit:** Disconnect it from the power outlet and then reconnect it again.	30 15

Error messages

Problem	Cause & Solution	Page
CANNOT CONNECT TO CAMERA	The following may be causing the problem. ● The Wireless Camera is turned off. – Turn the Wireless Camera on.	11
	● The batteries of the Wireless Camera have run out of power. – Replace the batteries.	30
	● The Wireless Camera is turned on, but the Wireless Camera is out of range from the Base Unit. – Move the Base Unit to an area close to the Wireless Camera that has no obstructions between the Wireless Camera and Base Unit. (When the Wireless Camera is in range of the Base Unit it can connect to the Base Unit.) – Turn the power for the Wireless Camera off then on. (When the Wireless Camera is in range of the Base Unit it can connect to the Base Unit.) – When using a replacement Wireless Camera when servicing your original Wireless Camera, the replacement Wireless Camera must be paired to the Base Unit. Refer to the following for instructions on how to pair the Wireless Camera.	8 11
	■ **How to pair Wireless Cameras** After performing operations on the Base Unit, perform operations on the Wireless Camera within about 2 minutes. **Base Unit operations:** ① Press and hold the pair button located on the rear bottom side of the Base Unit for about 13 seconds (until the pair indicator flashes quickly) with a pointed object. ● The pair indicator will start to slowly flash after about 3 seconds of pressing the pair button, after about an additional 10 seconds the pair indicator starts flashing quickly (enters **CAMERA PAIRING MODE**). **Wireless Camera operations:** ② Insert the batteries (page 19). ③ Turn the power for the Wireless Camera on while pressing the pair button with a pointed object (keep pressing the pair button until the pair indicator starts flashing). ● The pair indicator starts flashing quickly. – **The pair indicator changes in the following manner when pairing is successfully completed:** flash quickly → light for about 10 seconds → go out – **The pair indicator changes in the following manner when pairing fails (Pairing must be performed again.):** flash quickly → go out	
Protected pic. Remove protection.	● The images are protected and therefore cannot be deleted. – Remove the protection to delete protected images.	25

Problem	Cause & Solution	Page
Protected pics full. **Can't protect pics.**	● The maximum number of protected images (5 images) has already been reached. – Remove the protection from other images before setting protection for the current image. Images that had their protection removed will be deleted in order as new images are recorded.	25 25
IN USE	● Another Wireless Monitor is being used. – Try again when the other Wireless Monitor is not being used.	–
CANNOT PAIR	● Pairing failed because pairing operations were not performed on the Wireless Monitor within the specified time (about 2 minutes). – Perform pairing again from the start after checking the power and connections for the Wireless Monitor to be paired.	29
CANNOT CONNECT TO BASE	● The Wireless Monitor is too far from the Base Unit, or there is a concrete wall or other obstruction between the Wireless Monitor and Base Unit. – Move the Wireless Monitor to an area close to the Base Unit that has no obstructions between the Wireless Monitor and Base Unit.	8

Specifications

Wireless Monitor (VL-DM200A)

■ **Power supply:**
Lithium ion battery (part number: CGA-LB102), @DC 3.7 V, 940 mAh@

■ **Dimensions (Height × Width × Depth):**
Approx. 21 mm (13/16 in.) × 126 mm (4 15/16 in.) × 59 mm (2 5/16 in.) @(excluding protruding sections)@
– When using the Base Unit: approx. @51 mm (2 in.) × @132 mm (5 3/16 in.) × @79.5 mm (3 1/8 in.) @(excluding protruding sections)@

■ **Weight:**
@Approx. 200 g (0.44 lb) @(including the battery pack)

■ **Operating temperature:**
5 °C to 40 °C (41 °F to 104 °F)

■ **Operating humidity:**
Up to 90 % RH (Relative Humidity) non condensing

■ **Display:**
2.2" color TFT LCD monitor

■ **Wireless transmission method:**
1.9 GHz TDMA-WB

■ **Talking method**
Half-duplex transmission (Press-talk)

■ **Usage time (with continuous use)[*1]:**
Monitor: approx. 2.5 hours
Standby: approx. 100 hours
*1 @When the battery pack is fully charged and the temperature is 20 °C (68 °F).

■ **Charging time:**
Approx. 6 hours

■ **Transmission frequency:**
1921.536 MHz - 1928.448 MHz

■ **Transmitting range:**
Approx. 70 m (229 ft 8 in.) (line-of-sight distance)

Base Unit (VL-MDM200A)

■ **Power supply:**
120 V AC, 60 Hz

■ **Power consumption:**
@During standby: approx. 1 W
@During operations: approx. 2 W (when used with the Wireless Monitor disconnected from the Base Unit)
@During charging: approx. 5 W

■ **Dimensions (Height × Width × Depth):**
Approx. 41 mm (1 5/8 in.) × 132 mm (5 3/16 in.) × 75 mm (2 15/16 in.) @(excluding protruding sections)@

■ **Weight:**
Approx. 175 g (0.39 lb)

■ **Operating temperature:**
5 °C to 40 °C (41 °F to 104 °F)

■ **Operating humidity:**
Up to 90 % RH (Relative Humidity) non condensing

■ **Wireless transmission method:**
1.9 GHz TDMA-WB

■ **Transmission frequency:**
1921.536 MHz - 1928.448 MHz

■ **Transmitting range:**
Approx. 70 m (229 ft 8 in.) (line-of-sight distance)

Wireless Camera (VL-CM851A)

■ **Power supply:**
Alkaline AA battery × 4

■ **Battery life:**
Maximum 6 months*1
*1 When used 5 times a day (displaying images for about 20 seconds each time) with a temperature of 20 °C (68 °F).

■ **Dimensions (Height × Width × Depth):**
- Wireless unit:
  Approx. 190 mm (7 1/2 in.) × 78 mm (3 1/16 in.) × 58 mm (2 5/16 in.) @(excluding protruding sections)
- Camera unit:
  Approx. 37 mm (1 7/16 in.) × 87.5 mm (3 7/16 in.) × 40 mm (1 9/16 in.) @(excluding protruding sections)

■ **Weight:**
Approx. 390 g (0.86 lb) (excluding batteries)

■ **Operating temperature:**
- Wireless unit (used indoors):
  0°C to 40 °C (32 °F to 104 °F)
- Camera unit (used outdoors):
  -20°C to 50 °C (-4 °F to 122 °F)

■ **Operating humidity:**
Up to 90 % RH (Relative Humidity) non condensing

■ **Installation method:**
Attached to a door

■ **Wireless transmission method:**
1.9 GHz TDMA-WB

■ **Minimum illuminance:**
3 lx

■ **Water resistant proprieties:**
IPx3 equivalent (Camera unit)*1
*1 IPX-3 specifies protection against spraying water and water spraying up to 60° from vertical.@

■ **Viewing angle:**
- Horizontal: approx. 120°
- Vertical: approx. 90°

■ **Transmission frequency:**
1921.536 MHz - 1928.448 MHz

■ **Transmitting range:**
Approx. 70 m (229 ft 8 in.) (line-of-sight distance)

For users in the United States Only (FCC and other information)

This device complies with Part 15 of the FCC Rules.
Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.

CAUTION:
Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this device.

NOTE:
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
– Reorient or relocate the receiving antenna.
– Increase the separation between the equipment and receiver.
– Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
– Consult the dealer or an experienced radio/TV technician for help.

FCC RF Exposure Warning
- This product complies with FCC radiation exposure limits set forth for an uncontrolled environment.
- To comply with FCC RF exposure requirements, the unit must be installed and operated 20 cm (8 inches) or more between the product and all person's body (excluding extremities of hands, wrist and feet).
- This product may not be collocated or operated in conjunction with any other antenna or transmitter.

Notice:
FCC ID can be found on the bottom of the Wireless Camera and Wireless Monitor, and on the electrical parts of the Base Unit.

For users in Canada Only (Industry Canada Notices and other information)

NOTICE:
This product meets the applicable Industry Canada technical specifications.

RF Exposure Warning:
- This product complies with IC radiation exposure limits set forth for an uncontrolled environment.
- To comply with IC RF exposure requirements, the unit must be installed and operated 20 cm (8 inches) or more between the product and all person's body (excluding extremities of hands, wrist and feet).
- This product may not be collocated or operated in conjunction with any other antenna or transmitter.

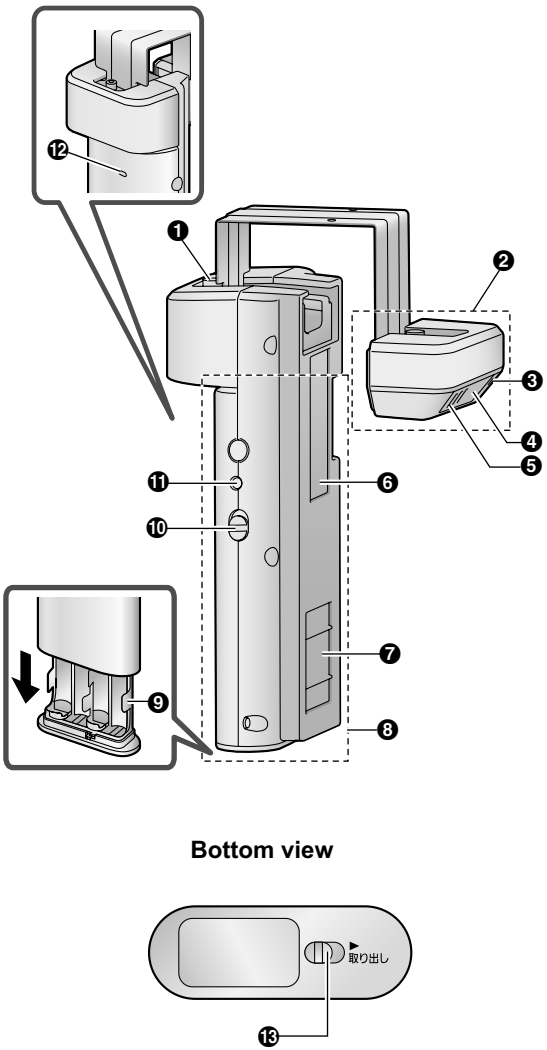
This Class B digital apparatus complies with Canadian ICES-003.

Quick Reference Guide (in Spanish)

Quick Reference Guide

Location of controls

VL-CM851A



❶ Fixing screw

❷ Camera unit

❸ Microphone

❹ Camera lens

❺ Speaker

❻ Cable protection sheet

❼ Magnet/rubber

❽ Wireless unit

❾ Battery case

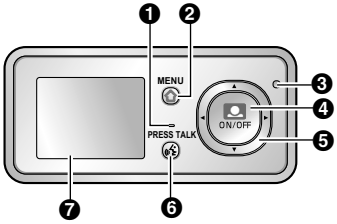
❿ Power slide switch (ON / OFF)

⓫ Pair button

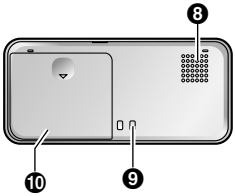
⓬ Pair indicator

⓭ Slide lever

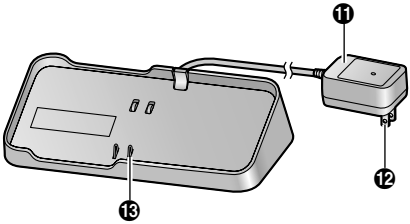
VL-DM200A



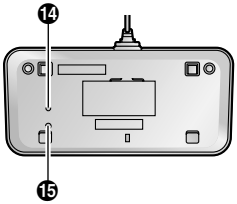
Bottom view



VL-MDM200A



Bottom view



❶ Microphone

❷ Menu button

❸ Charger indicator

❹ Monitor button

❺ Navigator key

❻ Talk button

❼ Monitor display

❽ Speaker

❾ Charge contacts (metal parts)

❿ Battery cover

⓫ Electrical parts

⓬ Power plug

⓭ Charge contacts (metal parts)

⓮ Pair indicator

⓯ Pair button

Basic Operations

- The number after the button shows the location of the button described in the previous page.

■ **To monitor**

Press 【 】(Monitor button) (❹). ➡ Press 【】(Monitor button) to finish.

■ **To switch the displayed image between Wide display and Zoom display (The default is wide.)**

Press 【】(Monitor button) (❹) for about 3 seconds to switch between Wide display and Zoom display.

■ **To talk**

Press and hold **【PRESS TALK】** (❻) while monitoring.
(You cannot hear the sound from the other party while pressing **【PRESS TALK】**.)

■ **To record the displayed image**

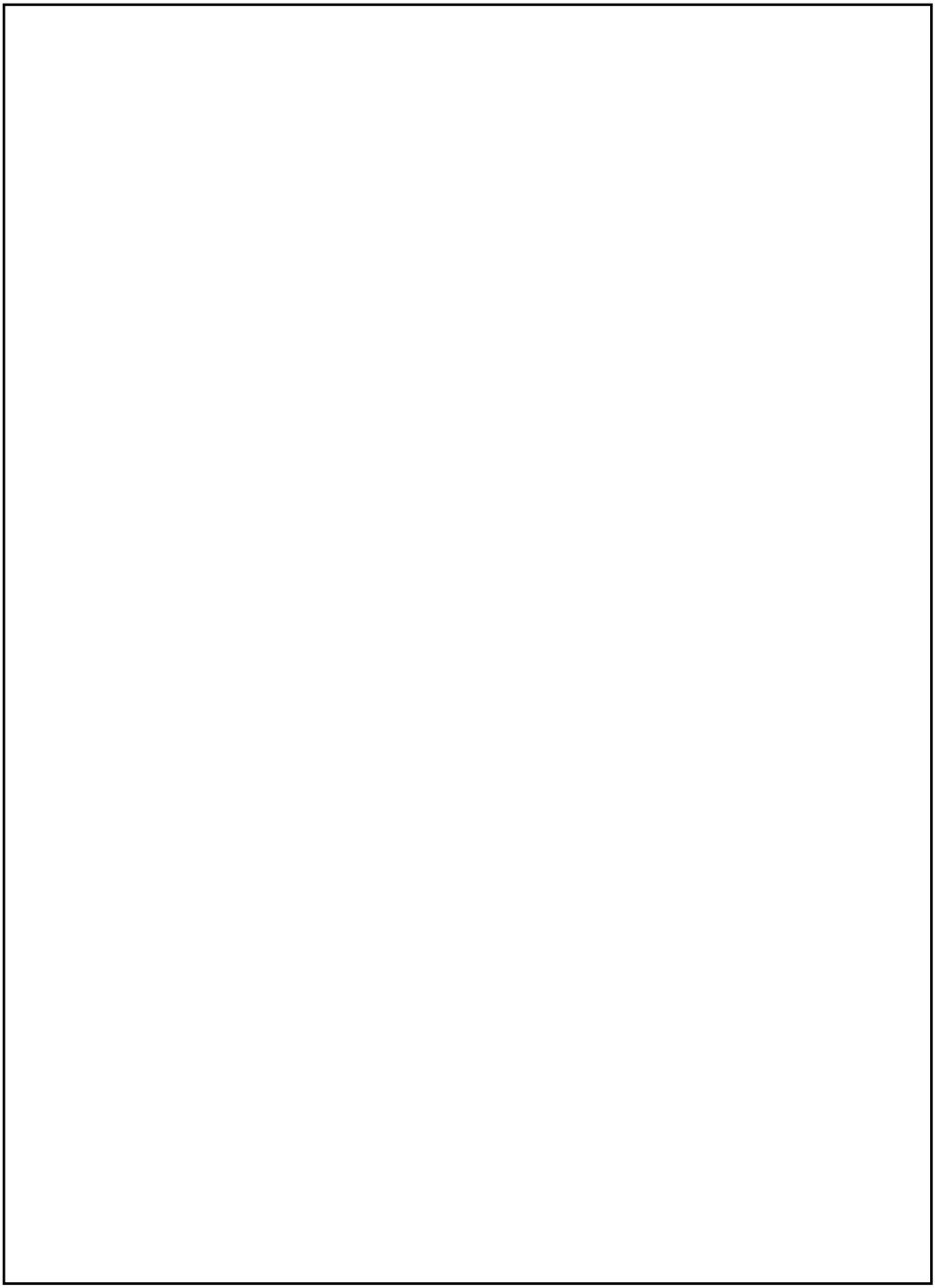
Press **【MENU】** (❷) while monitoring. ➡ Press 【►】 (❺).

■ **To view recorded images**

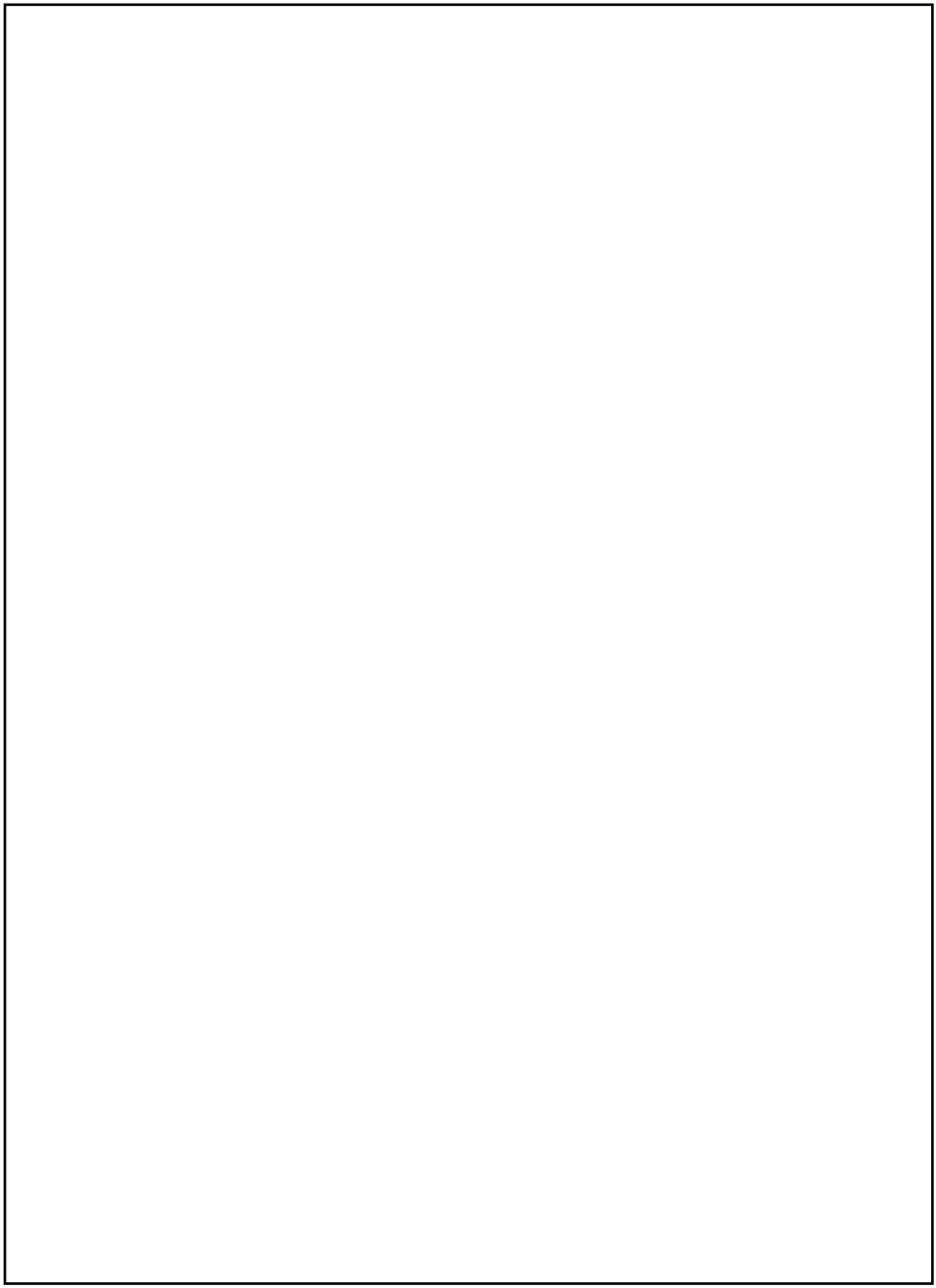
Press **【MENU】** (❷). ➡ Select **"PLAY IMAGES"** using 【▲】 or 【▼】 (❺). ➡ Press 【】(Monitor button) (❹). ➡ Press 【】(Monitor button) to finish.

Customer services (For United States)

Warranty (For United States)



Warranty (For Canada)



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For your future reference

Date of purchase

Serial number (found on the bottom of the Base Unit)

Dealer's name and address

Dealer's telephone number

Attach your sales receipt here.

For customers in the U.S.A:

Panasonic Corporation of North America
One Panasonic Way, Secaucus, New Jersey 07094

For assistance, visit our website:
http://www.panasonic.com
for customers in the U.S.A. and Puerto Rico.

For customers in Canada:

Panasonic Canada Inc.
5770 Ambler Drive, Mississauga, Ontario L4W 2T3

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