

Panasonic®

Operating Instructions

Wireless Door Monitor

Model No. **VL-DM200BX**



Thank you for purchasing a Panasonic product.

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

The unit can be paired to the VL-SDM200BX (Base Unit: VL-MDM200BX).

Before using the unit, it must be charged and paired to the Base Unit (page 9, 10).

This manual only covers the information necessary for pairing and initial use of the unit. For detailed information about operations, see Operating Instructions for Wireless Door Camera (VL-SDM200BX).

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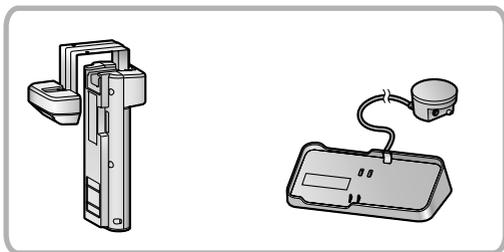
Product information

The unit is an additional Wireless Monitor designed to be used with the Panasonic Wireless Door Camera (described in this manual as VL-SDM200BX).

In order to use the unit, it must be paired to the Base Unit of the VL-SDM200BX.

- Devices in this manual are described in the following way.

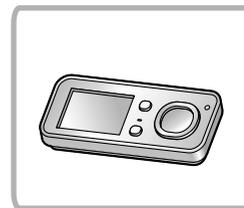
**Wireless Door Camera
VL-SDM200BX**



Wireless Camera

Base Unit

The unit



Wireless Monitor

Accessory information

Supplied accessories

① Charger*1 ... × 1



② AC adaptor*2 ... × 1



③ Battery pack ... × 1



④ Operating Instructions ... × 1



*1 Cradle Charger is described in this manual as Charger.

Only used for charging (doesn't have functions like the Base Unit).

Only connect the Charger to Power sources in areas that do not display  (Out of range).

*2 Used for the Charger.

Additional/replacement accessories

– Battery pack for Wireless Monitor: CGA-LB102*1

*1 As of February, 2013.

Note:

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

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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.
- Use only the specified AC adaptor.
- Do not overload power outlets and extension cords. This can result in the risk of fire or electric shock.
- Completely insert the AC adaptor 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 AC adaptor 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 AC adaptor 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 AC adaptor) that may damage the AC adaptor. Using the unit with a damaged AC adaptor 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 Charger or the AC adaptor 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 AC adaptor 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 AC adaptor from the power outlet and refer servicing to an authorized service center.
- Never spill any liquids on the AC adaptor, or get the AC adaptor wet in any way. This may cause fire, electric shock, or injury. If the AC adaptor becomes wet, immediately unplug the AC adaptor 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 AC adaptor is damaged or frayed.
 - If metal objects have been dropped inside the Charger.

Important Information

- If the Charger 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 1.88 GHz to 1.90 GHz, and the RF transmission power is 250 mW (max.))
- Do not use the product in health care facilities if any regulations posted in the area instruct you not to do so. Hospitals or health care facilities may be using equipment that could be sensitive to external RF energy.

Battery pack

- Charge the battery (included or recommended) 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:
 - 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, or tamper with the Charger.
 - 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.
- If the battery is leaking, do not come into contact with the electrolyte from the battery or let it get in your eyes. This may cause injury 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.
- Do not remove the battery from its original packaging.
- Do not subject the battery to mechanical shock.
- Keep the battery out of the reach of children.
- Keep the battery clean and dry.
- Wipe the battery terminals with a clean dry cloth if they become dirty.
- Do not leave a battery on prolonged charge when not in use.
- Remove the battery from the equipment when not in use.

CAUTION

Installation and relocation

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

- In order to prevent the risk of injury from the unit falling, never use the unit in an unstable place or a place that is exposed to strong vibrations.

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 AC adaptor and battery pack indicated in this manual.
- Do not dispose of the battery in a fire. It may explode. Check with local waste management codes for special disposal instructions.

SAVE THESE INSTRUCTIONS

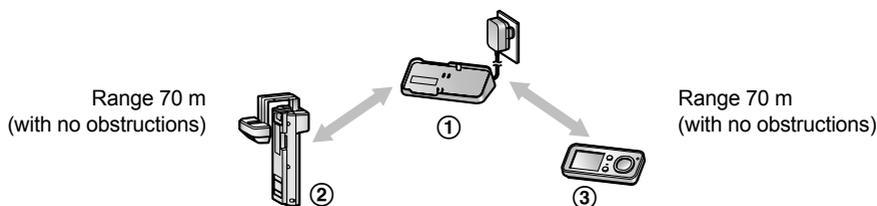
For best performance

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.
- 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.
- 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.

Important Information

- The unit should not be exposed to direct sunlight.
- The unit is not waterproof. Do not get the unit wet. Failure to do this may cause 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.
- 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 or greater than 40 °C. Damp basements should also be avoided. To avoid damage, charge the battery only in temperatures ranging from 5 °C to 40 °C.
- Even when the Wireless Monitor and Wireless Camera are within 70 m and not used too close together, if there are 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. (For information about the signal display, see Operating Instructions for Wireless Door Camera (VL-SDM200BX).)
 - walls with 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.

Others

- Red color indication of LED on this product is not related to the safety.

Requesting repairs for the unit

Note:

- The setting of the unit may be returned to factory default after the unit is serviced.

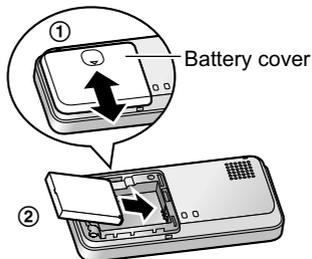
Charging the Wireless Monitor

Charge the Wireless Monitor for at least 30 minutes before pairing it to the Base Unit for the first time*1 (page 10). After pairing, replace the Wireless Monitor and complete charging.

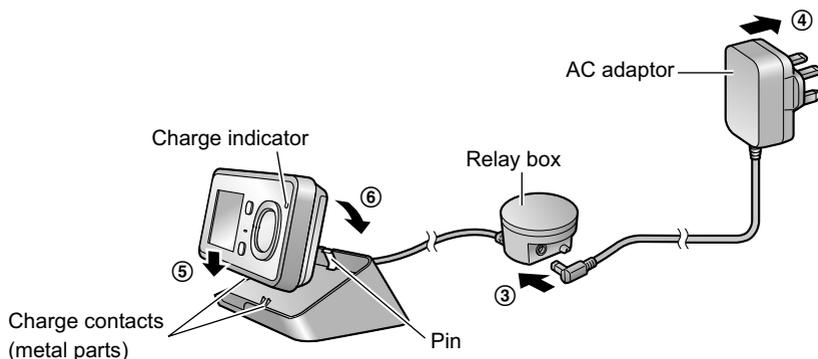
*1 This time is a guide for the time required when the temperature is 20 °C. When the surrounding temperature is low, the time required for charging may increase.

1 Insert the battery pack.

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



2 Plug the connector into the relay box firmly (③), and then plug the AC adaptor into a power outlet (100-240 V AC, 50/60 Hz) (④).



3 Place the Wireless Monitor on the lower part of the Charger (⑤), and then firmly push it into the Charger until it clicks into place (⑥). 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.)
- When the signal display for the Wireless Monitor is \times (out of range), the charging time increases.
- The Wireless Monitor can be left on the Charger 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 Charger, remove the upper part of the Wireless Monitor first.

Note:

- In order to maintain battery pack performance, remove the battery pack when the Wireless Monitor is not in use for long periods of time.

Getting Started

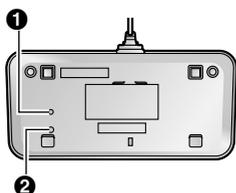
- Recharge the battery pack before using the Wireless Monitor again.

Pairing to the Base Unit

- The Wireless Monitor () can be used by pairing it to the Base Unit ()^{*1} of the Wireless Door Camera.

- 1  ^{*1}: Plug the AC adaptor of the Base Unit into the power outlet.
- 2  ^{*1}: Press and hold the pair button (2) located on the bottom side of the Base Unit^{*1} for about 3 seconds with a pointed object.
 - Stop pressing the pair button (2) when the pair indicator (1) starts to slowly flash.

<Bottom view^{*1}>



- 3 : Place the additional Wireless Monitor () on the Base Unit ()^{*1}, and then press **[MENU]**.
 - Press **[MENU]** within 2 minutes of performing step 2.
- 4 : Press **[MON]** (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^{*1} (for monitoring or other purposes).
- The monitor number of the Wireless Monitor to be paired cannot be specified.

^{*1} Base Unit of the VL-SDM200BX.

To pair canceled Wireless Monitors

- Perform the following operations within 2 minutes after pressing and holding the pair button of the Base Unit () as explained in step 1 and 2 above.

- 1 Press **[MENU]**.
- 2 Select “ALL SETTINGS” by pressing arrow keys (**[▲]**, **[▼]**, **[◀]**, or **[▶]**), then press **[MON]** (Monitor button) (“OK”).
- 3 Select “PAIRING/CANCEL” by pressing **[▲]** or **[▼]**, then press **[MON]** (Monitor button) (“OK”).
- 4 Select “PAIRING” by pressing **[▲]** or **[▼]**, then press **[MON]** (Monitor button) (“OK”).
- 5 Select “MONITOR”, then press **[MON]** (Monitor button) (“OK”).
- 6 Press **[MON]** (Monitor button).
- 7 To finish the operation, press **[MENU]** 2 times.

Canceling the Wireless Monitor

- These operations can be performed on all paired Wireless Monitors.
 - The Wireless Monitor performing these operations cannot be unpaired.
- 1 Press **[MENU]**.
 - 2 Select “**ALL SETTINGS**” by pressing arrow keys (**[▲]**, **[▼]**, **[◀]**, or **[▶]**), then press **[MON]** (Monitor button) (“OK”).
 - 3 Select “**PAIRING/CANCEL**” by pressing **[▲]** or **[▼]**, then press **[MON]** (Monitor button) (“OK”).
 - 4 Select “**CANCELATION**” by pressing **[▲]** or **[▼]**, then press **[MON]** (Monitor button) (“OK”).
 - 5 Select “**MONITOR**”, then press **[MON]** (Monitor button) (“OK”).
 - 6 Select the Wireless Monitor to cancel by pressing **[▲]** or **[▼]**, then press **[MON]** (Monitor button) (“OK”).
 - Wireless Monitors are displayed in gray and cannot be canceled in the following situations:
 - 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:

- Remove the battery packs from the canceled Wireless Monitors to prevent any false operations.

Specifications

Wireless Monitor (VL-DM200BX)

■ Power supply:

Lithium ion battery (part number: CGA-LB102)

■ Dimensions (Height × Width × Depth):

Approx. 21 mm × 126 mm × 59 mm (excluding protruding sections)

– When using with the Charger:

approx. 51 mm × 132 mm × 79.5 mm (excluding protruding sections)

■ Weight:

Approx. 120 g (including the battery pack)

■ Operating temperature:

5 °C to 40 °C

■ 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:

Standby: approx. 100 hours

Monitor: approx. 2.5 hours

*1 When the battery pack is fully charged and the temperature is 20 °C.

■ Charging time*1:

Approx. 6 hours

*1 When paired to the Base Unit.

■ Transmission frequency:

1881.792 MHz - 1897.344 MHz

■ Transmitting range:

Approx. 70 m (line-of-sight distance)

Charger

■ Power supply:

AC adaptor (PNLV232BX) (100-240 V AC, 50/60 Hz)

■ Power consumption:

Standby*1: approx. 0.5 W

Charging: approx. 3 W

*1 When the Wireless Monitor is not placed on the Charger.

■ Dimensions (Height × Width × Depth):

Charger section: approx. 41 mm × 132 mm × 75 mm (excluding protruding sections)

Relay box: approx. 46.5 mm × 46.5 mm × 25 mm (excluding protruding sections)

■ **Weight:**

Approx. 114 g

■ **Operating temperature:**

5 °C to 40 °C

■ **Operating humidity:**

Up to 90 % RH (Relative Humidity) non condensing

For your future reference

Date of purchase

Serial number (found on the bottom of the Charger)

Dealer's name and address

Dealer's telephone number

Attach your sales receipt here.



Panasonic System Networks Co., Ltd.

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

Web site: <http://www.panasonic.net/>

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