

Panasonic®

Installation Guide

Home Network System Glass Break Sensor

Model No. **KX-HNS104**



Thank you for purchasing a Panasonic product.

This document explains how to install the glass break sensor properly. For details about how to use the system, refer to the User's Guide (page 14).

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

For assistance, please contact us at 1-800-272-7033 or visit our Web site: www.panasonic.com/support for customers in the U.S.A. or Puerto Rico.

Please register your product: www.panasonic.com/prodreg

Printed in China

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Accessory information

Supplied accessories

No.	Accessory item/Part number	Quantity
①	Batteries*1	2
②	Wall mounting adaptor*2/PNKK1111Z1	1
③	Wall mounting screws (25 mm (1 inch))/XTB4+25AVW	2

*1 When replacing batteries, see "Power source" of "Specifications", page 15 for battery information.

*2 The sensor can be wall mounted with or without the wall mounting adaptor (page 12).



Other information

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

Trademarks

- iPhone and iPad are registered trademarks of Apple Inc.
- Android is a trademark of Google Inc.

Important Information

About this system

This system is an auxiliary system; it is not designed to provide complete protection from property loss. Panasonic will not be held responsible in the event that property loss occurs while this system is in operation.

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 product.
- Do not connect non-specified devices.

Installation

- To prevent the risk of fire or electrical shock, do not expose the product to rain or any type of moisture.
- Do not place 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.
- Keep small parts (screws, etc.) out of the reach of children. There is a risk of swallowing. In the event they

are swallowed, seek medical advice immediately.

Operating safeguards

- Do not disassemble the product.

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. DECT features operate between 1.92 GHz and 1.93 GHz with a peak transmission power of 115 mW.
- 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.

CAUTION

Battery

- The batteries should be used correctly, otherwise the product may be damaged due to battery leakage.
- Do not charge, short-circuit, disassemble, or heat the batteries.
- Do not dispose of batteries in a fire.
- Remove all the batteries when replacing.
- Do not mix old, new or different types of batteries.
- It is recommended that batteries are replaced annually.
- Keep out of the reach of small children. There is a risk of swallowing. If the battery is

4 **For assistance, please visit www.panasonic.com/support**

Important Information

swallowed, seek medical attention immediately.

- Remove the battery if it becomes unusable. There is a risk of leakage, overheating, and rupture. Do not attempt to use a battery if it is leaking.
- Do not intentionally pour water on the battery or allow it to get wet. There is a risk of fire and smoke. If the battery becomes wet, remove it immediately and contact an authorized service center.

Important safety instructions

When using your product, basic safety precautions should always be followed to reduce the risk of fire, electric shock, and injury to persons, including the following:

1. Do not use this product near water for example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement or near a swimming pool.
2. Use only the batteries indicated in this document. Do not dispose of batteries in a fire. They may explode. Check with local codes for possible special disposal instructions.

SAVE THESE INSTRUCTIONS

For best performance

Hub location/avoiding noise

The hub and other compatible Panasonic devices use radio waves to communicate with each other.

- For maximum coverage and noise-free communications, place your hub:
 - at a convenient, high, and central location with no obstructions between the product and hub in an indoor environment.
 - away from electronic appliances such as TVs, radios, personal computers, wireless devices, or other phones.
 - facing away from radio frequency transmitters, such as external antennas of mobile phone cell stations. (Avoid putting the hub on a bay window or near a window.)
- If the reception for a hub location is not satisfactory, move the hub to another location for better reception.

Environment

- Keep the product away from electrical noise generating devices, such as fluorescent lamps and motors.
- The product should be kept free from excessive smoke, dust, high temperature, and vibration.
- The product should not be exposed to direct sunlight.
- Do not place heavy objects on top of the product.
- The product should be kept away from heat sources such as heaters, kitchen stoves, etc. It should not be placed in rooms where the

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Important Information

temperature is less than 0 °C (32 °F) or greater than 40 °C (104 °F). Damp basements should also be avoided.

- Operating the product near electrical appliances may cause interference. Move away from the electrical appliances.
- The sensor may make false detections in noisy locations, such as where there is noise from metallic blinds opening and closing, or metallic bells of alarm clocks. Avoid installing the sensor in these locations.
- The sounds of doors opening and closing may cause false detections. Do not install the sensor near doors.
- Do not place screens or shielding (such as sound blocking curtains) between the glass and sensor. This may prevent the sensor from being able to detect the sound of glass breaking.

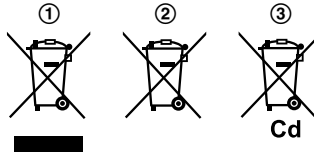
Other information

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

Routine care

- Wipe the outer surface of the product with a soft moist cloth.
- Do not use benzene, thinner, or any abrasive powder.

Information on Disposal in other Countries outside the European Union



These symbols (①, ②, ③) are only valid in the European Union. If you wish to discard these items, please contact your local authorities or dealer and ask for the correct method of disposal.

Note for the battery removal procedure

Refer to "Inserting the batteries" on page 9.

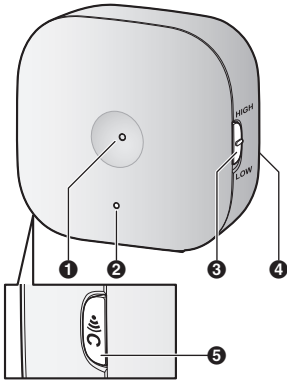
Important Information

Notice

- 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。

Setup

Part names and functions



- ① **Microphone**
- ② **LED indicator**
- ③ **[HIGH]/[LOW]**
Used to change the sensor sensitivity (page 14).
- ④ **Rear cover**
- ⑤ **[(•)]C**
Used to confirm the status of the sensor or register the sensor to the hub.

About the LED indicator

You can press [(•)]C and check the LED indicator to confirm the sensor's status.

Indicator	Status
Green, lit	No glass break detected
Red, lit	Glass break was detected
Red, blinking	Sensor is out of range of the hub
Green, blinking	Registration mode (You pressed and held [(•)]C)
Off	No battery power

Note:

- The LED indicator does not indicate sensor status if the sensor has not been registered (page 9).

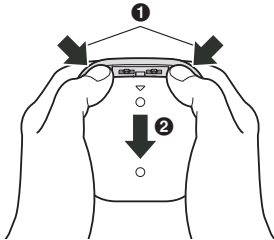
Setup overview

- 1 Initial setup**
Make sure you can access the system using your mobile device. For details, refer to the System Setup Guide included with your hub.
- 2 Insert the batteries**
The sensor is battery powered.
- 3 Registration**
Required only if the sensor was purchased separately (i.e., not as part of a bundle).
- 4 Confirm the installation area**
Read the information in this document to confirm that the desired installation area is suitable to proper operation.
- 5 Installation**
Install the sensor in the desired location.

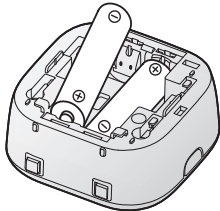
Inserting the batteries

- USE ONLY Alkaline batteries AA (LR6) size.
- Do NOT use Manganese/Ni-Cd/ Ni-MH batteries.
- Confirm the polarities (+, -).

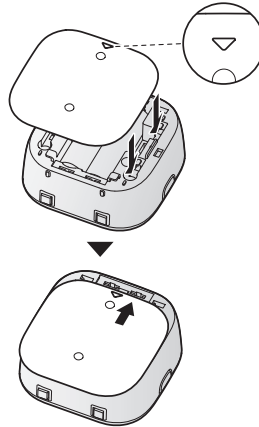
- 1 Remove the rear cover by pressing the upper sides of the cover (1) and sliding it down (2).



- 2 Insert the batteries.



- 3 Install the rear cover.
 - Place it with the "▽" mark facing upwards and slide it.



Registering the sensor

This procedure is not required for devices that were included as part of a bundle.

Before you can use the sensor, it must be registered to the hub.

If you purchased devices separately (i.e., not as part of a bundle), you must register each device to the hub.

You can register each device by using the registration buttons or the **[Home Network]** app.

Setup

Using registration buttons

- Hub:**
Press and hold **[ON] C OTHER DEVICE** until the LED indicator blinks in green.
- Sensor:**
Press and hold **[ON] C** until the LED indicator blinks in green (page 8).
 - When registration is complete, the hub sounds one long beep.

Note:

- To cancel the registration, press **[ON] C** on the hub and on the sensor.
- If registration fails, the hub sounds several short beeps.

Using the app

When you register the sensor by using the **[Home Network]** app, you can assign a name to your devices and group them by location. For more information, refer to the User's Guide (page 14).

Information about sensor features

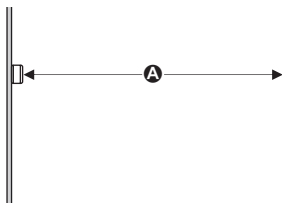
Please read the following information before deciding where to install the sensor.

Note:

- The sensor's features are not designed to be used in situations that require high reliability. We do not recommend use of the sensor's features in these situations.
- Panasonic takes no responsibility for any injury or damage caused by the use of the sensor.

Glass break sound detection

The sensor uses a microphone to detect the unique sound frequencies that are produced when glass breaks.



Sensor detection range (when set to **[HIGH]**):

A: approx. 5 m (16.4 feet)

Note:

- The sensor may make false detections when there is noise from metallic blinds opening and closing, metallic bells of alarm clocks, etc.

Applicable glass specifications

Type	Thickness
xxxx	Minimum: xx mm (xx inches) Maximum: xx mm (xx inches)
xxxx	Minimum: xx mm (xx inches) Maximum: xx mm (xx inches)

検知可能なガラスの仕様について記載予定です。
詳細については、電気ご担当者様と確認中です。

10 For assistance, please visit www.panasonic.com/support

Confirming the usage area

Wireless communication range

The wireless communication range of each device in the system from the hub is approximately 50 m (160 feet) indoors and approximately 300 m (1,000 feet) outdoors. Wireless communication may be unreliable when the following obstacles are located between the hub and other devices.

- Metal doors or screens
- Walls containing aluminum-sheet insulation
- Walls made of concrete or corrugated iron
- Double-pane glass windows
- Multiple walls
- When using each device on separate floors or in different buildings

Note:

- You can check the sensor's communication status by pressing **[•]C**. If the LED indicator is lit in green or red, the sensor is communicating properly with the hub. If the LED indicator blinks in red, it is out of range of the hub.

Usage area cautions

Using the sensor in the following areas may cause deformation, malfunction, or operational failure.

- In direct sunlight
- Areas exposed to grease or steam, such as kitchens

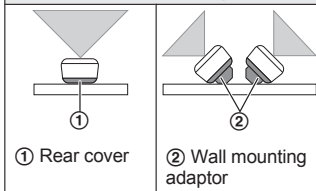
- Near fire or heating devices
- Near magnetic fields (such as near microwaves and magnets)
- Areas subject to extreme temperature changes, such as next to air conditioners
- Areas with reflective objects, such as glass, that can interfere with detection of temperature variation
- Areas where the temperature is affected by strong illuminating objects (such as fluorescent lights)
- Near devices that emit strong radio waves, such as mobile phones

Setup

Wall mounting

There are two methods for wall mounting the sensor. To mount the sensor flat against the wall, use the rear cover. To mount the sensor so that it faces 45° to the left or right, use the wall mounting adaptor.

Mounting examples*1 of the rear cover and wall mounting adaptor



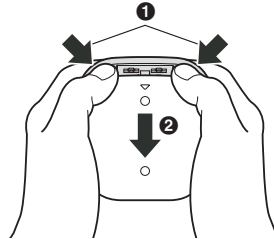
*1 View of looking from above.

Note:

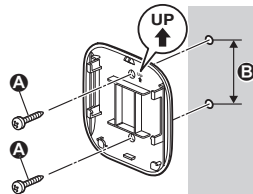
- Mount the sensor on the stable location where the sensor can be adequately supported when mounting.
- Do not mount the sensor on a soft material. It may fall down, break or cause injury.
- Do not mount the sensor on the following places: gypsum board, ALC (autoclaved lightweight cellular concrete), concrete block, plywood less than 25.4 mm (1 inch) thick, etc.

Using the rear cover

- 1 Remove the rear cover by pressing the upper sides of the cover (1) and sliding it down (2).

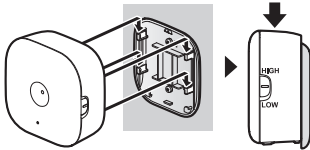


- 2 Attach the rear cover to the wall by using screws (A).
 - Place the rear cover with "UP" mark facing upwards.
 - B 37 mm (1 15/32 inches)



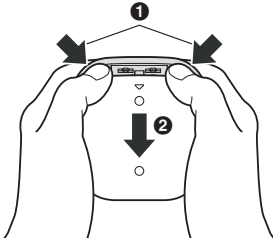
Setup

- 3** Attach the sensor to the rear cover.
- Insert the grooves on the sensor to the 4 tabs on the rear cover, and then push down the sensor.

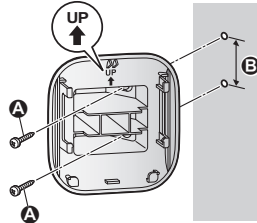


Using the wall mounting adaptor

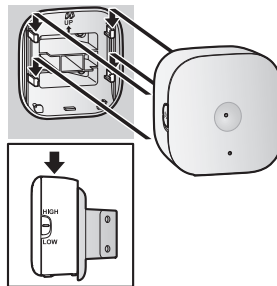
- 1** Remove the rear cover by pressing the upper sides of the cover (1) and then sliding it down (2).



- 2** Attach the wall mounting adaptor to the wall by using screws (A).
- Place the wall mounting adaptor with "UP" mark facing upwards.
 - **B** 21 mm (27/32 inches)



- 3** Attach the sensor to the wall mounting adaptor.
- Insert the grooves on the sensor to the 4 tabs on the wall mounting adaptor, and then push down the sensor.



Appendix

Testing the glass break sensor

After you have installed the **[Home Network]** app on your mobile device, you can use your mobile device to test the glass break sensor. For more information, refer to the User's Guide (page 14).

- 1 Start the **[Home Network]**, and tap **[Settings]**.
- 2 Tap **[Device Registration]** and select **[Device Profiles]**.
- 3 Tap **[Glass Break Sensor]** and select **[Detection Test]**.
- 4 Place your mobile device near the sensor and tap **[Play]**.
 - Your mobile device plays back the sound of glass breaking.
- 5 Confirm that the sensor's LED indicator light in red to indicate that it has detected the sound of breaking glass.
- 6 Tap **[OK]** when finished.

Adjusting the sensor sensitivity

You can use the **[HIGH]/[LOW]** switch (page 8) to adjust the sensor's sensitivity.

Set it to **[LOW]** if the sensor frequently makes false detections.


Features available when using the **[Home Network]** app

Some of the sensor's features that are available when using the **[Home Network]** app are listed below. For more information, refer to the User's Guide (page 14).

- **Alarm system**
You can use the app to arm and disarm the alarm system, confirm the current status of the sensor, and view a log of previous events.
- **Sensor integration**
You can configure the sensor to trigger other system events, such as camera recording, turning on an electric device (such as a lamp), etc. (Appropriate device required.)
- **Telephone alert**
You can configure the system to call a preprogrammed phone number when the sensor is triggered.

Accessing the User's Guide

The User's Guide is a collection of online documentation that helps you get the most out of the **[Home Network]** app.

- 1 **iPhone®/iPad®**
Tap  in the app's home screen.
Android™ devices
Tap  or press your mobile device's menu button in the app's home screen.
- 2 Tap **[User's Guide]**.

Note:

- You can also access the User's Guide at the web page listed below.



www.panasonic.net/pcc/support/tel/homenetwork/manual/

Specifications

- **Standards**
DECT 6.0 (Digital Enhanced Cordless Telecommunications 6.0)
- **Frequency range**
DECT: 1.92 GHz – 1.93 GHz
- **RF transmission power**
DECT: 115 mW (max.)
- **Power source**
AA (LR6) Alkaline battery (2 × 1.5 V)
- **Operating conditions**
0 °C – 40 °C (32 °F – 104 °F)
- **Detection method**
xx sensor
- **Sensor detection range**
Horizontal: approx. ±xx°
Vertical: approx. ±xx°
Distance: approx. 5 m (16.4 feet)
(when the surrounding temperature is approx. 25 °C (77 °F))
- **Battery life**
Approx. 1 year (when the sensor is triggered once a month and the surrounding temperature is approx. 25 °C (77 °F))
- **Dimensions**
 - With the rear cover attached:
Approx. 72 mm × 73 mm × 39 mm (2 27/32 inches × 2 7/8 inches × 1 17/32 inches)

- With the wall mounting adaptor attached:
Approx. 72 mm × 73 mm × 61 mm (2 27/32 inches × 2 7/8 inches × 2 13/32 inches)
- **Mass (weight)**
 - With the rear cover attached:
Approx. xx g (xx lb), excluding the batteries
 - With the wall mounting adaptor attached:
Approx. xx g (xx lb), excluding the batteries

電気ご担当者様
検知方式について、ベースとしたHNS102には記載がありました。HNS104についても、検知方式についての記載が必要でしょうか？
検知方式の記載が必要な場合は、お手数ですが、検知方式の名称を教えてくださいませんか？

Appendix

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.

Privacy of communications may not be ensured when using this device.

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.

Some devices operate at frequencies that may cause interference to nearby TVs and VCRs. To minimize or prevent such interference, the devices should not be placed near or on top of a TV or VCR. If interference is experienced, move this device away from the TV or VCR. This will often reduce or eliminate interference.

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 device must be installed and operated 20 cm (8 inches) or more between the product and all person's body.
- This product may not be collocated or operated in conjunction with any other antenna or transmitter.
- For body-worn operation, the device must be used only with a non-metallic accessory. Use of other accessories may not ensure compliance with FCC RF exposure requirements.

Notice:

- FCC ID can be found inside the battery compartment.

Customer services

Customer Services Directory (United States and Puerto Rico)

Obtain Product Information and Operating Assistance; locate your nearest Dealer or Service Center; purchase Parts and Accessories; or make Customer Service and Literature requests by visiting our Web Site at:

www.panasonic.com/support

or, contact us via the web at:

www.panasonic.com/contactinfo

You may also contact us directly at: 1-800-272-7033,
Monday - Friday 9 am to 9 pm; Saturday - Sunday 10 am to 7 pm, EST.

For hearing or speech impaired TTY users, TTY: 1-877-833-8855

Accessory Purchases (United States and Puerto Rico)

Purchase Parts, Accessories and Owner's Manual online for all Panasonic Products by visiting our Web Site at:

www.pstc.panasonic.com

or, send your request by E-mail to:

npcparts@us.panasonic.com

You may also contact us directly at: 1-800-237-9080 (Fax Only)
(Monday - Friday 9 am to 9 pm, EST.)

Panasonic National Parts Center
20421 84th Avenue S., Kent, WA 98032
(We accept Visa, MasterCard, Discover Card, American Express.)

For hearing or speech impaired TTY users, TTY: 1-866-605-1277

Appendix

Warranty (For United States and Puerto Rico)

Panasonic Home Network System Products Limited Warranty

Limited Warranty Coverage

If your product does not work properly because of a defect in materials or workmanship, Panasonic Corporation of North America (referred to as "the warrantor") will, for the length of the period indicated on the chart below, which starts with the date of original purchase ("Limited Warranty period"), at its option either (a) repair your product with new or refurbished parts, or (b) replace it with a new or a refurbished equivalent value product, or (c) refund your purchase price. The decision to repair, replace or refund will be made by the warrantor.

	Parts	Labor
Home Network System Products	One (1) Year	One (1) Year
microSD card (Included model only)	90 days	N/A

During the "Labor" Limited Warranty period there will be no charge for labor. During the "Parts" Limited Warranty period, there will be no charge for parts. You must mail-in your product prepaid during the Limited Warranty period. This Limited Warranty excludes both parts and labor for batteries, antennas, and cosmetic parts (cabinet). This Limited Warranty only applies to products purchased and serviced in the United States or Puerto Rico. This Limited Warranty is extended only to the original purchaser and only covers products purchased as new.

Mail-In Service--Online

Online Repair Request

To submit a new repair request and for quick repair status visit our Web Site at www.panasonic.com/repair

When shipping the unit carefully pack in a padded shipping carton, include all accessories, and send it prepaid. Include a letter detailing the complaint, a return address and provide a day time phone number where you can be reached. P.O. Boxes are not acceptable. Keep the tracking number for your records. A copy of valid registered receipt is required under the 1 year parts and labor Limited Warranty.

For Limited Warranty service for headsets if a headset is included with this product please follow instructions above.

IF REPAIR IS NEEDED DURING THE LIMITED WARRANTY PERIOD THE PURCHASER WILL BE REQUIRED TO FURNISH A SALES RECEIPT/PROOF OF PURCHASE INDICATING DATE OF PURCHASE, AMOUNT PAID AND PLACE OF PURCHASE. CUSTOMER WILL BE CHARGED FOR THE REPAIR OF ANY UNIT RECEIVED WITHOUT SUCH PROOF OF PURCHASE.

18 For assistance, please visit www.panasonic.com/support

Limited Warranty Limits And Exclusions

This Limited Warranty ONLY COVERS failures due to defects in materials or workmanship, and DOES NOT COVER normal wear and tear or cosmetic damage. The Limited Warranty ALSO DOES NOT COVER damages which occurred in shipment, or failures which are caused by products not supplied by the warrantor, or failures which result from accidents, misuse, abuse, neglect, bug infestation, mishandling, misapplication, alteration, faulty installation, set-up adjustments, misadjustment of consumer controls, improper maintenance, power line surge, lightning damage, modification, introduction of sand, humidity or liquids, commercial use such as hotel, office, restaurant, or other business or rental use of the product, or service by anyone other than a Factory Service Center or other Authorized Servicer, or damage that is attributable to acts of God.

THERE ARE NO EXPRESS WARRANTIES EXCEPT AS LISTED UNDER "LIMITED WARRANTY COVERAGE". THE WARRANTOR IS NOT LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS LIMITED WARRANTY. (As examples, this excludes damages for lost time, lost calls or messages, cost of having someone remove or re-install an installed unit if applicable, travel to and from the servicer. The items listed are not exclusive, but are for illustration only.) **ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTY OF MERCHANTABILITY, ARE LIMITED TO THE PERIOD OF THE LIMITED WARRANTY.**

Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the exclusions may not apply to you. This Limited Warranty gives you specific legal rights and you may also have other rights which vary from state to state. If a problem with this product develops during or after the Limited Warranty period, you may contact your dealer or Service Center. If the problem is not handled to your satisfaction, then write to the warrantor's Consumer Affairs Department at the addresses listed for the warrantor.

PARTS AND SERVICE, WHICH ARE NOT COVERED BY THIS LIMITED WARRANTY, ARE YOUR RESPONSIBILITY.

When you ship the product

- Carefully pack your unit, preferably in the original carton.
- Attach a letter, detailing the symptom.
- Send the unit to Panasonic Exchange Center, prepaid and adequately insured.
- Do not send your unit to Panasonic Corporation of North America listed on the back cover or to executive or regional sales offices. These locations do not repair consumer products.

IMPORTANT!

If your product is not working properly. . .

- ① **Use alkaline batteries.**
(Rechargeable Ni-MH batteries CANNOT be used.)
- ② Use the **Home Network app** to access the **User's Guide** and refer to the **Troubleshooting** section.



Visit our Web site: www.panasonic.com/support
● FAQ and troubleshooting hints are available.

For your future reference

We recommend keeping a record of the following information to assist with any repair under warranty.

Serial No.	Date of purchase
(found inside the battery compartment)	
Name and address of dealer	

Attach your purchase receipt here.

Panasonic Corporation of North America

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