

**Panasonic<sup>®</sup>**

## Installation Guide

**Home Network System  
Indoor Camera**

Model No. **KX-HNC200E**



**Thank you for purchasing a Panasonic product.**

This document explains how to install the indoor camera 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 dedicated help, support, or advice, available to help you Monday - Friday, 09:00 - 23:00. For U.K., please contact us on 0330 3331112 and for Ireland 01 4475228.

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## Accessory information

### Supplied accessories

No.	Accessory item/Part number	Quantity
①	AC adaptor/PNLV236E0Z	1

①



### Other information

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

### Trademarks

- microSDHC is a trademark of SD-3C, LLC.
- iPhone and iPad are trademarks of Apple Inc., registered in the U.S. and other countries.
- Android is a trademark of Google Inc.
- Microsoft, Windows, and Internet Explorer are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.
- All other trademarks identified herein are the property of their respective owners.

### Sales and support information

#### Customer Communications Centre

- For customers within the U.K.: 0330 3331112
- For customers within Ireland: 01 4475228
- For further support on your product, please visit our website: [www.panasonic.co.uk](http://www.panasonic.co.uk)

#### Direct Sales at Panasonic U.K.

- Order accessory and consumable items for your product with ease and confidence by phoning our Customer Communications Centre Monday - Friday 9:00am - 5:00pm (Excluding public holidays).
- Go on line through our Internet Accessory ordering application at [www.pas-europe.com](http://www.pas-europe.com)
- Most major credit and debit cards accepted.
- All enquiries transactions and distribution facilities are provided directly by Panasonic U.K.

### Notice

- The hub supports microSD and microSDHC memory cards. In this document, the term "microSD card" is used as a generic term for any of the supported cards.

## Introduction

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### General information

- The objective hub for the following model is shown below:
  - KX-HNC200E (Hub: KX-HNB600E)
- Please read “General information” of the hub’s system setup guide for information regarding R&TTE Directive.
- Please read “Ecodesign information” of the hub’s system setup guide for information regarding ErP directive.

### 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 on the bottom of the stand)	
Name and address of dealer	

Attach your purchase receipt here.
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## 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.
- This product should not be used as substitute for a medical or caregiver's supervision. It is the caregiver's responsibility to stay close enough to handle any eventuality.
- The system's wireless features are subject to interference, therefore functionality in all situations cannot be guaranteed. Panasonic will not be held responsible for injury or damage to property that occurs in the event of wireless communication error or failure.

### 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 overload power outlets and extension cords. This can result in the risk of fire or electric shock.
- Completely insert the AC adaptor/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 AC adaptor/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.
- Unplug the product from power outlets if it emits smoke, an abnormal smell, or makes an unusual noise. These conditions can

cause fire or electric shock. Confirm that smoke has stopped emitting and contact an authorised service centre.

- Unplug from power outlets and never touch the inside of the product if its casing has been broken open. Danger of electric shock exists.
- Never touch the plug with wet hands. Danger of electric shock exists.
- 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.
- Do not allow the AC adaptor to be excessively pulled, bent or placed under heavy objects.
- Keep small parts, such as microSD cards and screws, out of the reach of children. There is a risk of swallowing. In the event they are swallowed, seek medical advice immediately.

### Operating safeguards

- Unplug the product from power outlets before cleaning. Do not use liquid or aerosol cleaners.
- Do not disassemble the product.
- Never put metal objects inside the product. If metal objects enter the product, turn off the circuit breaker and contact an authorised service centre.

### 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 1.88 GHz and 1.90 GHz with a peak transmission power of 250 mW.
- Do not use the product in health care facilities if any regulations posted in the

## Important Information

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

#### Installation and location

- Never install wiring during a lightning storm.
- The AC adaptor is used as the main disconnect device. Ensure that the AC outlet is installed near the product and is easily accessible.
- To avoid the risk of strangulation, keep the product and the AC adaptor cord at least 1 m from a child's crib and out of the reach of small children.
- Mount the product on the stable location where the camera can be adequately supported when installing.
- Do not mount the product on soft material. It may fall down, break or cause injury.
- Do not mount the product on the following materials: gypsum board, ALC (autoclaved lightweight cellular concrete), concrete block, plywood less than 25 mm thick, and etc.

#### Preventing accidents and injuries

- Do not put your ear(s) near the speaker, as loud sounds emitted from the speaker may cause hearing impairment.

## 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 power cord indicated in this document.

#### 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.
- Do not expose this product to direct sunlight or other forms of powerful light such as halogen lights for long periods of time. (This may damage the image sensor.)
- Do not place heavy objects on top of the product.
- When you leave the product unused for a long period of time, unplug the product from the power outlet.
- The product should be kept away from heat sources such as radiators, cookers, etc. It should not be placed in rooms where the temperature is less than 0 °C or greater than 40 °C. Damp basements should also be avoided.
- Operating the product near electrical appliances may cause interference. Move away from the electrical appliances.

## Important Information

### Other information

#### Routine care

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

#### Camera image quality

- Camera images may have the following characteristics.
  - Colours in images may differ from the actual colours.
  - When there is light behind the subject (i.e., backlighting), faces may appear dark.
  - Image quality may be reduced in dark locations.
  - Images may appear hazy when there are outdoor lights in use.

When the subject is lit by sunlight or halogen lights, black areas of the image may appear purplish. This is not a malfunction.

#### Protecting your recordings

- Do not remove the microSD card or disconnect the hub's AC adaptor while reading or writing data to the microSD card. Data on the card could become corrupted.
- If a microSD card malfunctions or is exposed to electromagnetic waves or static electricity, data on the card could become corrupted or erased. Therefore we recommend backing up important data to a computer or other device.

#### Disposal of Old Equipment (Only for European Union and countries with recycling systems)



This symbol on the products, packaging, and/or accompanying documents means that used electrical and electronic products must not be mixed with general household waste.

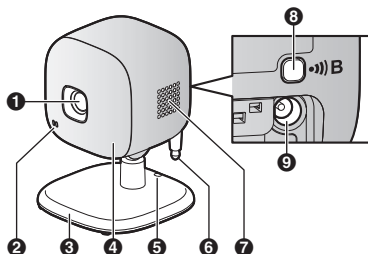
For proper treatment, recovery and recycling of old products, please take them to applicable collection points in accordance with your national legislation.

By disposing of them correctly, you will help to save valuable resources and prevent any potential negative effects on human health and the environment. For more information about collection and recycling, please contact your local municipality.

Penalties may be applicable for incorrect disposal of this waste, in accordance with national legislation.

## Setup

### Part names and functions



- 1** Lens unit
- 2** Microphone
- 3** Stand
- 4** LED indicator
- 5** Hole  
You can prevent the camera from falling by passing a string through the hole in the stand.
- 6** Temperature sensor
- 7** Speaker
- 8** [Speaker icon] B  
Used when registering the camera to the hub.
- 9** DC jack

### LED indicator

You can use the LED indicator to confirm the camera's status.

Indicator	Status
Off	No power, or LED indicator is turned off*1
Green, lit	Normal operation*1
Green, blinking	Registration mode
Red	Motion detected
Red, blinking	Live images are being viewed or recorded

Indicator	Status
Red, blinking quickly	Camera is out of range of the hub, or device malfunction
Amber, blinking	Camera is not registered to a hub

\*1 You can configure the camera so that its LED indicator does not light during normal operation. For more information, refer to the User's Guide (page 14).

### 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 Registration**  
Required only if the camera was purchased separately (i.e., not as part of a bundle).
- 3 Confirm the usage area**  
Read the information in this document to confirm that the desired usage area is suitable to proper operation.
- 4 Connection**  
Place the camera in the desired location and connect it to the power outlet.

### Registering the camera

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

Before you can use the camera, it must be registered to the hub.  
If the camera is not registered to a hub, the camera's LED indicator blinks in amber. You can register each device by using the registration buttons or the **[Home Network]** app.



**Note:**

- Before registering the camera, make sure the AC adaptors of the hub and camera are connected and each device is powered.

**Using registration buttons**

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

**Note:**

- To cancel without registering the camera, press **[CAMERA]** on the hub and on the camera again.
- If registration fails, the hub sounds several short beeps.

**Using the app**

When you register the camera 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**

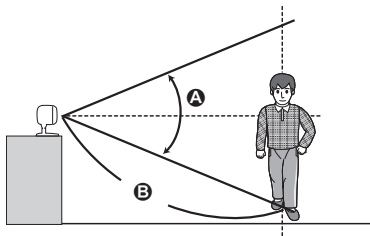
The camera has 3 sensor features: a visual sensor used for motion detection, a temperature sensor, and a sound sensor. Please read the following information about each sensor before deciding where to install the camera.

**Note:**

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

**Using visible light to detect motion**

The camera can detect motion by recognizing changes in the brightness of areas that are visible to the camera.



- A** Vertical detection range: approx. 50°
- B** Distance of detectable motion: approx. 5 m

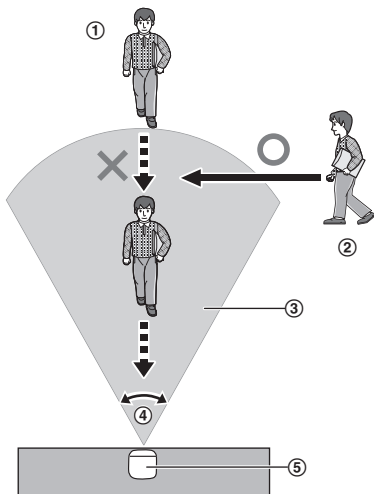
**Note:**

- Movement may be incorrectly detected when the moving object and the background have similar colours.
- Movement may be incorrectly detected when there are sudden changes to the overall brightness level, such as when lights are turned on.
- Detection becomes difficult when the image is dark.
- You can adjust the area detectable by the visual sensor. For more information, refer to the User's Guide (page 14).

## Setup

### Direction of motion

It is easier to detect objects that move sideways in front of the camera, and more difficult to detect objects that move directly toward the front of the camera.



- ① It is difficult to detect movement directly towards the front of the camera.
- ② It is easy to detect movement sideways in front of the camera.
- ③ Detection range
- ④ Horizontal detection range: approx. 70°
- ⑤ Camera

### Temperature sensor

The sensor is triggered when the set temperature range is exceeded.

#### Note:

- The temperature sensor may not detect temperature accurately if the camera is exposed to warm or cool breezes from heating/cooling systems.
- You can adjust the temperature setting of the temperature sensor. For more information, refer to the User's Guide (page 14).

### Sound sensor

The sensor is triggered when the set sound level is exceeded.

#### Note:

- The sound sensor does not function while the camera's lullaby feature is playing a lullaby.
- The sound sensor may not function as desired when the camera is placed in noisy environments.
- You can adjust the sound level setting of the sound sensor. For more information, refer to the User's Guide (page 14).

## Confirming the usage area

### Wireless communication range

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

- Metal doors or screens
- Walls containing aluminium-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:

- The camera's LED indicator blinks quickly in red if it is out of range of the hub. In this case, confirm all connections, including those of the hub.

### Usage area cautions

Using the camera 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

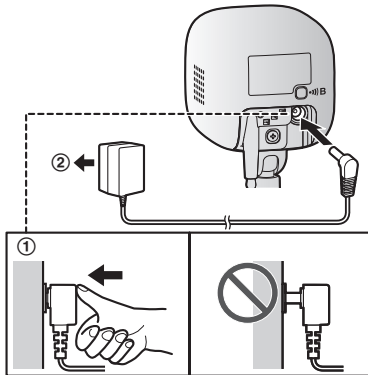
- Near magnetic fields (such as near microwaves and magnets)
- Areas subject to extreme temperature changes, such as next to air conditioners
- Areas with reflective objects, such as glass, that can interfere with detection of temperature variation
- Areas where the temperature is affected by strong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

## Connections

- ① Insert the AC adaptor plug firmly into the DC jack.
- ② Connect the AC adaptor to the power outlet.

### Note:

- Use only the supplied Panasonic AC adaptor PNLV236E.



## Note about power connections

### AC adaptor connection

- The AC adaptor must remain connected at all times. (It is normal for the adaptor to feel warm during use.)
- The AC adaptor should be connected to a vertically oriented or floor-mounted AC outlet. Do not connect the AC adaptor to a ceiling-mounted AC outlet, as the weight of the adaptor may cause it to become disconnected.

### Power failure

- The camera will not work during a power failure.

## Placing the camera on a flat area

When you place the camera on a flat area, you can prevent the camera from falling by passing a string through the hole (page 8) in the stand.

- 1 Pass a string (not supplied) through the hole in the stand.
- 2 Tie the string and hook it to the bracket.

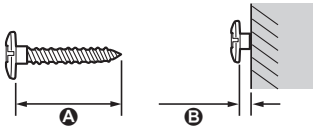
## Setup

### Wall mounting

- Mount the camera on the stable location where the unit can be adequately supported when installing.
- The AC adaptor should be connected to a vertically oriented or floor-mounted AC outlet. Do not connect the AC adaptor to a ceiling-mounted AC outlet, as the weight of the adaptor may cause it to become disconnected.
- Do not mount the camera on a soft material. It may fall down, break or cause injury.
- Do not mount the camera on the following places: plaster board, ALC (autoclaved lightweight cellular concrete), concrete block, plywood less than 25 mm thick, and etc.

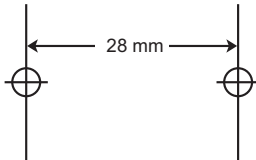
- 1 Drive the screws (not supplied) into the wall.

- **A** Longer than 20 mm
- **B** Space 1.3 mm



#### Note:

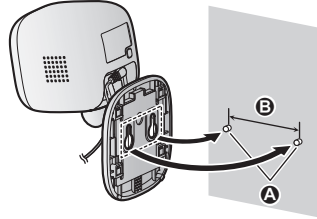
- Use the following template when determining the location of the screw holes.



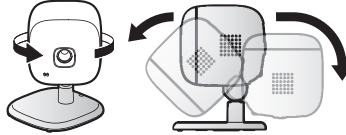
- 2 Mount the camera to the wall.

- **A** Screws

- **B** 28 mm



- 3 Adjust the angle of the camera.



## Testing the motion detection range

After you have installed the **[Home Network]** app on your mobile device, you can use your mobile device to test the performance of the camera's motion detection feature. For more information, refer to the User's Guide (page 14).

- 1 Start the **[Home Network]** app and display live images from the camera.
- 2 Move to an area within the camera's viewable area.
- 3 While moving near the camera, use your mobile device to observe where you are in the viewable area when the camera's motion detection feature is triggered.
  - When the motion detection feature is triggered, the camera's LED indicator lights in red for about 3 seconds.
- 4 Note the areas of the viewable area where movement is detected, and make adjustments as necessary.

### Note:

- You can adjust the area detectable by the visual sensor. For more information, refer to the User's Guide (page 14).

## Testing the microphone

To test the microphone, speak loudly and clearly into the microphone while a mobile device user is viewing live images from the camera.

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

Some of the 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.
- **Live camera monitoring**  
You can view live images from the camera, even while away from home.
- **Listen and talk**  
You can use your mobile device to talk and listen to anyone within range of the camera's microphone and speaker.
- **Sensor adjustment**  
You can adjust the detection range of the visual sensor and the setting levels of the sound sensor and temperature sensor.
- **Sensor integration**  
You can configure the camera's sensor features to trigger other system events, such as camera recording\*1, turning on an electric device (such as a lamp), etc. (Appropriate device required.)  
\*1 A commercially-available microSD card must be inserted into the hub in order to record images.
- **Notification**  
You can configure the camera to send a notification to the **[Home Network]** app when the camera's sensor features are triggered, for example, when motion is detected, if a baby is crying (sound sensor) or if the room becomes too warm or too cold (temperature sensor).

## Appendix


### 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:

- Microsoft® Windows® Internet Explorer® 8 and earlier versions are not supported.
- Android 4.1 or later versions are recommended.
- You can also access the User's Guide at the web page listed below.



[www.panasonic.net/pcc/support/tel/homenetwork/manual/](http://www.panasonic.net/pcc/support/tel/homenetwork/manual/)

### Specifications

- **Standards**  
DECT (Digital Enhanced Cordless Telecommunications)
  - **Frequency range**  
DECT: 1.88 GHz – 1.90 GHz
  - **RF transmission power**  
DECT: Approx. 93 mW (average power per channel)
  - **Power source**  
220 – 240 V AC, 50/60 Hz
  - **Power consumption**  
Standby: 2.2 W  
During operation:  
3.0 W (when the LED lights are not lit)  
4.0 W (when the LED lights are lit)
  - **Operating conditions**  
0 °C – 40 °C  
Up to 90 % relative humidity (non-condensing)
  - **Transmitting range**  
Approx. 50 m indoors  
Approx. 300 m outdoors
  - **Image sensor**  
0.3 megapixel CMOS
  - **Minimum illuminance required**  
0 lx\*1
  - **Focal length**  
Fixed (0.4 m – infinity)
  - **Angular field of view (camera angle)**  
Horizontal: approx. 70°  
Vertical: approx. 50°
  - **Motion detection method**  
Visual sensor
  - **Motion detection range**  
Horizontal: approx. 70°  
Vertical: approx. 50°
  - **Adjustable mounting angles**  
Horizontal: ±90°  
Vertical: facing forward - facing down approx. 60° (adjustable when mounting)
  - **Dimensions (height × width × depth)**  
Approx. 102 mm × 75 mm × 75 mm
  - **Mass (weight)**  
Approx. 160 g
- \*1 The IR-LED will be lighted at the low illuminance conditions.

## Conditions of guarantee

This guarantee is in addition to and does not in any way affect any statutory or other rights of consumer purchasers. If within the applicable guarantee period, the product proves to be defective by reason of faulty design, workmanship or materials, we undertake subject to the following conditions to have the defective product (or any part or parts there of) repaired or replaced free of charge.

1. The product shall have been purchased and used solely within either the U.K. or Ireland and in accordance with standard operating instructions and the technical and/or Safety Standards required in the U.K.
2. On being found defective, please consult with the retailer from where it was purchased for assistance.
3. This guarantee shall not apply to damage caused through fire, accident, lightning, misuse, wear and tear, neglect, incorrect adjustment or repair, to damage caused through installation, adaption, modification or use in an improper manner or inconsistent with the technical and/or safety standards required in the country where this product is used, or to damage occurred during transit to or from the purchaser.
4. If at any time during the guarantee period any part or parts of the product are replaced with a part or parts not supplied or approved by us or of an objective quality safe and suitable for the product, or the product has been dismantled or repaired by any person not authorised by us, we shall have the right to terminate this guarantee in whole or in part immediately without further notice.
5. The purchaser's sole and exclusive remedy under this guarantee against us is for the repair or replacement of the product or any defective part or parts and no other remedy, including, but not limited to, incidental or consequential damage or loss of whatsoever nature shall be available to the purchaser.
6. This guarantee shall not apply to batteries and any other items of limited natural life.
7. Our decision on all matters relating to complaints shall be final. Any product or defective part which has been replaced shall become our property.
8. The guarantee period applicable to this product shall be 12 months.

Please keep these operating instructions with your receipt.

**Panasonic U.K. a branch of Panasonic Marketing Europe GmbH**

Receipt No. _____	Date of purchase _____
Model No. _____	Serial No. _____

# IMPORTANT!

If your product is not working properly. . .

- ① **Reconnect the AC adaptor to the camera.**
- ② Use the **Home Network app** to access the **User's Guide** and refer to the **Troubleshooting** section.



If you still have any problems, please call the Helpline  
0330 3331112 (U.K.)  
01 4475228 (Ireland)  
or contact us through our website:  
[www.panasonic.co.uk](http://www.panasonic.co.uk)

# CE0470

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**PNQX7279ZA** CC0415WK0 (E)