

# Panasonic®

## Installation Guide

### Home Network System HD Wi-Fi Camera

Model No. **KX-HNC805C**



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

This document explains how to configure the camera and access it using a mobile device. These steps must be followed before you can use the camera.

For details about how to use the camera, refer to the User's Guide (page 27).

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

For assistance, please visit our support page on:

**[www.panasonic.ca/english/support](http://www.panasonic.ca/english/support)**

Printed in China

## Table of Contents

### Introduction

Accessory information .....	3
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### Important Information

Graphical symbols for use on equipment and their descriptions .....	6
About this system .....	7
For your safety .....	7
Important safety instructions .....	9
Security cautions .....	9
For best performance .....	11
Other information .....	12

### Setup

Part names and functions .....	13
LED indicator .....	14
Connections .....	15
Setup overview .....	16
Downloading the [Home Network] app .....	17
Initial setup (for camera) .....	18
Registering another mobile device .....	21
Registering the camera to your hub .....	22

### Appendix

Information about Wi-Fi communication .....	23
Information about sensor features .....	24
Information about night vision mode .....	26
Wall mounting .....	26
Adjusting the angle .....	26
Accessing the User's Guide .....	27

Specifications .....	28
Open source software notice .....	29
Software information .....	29
Other notices and information (for Canada) .....	30
Warranty .....	31

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## **Accessory information**

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### **Supplied accessories**

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AC adaptor

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### **Other information**

- 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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### **Trademarks**

- microSDXC Logo is a trademark of SD-3C, LLC.
- iPhone and iPad are trademarks of Apple Inc., registered in the U.S. and other countries.
- iPad mini is a trademark of Apple Inc.
- Android and Google Play are registered trademarks or trademarks of Google Inc.
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- Wi-Fi®, WPA™, and WPA2™ are registered trademarks or trademarks of Wi-Fi Alliance®.
- All other trademarks identified herein are the property of their respective owners.

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### **Notice**

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

## Introduction

### Integration with the Panasonic Home Network System

Although you can use the camera by itself, it can also be integrated into the Panasonic Home Network System.

#### What is the Panasonic Home Network System?

The Panasonic Home Network System is a wireless system that uses DECT technology to create a powerful network of devices, including motion sensors, window/door sensors, smart plugs, etc., and control them all with an easy-to-use app.

#### What are some example uses?

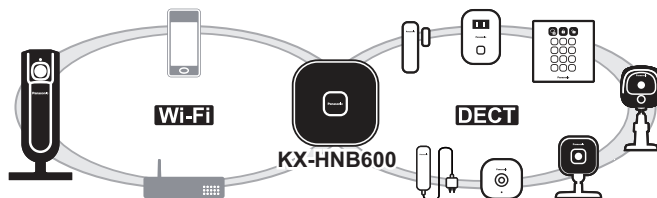
- Use the system's sensors to trigger camera recording  
Camera images can be recorded automatically when a door is opened, when motion is detected, etc.
- Use the camera's motion sensor to trigger the alarm system  
You can receive a phone call and notification when the camera's motion sensor detects motion.

#### What do I need to get started?

Your HD camera (up to 16) and a KX-HNB600 hub. The hub joins all system devices together using DECT technology, connects to your wireless router using Wi-Fi, and can also connect to your landline.

#### What other devices are available?

- Activity detection sensors, such as motion sensors and window/door sensors
- Smart plugs, which can turn electric devices on when triggered by a sensor or according to a schedule
- and more!





## ***Introduction***

For information about the latest devices and bundles, visit the website below.













**shopping.panasonic.ca**

**Note:**

- Device availability and appearance may vary by region.
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### Important Information

## Graphical symbols for use on equipment and their descriptions

Symbol	Explanation	Symbol	Explanation
	Alternating current (A.C.)		Class II equipment (equipment in which protection against electric shock relies on Double Insulation or Reinforced Insulation)
	Direct current (D.C.)		"ON" (power)
	Protective earth		"OFF" (power)
	Protective bonding earth		Stand-by (power)
	Functional earth		"ON"/"OFF" (power; push-push)
	For indoor use only		Caution, risk of electric shock

## 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 us at <http://shop.panasonic.com/support>
- Unplug from power outlets and never touch the inside of the product if its casing has been

For assistance, visit [www.panasonic.ca/english/support](http://www.panasonic.ca/english/support)

7

## Important Information

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 cord to be excessively pulled, bent or placed under heavy objects.
- Keep small parts, such as microSD cards, 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 authorized service center.

### 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. Wi-Fi features operate between 2.412 GHz and 2.462 GHz with a peak transmission power of 100 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

### 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

## Important Information

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

## Security cautions

Take appropriate measures to avoid the following security breaches when using this product.

- Leaks of private information
- Unauthorized use of this product
- Unauthorized interference or suspension of the use of this product

Take the following measures to avoid security breaches:

- Configure the wireless router that connects your mobile device to this product to use encryption for all wireless communication.
- You may be vulnerable to security breaches if the unit is used with the login password, disarm code, or PIN code, or

For assistance, visit [www.panasonic.ca/english/support](http://www.panasonic.ca/english/support)

9

## Important Information

other settings at their defaults values. Configure your own values for these settings.

- Do not use passwords that could be easily guessed by a third party. If you keep a record of your passwords, protect that record. Change passwords regularly.
- If you lose your mobile device, change the password used to access this product.
- If you enable the product's auto login feature, enable the screen lock or similar security feature on your mobile device.
- Take care when performing important security related operations such as deleting MAC address, unit IDs, etc.
- To prevent disclosure of personal information, enable the screen lock or similar security feature on your mobile device.
- When submitting the product for repair, make a note of any important information stored in the product, as this information may be erased or changed as part of the repair process.
- Before handing the product over to a third party for repair or other purposes, perform a factory data reset to erase any data stored in the product and

remove the microSD card. Use only trusted repair services authorized by Panasonic.

- Before disposing of the product, perform a factory data reset to erase any data stored in the product. Remove and erase the microSD card.
- If your mobile device will no longer be used with the product, delete your mobile device's registration from the product and delete the corresponding app from your mobile device.
- If this product experiences a power outage, its date and time setting may become incorrect. In this case, the date and time setting will be automatically corrected when your mobile device and this product are connected to the same wireless network.

Additionally, note the following.

- Communications may be interrupted depending on network conditions and wireless signal quality.
- This product may be used in ways that violate the privacy or publicity rights of others. You are responsible for the ways in which this product is used.

## Important Information

### For best performance

#### Product location/avoiding noise

This product and other compatible Panasonic devices use radio waves to communicate with each other.

- For maximum coverage and noise-free communications, place this product:
  - at a convenient, high, and central location with no obstructions between this product and any connected devices 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 this product on a bay window or near a window.)
- Coverage and transmission quality depends on the local environmental conditions.

- If the transmission quality is not satisfactory, move this product to another location.

#### 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 heaters, kitchen stoves, etc. It should not be placed in rooms where the temperature is less than 0 °C (32 °F) or greater than 40 °C (104 °F). Damp basements should also be avoided.
- The maximum communication range may be shortened when the product is used in the

For assistance, visit [www.panasonic.ca/english/support](http://www.panasonic.ca/english/support)

11

## Important Information

following places: Near obstacles such as hills, tunnels, underground, near metal objects such as wire fences, etc.

- Operating the product near electrical appliances may cause interference. Move away from the electrical appliances.

## 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.
  - Colors in images may differ from the actual colors.
  - 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.

### Protecting your recordings

- Do not remove the microSD card or disconnect the product's

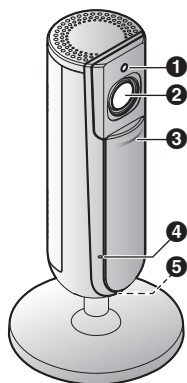
AC adaptor while reading or writing data to the microSD card. Data on the card could become corrupted.

- 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.

### Notice for product disposal, transfer, or return

- This product can store your private/confidential information. To protect your privacy/confidentiality, we recommend that you erase information such as phonebook or caller list entries from the memory before you dispose of, transfer, or return the product.

## Part names and functions



- 1 Brightness sensor**  
Allows the camera to switch automatically to night vision mode in low-light conditions.

- 2 Lens**

- 3 Privacy shutter**

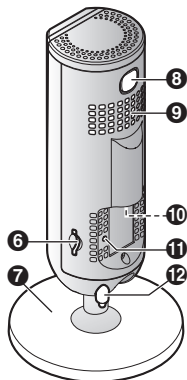
Prevents others from monitoring live camera images or sound when the shutter is closed.

- 4 Microphone**

- 5 LED indicator**

- 6 microSD card slot**

- 7 Stand**



- 8 [Wi-Fi SETUP]**

Used when performing initial setup.

- 9 Speaker**

- 10 micro-USB connector**

Used to connect the AC adaptor to the camera.

- 11 Reset button**

Used to reset the camera's settings.

- 12 Temperature sensor**

## Setup

### 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
Blue, lit	Normal operation, connected to wireless router*1, privacy shutter is open
Green, lit	Normal operation, connected to wireless router*1, privacy shutter is closed
Green, blinking quickly	Registration mode (you pressed and held the <b>[Wi-Fi SETUP]</b> button), or the camera is searching for wireless router
Red, lit	Motion detected*1
Red, blinking slowly	Live images are being viewed or recorded
Red, blinking	Device malfunction
Yellow, lit	Initial setup required
Yellow, blinking slowly	Camera is starting up, or initial setup is in progress with mobile device connected
Yellow, blinking	Initial setup is starting

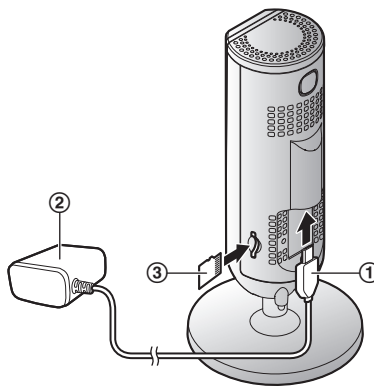
\*1 You can configure the camera so that its LED indicator does not light during normal operation or when motion is detected. For more information, refer to the User's Guide (page 27).

## Connections

- 1 Insert the AC adaptor plug (①) firmly into the camera's micro-USB connector.
- 2 Connect the AC adaptor (②) to the power outlet.
- 3 Insert a microSD card (user-supplied; ③) into the camera's microSD card slot.

**Note:**

- Use only the supplied Panasonic AC adaptor xxxx.
- To remove the microSD card, push in the microSD card and then remove it.



## 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.

## Setup

### Setup overview

After you have connected your camera, here is what you will need to do in order to access it from your mobile device. Each procedure is explained in this chapter.

If you are using the camera by itself (i.e., you do not have a KX-HNB600 hub)	If you are integrating the camera with your Panasonic Home Network System (i.e., you have a KX-HNB600 hub)
<p><b>1 Download (page 17)</b> Download the <b>[Home Network]</b> app to your mobile device.</p> <p><b>2 Initial setup for camera (page 18)</b> Use the <b>[Home Network]</b> app to configure the camera to connect to your wireless router, and then register your mobile device to the camera.</p> <p><b>3 Register additional mobile devices (page 21)</b> Up to 8 mobile devices can be registered to the camera.</p>	<p><b>1 Download (page 17)</b> Download the <b>[Home Network]</b> app to your mobile device.</p> <p><b>2 Initial setup for hub</b> Refer to the System Setup Guide included with your hub.</p> <p><b>3 Register camera to hub (page 22)</b> Use the <b>[Home Network]</b> app to register the camera and configure it to connect to your wireless router.</p>

### Downloading the [Home Network] app

Download information is available  
at the web page listed below.  
[www.panasonic.net/pcc/support/  
tel/homenetwork/](http://www.panasonic.net/pcc/support/tel/homenetwork/)



#### Compatible mobile devices

iPhone 4 or later, iPad, or iPad  
mini™ (iOS 6.0 or later) or an  
Android™ device (Android 4.0 or  
later)

#### Note:

- The **[Home Network]** app may not function properly depending on the operating environment, such as the model of your mobile device, peripherals connected to your mobile device, and the apps installed on your mobile device.
- The following Android devices are not compatible with the **[Home Network]** app.
  - Android devices that are not supported by Google Play

- Android devices with limited hardware features (Bluetooth, Wi-Fi, and microphone support are required.)

## Setup

### Initial setup (for camera)

Confirm the following before you begin.

- Make sure you have installed the **[Home Network]** app on your mobile device
- Make sure the camera and your wireless router are turned on and the camera's LED indicator is lit in yellow
- Make sure the camera is located within range of your wireless router
- Make sure your mobile device is connected to your wireless router
- Make sure your mobile device can connect to the Internet
- Make sure you know the network name (SSID) and password assigned to your wireless router

#### Initial setup (for iPhone, iPad users)

Do not perform this procedure if you want to integrate the camera with your Home Network System. Use the procedure on page 22.

- 1** Press and hold the reset button on the back of the camera for about 10 seconds, and then wait for the camera's LED to light in yellow.
  - The camera's setting will be reset.
- 2** Start the **[Home Network]** app.
- 3** Tap **[Set up the HD Camera]**.
- 4** When prompted, press the **[Wi-Fi SETUP]** button on the camera, and then tap **[Next]**.
  - The LED indicator blinks in yellow.
- 5** Change your mobile device's Wi-Fi setting temporarily so that it connects to the camera directly.
  - Open your mobile device's **[Settings]** app, tap **[Wi-Fi]**, select "KX-HNC800\_Panasonic", enter "00000000" as the password, and then tap **[Join]**.

## Setup

- If more than 1 item named "KX-HNC800\_Panasonic" is displayed, wait approx. 10 minutes and perform this procedure from the beginning.
- 6** Start the **[Home Network]** app again.
- 7** If necessary, enter the password required to connect to your wireless router and then tap **[Next]**.
- The camera and your mobile device connect to your wireless router.
  - If prompted, follow the on-screen instructions and connect your mobile device to your wireless router, start the app again, and then tap **[Add This Mobile Device]**.
  - If you enter the wrong Wi-Fi password, **[Setup failed.]** is displayed and the camera's LED indicator lights. Repeat the initial setup procedure from the beginning.
- 8** When prompted, press the **[Wi-Fi SETUP]** button on the camera.
- Your mobile device will be registered to the camera.
- 9** When prompted, follow the on-screen instructions and set the password used to log in to the camera while away from home.
- 10** When prompted, enter a name for your mobile device and then tap **[OK]**.
- This setting allows you to change the name assigned to your device. It can help you identify your mobile device when performing certain operations, such as deregistering a mobile device.
  - The app's home screen is displayed when initial setup is complete.

For assistance, visit [www.panasonic.ca/english/support](http://www.panasonic.ca/english/support)

19

## Setup

### Initial setup (for Android device users)

Do not perform this procedure if you want to integrate the camera with your Home Network System. Use the procedure on page 22.

- 1 Press and hold the reset button on the back of the camera for about 10 seconds, and then wait for the camera's LED to light in yellow.
  - The camera's setting will be reset.
- 2 Start the **[Home Network]** app.
- 3 Tap **[Set up the HD Camera]**.
- 4 When prompted, press the **[Wi-Fi SETUP]** button on the camera.
  - The LED indicator blinks in yellow.
  - The app temporarily changes your mobile device's Wi-Fi setting so that it connects to the camera directly.
- 5 If necessary, enter the password required to connect to your wireless router and then tap **[Next]**.
  - The camera and your mobile device connect to your wireless router.
- 6 When prompted, press the **[Wi-Fi SETUP]** button on the camera.
  - Your mobile device will be registered to the camera.
- 7 When prompted, follow the on-screen instructions and set the password used to log in to the camera while away from home.
- 8 When prompted, enter a name for your mobile device and then tap **[OK]**.
  - This setting allows you to change the name assigned to your device. It can help you identify your mobile device when performing certain operations, such as deregistering a mobile device.
  - The app's home screen is displayed when initial setup is complete.

## Registering another mobile device

Do not perform this procedure if you want to integrate the camera with your Home Network System. Use the procedure found in the System Setup Guide included with your hub.

In order to access the camera from a mobile device, you must first register the mobile device to the camera. You can register up to 8 mobile devices to a camera. Confirm the following before you begin.

- Make sure you have completed the initial setup procedure
- Make sure your mobile device can connect to the Internet
- Make sure your wireless router and the camera are turned on
- Make sure your mobile device and the camera are connected to the same wireless router

- 1** Using the mobile device that you want to register, download the **[Home Network]** app and then start the app.

- 2** Tap **[Add This Mobile Device]**.
- 3** When prompted, press the **[Wi-Fi SETUP]** button on the camera.
  - Your mobile device will be registered to the camera.
- 4** When prompted, follow the on-screen instructions and enter the password used to log in to the camera while away from home.
- 5** When prompted, enter a name for your mobile device and then tap **[OK]**.
  - This setting allows you to change the name assigned to your device. It can help you identify your mobile device when performing certain operations, such as deregistering a mobile device.
  - The app's home screen is displayed when initial setup is complete.

## Setup

### Registering the camera to your hub

Do not perform this procedure if you are using the camera by itself (i.e., you do not have a KX-HNB600 hub). Use the initial setup procedure (page 18).

Before you can integrate the camera with your Panasonic Home Network System, it must be registered to the hub. If you purchased the camera and hub separately (i.e., not as part of a bundle), you must register your camera to the hub.

#### Registering the camera

Confirm the following before you begin.

- Make sure you can use your mobile device to access the hub
- Make sure the camera's LED indicator is lit in yellow
- Make sure the hub's firmware is up to date. For more information, refer to the User's Guide (page 27).

- 1 Press and hold the reset button on the back of the camera for about 10 seconds,

and then wait for the camera's LED to light in yellow.

- The camera's setting will be reset.

- 2 Start the **[Home Network]** app.
- 3 From the **[Home Network]** app home screen, tap **[Settings]**.
- 4 Tap **[Device Registration]** → **[Registration]** → **[HD Camera]**.
- 5 Follow the on-screen instructions. When prompted, set the password used to log in to the camera while away from home.
- 6 When prompted, press the **[Wi-Fi SETUP]** button on the camera.
  - Your mobile device will be registered to the camera.
  - The app's home screen is displayed when registration is complete.

#### Note:

- When registration is complete, the hub sounds one long beep.
- If registration fails, the hub sounds several short beeps.

## Information about Wi-Fi communication

The camera uses Wi-Fi to communicate with your wireless router. Refer to the following information when planning where to place the camera.

- Do not use the camera in the following areas or locations. Malfunction or interference to radio communication may result.
  - Indoor areas that have certain types of radio or mobile communications equipment
  - Locations near microwave ovens or Bluetooth devices
  - Indoor areas where antitheft devices or 2.4 GHz frequency devices such as POS systems are used
- Do not place the camera in areas where the following materials or objects are located between the camera and the wireless router. These materials and objects may interfere with wireless communication or cause wireless transmission speed to become slower.
  - Metallic doors or shutters

- Walls containing aluminum-sheet insulation
- Walls made of concrete, stone, brick, or tin
- Multiple walls
- Steel shelving
- Fireproof glass

## Appendix

### 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.

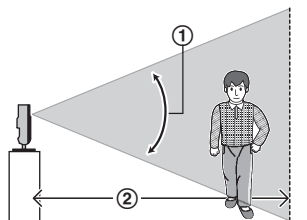
**Note:**

- 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.



- ① Vertical detection range: approx. xx°
- ② Distance of detectable motion: up to xx m (xx feet) when motion sensitivity is set to the highest setting using the **[Home Network]** app.

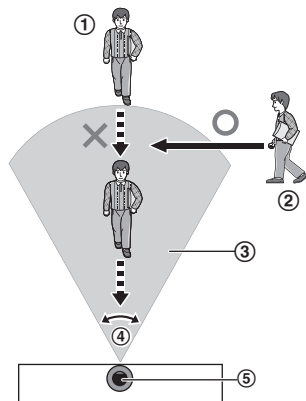
**Note:**

- Movement may be incorrectly detected when the moving object and the background have similar colors.
- 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 sensitivity of the camera's motion detection feature, and select which areas of the camera image are monitored for motion detection.

For more information, refer to the User's Guide (page 27).

### 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. xx°

### 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 27).

#### Sound sensor

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

##### Note:

- 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 27).

## Appendix

### Information about night vision mode

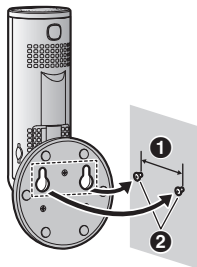
The camera features an array of infrared LEDs that light automatically in low-light conditions, allowing camera images to be viewable even when the surrounding area is dark.

**Note:**

- When night vision mode is active, the colors in camera images may appear different from normal.
- When night vision mode is active, the array of infrared LEDs that surround the camera's lens light up in a faint red color that can be seen in the dark.
- If the camera is installed in front of a window and points directly at the window, images may be poor when night vision mode is active.

### Wall mounting

Drive two screws (not supplied) into the wall, and then mount the unit as shown.



- ① 31 mm (1 5/16 inches)
- ② Screws

**Note:**

- Make sure that the wall and the fixing method are strong enough to support the weight of the unit.

### Adjusting the angle

Adjust the angle as desired.


**Note:**

- When adjusting the angle, make sure the unit does not tip over.


### 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.

### Accessing directly

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

#### If you are using the camera by itself (i.e., you do not have a KX-HNB600 hub)

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



#### If you are integrating the camera with your Panasonic Home Network System (i.e., you have a KX-HNB600 hub)

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



## Appendix

### Specifications

- **Standards**

- Wi-Fi:**

- IEEE 802.11b/g/n

- **Frequency range**

- Wi-Fi:**

- xx GHz – xx GHz (channels xx–xx)

- xx GHz – xx GHz (channels xx–xx)

- **RF transmission power**

- Wi-Fi:**

- xx mW (peak transmission power)

- **Encryption**

- WPA2™-PSK (TKIP/AES),  
WPA™-PSK (TKIP/AES), WEP  
(128/64 bit)

- **Power source**

- 120 V AC, 60 Hz

- **Power consumption**

- Standby: Approx. xx W

- Maximum: Approx. xx W

- **Operating conditions**

- 0 °C – 40 °C (32 °F – 104 °F)

- 20 % – 80 % relative air  
humidity (dry)

- **Image sensor**

- xx2 megapixel CMOS

- **Minimum illuminance required\*1**

- xx0 lx

- **Focal length**

- xxFixed (x.x m – infinity)

- **Angular field of view**

- Horizontal: approx. xx°

- Vertical: approx. xx°

- **Adjustable mounting angles\*2**

- Horizontal: ±xx°

- Vertical: facing forward - facing  
down, approx. xx°

- **Dimensions (height × width × depth)**

- Approx. xx mm × xx mm ×

- xx mm (xx inches × xx inches ×  
xx inches)

- **Mass (weight)**

- Approx. xx g (xx lb)

\*1 The infrared LEDs that surround the camera lens will illuminate in low-light conditions.

\*2 Adjustable when mounting.

### Open source software notice

- Parts of this product use open source software supplied based on the relevant conditions of the Free Software Foundation's GPL and/or LGPL and other conditions. Please read all licence information and copyright notices related to the open source software used by this product. This information is available at the following web page:  
[www.panasonic.net/pcc/support/tel/homenetwork/](http://www.panasonic.net/pcc/support/tel/homenetwork/)  
At least three (3) years from delivery of this product, Panasonic System Networks Co., Ltd. will give to any third party who contacts us at the contact information provided below, for a charge of no more than the cost of physically distributing source code, a complete machine-readable copy of the corresponding source code and the copyright notices covered under the GPL and the LGPL. Please note that software licensed under the GPL and the LGPL is not under warranty.

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

### Software information

- The End User License Agreement (EULA) for the Home Network app is available at the following web page:  
[www.panasonic.net/pcc/support/tel/homenetwork/](http://www.panasonic.net/pcc/support/tel/homenetwork/)

## Appendix

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### Other notices and information (for Canada)

#### NOTICE:

This device complies with Innovation, Science and Economic Development Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

#### RF Exposure Warning:

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

## Warranty

Panasonic Canada Inc.

5770 Ambler Drive, Mississauga, Ontario L4W 2T3

### PANASONIC PRODUCT - LIMITED WARRANTY

#### EXCHANGE PROGRAM

Panasonic Canada Inc. warrants this product to be free from defects in material and workmanship under normal use and for a period as stated below from the date of original purchase agrees to, at its option either (a) repair your product with new or refurbished parts, (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 Panasonic Canada Inc.

**Home Network System Products – One (1) year  
microSD card (Included model only) – One (1) year**

This warranty is given only to the original purchaser, or the person for whom it was purchased as a gift, of a Panasonic brand product mentioned above sold by an authorized Panasonic dealer in Canada and purchased and used in Canada, which product was not sold "as is", and which product was delivered to you in new condition in the original packaging.

**IN ORDER TO BE ELIGIBLE TO RECEIVE WARRANTY SERVICE HEREUNDER, A PURCHASE RECEIPT OR OTHER PROOF OF DATE OF ORIGINAL PURCHASE, SHOWING AMOUNT PAID AND PLACE OF PURCHASE IS REQUIRED**

#### LIMITATIONS AND EXCLUSIONS

This warranty **ONLY** COVERS failures due to defects in materials or workmanship, and **DOES NOT COVER** normal wear and tear or cosmetic damage. The warranty **ALSO DOES NOT COVER** damages which occurred in shipment, or failures which are caused by products not supplied by Panasonic Canada Inc., or failures which result from accidents, misuse, abuse, neglect, mishandling, misapplication, alteration, faulty installation, set-up adjustments, misadjustment of consumer controls, improper maintenance, improper batteries, 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 Authorized Servicer, or damage that is attributable to acts of God.

Dry cell batteries are also excluded from coverage under this warranty. Rechargeable batteries are warranted for ninety (90) days from date of original purchase.

THIS EXPRESS, LIMITED WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT WILL PANASONIC CANADA INC. BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT OR ARISING OUT OF ANY BREACH OF ANY EXPRESS OR IMPLIED WARRANTY. (As examples, this warranty excludes damages for lost time, travel to and from the Authorized Servicer, loss of or damage to media or images, data or other memory or recorded content. This list of items is not exhaustive, but for illustration only.)

For assistance, visit [www.panasonic.ca/english/support](http://www.panasonic.ca/english/support)

31

## Appendix

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In certain instances, some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, or the exclusion of implied warranties, so the above limitations and exclusions may not be applicable. This warranty gives you specific legal rights and you may have other rights which vary depending on your province or territory.

### **CONTACT INFORMATION**

For product information and operation assistance, please visit our Support page:

**[www.panasonic.ca/english/support](http://www.panasonic.ca/english/support)**

For defective product exchange within the warranty period, please contact the original dealer.



## Notes

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## Notes

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**Notes**

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### 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 unit)	
Name and address of dealer	

Attach your purchase receipt here.
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Panasonic Canada Inc.  
5770 Ambler Drive, Mississauga, Ontario L4W 2T3

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