



Panasonic

Network Camera Operating Instructions

Model No. **KX-HCM270**



Please read this manual before using and save this manual for future reference.
Panasonic Network Camera Site: <http://www.panasonic.com/netcam>
for customers in the USA or Puerto Rico

FCC Warning

Class B Computing Device

Information to the User

This equipment has been tested and found to comply with the limits for a class B digital device pursuant to part 15 of 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 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 and for additional suggestions.

The user may find the following booklet prepared by the Federal Communications Commission helpful: "How to Identify and Resolve Radio-TV Interference Problems." This booklet is available from the U.S. Government Printing Office, Washington, D.C. 20402, Stock No. 004-000-00345-4.

FCC Warning

The user is cautioned that changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

NOTE: In order for an installation of this product to maintain compliance with the limits for a Class B device, shielded cables must be used.

Introduction

Thank you for purchasing the Panasonic Network Camera.

Attach your purchase receipt here.

For your future reference

Serial No. _____
(found on the rear side of the unit)

Date of purchase _____

Name and address of dealer _____

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Section 1

Product Introduction

1.1 Getting to know the Network Camera

1.1.1 Main features

Wireless Communication

Network Camera corresponds to the wireless system based on IEEE 802.11b. Wireless installation will play an increasing role in flexible mounting.

Splash Resistant

Network Camera has a splash resistant body. The splash resistant body allows the Network Camera to be used in indoors and outdoors.

Easy installation

Installation is simplified using the Network Camera integrated web server and the web browser. No additional software is required.

High Speed Motion JPEG

Using the Network Camera integrated web server, **Motion JPEG**, up to 15 frames per second, can be displayed. To conserve bandwidth, **JPEG - Regularly Refresh** can be selected from the Top Page. Refreshing interval can be set on the Top View Image window.

Remote Pan/Tilt Operation

Pan/Tilt operation can move the lens horizontally 120° and downside 45°. This movable lens allows you to see the situation in the wide room where the object is. It can adjust the angle easily from the web browser.

Multi-Camera Screen

Using **Multi-Camera screen** you can simultaneously view up to four cameras at various location. Clicking on each Camera Name switches to the Single Camera screen from the Multi-Camera screen.

Multi Client Access

The Network Camera allows the 10 users to view the Motion JPEG image simultaneously. The users can access the Top View Image screen (Single Camera/Multi-Camera screen) from their own locations.

I/O (Input/Output) Connector

I/O connector consists of the **digital input/output terminal**. The external sensors/devices such as a door sensor can connect to the digital input terminal. The external sensors/devices are customer provided. Any required custom interface is the customer's responsibility. The alarm/timer trigger can activate the Image Transfer feature which can send the images via e-mail or FTP (File Transfer Protocol).

The digital output terminal can send a signal to activate the external devices such as a light around the Network Camera.

Update Firmware

If **Update Firmware** is released, you can download the latest program from the Network Camera Technical Support Site. Installation is easy and fast.

Authentication

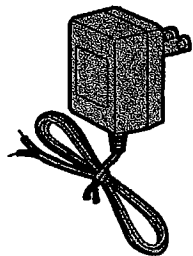
Authentication window requires you to enter the administrator/general user ID and password. Password security can prevent the unregistered user from accessing your image from their web browsers.

1.2 Included Accessories

The following items are provided with the Network Camera. Additional pieces can be ordered by calling **1-800-332-5368**.

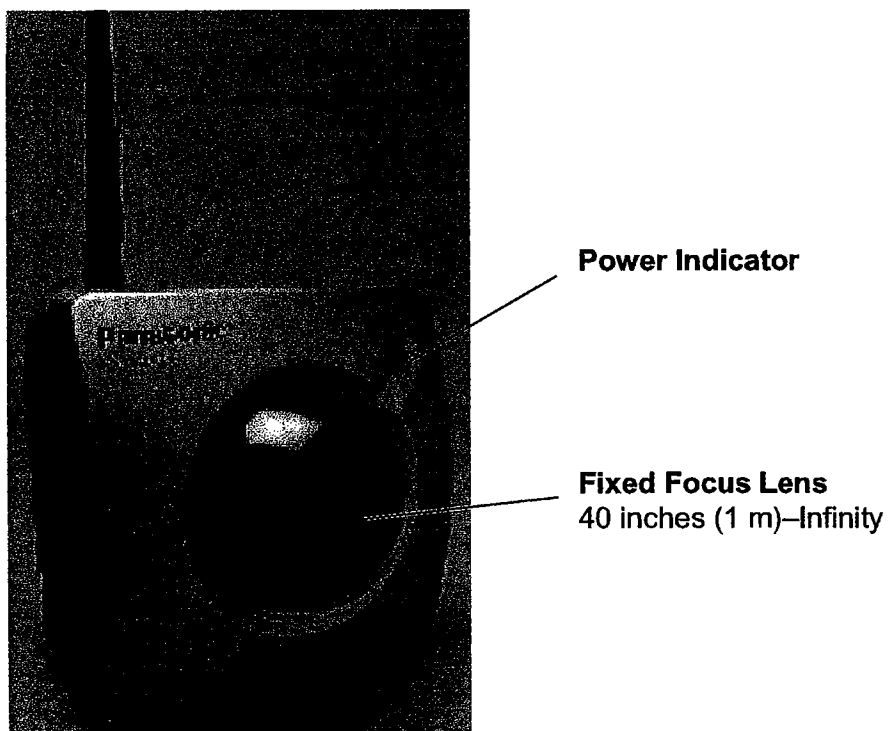
AC adapter — 1 pc.

Order No. PQLV12Y



1.3 Camera Feature Locations

1.3.1 Front View

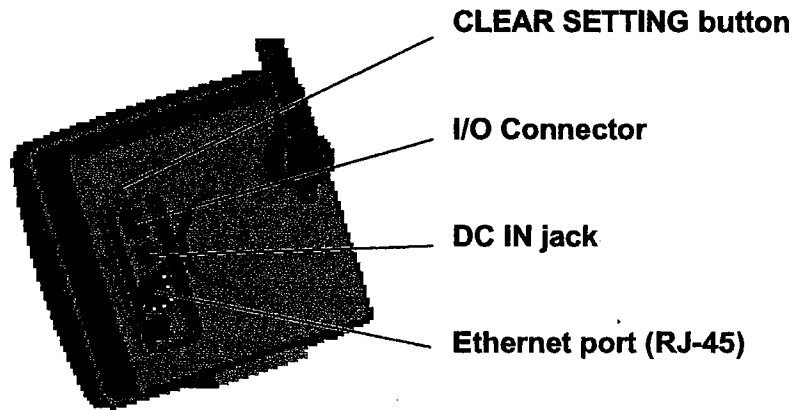


Power Indicator

During normal operation Power Indicator will be on in the default. Blinking will occur during the following situation.

- During the lens center positioning after turning on the power.
- During the Update Firmware.
- During initializing after pushing CLEAR SETTING button.
- During getting the IP address from the DHCP server.

1.3.2 Rear View



Notes

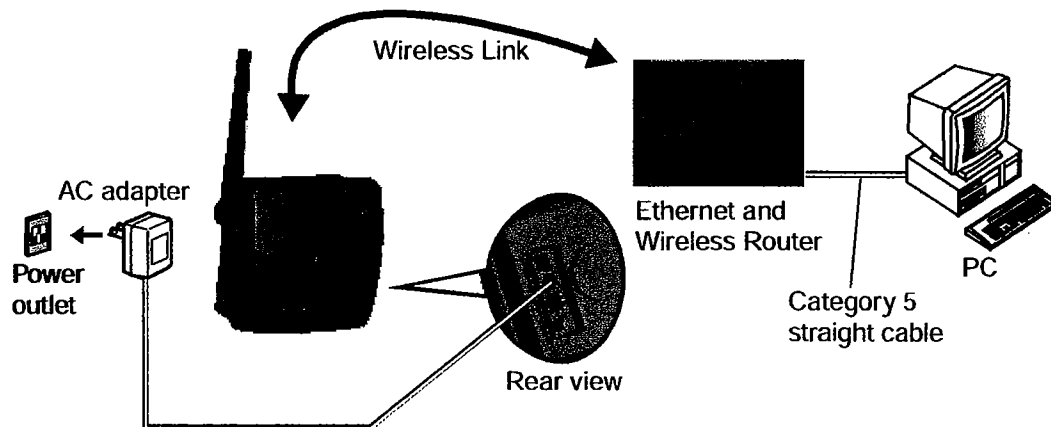
- Use category 5 cross cable when the Network Camera is directly connected to PC.
- Use Only with Panasonic AC adapter.

1.4 Network Camera connection

Please confirm the connection of the network into following LAN Wireless Connection figure.

1.4.1 Wireless Communication

LAN Wireless Connection



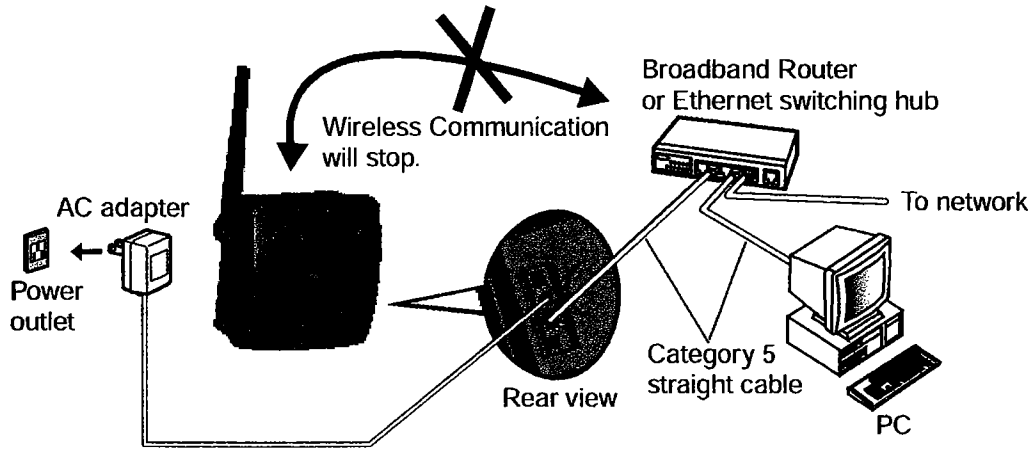
Note

Use Only with Panasonic AC adaptor.

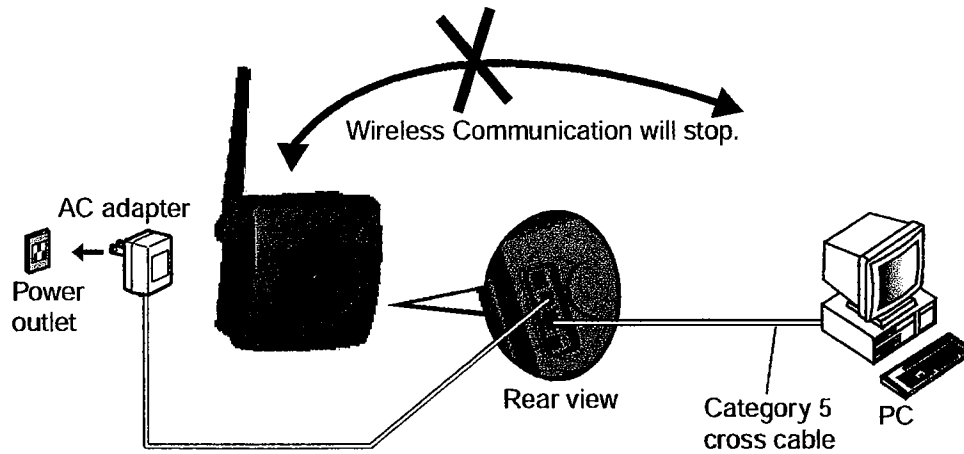
1.4.2 Wired Communication

Network Camera can be used in the wired connection. Please install the Network Camera in the following figure. Wireless communication will stop when inserting category 5 cable into the Ethernet port.

LAN Wired Connection



Direct Wired Connection



Note: This connection is only for initial setting of camera unit.
Use wireless communication for normal operation.

Section 2

Network Camera Features

2.1 Interfacing to the I/O Connector

The Alarm mode in Image Transfer feature requires the external sensors/devices to be connected to the digital input terminal of the I/O Connector. The sensor is customer provided and can be a door sensor or infrared red intruder sensor. In most applications a simple contact closure is all that is required.

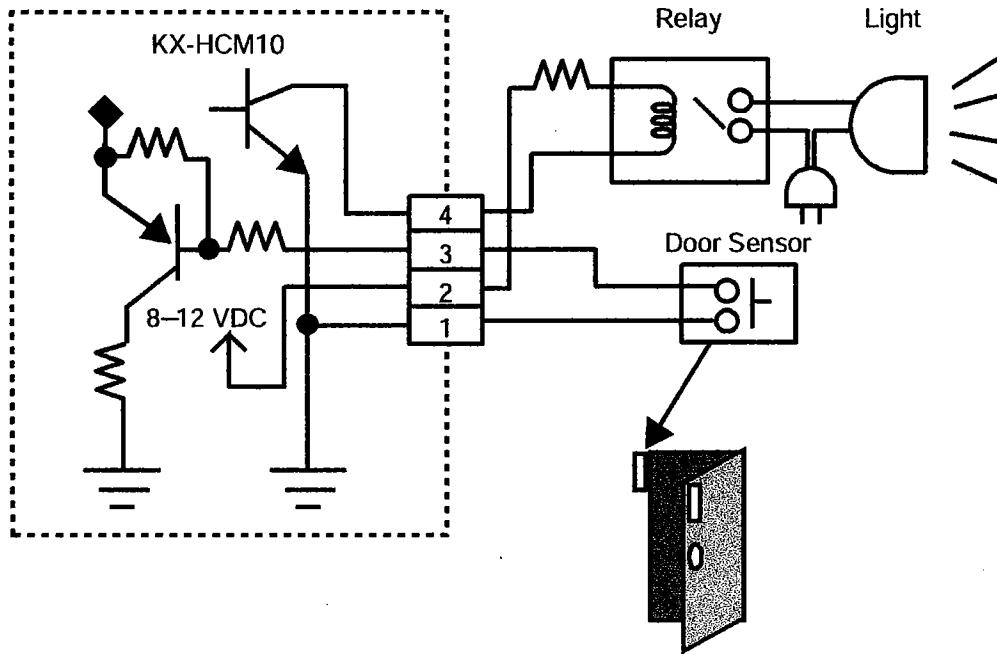
Explanation of I/O Connector

Pin	Function
1	GND
2	DC Power Output Terminal <ul style="list-style-type: none"> • 8 V–12 V DC • Maximum of 50 mA load drive is possible.
3	Digital Input Terminal <ul style="list-style-type: none"> • Please use it by opening or GND short-circuit.
4	Digital Output Terminal <ul style="list-style-type: none"> • Digital Output Control window can set the digital output terminal. • It is an open collector circuit, and the maximum drawing-in current is 50 mA. Maximum voltage is +15 V DC.

CAUTION

THE DIGITAL I/O CONNECTOR IS NOT CAPABLE OF CONNECTING DIRECTLY TO DEVICES THAT REQUIRE LARGE AMOUNTS OF CURRENT. IN SOME CASES, A CUSTOM INTERFACE CIRCUIT (CUSTOMER PROVIDED) MAY HAVE TO BE USED. SERIOUS DAMAGE TO THE NETWORK CAMERA MAY RESULT IF A DEVICE IS CONNECTED TO THE I/O CONNECTOR THAT EXCEEDS ITS ELECTRICAL CAPABILITY.

Circuit Diagram Example



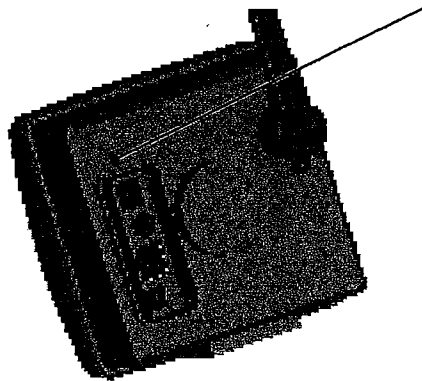
CAUTION

THE LOW VOLTAGE/CURRENT CIRCUITS AND HIGH VOLTAGE/CURRENT CIRCUITS ARE IN THE NETWORK CAMERA CIRCUIT. THE QUALIFIED ELECTRICIAN SHOULD DO THE WIRING NOT BY YOURSELF. INCORRECT WIRING COULD DAMAGE THE NETWORK CAMERA. YOU COULD RECEIVE THE FATAL ELECTRIC SHOCK.

2.2 Network Camera reset procedure—default settings

If the user forgets the settings or passwords, the Network Camera can be easily reset to the default settings.

With power on, press the **CLEAR SETTING button** for about 1 second. The Power Indicator in the front of the Network Camera fades and blinks for about 45 seconds when the Pan/Tilt motors will set to the center position. The entire procedure takes about 1 minute.



CLEAR SETTING button
(Press the button with a pencil or a pointed object.)

Note

When pressing the **CLEAR SETTING button**, all buffered images are cleared.

Section 3

Safety Information

3.1 Important Safety Instruction

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

- a)** Read and understand all instructions.
- b)** Unplug this unit from AC outlets before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.
- c)** Place this unit securely. Serious damage and/or injury may result if the unit falls.
- d)** Use proper power source. If you are not sure of the type of power supplied to your home, consult your dealer or local power company.
- e)** Do not place objects on the power cord. Install the unit where no one can step or trip on the cord.
- f)** To reduce the risk of electric shock, do not disassemble this product, but take it to a qualified serviceman when some service or repair work is required. Opening or removing covers may expose you to dangerous voltages or other risks. Incorrect reassembly can cause electric shock when the appliance is subsequently used.
- g)** Unplug this unit from the wall outlet and refer servicing to an authorized servicenter when the following conditions occur:
 - 1)** When the power supply cord or plug is damaged or frayed.
 - 2)** If liquid has been spilled into the unit.
 - 3)** If the unit has been exposed to rain or water.
 - 4)** If the unit does not work normally by following the operating instructions. Adjust only controls covered by the operating instructions. Improper adjustment may require extensive work by an authorized servicenter.
 - 5)** If the unit has been dropped or physically damaged.
 - 6)** If the unit exhibits a distinct change in performance.

SAVE THESE INSTRUCTIONS

3.2 FCC and Other Information

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 wireless Network Cameras operate at frequencies that may cause interference to nearby TVs and VCRs. To minimize or prevent such interference, the base of the wireless Network Camera should not be placed near or on top of a TV or VCR. If interference is experienced, move the wireless Network Camera further away from the TV or VCR. This will often reduce or eliminate interference. Operating near 2.4 GHz electrical appliances may cause interference. Move away from the electrical appliances.

- **Environment:** do not place the unit where the temperature is less than 14°F (-20°C) or greater than 122°F (50°C). Allow 4" (10 cm) clearance around the unit for proper ventilation. Avoid excessive smoke, dust, mechanical vibration, shock, or direct sunlight.
- **Routine care:** wipe the unit with a soft cloth. Do not use benzine, thinner, or any abrasive powder. When you leave the unit unused for a long period of time, unplug the AC adapter from the outlet.
- **If there is any trouble:** consult an authorized Panasonic Factory Service Center.

For product service

- Panasonic Servicenters are listed in the servicenter directory.
- Call 1-800-272-7033 for the location of an authorized servicenter.
- After the limited warranty, please contact our Continued Services Technical Support Line at 1-900-555-PANA (1-900-555-7262). If you have difficulty reaching this number, it may be blocked by your phone company. Please contact your local phone company to correct this.

When you ship the product

- Carefully pack your unit, preferably in the original carton.
- Attach a letter, detailing the symptom, to the outside of the carton.

Symptom _____

- Send the unit to an authorized servicenter, prepaid and adequately insured.
- Do not send your unit to the Panasonic Consumer Electronics Company listed below or to executive or regional sales offices. These locations do not repair consumer products.

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