

Model No. **BL-C101** (Wired Type)
BL-C121 (Wireless/Wired Type)

This manual is written for both the BL-C101 (Wired Type) and BL-C121 (Wireless/Wired Type). Available features and operations vary slightly depending on the model. You can confirm the model no. of your camera by checking the model no. printed on the front of the camera. Model number suffixes (“A”, “CE”, and “E”) are omitted from the following model numbers shown in this document, unless necessary. BL-C101A, BL-C101CE, BL-C101E, BL-C121A, BL-C121CE, BL-C121E

Please read the included Important Information before proceeding.
Complete Operating Instructions and all other documentation can be found on the included CD-ROM.

- This document (Installation Guide) explains how to physically connect the camera to the power supply and network, as well how to mount or place the camera for regular use.
- The **Setup Guide** describes how to set up the camera so that it can be accessed using a PC.
- Refer to the **Operating Instructions** on the **CD-ROM** for details regarding the camera’s features.
- Refer to the **Troubleshooting Guide** on the **CD-ROM** if you have any problems configuring or using the camera.

Abbreviations

- UPnP is the abbreviation for “Universal Plug and Play”.
- The Network Camera is referred to as “the camera” in this document.
- The Setup CD-ROM is referred to as “the CD-ROM” in this document.

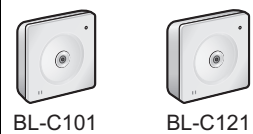




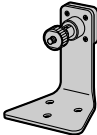
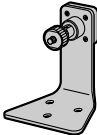
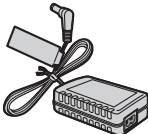






Installation Procedure Overview

The following is an overview of the steps required to install and setup the camera. All steps are explained in this document unless otherwise noted.

Preparation Confirm that you have all the items required for installation.	▶	Camera Diagram Make sure you know the names of the camera’s physical features.	▶	Connections Connecting the camera to your network and to the power outlet.	▶	Setup Setting up the camera (described in the included Setup Guide). This involves configuring the camera so that it can be accessed from a PC.	▶	Mounting Mounting or placing the camera.
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Preparation

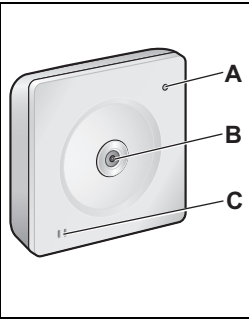
1. Confirm the following items are included in the camera’s packaging.

 BL-C101 BL-C121	Main Unit (1 pc.) The appearance of your camera depends on which model you have purchased.	 Screw A BL-C101 (6 pcs.)/BL-C121 (4 pcs.) Order No. XTB4+20AFJ Used for wall mounting the camera.	 Washer S (1 pc.) Order No. XWG26D12VW Used when securing the safety wire to the camera.
 AC Adaptor (1 pc.) Order No. PQLV206Y Cord Length: About 3 m (9 feet 10 inches) BL-C101A/BL-C121A	 Screw B (1 pc.) Order No. XTB26+10GFJ Used for securing the safety wire to the camera.	 Washer L (1 pc.) Order No. XWG4F16VW Used when securing the safety wire to the wall.	 Flexible Stand (1 pc.) Order No. PNKL1008Z Used to attach the camera to the wall.
 Order No. PQLV216CE1Z Cord Length: About 3 m (9 feet 10 inches) BL-C101CE/BL-C101E/BL-C121CE/BL-C121E	 Safety Wire (1 pc.) Order No. PQME10080Z Used to secure the camera when wall mounting it.	 Important Information (1 pc.) Installation Guide (this document) (1 pc.) Setup Guide (1 pc.)	 Setup CD-ROM (1 pc.) Order No. PNQC1048Z Contains the Setup Program needed to configure the camera, as well as the camera's documentation.* *See the included Important Information for a description of each document.
 AC Cord (1pc. for BL-C101CE/BL-C101E/BL-C121CE/BL-C121E) Order No. PFJA02A006Z Cord Length: About 1.8 m (5 feet 11 inches) BL-C101CE/BL-C121CE	BL-C101 Only		
 Order No. PSJA1106Z Cord Length: About 1.8 m (5 feet 11 inches) BL-C101E/BL-C121E	 Power Transfer Unit (1 pc.) Order No. PNWP3C160A Used to power the camera.		

2. You will need the following additional items to install and configure the camera.
- a PC (see the system requirements in the Important Information document)
 - **For BL-C101:** 2 LAN cables (CAT-5 straight cable)
 - **For BL-C121:** a LAN cable (CAT-5 straight cable)
 - a router

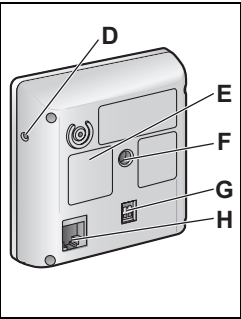
Camera Diagrams
BL-C101

Front View



- A Indicator*1
- B Lens
- C Microphone

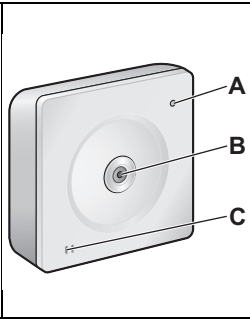
Rear View



- D FACTORY DEFAULT RESET button
- E Serial number label
- F Stand/Tripod Mounting Hole
- G External INPUT interface
- H DATA/POWER IN

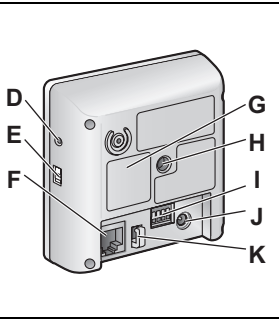
BL-C121

Front View



- A Indicator*1
- B Lens
- C Microphone

Rear View



- D FACTORY DEFAULT RESET button
- E WIRELESS/WIRED switch
- F LAN port
- G Serial number label
- H Stand/Tripod Mounting Hole
- I External I/O interface
- J DC IN jack
- K Hook for AC adaptor cord

*1 See 1.1 Understanding the Camera Indicator in the Troubleshooting Guide on the CD-ROM for indicator meaning.

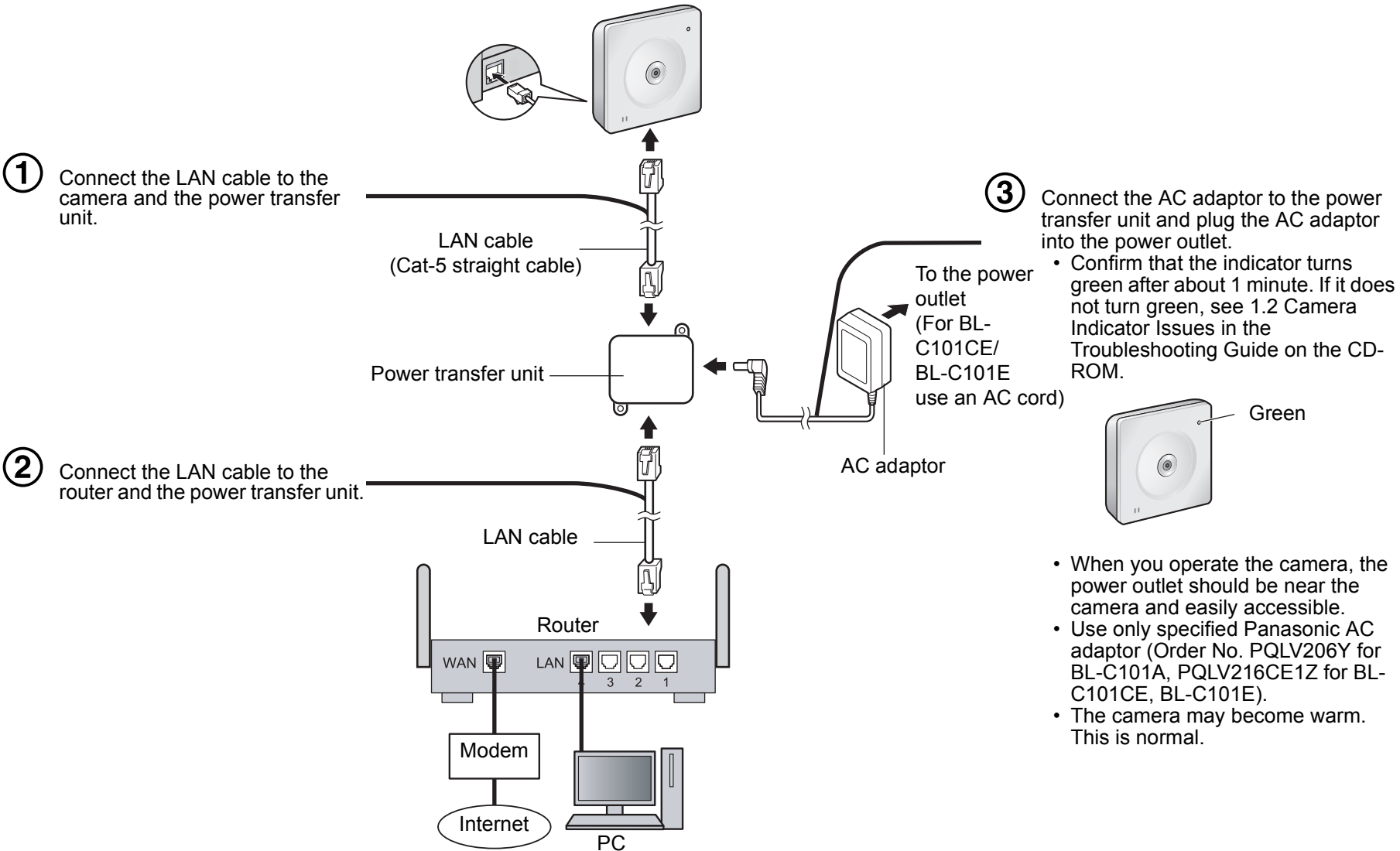
Connections

Connect the camera to your router and to the power outlet as described below.

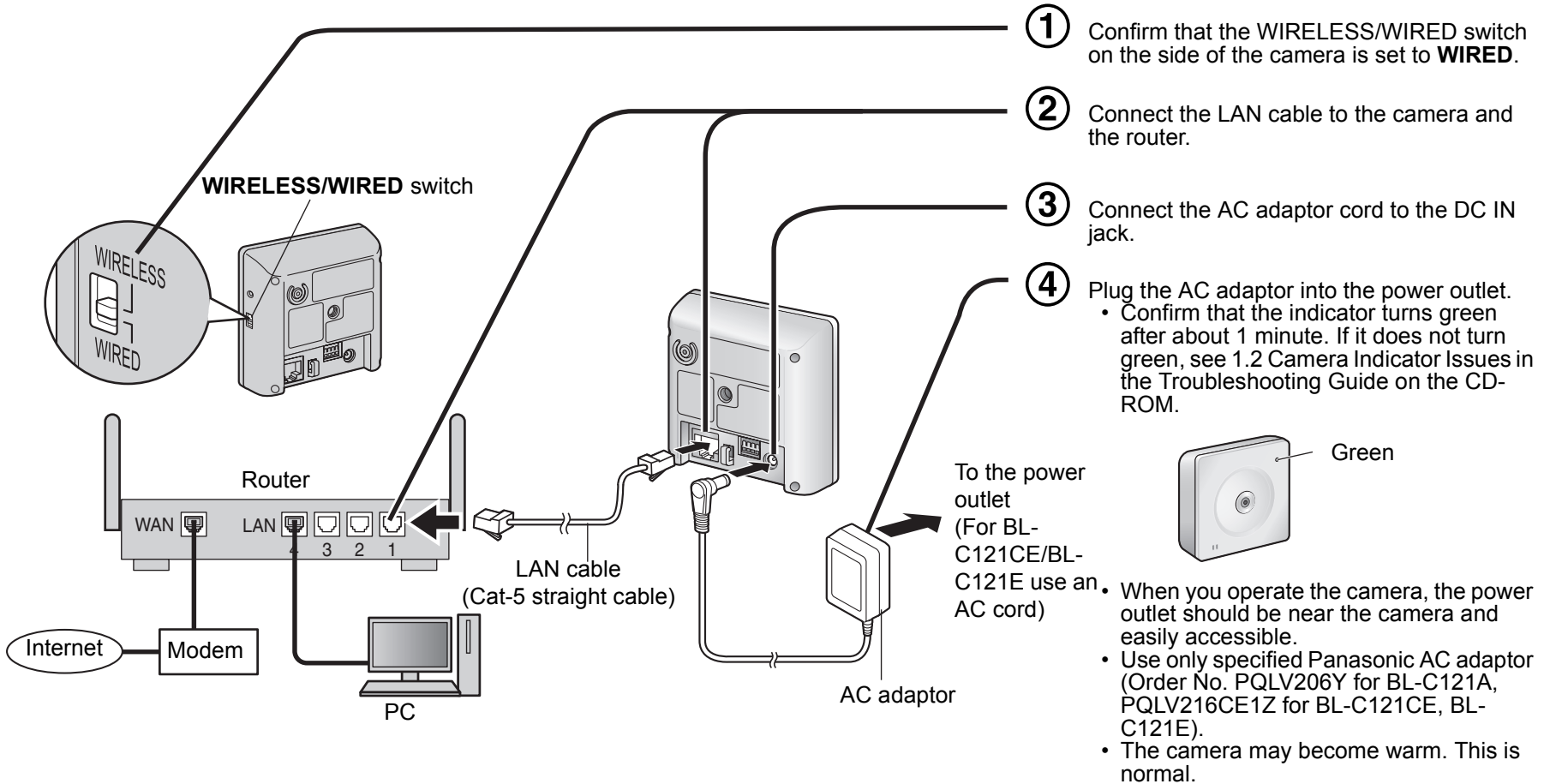
- Before proceeding, confirm that your PC is connected to your router and can access the Internet. Also confirm that your router's UPnP™ feature is enabled. (Most routers have UPnP™ turned off by default.) Refer to the operating instructions included with your router or to the Panasonic Network Camera website (<http://panasonic.net/pcc/support/netwkcaml/>) for more information.

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- Use a LAN cable that is no more than 30 m (98 feet 5 inches) long to connect the camera and the power transfer unit.



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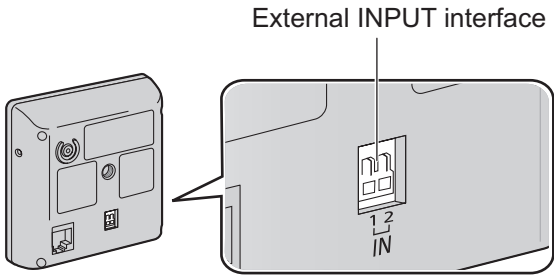
After the camera's indicator turns green, you may set up the camera. Continue by following the procedure described in the included Setup Guide.

- If the indicator does not turn green, see 1.2 Camera Indicator Issues in the Troubleshooting Guide on the included CD-ROM.

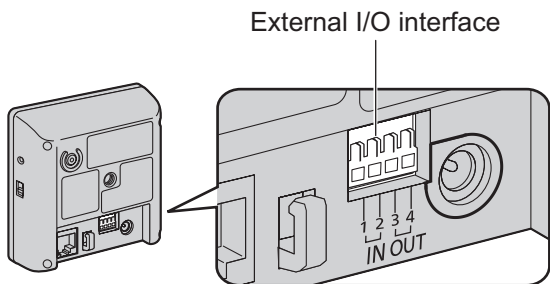
Connecting External I/O interface

The camera’s external I/O interface allows you to connect a device, such as a sensor or motion detector, that can be used to trigger the camera’s image buffering and transferring features (see Section 2 Using Triggers to Buffer and Transfer Images in the Operating Instructions on the CD-ROM), as well as the detection notification sound feature (see Section 1.2.7 Detection Notification Sound in the Operating Instructions on the CD-ROM).

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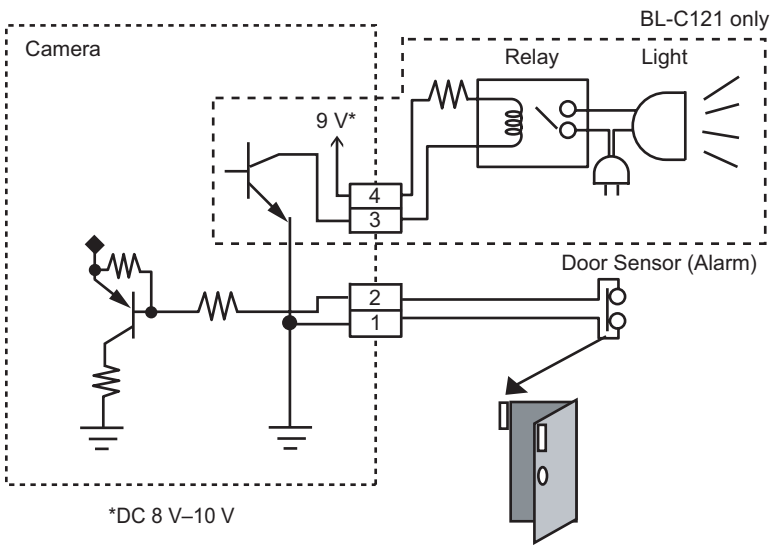


Terminal		Description
IN	1	GND terminal.
	2	External sensor input. The camera can be triggered by either an open circuit or a GND short-circuit.
OUT BL-C121 only	3	External device control output. Allows you to control an external device using the output buttons in the camera’s operation bar (for example, turning a light on or off). <ul style="list-style-type: none">This terminal’s behavior can be changed (see 7.4 Controlling the External Output Terminal (BL-C121 Only) in the Operating Instructions on the CD-ROM).This terminal is an open collector circuit. The maximum drawing current is the same as terminal 4. Do not exceed the voltage of terminal 4.
	4	DC power output terminal. <ul style="list-style-type: none">DC 8 V–10 VMaximum load is 100 mA.

Note

- If excessive force is used when disconnecting wires with pointed objects from the external I/O interface, terminals may become damaged or the interface may be pushed inside the camera body and become unusable.

Circuit Diagram Example



Caution

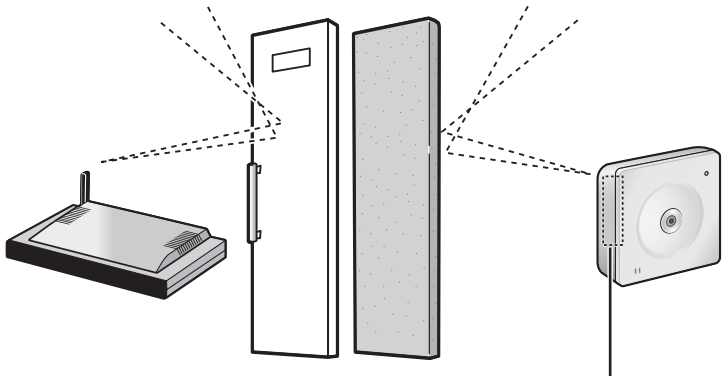
- The external I/O interface is not capable of connecting directly to devices that require large amounts of current. In some cases, a custom interface circuit (customer-provided) may have to be used. Serious damage to the camera may result if a device that exceeds its electrical capability is connected to the external I/O interface.
- Low voltage/current circuits and high voltage/current circuits are used in the camera circuit. All wiring should be performed by a qualified electrician. Incorrect wiring could damage the camera and cause a fatal electric shock.
- External devices connected to the camera’s output terminals cannot be controlled in the event of a network error or failure. Keep this in mind when connecting door locks, heat-emitting devices, or other devices that may be dangerous if they cannot be controlled. (BL-C121 only)

For BL-C121: Notes About Wireless Communication

The radio wave range may decrease depending on the surrounding environment or existence of obstacles. If obstacles such as the following are placed between a camera and a router, radio waves will weaken. Therefore, even if the distance between the camera and router is short, the frame rate may decrease or images may not be displayed.

- A metallic door or shutter
- A wall with an insulation material that contains aluminum foil
- A wall made of tin
- A wall made of concrete, stone or brick
- Fireproof glass
- Several walls separated by open space
- A steel shelf

In the example below, wireless communication between the camera and the wireless router is impaired due to steel doors or reinforced concrete walls between the camera and the wireless router.



Wireless antenna is built in the camera. Position the camera away from obstacles such as steel doors or reinforced concrete walls.

