

Polaroid Digital Camera PDC-2000



User Guide for Macintosh or
Windows applications



Capture
high-quality
color images

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Quick startup

For more information, see the page indicated.

Setting up

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7	7	1 Unpack the PDC-2000 camera.
11	11	2 Set the camera's SCSI ID.
14	14	3 Install and charge the camera batteries.
17	23	4 Connect the camera to your computer.
21	27	5 Install the PDC-2000 plug-in, TWAIN driver or PDC-2000 Direct on your computer.
75	97	6 Set the camera internal settings (date, time, user name, etc.).

Taking pictures

<i>Page (Macintosh)</i>	<i>Page (PC/Windows)</i>	<i>Steps</i>
29	29	1 Disconnect the PDC-2000 camera from the computer.
41	41	2 Turn on the camera.
43	43	3 Set the camera for the current lighting conditions (daylight, incandescent or fluorescent).
44	44	4 Frame and take a picture.
50	50	5 Label your pictures (optional).

Viewing and transferring the pictures in the camera

<i>Page (Macintosh)</i>	<i>Page (PC/Windows)</i>	<i>Steps</i>
17	23	1 Connect the camera to the computer.
65	87	2 View thumbnails (small representations) of the pictures stored in the camera.
69	91	3 Select and transfer the pictures to the computer.
71	93	4 Delete the pictures from the camera.

1 Introduction

The Polaroid PDC-2000 Digital Camera captures high-quality color pictures electronically. PDC-2000 pictures contain up to 16.7 million colors and can be saved as high resolution (600x800 pixels) or super-high resolution (1200x1600 pixels) pictures.

The PDC-2000 has all the features of an automatic compact 35mm camera, including automatic exposure, electronic flash and automatic focus. These features produce correct exposure, accurate colors and sharp focus under a great variety of picture-taking conditions. Manual overrides are also provided for unusual conditions.

Using the Macintosh or Microsoft Windows software provided with the camera, you can view the pictures taken with the PDC-2000 camera and transfer them to the computer. You can then use an image-processing application to manipulate, enhance, save and print the pictures.

When the camera is connected to your computer, you can control the camera and take pictures via the computer keyboard or mouse. This is useful when the camera is used in a stationary setup.

Typical PDC-2000 workflow

To help you understand the full capabilities of the PDC-2000 camera, a typical workflow sequence is presented below.

After you become familiar with PDC-2000 features, you can use the camera in other ways to best suit your imaging needs.

- 1 Take pictures with the camera (Chapter 3).
- 2 Connect the camera to your computer (Chapter 2).
- 3 Use your computer to view the pictures stored in the camera (Chapter 4 for Macintosh, Chapter 5 for PCs).
- 4 Select the pictures you want to keep and transfer them to the computer (Chapter 4 or 5).
- 5 Edit or enhance any of the pictures using an image-processing application such as Adobe Photoshop. (See instructions with the application.)
- 6 Print the picture or use it in another application, such as a desktop publishing application. (See instructions with the application.)

As an alternative sequence for studio or other stationary setups, you can leave the PDC-2000 camera permanently attached to the computer. With the camera connected to the computer, you can operate the camera controls and take pictures using the computer's display, keyboard or mouse.

System requirements

Using the PDC-2000 software to view and manipulate pictures taken with the PDC-2000 camera requires the following hardware and software. If you do not have the required configuration, contact your Polaroid dealer.

Macintosh systems

- A Macintosh family computer with at least a 68020 processor and 8 megabytes (MB) of RAM. (16 MB is recommended.)
- Apple system software version 7.1 or later.
- An image-processing application, such as Adobe Photoshop, compatible with Adobe Photoshop plug-in modules, is recommended for working with PDC-2000 pictures. If you do not have such an application, you can use PDC-2000 Direct (packaged with the PDC-2000 camera) to transfer pictures from the camera and to control the camera from the computer.

PC systems

- An IBM PC or compatible, with at least a 33 MHz 486SX microprocessor and 8 MB of RAM. (A Pentium processor and 16 MB of RAM is recommended.)
- An ASPI-compliant SCSI adapter.
- A video adapter and monitor capable of displaying 24-bit color (16.7 million colors) is recommended for optimal display of PDC-2000 pictures.
- MS-DOS 5.0 or higher.
- Microsoft Windows 3.1 or later.
- An image-processing application, such as Adobe Photoshop, that is either TWAIN-compliant or compatible with Adobe Photoshop plug-in modules, is recommended for working with PDC-2000 pictures. If you do not have such an application, you can use PDC-2000 Direct (packaged with the PDC-2000 camera) to transfer pictures from the camera and to control the camera from the computer.

Technical assistance

Call toll-free from within the U.S.A.: **1-800-432-5355**, Monday through Friday, 8 a.m. to 8 p.m. (Eastern time), or fax to: 781-386-9688. You can also contact Polaroid

Technical Support on CompuServe (“GO Polaroid”) or write to Polaroid Electronic Imaging Technical Support, 565-3B Technology Sq., Cambridge, MA 02139.

In Canada, call toll-free: **1-800-268-6970**. Outside the U.S.A. and Canada, please contact the Polaroid office nearest you. See *Polaroid Offices and Service Centers* on page 116.

For the latest PDC-2000 product information, updates and bulletins, access the Polaroid World Wide Web site at <http://www.polaroid.com>.

Using this manual

This book explains how to set up and use your Polaroid PDC-2000 camera. It also includes the procedures for installing the PDC-2000 software on your Macintosh computer or PC, and for taking, viewing and saving pictures taken with the PDC-2000 camera. These instructions assume that you are familiar with the operation of your Macintosh computer or PC with Microsoft Windows.

Here’s what you’ll find inside:

Quick startup: Summarizes instructions for setting up the PDC-2000 camera and software, and for taking pictures and transferring them to the computer.

1 Introduction: Briefly describes the PDC-2000 camera, lists system requirements and explains how to obtain technical assistance.

2 Setting up: Explains how to install the camera batteries, install the PDC-2000 software on your Macintosh computer or PC, and connect the PDC-2000 camera to your computer.

3 Using the PDC-2000 camera: Explains the PDC-2000 camera controls, and provides instructions for taking and labeling pictures.

4 Using the PDC-2000 with your Macintosh: Tells you how to use your Macintosh computer to view pictures taken with the PDC-2000 camera, how to transfer them from the camera to your Macintosh, and how to operate the camera from your Macintosh.

5 Using the PDC-2000 with your PC: Tells you how to use your IBM-compatible computer and Windows to view pictures taken with the PDC-2000 camera, how to transfer them from the camera to your PC, and how to operate the camera from your PC.

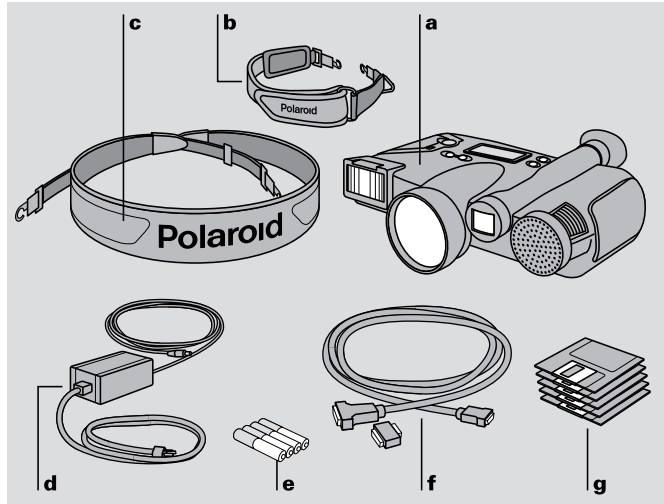
6 Maintenance and troubleshooting: Contains battery-replacement instructions, solutions to problems that might occur, and warranty and service information.

2 Setting up

Unpacking

Listed below are the components in the PDC-2000 camera package. If any is missing, contact your dealer immediately.

- a **PDC-2000 camera with 38mm-equivalent lens**
- b **Hand strap**
- c **Shoulder strap**
- d **Power adapter/trickle charger:** Recharges the NiCad batteries in the camera and provides power for the camera while the batteries are charging.
- e **Camera batteries:** Four “AA” NiCad rechargeable batteries.
- f **SCSI cable (1 meter) and DB25/50 pin Centronics adapter:** Connect the PDC-2000 camera to a Macintosh computer or PC SCSI port.
- g **Software diskettes:** PDC-2000 plug-in software for Macintosh and Windows, TWAIN driver (for Windows only) and Polaroid PDC-2000 Direct camera utility software for Macintosh and Windows.



Note: Please be sure to fill out and return the registration card packed with the PDC-2000 camera. As a registered owner, you will be among the first to receive information about PDC-2000 software updates and the availability of new PDC-2000 products.



WARNING: NOTHING INSIDE THE PDC-2000 CAMERA EXCEPT THE BATTERIES IS USER-SERVICEABLE. TO AVOID THE POSSIBILITY OF DAMAGING THE CAMERA OR VOIDING THE WARRANTY, DO NOT DISASSEMBLE THE CAMERA.

Optional accessories

You may have also purchased one or more of the following optional accessories for the PDC-2000 camera. (Any necessary instructions are packaged with each accessory.)

60mm-equivalent lens: Interchangeable lens for enlarging more distant subjects.

SCSI host adapter: Adapter board for adding a SCSI port to IBM-compatible computers (PCs) for communicating with the PDC-2000 camera and other SCSI devices.

SlimSCSI adapter kit: Adapter, 1-meter cable and software for connecting the PDC-2000 camera to the PCMCIA slot of a PC notebook computer.

110-volt 5-hour battery charger: Fully charges the PDC-2000 NiCad batteries in 5 hours from AC power.

12-volt auto adapter and recharger: Recharges the batteries in the camera and provides power for the camera from an automotive lighter socket.

2-meter SCSI system cable: Provides extra length for convenience while taking pictures with the camera connected to the computer (not for use with Apple PowerBook computers).

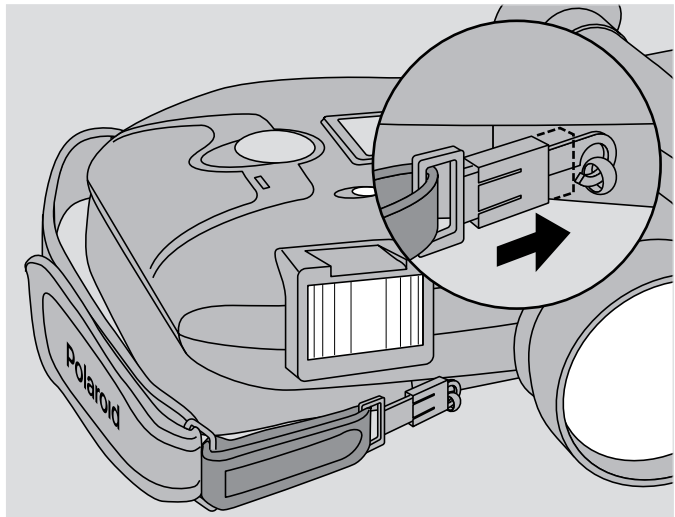
Carrying case: Soft case with shoulder strap for the PDC-2000 camera and accessories.

Setting up the PDC-2000 camera

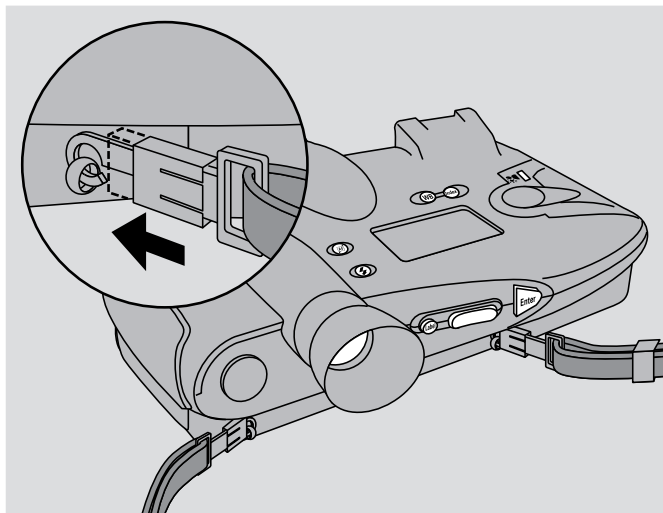
Attaching the camera straps

A hand strap and a shoulder strap are provided with the PDC-2000 camera. To help prevent damage to the camera and to make camera handling easier, attach one or the other. (You cannot attach both at the same time.)

To attach the hand strap, connect the ends of the strap to the eyelets on the front and the back of the camera. Slide the plastic sleeve on each hook toward the eyelet until it snaps to lock the strap.



To attach the shoulder strap, connect the ends of the strap to the eyelets on the back of the camera as shown. Be sure to slide the plastic sleeve on each hook toward the eyelet until it snaps, locking the strap securely.



Setting the SCSI ID

The PDC-2000 camera is a Small Computer Systems Interface (SCSI) device. You can connect up to seven SCSI devices to your computer, one to another in a SCSI chain.

Note: If you are connecting the PDC-2000 camera to an IBM PC or compatible computer, the computer must have an ASPI-compliant SCSI adapter. (See *System requirements* on page 2.)

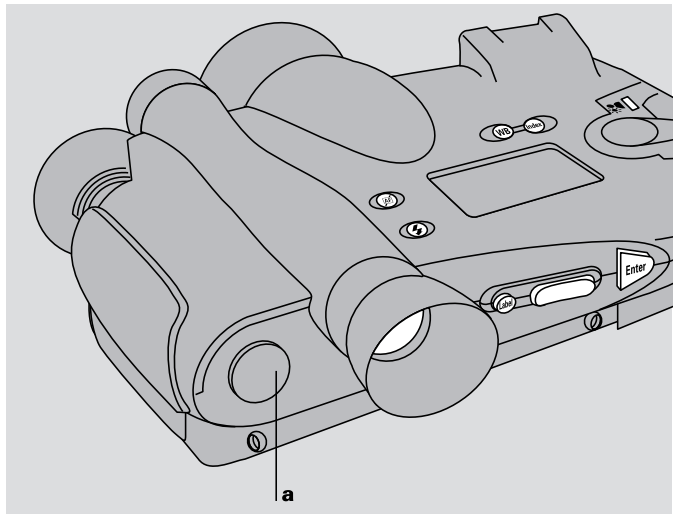
The PDC-2000 camera's SCSI ID is preset to 4 at the factory. You do not need to change this number unless another SCSI device in the chain is already using it. To determine whether 4 is already being used, check the user guides of the other devices or run a SCSI utility program.



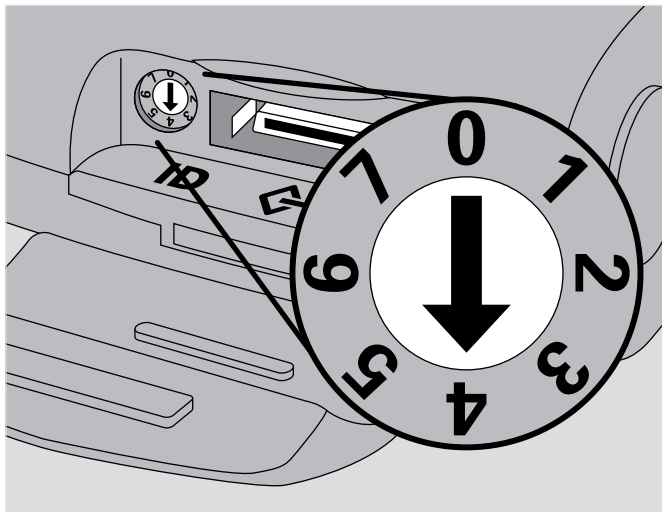
WARNING: EACH SCSI DEVICE CONNECTED TO YOUR COMPUTER MUST HAVE ITS OWN UNIQUE ID NUMBER SO YOUR COMPUTER CAN DISTINGUISH IT FROM OTHER ATTACHED SCSI DEVICES. USING TWO OR MORE DEVICES WITH THE SAME ID NUMBER CAN CAUSE THEM TO MALFUNCTION. YOU CAN LOSE DATA AS A RESULT.

If the PDC-2000 is your only external SCSI device or no other device in the chain is using ID 4, skip the rest of this section and go on to *Installing and charging the batteries* on page 14. If you must change the camera's SCSI ID, use the following steps:

- 1 Make sure the camera power is off and the camera is disconnected from the computer. If the camera is on, turn it off by pressing the power button (a).



- 2 Open the connector cover and locate the SCSI ID selector.



- 3 Insert a small screwdriver into the slot and rotate the selector until the arrow points to the desired SCSI ID.

Note: Do not use 7 or 0, which are customarily used for the computer and for Macintosh hard drives. In addition, 3 is often used for internal CD-ROM drives.

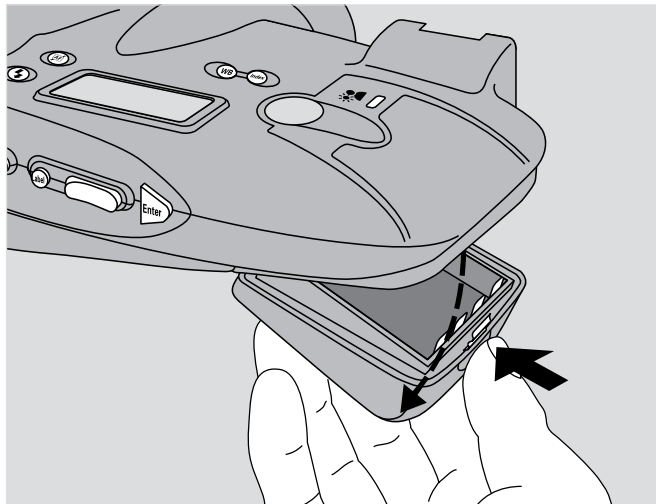
- 4 Close the connector cover.

Installing and charging
the batteries

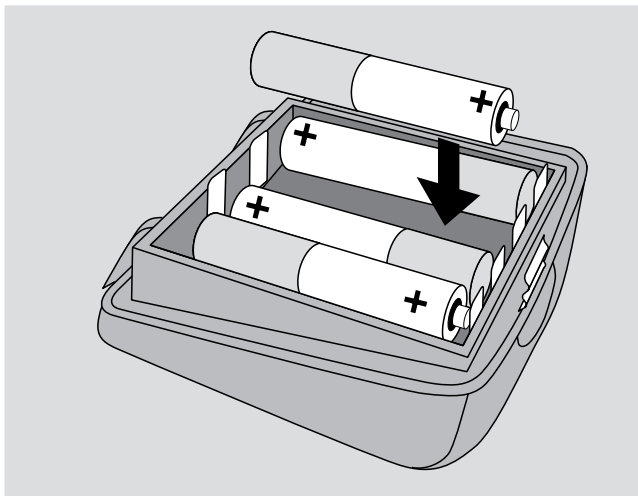


The four NiCad “AA” rechargeable batteries packaged with the PDC-2000 camera **are shipped uncharged**. To use the camera, you must install the batteries and charge them as described below.

- 1 Unlatch and remove the PDC-2000 battery holder from the camera.

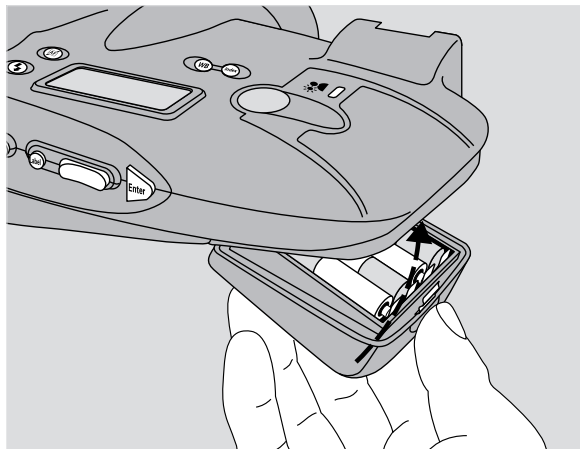


- 2 Unwrap and install the four “AA” NiCad batteries provided, observing the battery orientation label in the battery holder. (Install the two outside batteries first, then install the two inside batteries.)

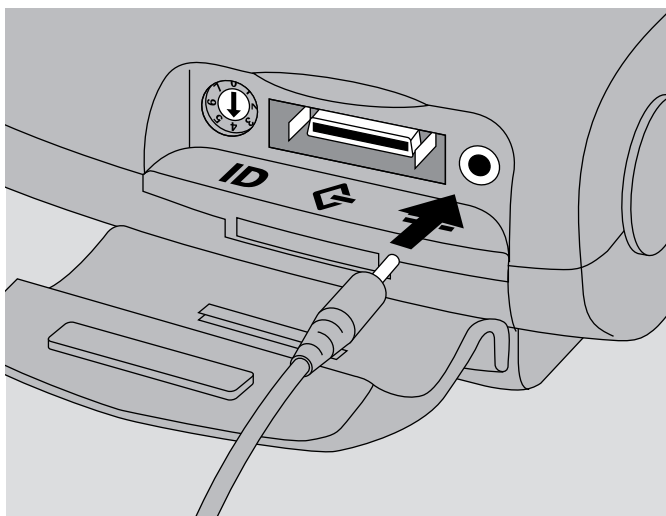


WARNING: USE ONLY THE BATTERIES PROVIDED OR THE “AA” NICAD RECHARGEABLE BATTERY TYPES RECOMMENDED ON PAGE 106. OTHER TYPES, SUCH AS ALKALINE OR LITHIUM “AA” BATTERIES, WILL NOT OPERATE THE CAMERA, AND MAY CAUSE INJURY OR DAMAGE THE CAMERA IF YOU ATTEMPT TO CHARGE THEM AS DESCRIBED BELOW.

- 3 Engage the battery holder and close it, making sure it latches.



- 4 Connect the power adapter/trickle charger to the camera and to AC power.



Do not operate the camera until the batteries have charged for about 6 hours. After this 6-hour period, you can use the camera while the batteries continue to charge.

Note: The camera is **not** operable without the batteries, even if the power adapter/trickle charger is connected.

Charge the new batteries completely by leaving the charger connected to the camera for about 12 hours. (After this initial charging, the batteries will recharge completely in about 6 hours.)



WARNING: USE ONLY THE POWER ADAPTER/TRICKLE CHARGER PROVIDED FOR CHARGING THE BATTERIES WHILE THEY ARE IN THE CAMERA. OTHER ADAPTERS AND CHARGERS SIMILAR IN APPEARANCE ARE AVAILABLE, BUT THEY CAN OVERHEAT THE BATTERIES AND CAUSE INJURY OR CAMERA DAMAGE.

You can also charge the batteries outside the camera with optional 110-volt 5-hour battery charger (see *Optional accessories* on page 9) or another charger compatible with your local AC voltage and designed for NiCad “AA” batteries. Carefully follow the instructions provided with the charger you are using.

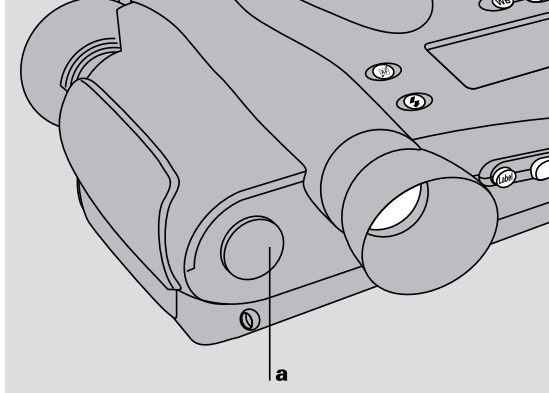
Connecting the camera to your Macintosh

The PDC-2000 camera is an internally terminated SCSI device designed to connect to the SCSI port of your Macintosh computer. How you connect the PDC-2000 depends on whether you have other SCSI devices connected to your computer.

Note: Be sure to set the camera’s SCSI ID as described on page 11 before connecting the camera.

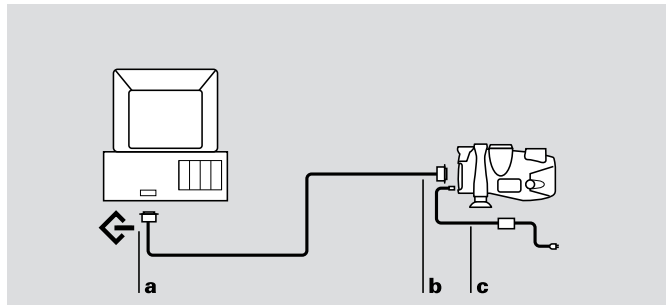


WARNING: DO NOT CONNECT OR DISCONNECT THE PDC-2000 CAMERA OR ANY OTHER SCSI DEVICE WHILE THE DEVICE OR YOUR COMPUTER IS TURNED ON. DOING SO COULD DAMAGE THE DEVICE, YOUR COMPUTER, OR BOTH. (TURN OFF THE CAMERA BY PRESSING POWER BUTTON **a**.)



If the PDC-2000 is the only SCSI device

If the PDC-2000 camera is the only external SCSI device being used with your computer, turn off the computer and the camera. Then connect the SCSI system cable provided to the computer's SCSI port (**a**). The port is marked with a SCSI symbol for easy identification. Connect the other end of the system cable (**b**) to the camera's SCSI connector.



Use only the SCSI cable provided with the camera. Other cables may appear similar, but could damage the camera or your computer.



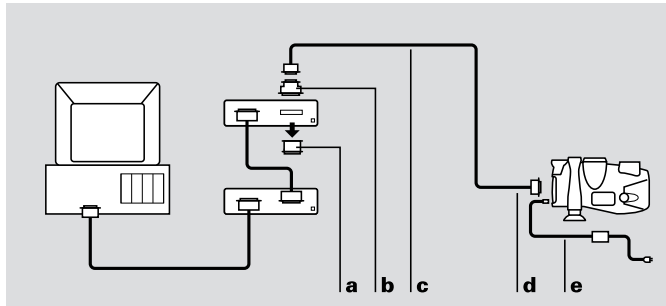
If your Macintosh has other SCSI devices

After connecting the SCSI cable, connect the camera to AC power using the power adapter/trickle charger (c).

IMPORTANT: ALWAYS CONNECT THE CAMERA TO AC POWER WHEN IT IS CONNECTED TO THE COMPUTER. IF THE CAMERA OR ANY OTHER SCSI DEVICE TURNS OFF WHILE CONNECTED, IT COULD CORRUPT DATA ON YOUR HARD DISK.

Because the PDC-2000 camera is internally terminated, you must install it as the last device in your SCSI chain as follows:

- 1 Turn off the computer, all SCSI devices, and the camera.
- 2 Remove the terminator (a) from the last SCSI device in your SCSI chain.



Note: Keep the terminator. You must reconnect it if you use the computer while the camera is not attached.

- 3 Attach the DB25/50 pin Centronics adapter (b) to the end of the SCSI system cable (c).

Use only the cable provided with the camera. Other cables may appear similar, but could damage the camera or your computer.

- 4 Connect the DB25/50 pin Centronics adapter (b) to the connector from which you removed the terminator.

- 5 Connect the other end of the SCSI system cable (**d**) to the SCSI connector on the PDC-2000 camera.
- 6 Connect the camera to AC power with the power adapter/trickle charger (**e**).



Connecting to an
Apple PowerBook

IMPORTANT: ALWAYS CONNECT THE CAMERA TO AC POWER WHEN IT IS CONNECTED TO THE COMPUTER. IF THE CAMERA OR ANY OTHER SCSI DEVICE TURNS OFF WHILE CONNECTED, IT COULD CORRUPT DATA ON YOUR HARD DISK.

In addition to the cables and adapters described in the previous sections, Apple PowerBook computers require an HDI-30/DB25 adapter (available from Macintosh dealers) to connect the PDC-2000 SCSI system cable to the PowerBook SCSI port. (Do **not** use a SCSI dock adapter or a cable-type adapter. These adapters may not work and could corrupt data on your PowerBook hard disk.)

Other than the exceptions above, follow the instructions for connecting to Macintosh computers (starting on page 17) when connecting the PDC-2000 camera to an Apple PowerBook computer.



WARNING: WITH POWERBOOK COMPUTERS, USE ONLY THE 1-METER SCSI SYSTEM CABLE (PROVIDED WITH THE PDC-2000) TO CONNECT THE CAMERA TO THE COMPUTER OR TO THE LAST DEVICE IN THE SCSI CHAIN. LONGER CABLES MAY CORRUPT DATA OR DAMAGE THE COMPUTER'S HARD DRIVE.

Setting up your Macintosh for the PDC-2000

To view PDC-2000 pictures stored in the camera, transfer pictures from the camera to your computer, operate the camera through the computer, or change camera setup options, you must install one of the following programs on your Macintosh. Both are provided with the PDC-2000 camera.

- **PDC-2000 plug-in software** Using the plug-in after it is installed requires an image-processing application (not provided) compatible with Adobe Photoshop plug-in modules.
- **PDC-2000 Direct software** If you do not have an image processing application compatible with Photoshop plug-in modules, you must install PDC-2000 Direct to use the PDC-2000 with your computer. (If you install PDC-2000 Direct, you do not need the plug-in software described above to use it.)

Installing the
plug-in software

To install the PDC-2000 plug-in software on your Macintosh:

- 1 Insert the PDC-2000 plug-in installation disk into an internal or external drive.
- 2 If the disk contents are not already visible, open the disk.
- 3 Be sure to read any Read Me file included on the disk. The Read Me file contains important late-breaking product information that may affect installation or use.
- 4 Double-click the Installer icon to open the Installer program.
- 5 Click the Install button and follow instructions on the screen to choose and Acquire/Export folder.
- 6 When an on-screen message indicates that installation has been completed, click OK.
- 7 Restart your computer.

Use the following steps to install PDC-2000 Direct:

- 1 Insert the PDC-2000 Direct for Macintosh installation disk into an internal or external drive.
- 2 If the disk contents are not already visible, open the disk.
- 3 Be sure to read any Read Me file included on the disk. The Read Me file contains important late-breaking product information that may affect installation or use.
- 4 Double-click the Installer icon to open the Installer program.
- 5 Click the Install button and follow instructions on the screen.
- 6 When an on-screen message indicates that installation has been completed, click OK.
- 7 Restart your computer.

Verifying camera internal settings from your Macintosh

The PDC-2000 camera stores the following settings in its internal memory:

- User name
- Default picture label
- Current date
- Current time
- Automatic shutoff timeout values
- Camera sound indicator status

Before using the PDC-2000 camera for the first time, verify (and change, if necessary) these settings by following instructions in *Changing operating preferences* on page 75.

After verifying the camera's internal settings, proceed as follows:

If you intend to take pictures with the camera disconnected from the computer, close your image-processing application or PDC-2000 Direct by choosing Quit from the File menu. Then turn off the computer and the camera, and disconnect the camera as described on page 29. Refer to *Using the PDC-2000 camera* on page 33 for picture-taking instructions.

If you will take pictures while using the computer to control the camera, leave the camera connected to the computer. Refer to *Using the PDC-2000 with your Macintosh* on page 61.

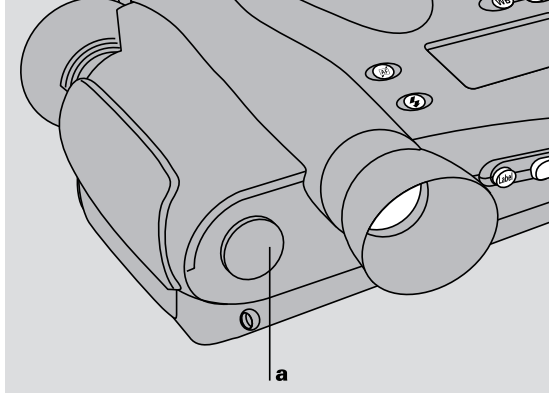
Connecting the camera to your PC

The PDC-2000 camera is an internally terminated SCSI device designed to connect to a SCSI adapter on your IBM-compatible computer. How you connect the PDC-2000 depends on whether you have other SCSI devices connected to your computer.

Note: Be sure to set the camera's SCSI ID as described on page 11 before connecting the camera. Also, your IBM-compatible computer must have an ASPI-compliant SCSI adapter for attaching the camera. See *System requirements* on page 2 for more information.

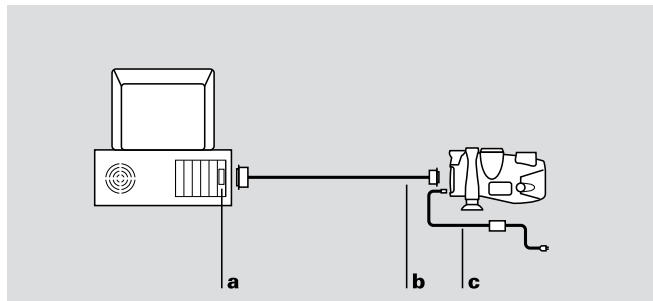


WARNING: DO NOT CONNECT OR DISCONNECT THE PDC-2000 CAMERA OR ANY OTHER SCSI DEVICE WHILE THE DEVICE OR YOUR COMPUTER IS TURNED ON. DOING SO COULD DAMAGE THE DEVICE, YOUR COMPUTER, OR BOTH. (TURN OFF THE CAMERA BY PRESSING POWER BUTTON **a**.)



If the PDC-2000 is the only SCSI device

being used with your computer, turn off the computer and the camera. Then connect the SCSI system cable provided to the computer's SCSI port (**a**). Connect the other end of the system cable (**b**) to the camera's SCSI connector.



Use only the cable provided with the camera. Other cables may appear similar, but could damage the camera or your computer.



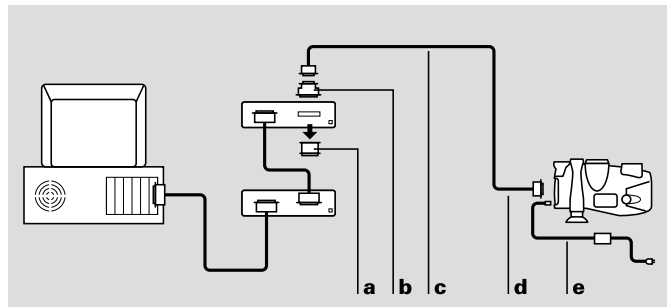
If your PC has other SCSI devices

After connecting the SCSI cable, connect the camera to AC power using the power adapter/trickle charger (e).

IMPORTANT: ALWAYS CONNECT THE CAMERA TO AC POWER WHEN IT IS CONNECTED TO THE COMPUTER. IF THE CAMERA OR ANY OTHER SCSI DEVICE TURNS OFF WHILE CONNECTED, IT COULD CORRUPT DATA ON YOUR HARD DISK.

Follow the steps below if your computer has other external SCSI devices in addition to the PDC-2000 camera. Because the PDC-2000 camera is internally terminated, **you must install it as the last device in your SCSI chain** as follows:

- 1 Turn off the computer, all SCSI devices, and the camera.
- 2 Remove the terminator (a) from the last device in your SCSI chain.



Note: Keep the terminator. You will need to reconnect it if you wish to use the computer while the camera is disconnected from it.

- 3 Attach the DB25/50 pin Centronics adapter (b) to the end of the SCSI system cable (c).

Use only the cable provided with the camera. Other cables may appear similar, but could damage the camera or your computer.

- 4 Connect the DB25/50 pin Centronics adapter (b) to the connector from which you removed the terminator.

- 5 Connect the other end of the SCSI system cable (**d**) to the SCSI connector on the PDC-2000 camera.
- 6 Connect the camera to AC power using the power adapter/trickle charger (**e**).



IMPORTANT: ALWAYS CONNECT THE CAMERA TO AC POWER WHEN IT IS CONNECTED TO THE COMPUTER. IF THE CAMERA OR ANY OTHER SCSI DEVICE TURNS OFF WHILE CONNECTED, IT COULD CORRUPT DATA ON YOUR HARD DISK.

Setting up your PC for the PDC-2000

To view PDC-2000 pictures stored in the camera, transfer pictures from the camera to your computer, operate the camera through the computer, or change camera setup options, you must install one of the following programs on your PC. All are provided with the PDC-2000 camera.

- **PDC-2000 TWAIN driver** Using the TWAIN driver requires an image-processing application (not provided) compatible with the TWAIN specification.
- **PDC-2000 plug-in software** Using the plug-in requires an image-processing application (not provided) compatible with Adobe Photoshop plug-in modules.
- **PDC-2000 Direct software** If you do not have an image processing application compatible with TWAIN or Photoshop plug-in modules, you must install PDC-2000 Direct to use the PDC-2000 camera with your computer.

Choosing the software to install

The TWAIN driver is recommended for use with the PDC-2000, since it is compatible with most Microsoft Windows image processing applications capable of acquiring images. (This includes Adobe Photoshop for Windows.)



Installing the
TWAIN driver

Installing the plug-in
software

If you are using an application not compatible with TWAIN but compatible with Photoshop plug-in modules, install the plug-in instead.

Note: To avoid possible conflicts between the TWAIN driver and the plug-in module, **do not install both**.

If you do not have an application compatible with either TWAIN or Photoshop plug-ins, install PDC-2000 Direct. You do **not** need the TWAIN driver or the plug-in to use PDC-2000 Direct.

To install the TWAIN driver:

- 1 Turn on the computer and start Windows.
- 2 Insert the TWAIN driver diskette into the floppy drive.
- 3 From the Program Manager menu, choose Run.
- 4 Type **a:\setup** (or **b:\setup** if the diskette is in drive B) and click OK.
- 5 Follow instructions on the screen to complete the installation.
- 6 Remove the diskette from the floppy drive.

To install the plug-in module:

- 1 Turn on the computer and start Windows.
- 2 Insert the plug-in module diskette into the floppy drive.
- 3 From the Program Manager menu, choose Run.
- 4 Type **a:\setup** (or **b:\setup** if the diskette is in drive B) and click OK.

An initial dialog message box appears, followed by a PDC-2000 Setup dialog box indicating a drive and directory for the PDC-2000 plug-in files.

Installing PDC-2000 Direct

- 5 To use the drive and directory displayed in the dialog box, click Continue.
To change the drive or directory, enter the new location before clicking Continue.
- 6 Follow instructions on the screen to complete the installation.
- 7 Remove the diskette from the floppy drive.
To install PDC-2000 Direct:
 - 1 Turn on the computer and start Windows.
 - 2 Insert the PDC-2000 Direct for Windows diskette into the floppy drive.
 - 3 From the Program Manager menu, choose Run.
 - 4 Type **a:\setup** (or **b:\setup** if the diskette is in drive B) and click OK.
 - 5 To use the drive and directory displayed in the dialog box, click Continue.
To change the drive or directory, enter the new location before clicking Continue.
 - 6 Follow instructions on the screen to complete the installation.
 - 7 Remove the diskette from the floppy drive.

Verifying camera internal settings from your PC

The PDC-2000 camera stores the following settings in its internal memory:

- User name
- Default picture label
- Current date

- Current time
- Automatic shutoff timeout values
- Camera sound indicator status

Before using the PDC-2000 camera for the first time, verify (and change, if necessary) these settings by following instructions in *Changing operating preferences* on page 97.

After verifying the camera's internal settings, proceed as follows:

If you intend to take pictures with the camera disconnected from the computer, close your image-processing application by choosing Exit from the File menu. Then turn off the computer and the camera, and disconnect the camera as described below. Refer to *Using the PDC-2000 camera* on page 33 for picture-taking instructions.

If you wish to take pictures while using the computer to control the camera, leave the camera connected to the computer. Refer to *Using the PDC-2000 with your PC* on page 83.

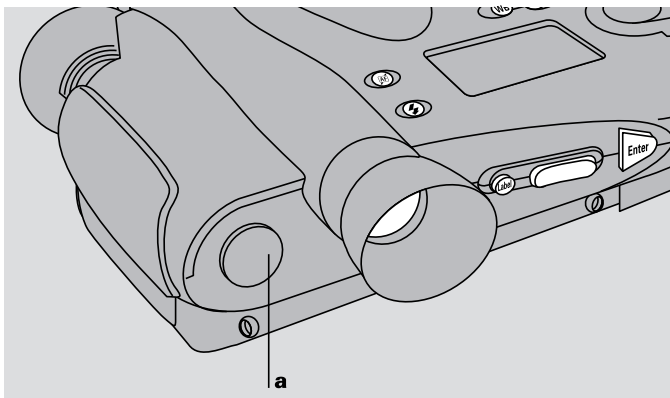
Disconnecting the camera from your computer

If you want to take pictures with the PDC-2000 camera away from the computer, use the following steps to disconnect it.

Note: The procedure below disconnects the camera cable from the computer. To use the camera controls for taking pictures without disconnecting the camera from the computer, see *Releasing the camera from computer control* on page 80 (Macintosh) or page 102 (PC) instead.

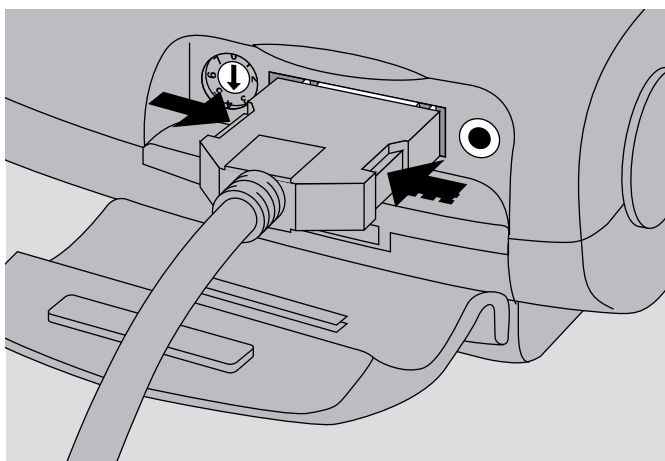
- 1 Turn off the computer.

- 2 Turn off the camera by pressing the Power button (a).



WARNING: DO NOT CONNECT OR DISCONNECT THE PDC-2000 CAMERA OR ANY OTHER SCSI DEVICE WHILE THE DEVICE OR YOUR COMPUTER IS TURNED ON. DOING SO COULD DAMAGE THE DEVICE, YOUR COMPUTER, OR BOTH.

- 3 Disconnect the camera cable from the computer or from the SCSI device to which it is connected.
- 4 Disconnect the camera cable from the camera by pressing the latching levers and pulling straight out.



- 5 If other SCSI devices are connected to your computer and you wish to use the computer while the camera is disconnected, install a terminator on the SCSI device connector to which the camera was attached.

3 Using the PDC-2000 camera

Using the Polaroid PDC-2000 camera is similar to using a conventional 35mm point-and-shoot camera. But instead of storing pictures on photographic film, the PDC-2000 camera stores electronic images internally or on a computer connected to the camera.

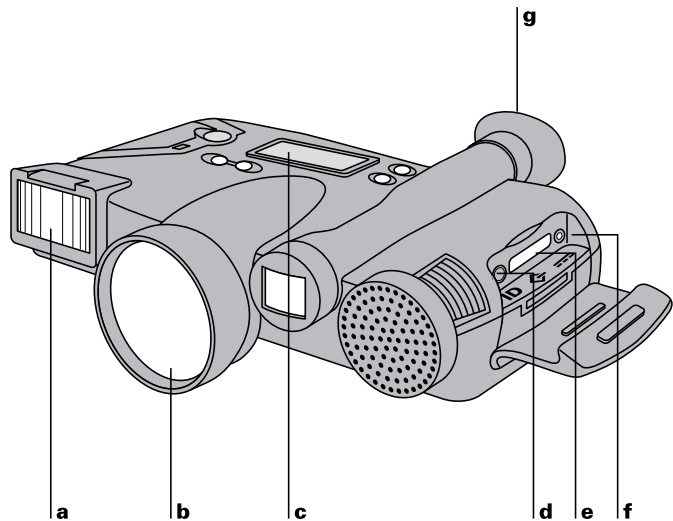
Used in the stand-alone mode, the camera stores up to 40 pictures (model PDC-2000/40) or 60 pictures (model PDC-2000/60) internally. The camera controls allow you to control the use of flash, automatic focus, white balance and other features just as you would operate any other camera. You can also attach a label to each picture and erase pictures you don't want to keep.

When connected by a cable (tethered mode) to a computer running PDC-2000 software, the camera can be controlled with the computer keyboard and mouse, and its viewfinder image appears on the computer screen. In this mode, it transfers each picture as it is taken directly to the computer for viewing, printing, editing or storing. In the tethered mode, the camera can also send all its stored pictures to the computer at once.

This chapter explains how to use the camera in the stand-alone mode. To use your computer for controlling the camera during picture-taking and to transfer pictures from the camera to your computer, see *Using the PDC-2000 with your Macintosh* (page 61) or *Using the PDC-2000 with your PC* (page 83).

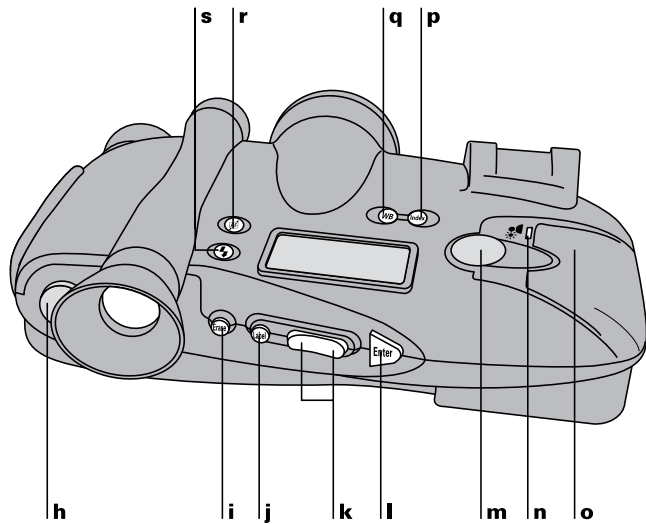
Note: The model PDC-2000/T has no internal picture storage and is intended only for use while connected to a computer (tethered mode).

Getting acquainted



- a **Flash:** Provides controlled subject lighting for correctly exposed and color-balanced pictures.
- b **Lens:** Directs and focuses light into camera for capturing pictures.
- c **LCD panel:** Displays picture numbers and labels, along with symbols (icons) indicating camera conditions and errors. See *LCD panel* on page 37.

- d **SCSI address selector:** Sets the camera's SCSI address (required for communication with your computer).
- e **SCSI cable connector:** Provides a connection to your computer via the SCSI cable provided.
- f **Battery charger connector:** Connection for the battery charger.
- g **Viewfinder:** Used for framing pictures. Also displays signals informing the operator about camera conditions. See *Viewfinder indicators* on page 39.



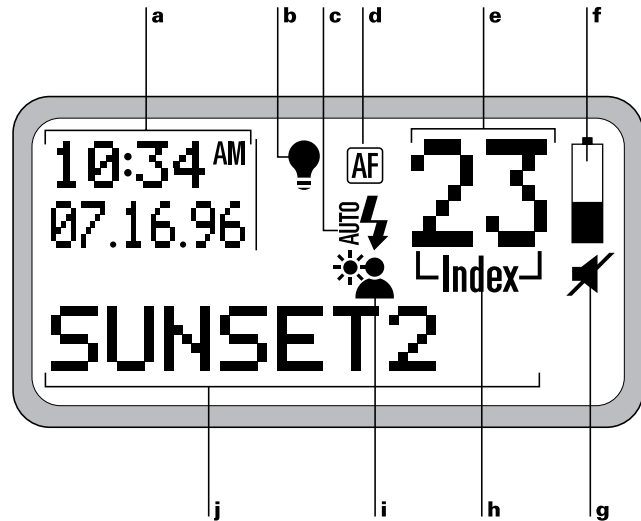
- h **Power button:** Turns the camera power on and off.
- i **Erase button:** Used in the Index mode to erase pictures from the camera. (See *Erasing pictures* on page 55.) Also used in the Index or Capture mode to erase or edit picture labels. (See *Labeling pictures* on page 50.)
- j **Label button:** Activates or deactivates the Label field in the LCD panel for creating or editing picture labels. See *Labeling pictures* on page 50.
- k **Scroll buttons:** When the camera is in the Index mode, scrolls through the numbers and labels of the pictures stored in the camera. If the Label field is active, scrolls through the list of

alphanumeric characters for insertion in a label. (See *Labeling pictures* on page 50.)

- l **Enter button:** If the Label field is active, enters the currently displayed character in the space above the cursor and moves the cursor to the right. (See *Labeling pictures* on page 50.)
- m **Shutter button:** Pressing half-way down focuses the camera and measures available light for automatically setting exposure. Pressing fully takes a picture. Also used with other buttons to delete pictures from the camera.
- n **Backlight Compensation button:** Increases exposure for correct subject lighting in backlit scenes. See *Compensating for back lighting* on page 49.
- o **Battery compartment:** Holds the four rechargeable NiCad “AA” batteries powering the camera.
- p **Index button:** Changes the camera to Index mode for scrolling through picture numbers and labels and deleting pictures. Pressing a second time returns the camera to Capture mode for taking pictures. (See *Capture and Index modes* on page 40 for more information.)
- q **White Balance button:** Sets the camera for accurate color rendition in daylight, incandescent light or fluorescent light. See *Setting the camera for current lighting conditions* on page 43.
- r **Auto Focus button:** Disables automatic focus and sets focus distance at infinity. See *Using Auto Focus* on page 48.
- s **Flash button:** Sets flash for automatic, on or off. See *Using flash* on page 46.

LCD panel

The LCD panel on the PDC-2000 camera displays text and symbols indicating various camera settings and error conditions.



- a **Time and date.** When the camera is in Capture mode, displays the current time and date. To set, see *Changing the preferences* on page 77 (Macintosh) or page 99 (PC). When the camera is in Index mode, displays the time and date the currently displayed picture was taken.
- b **White balance indicator.** Displays current lighting conditions setting: (blank) daylight, (💡) incandescent light, (⚡) fluorescent light.

To change the white balance setting, see *Setting the camera for current lighting conditions* on page 43.
- c **Flash setting indicator.** Displays current flash setting: (⚡) automatic flash, (💡) flash on, (blank) flash off.

To change the setting, see *Using flash* on page 46.

- d **Auto Focus indicator.** Displays current auto focus setting: (AF) Auto Focus on, (AF) Auto Focus off.

To change the setting, see *Using Auto Focus* on page 48.

- e **Picture counter.** When the camera is in the Capture mode, displays the number of pictures stored in the camera. In the Index mode, displays the number of the picture being reviewed.

- f **Battery level indicator.** Displays current battery level: () fully charged, () discharged, and other levels.

Discharged batteries should be recharged (see *Caring for the camera batteries* on page 105) or replaced with charged batteries.

- g **Sound indicator.** Displays status of camera sound: () sound on, () sound off.

To change the setting, see *Changing operating preferences* on page 75 (Macintosh) or page 97 (PC).

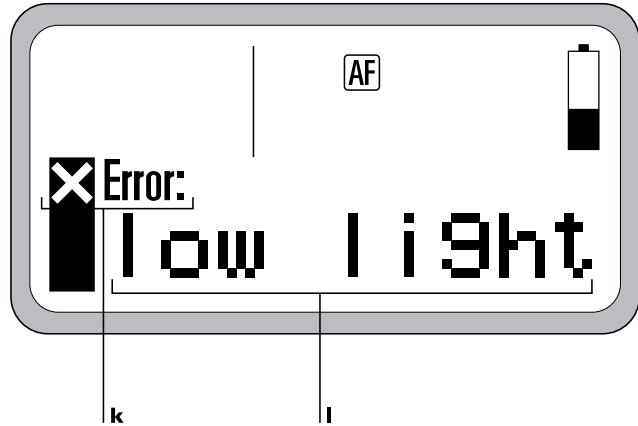
- h **Mode indicator.** Displays the current mode setting: () Capture mode, ("Index") Index mode.

To change the setting, press the Index button described on page 36.

- i **Backlight compensation indicator.** Displays backlight compensation setting: () on, () off.

To change the setting, see *Compensating for back lighting* on page 49.

- j **Label area.** Displays a 10-character label for the current picture. (Also used for displaying messages, as described in item l.)



- k **Error indicator.** Displays “Error” when an error condition exists (low light, low battery, flash not ready, disk full or internal hardware error). See page 111 for error message troubleshooting information.
- l **Message area.** Displays error messages (low light, low battery, flash not ready, disk full or internal hardware error), and confirmation messages for erasing pictures and connecting the camera to the computer. (Also used for displaying labels, as described in item j.)

Viewfinder indicators

For convenience while taking pictures, the PDC-2000 provides a yellow LED and a red LED at the bottom of the viewfinder. If an error condition occurs, these indicators light to alert you.

<i>Indicator</i>	<i>Meaning</i>
Yellow	Flash has not completely charged or picture being stored
Blinking red (when Shutter button partially depressed)	Insufficient light, storage disk full, low battery or internal hardware error

When a blinking red LED appears in the viewfinder, the LCD panel also displays an explanatory error message. (See *LCD panel* on page 37.)

Sound indicators

The PDC-2000 provides audible tones to help alert you to the following operating or error conditions:

<i>Sound</i>	<i>Meaning</i>
One high-pitched tone when camera power turned on	Camera is ready to take pictures
Two high-pitched tones followed by a low-pitched tone when Shutter button pressed half way	Low battery
Two high-pitched tones when Shutter button pressed half way	Insufficient light, flash not ready, storage disk full or internal hardware error
One or two low-pitched tones when camera turned on	Internal hardware error or special condition
One or more low-pitched tones followed by camera powering off	Battery power insufficient for camera operation

When two high-pitched tones or a low-pitched tone indicate an error condition, the LCD panel also displays an explanatory message. (See *LCD panel* on page 37.)

If you wish, you can turn camera sound off for the error condition signals. See *Changing the preferences* on page 77 (Macintosh) or page 99 (PC).

Capture and Index modes

The PDC-2000 has two modes of operation: Capture and Index. You select the mode by pressing the Index button.

The Capture mode is used for picture-taking. You can also edit the default picture label while you are in the Capture mode. (See *Labeling pictures* on page 50 for more information.)

The Index mode allows you to use the Scroll buttons to scroll through the numbers, times, dates and labels of the pictures stored in the camera. In the Index mode, you can also delete pictures and edit individual labels.

Automatic shutoff

To help conserve battery power, the PDC-2000 has an automatic shutoff feature that turns off the camera after a preset period of inactivity (2 minutes, unless you change it as described below). The camera also turns off the viewfinder image, which can be displayed on the computer screen when taking pictures with the camera connected to the computer, if the camera remains inactive for a preset period.

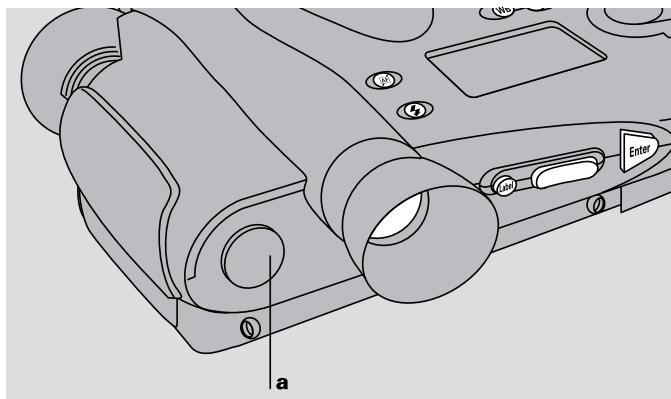
The automatic shutoff timeout periods can be adjusted through the camera's internal settings. See *Changing the preferences* on page 77 (Macintosh) or page 99 (PC).

Note: Automatic shutoff is disabled while the camera is connected to AC power and is under computer control (displaying "connected" on the LCD panel).

Taking pictures

Turning on the camera

To turn on the PDC-2000 camera, press the Power button (a).



When you press the Power button, the camera performs a brief self-test, then displays a normal LCD panel. If the sound indicators are enabled, the camera also emits a short, high-pitched tone to indicate that it passed the self-test and is ready to take pictures.

If the camera detects any problems or errors during its self-test, it displays an error message on the LCD and emits one or two short, low-pitched tones. (For more information about error messages, see *Troubleshooting error messages* on page 111.)

Setting to stand-alone mode

If your PDC-2000 camera is connected to a computer, you must release it from computer control to operate in the stand-alone mode.

Use either of these two methods to release it:

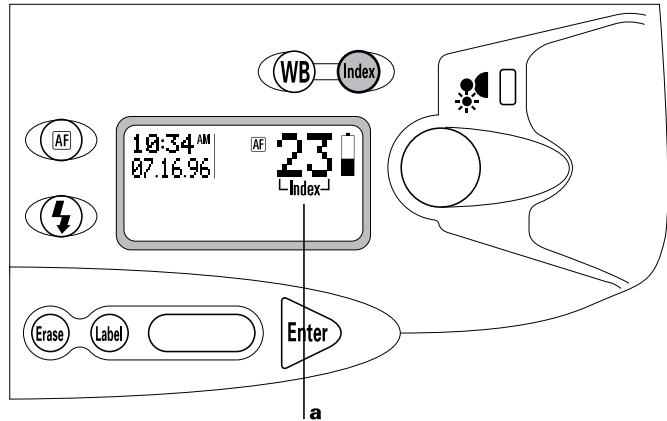
- Use the computer to release the camera. (See *Releasing the camera from computer control*, page 80 for Macintosh or page 102 for PC.)
- Disconnect the camera from the computer. (See *Disconnecting the camera from your computer* on page 29.)



WARNING: DO NOT DISCONNECT OR CONNECT ANY DEVICE WHILE THE DEVICE OR YOUR COMPUTER IS TURNED ON. DOING SO COULD DAMAGE THE DEVICE, YOUR COMPUTER, OR BOTH.

Selecting Capture mode

Before taking pictures, make sure the camera is in the Capture mode. If the camera is in the Index mode instead, the word “Index” (a) appears in the LCD panel. Set the mode to Capture by pressing the Index button.





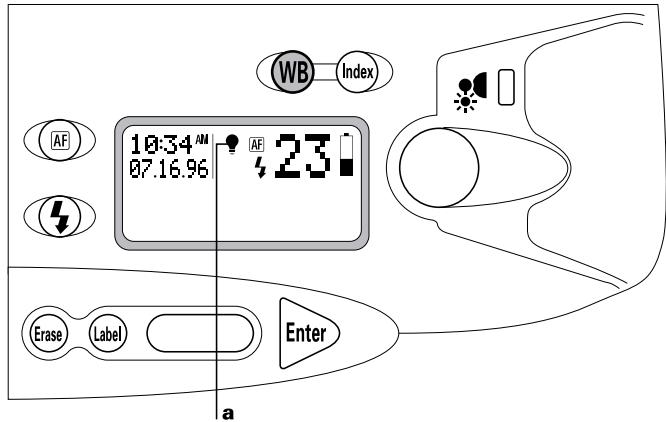
Setting the camera for current lighting conditions

To achieve accurate colors, you must choose the white balance setting that matches lighting conditions in the scene. Using an incorrect setting can give your pictures an unnatural yellow, blue or green tint.

Use the daylight setting for taking pictures outdoors, or when taking pictures with the flash set to Automatic or On (see *Using flash* on page 46).

When taking pictures indoors **without flash** under incandescent or fluorescent lighting, change the camera to the appropriate setting by pressing the White Balance button (WB).

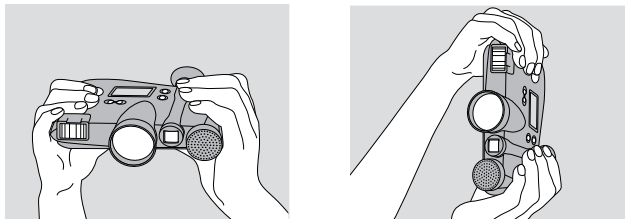
When either incandescent () or fluorescent () lighting is selected, the appropriate symbol appears on the LCD panel (**a**). When daylight is selected, no symbol is visible.



Holding the camera

The PDC-2000 camera is designed so you can easily hold it steady during picture-taking. When you hold the camera as shown, you can comfortably reach the shutter button while viewing the scene through the viewfinder.

If you hold the camera vertically (for portraits, for example), be sure the flash is at the top as shown.



Framing and taking the picture

After setting the mode and lighting setting, hold the camera correctly and view the scene to be captured through the viewfinder. If necessary, move closer or farther away from the subject while looking through the viewfinder to get the framing you want. (If you wear eyeglasses, fold back the rubber eyecup on the viewfinder for easier viewing.)

With the normal 38mm-equivalent lens, the PDC-2000 camera can focus on subjects as close as 10 inches (26cm) from the lens. When framing subjects less than 2 feet (61cm) from the lens, leave some extra space between your subject and the left and right edges of the viewfinder. At close distances, some of the area near the edges of the viewfinder may not be captured in the picture.



Note: When the normal 38mm-equivalent lens is installed on the camera, use the full viewfinder for framing your picture. The frame visible in the viewfinder is for framing with the optional 60mm-equivalent lens.

When the subject is framed, press the shutter button slightly while watching for a yellow or red warning indicator at the bottom of the viewfinder.

If no warning indicator is visible, take the picture by pressing the shutter button completely. (If a red or yellow warning indicator is visible in the viewfinder, release the button and refer to *If you see a viewfinder warning* below before taking the picture.)

Before or after taking the picture, you can label it as described on page 50 for easy identification.

If you see a viewfinder warning

If a yellow or red warning indicator is visible in the viewfinder when you are about to take a picture, release the shutter button and take the steps indicated below before continuing:



<i>Indicator</i>	<i>Meaning and corrective action</i>
Yellow	Flash has not completely charged or previous picture still being stored; wait until the LED goes out before taking the picture


<i>Indicator</i>	<i>Meaning and corrective action</i>
Blinking red	Insufficient light; use flash (page 46) or Camera storage disk is full; erase one or more pictures (page 55) or transfer the stored pictures to the computer (page 69 for Macintosh, page 91 for PC) or Low battery power; recharge batteries (page 106) or Hardware error; see <i>Troubleshooting error messages</i> (page 111)


Note: When you see the blinking red LED in the viewfinder, look at the LCD panel for more information about the problem.

Using flash

The PDC-2000 camera provides three flash modes for optimum picture quality under a great variety of lighting conditions:

Automatic ()	Camera automatically determines whether or not to use flash
On ()	Flash fires with every picture
Off (blank)	Flash never fires

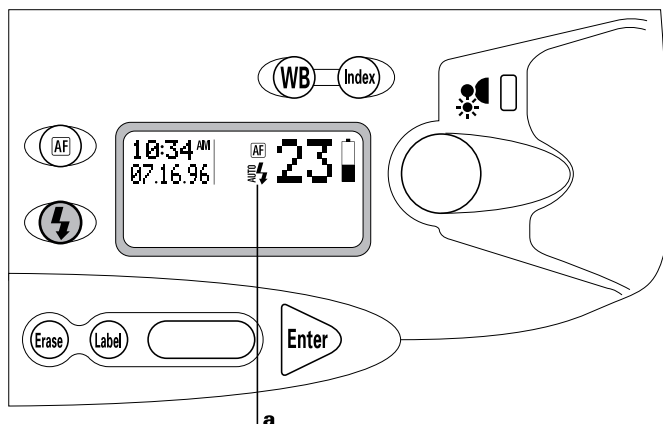
Automatic () is the recommended setting, and should produce correctly lighted pictures under most conditions. The flash is effective up to 15 feet (4.6m) from the subject.

Use the flash On () setting when conditions might cause the automatic flash system to mistakenly determine that flash is not needed. Outdoors, for example, overall scene lighting may be adequate but the main subject may be in shadow. In this case, the automatic flash would not fire and the subject would be too dark. In this case, using the flash On setting would expose the subject correctly.

When flash is set to Automatic or On, make sure the white balance is set for Daylight. (See *Setting the camera for current lighting conditions* on page 43.)

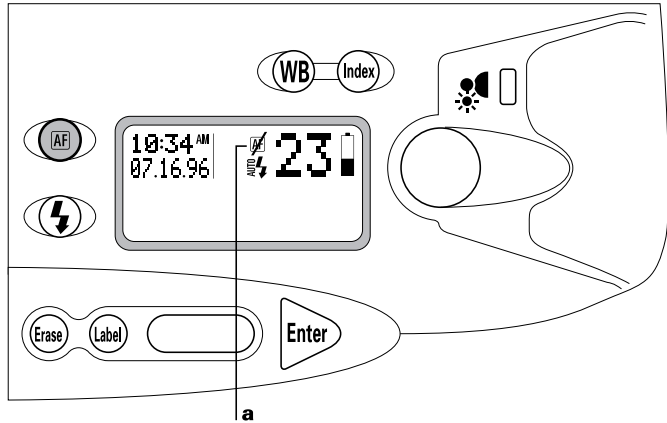
Use the flash Off (no symbol) setting when sufficient light is available and you do not wish to fire the flash.

To change the flash setting, press the Flash button (⚡) until ^{AUTO}⚡, ⚡ or no symbol, as appropriate, appears in the LCD panel (a).



Using Auto Focus

The PDC-2000 camera features automatic focus that produces sharp pictures under most conditions. To disable automatic focus and set focus to infinity (for taking pictures through a window, for example), press the Auto Focus button (AF) to display the Auto Focus Off symbol (AF) on the LCD panel (a).



You can reset to Auto Focus On (AF) by pressing the Auto Focus button again. The camera automatically resets to Auto Focus On when the camera is turned on.

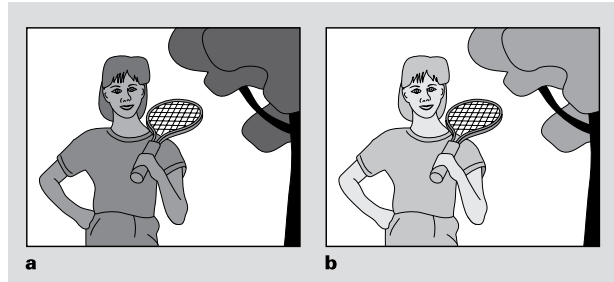
Using Focus Lock

The Focus Lock feature lets you achieve sharp focus when the main subject is not centered in the picture.

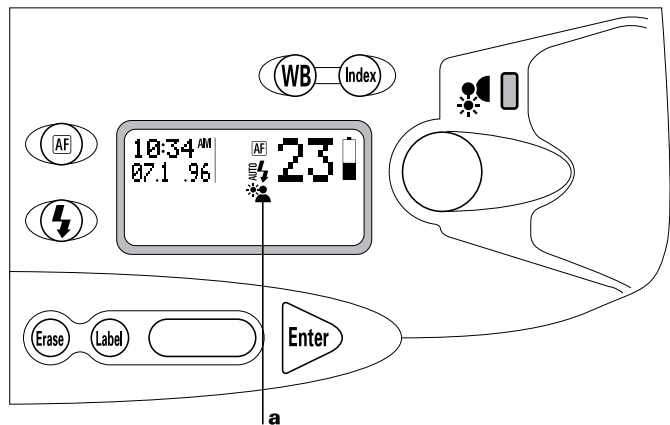
To use Focus Lock, center the subject in the viewfinder and press the Shutter button half-way down to lock the focus distance. While continuing to hold the Shutter button, reframe the picture as desired. Then press the Shutter button all the way to take the picture.


Compensating for back lighting

The PDC-2000 camera's exposure system automatically adjusts to most lighting conditions. But when the background is much brighter than your subject or "back-lighted," the subject may turn out too dark (a). Using the Backlight Compensation feature increases the brightness of the entire picture to produce a correctly exposed subject (b).



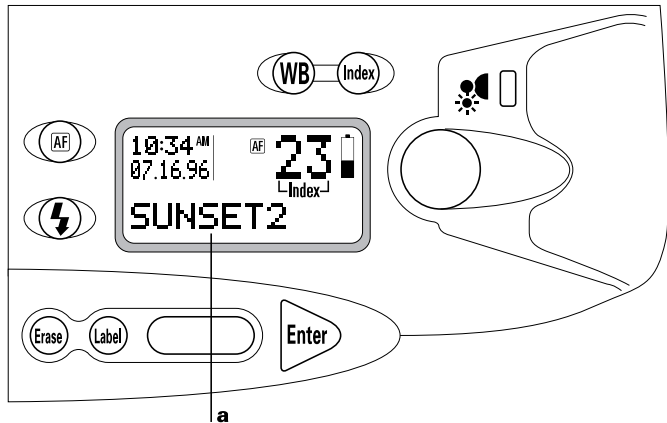
Turn on Backlight Compensation by pressing the Backlight Compensation button (*).



A symbol (*) in the LCD panel (a) indicates that Backlight Compensation is on. The camera automatically turns Backlight Compensation off after you take a picture or when the camera is turned on.

Labeling pictures

To help identify your pictures, you can use the camera controls to assign a 10-character label to each one. This label appears on the camera's LCD panel (a) whenever the picture number is displayed, and it remains with the picture when it is transferred to the computer.



With the procedures in this section, you can edit the default picture label applied to all pictures taken after the default label is entered. (Your PDC-2000 camera was shipped with "POLAROID" as the default picture label.) You can also edit this default label to create unique labels for individual pictures any time after the pictures are taken.

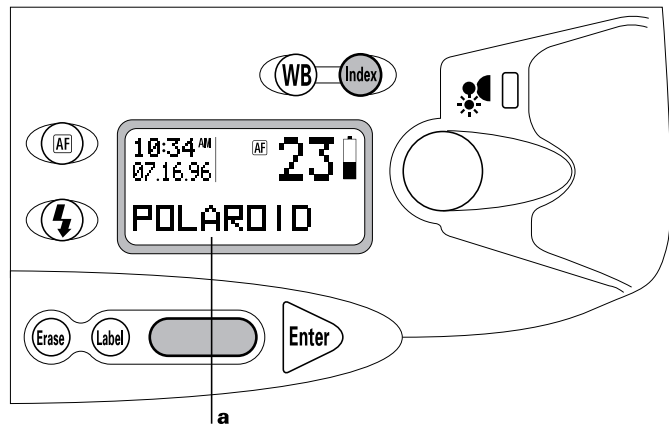
Note: You can also use your computer to edit the default picture label or change individual picture labels for pictures being transferred to the computer. For more information, see Chapter 4 (Macintosh) or Chapter 5 (PC).

Editing the default picture label

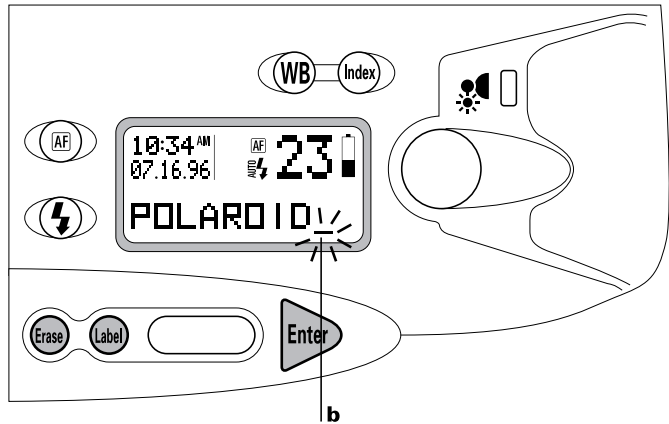
Use the following steps to edit the default picture label stored in the camera. This label will appear on all pictures taken after the label is edited.

- 1 If the camera is in the index mode (indicated by “Index” on the LCD panel), press the Index button to remove “Index” and change the mode to Capture.

The current default picture label (a) is visible.



- 2 Press the Label button to display a blinking cursor (**b**) under the first empty character space in the LCD panel label field.



If no default label exists, the cursor appears in the first character space of the label field.

- 3 Press the Erase button once to erase the last character of the label, twice to erase the last two characters, etc. To erase the entire label, hold the Erase button for 3 seconds or longer.

If no picture label exists, it is not necessary to press the Erase button.

- 4 To insert a new character at the cursor location, press the Scroll button until the desired character appears in the space. Press the Enter button to store the character and move the cursor to the next space.

Note: Only upper case (capital) letters, numerals, hyphen (-) and space are available for labels.

To leave a blank space, press the Enter button without entering a character.

- 5 Repeat step 4 until you have completed the label (up to 10 characters and spaces).

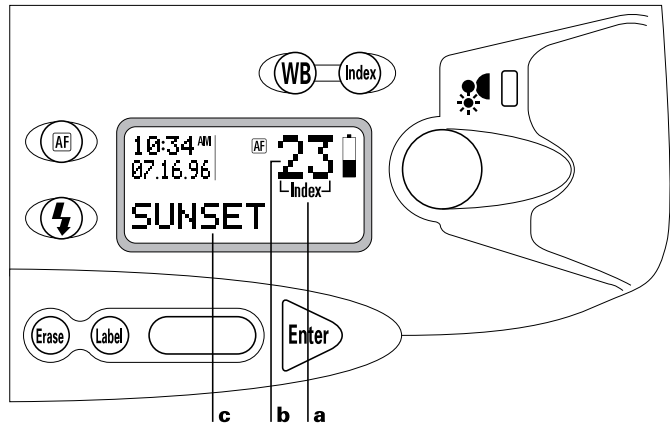
- 6 Exit from the Label mode by pressing the Label button.

To individualize the default label for a single picture, use the procedure in the following section.

Editing a single picture's label

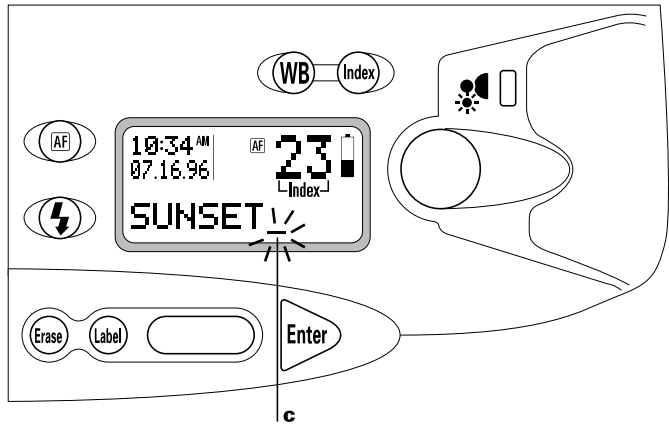
Use the following steps to edit an individual picture label:

- 1 If the camera is not in the Index mode (indicated by "Index" (a) on the LCD panel), press the Index button to change to the Index mode. (It may take a few seconds for "Index" to appear.)



- 2 If the number (b) of the picture receiving the new label is not displayed in the LCD panel, press the Scroll button until the desired picture number and label (c) appear.

- 3 Press the Label button to display a blinking cursor (c) under the first empty space in the LCD panel label field.



- 4 Press the Erase button once to erase the last character of the label, twice to erase the last two characters, etc. To erase the entire label, hold the Erase button for 3 seconds or longer.
If no picture label exists, it is not necessary to press the Erase button.
- 5 To insert a new character at the cursor location, press the Scroll button until the desired character appears in the label space. Press the Enter button to store the character and move the cursor to the next space.
To leave a blank space, press the Enter button without entering a character.
- 6 Repeat step 5 until you have completed the new label (up to 10 characters and spaces).
- 7 Exit from the Label mode by pressing the Label button.

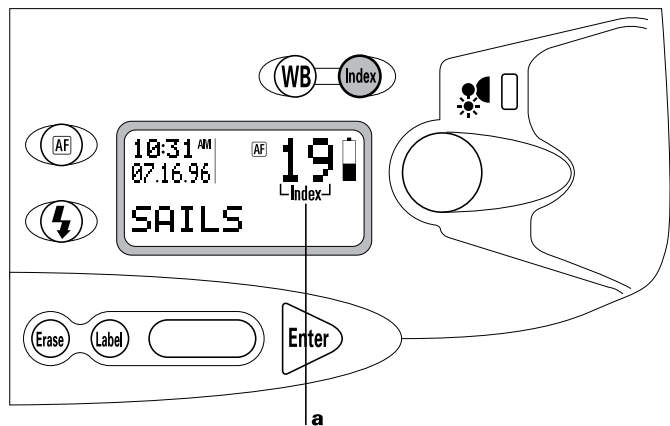
Erasing pictures

When you reach the camera's picture-storage limit (40 or 60 pictures, depending on your camera model) or you want to retake pictures for any reason, you will need to erase one or more pictures from the camera's internal storage.

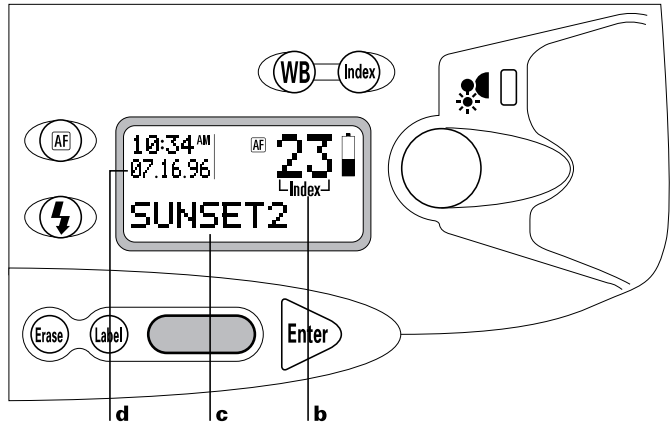
If you are using the camera in the stand-alone mode, use the following procedure to erase pictures. (If the camera is connected to the computer, use the computer to erase pictures from the camera. For that procedure, see *Deleting pictures from the camera* on page 71 for Macintosh or page 93 for PC.)

Erasing a single picture

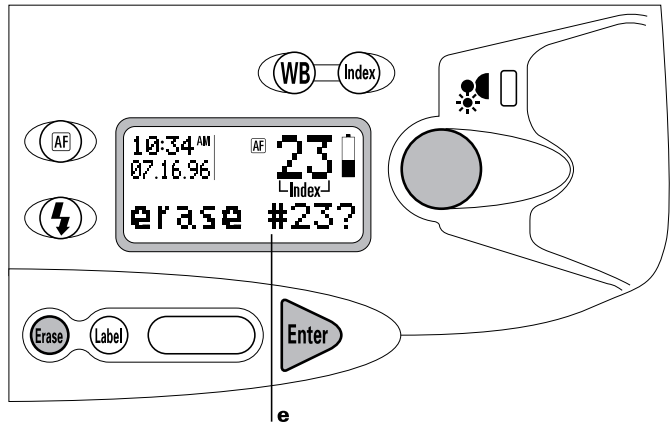
- 1 Place the camera in the Index mode (a) by pressing the Index button. (It may take a few seconds for "Index" to appear.)



- 2 Press the Scroll button until the number **(b)**, label **(c)**, if used, and date and time **(d)** of the desired picture appears in the LCD panel.



- 3 Simultaneously press and release the Erase button and the Shutter button to display a confirmation message **(e)** on the LCD panel. (Be sure to press the Shutter button all the way.)



- 4 To erase the picture, press the Erase button a second time. (If you decide not to erase the picture, do **not** press the Erase button. Instead, wait for the confirmation message to disappear or press the Enter button.)



- 5 Repeat steps 2, 3 and 4 as needed to erase additional pictures.

Important: When you erase a picture, the picture numbers change to produce a continuous sequence starting at 1 for all remaining pictures. When erasing multiple pictures, you should erase the highest-numbered picture first to avoid accidentally erasing pictures you want to keep.

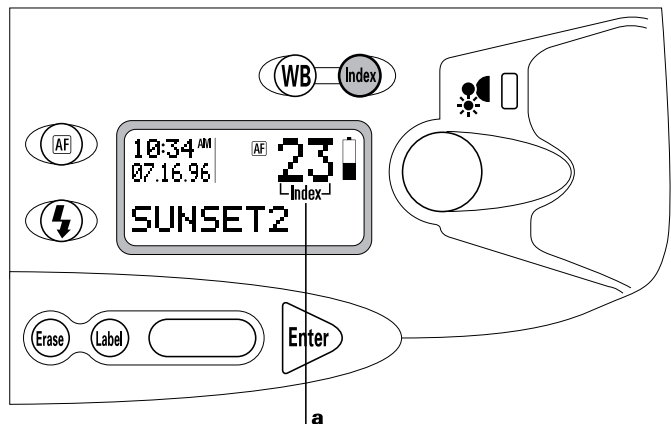
- 6 To change to Capture mode for taking more pictures, press the Index button.

Erasing all pictures

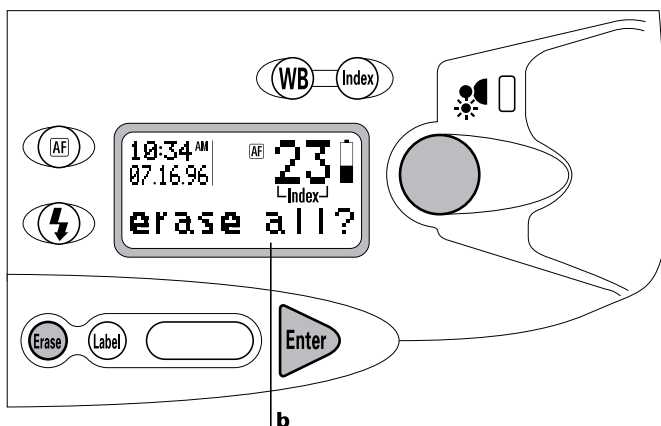


WARNING: THIS PROCEDURE ERASES ALL PICTURES STORED IN THE CAMERA. IF YOU WANT TO KEEP ANY PICTURES, BE SURE TO TRANSFER THEM TO THE COMPUTER (SEE PAGE 69 FOR MACINTOSH OR PAGE 91 FOR PC) **BEFORE** USING THE STEPS BELOW.

- 1 Place the camera in the Index mode (a) by pressing the Index button. (It may take a few seconds for “Index” to appear.)



- 2 Simultaneously press and hold the Erase button and the Shutter button for 5 seconds to display “erase all?” (b) on the LCD panel. (Be sure to press the Shutter button completely.) Release the buttons when the message appears.



- 3 To erase all the pictures, press the Erase button a second time. (If you decide not to erase the pictures, do **not** press the Erase button. Instead, wait for the confirmation message to disappear or press the Enter button.)
- 4 To change to Capture mode for taking more pictures, press the Index button.

Unerasing pictures

If you accidentally erase one or more pictures from the camera, you may be able to recover (“unerase”) them with the following procedure.

Note: These steps restore only the most recently taken pictures. If you erase pictures and then take more before you attempt recovery, the new pictures may overwrite the ones you want to recover.

- 1 Turn the camera off by pressing the Power button.

- 2 Simultaneously press and hold the Power button and the Auto Focus button until “restored” appears on the LCD panel (about 2 seconds), then release the buttons.
- 3 Transfer the pictures you want to keep to your computer (see page 69 for Macintosh or page 91 for PC).

Note: Restoring pictures is likely to change the picture numbers. Use care in choosing the pictures to be transferred.

- 4 Erase all the pictures from the camera. (See *Erasing all pictures* on page 57, or see Chapter 4 or 5 to use your computer for erasing the pictures.)

Note: Because this procedure restores all pictures on the camera’s storage disk, the LCD displays “disk full” if you attempt to take additional pictures without performing steps 3 and 4.

4 Using the PDC-2000 with your Macintosh

To transfer and work with pictures from the PDC-2000 camera on your Macintosh, you use the PDC-2000 plug-in module with an image-processing application, such as Adobe Photoshop. If you do not have an application compatible with plug-in modules, you can still work with the camera through your Macintosh by installing PDC-2000 Direct. (See Chapter 2 for software installation information.)

With the PDC-2000 camera connected to your computer and either the PDC-2000 plug-in or PDC-2000 Direct software installed, you can perform the following operations:

View the pictures stored in the camera You can quickly view all the pictures in the camera by displaying miniature representations of them (called thumbnails) in a single window.

Transfer multiple pictures You can use the thumbnail view to choose and transfer pictures from the camera to your computer.

Operate the camera through the computer You can take pictures by using your computer keyboard or mouse, while using the computer screen as a viewfinder. This is particularly convenient for studios and other stationary setups.

Change camera setup You must use the PDC-2000 software to change the PDC-2000 camera's internal date, time, user name and other settings stored in the camera.

The PDC-2000 windows

When you use the PDC-2000 plug-in software from within an image-processing application or when you launch PDC-2000 Direct, three different windows are available:

Transfer Pictures window The Transfer Pictures window displays thumbnail representations of pictures in the camera.



From the Transfer Pictures window, you can:

- Transfer selected pictures from the camera to the computer.
- Rotate selected pictures in 90-degree increments.
- Edit picture labels.

- View picture information, including date, time, user name, and camera settings in effect when the picture was taken.
- Delete selected pictures from the camera.

Take Pictures window The Take Pictures window lets you control the camera through the computer.



With the Take Pictures window you can:

- Display a viewfinder image on your computer screen for framing pictures.
- Change the viewfinder orientation from landscape to portrait or vice versa.
- Change the camera settings for flash, lighting conditions, automatic focus and backlight compensation just as you would with the controls on the camera.
- Take a picture and immediately transfer it to the computer.

Set Preferences window The Set Preferences window lets you change the internally stored camera settings and the way pictures are transferred from the camera to the computer. It also allows you to release the camera from computer control without disconnecting the camera cable.



From the Set Preferences window you can:

- Change the user name (recorded with each picture).
- Change the default picture label.
- Change the camera's internal clock settings to match the computer's time and date settings.
- Change the camera's automatic shutoff settings.
- Select the resolution of pictures transferred from the camera to the computer.
- Turn the camera sound indicators off and on.
- Release the camera from computer control (for taking pictures using the camera's controls while the camera is connected to the computer).

- Set “Expert Preferences” for transferring pictures to an image processing application or directly to a file on your computer’s disk, for keeping the PDC-2000 plug-in active or closing it after each transfer operation, and for enabling or disabling the display of thumbnail images from the camera.

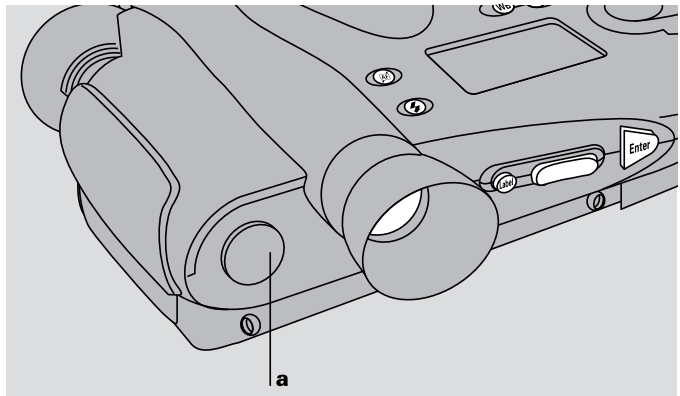
Working with pictures in the camera

Using either the PDC-2000 plug-in software with your image-processing application or PDC-2000 Direct, you can look at thumbnails (small representations) of pictures stored in the camera without transferring them to the computer. While viewing the thumbnails on your computer screen, you can rotate pictures, transfer pictures to the computer, or delete pictures from the camera.

Viewing pictures
in the camera

To display thumbnails of the pictures stored in the camera:

- 1 Connect the camera to your computer. If necessary, see *Connecting the camera to your Macintosh* on page 17.
- 2 Turn on the camera by pressing the Power button (a).



- 3 Turn on your computer.

- 4 Start an image-processing application compatible with Photoshop plug-ins, or start PDC-2000 Direct.
- 5 If you are using PDC-2000 Direct, skip to step 6.
If you are using a plug-in compatible image processing application, choose Acquire from the File menu, then choose PDC-2000.
- 6 If the Transfer Pictures window is not visible, click on the Transfer Pictures button to display it.



If all the thumbnails cannot fit in the window, click on the vertical scroll bar to view additional thumbnails.

Selecting thumbnails

Before you can perform operations (rotate, delete, etc.) on the pictures represented by the thumbnails in the Transfer Pictures window, you must select one or more of the thumbnails.

To select a single thumbnail, click it once or press the arrow keys to move to the thumbnail you want to select. A red border appears around the thumbnail. If all the thumbnails do not fit in the window, the rows of thumbnails automatically scroll as you use the arrow keys.

To select several thumbnails, press and hold the Shift key and then click the thumbnails or use the arrow keys. To select all the thumbnails, click the Select All button or hold down the ⌘ (Command) key and press the A key.

To deselect one thumbnail, press and hold the Shift key and click the selected thumbnail. To deselect all thumbnails, click the Select All button (or hold down the ⌘ key and press the A key) a second time.

Previewing pictures with
PDC-2000 Direct

If you are using PDC-2000 Direct, you can enlarge any thumbnail to a 400x300-pixel preview image for closer viewing.

To view a preview image, click on the thumbnail to select it. Choose Preview from the File menu, or hold down the ⌘ (Command) key and press the O key.

While viewing the preview image, you can save the picture to your computer's hard disk by choosing Save As from the File menu.

To close the preview image, click on the Close box in the upper left corner of the Preview window.

Viewing picture
information

When the Transfer Pictures window is open, you can display the following information about any picture represented in the window:

- Picture label
- User name
- Date and time picture was taken
- Focus distance
- Camera settings when picture was taken (light source, flash, autofocus, backlight compensation)

To view this information for any picture, select the desired thumbnail as described on page 66. Then choose the Get Info button or hold down the ⌘ (Command) key and press the I key.

To view abbreviated picture information, hold down the Option key while clicking on a thumbnail.

Rotating pictures

You can rotate a picture in 90-degree increments to change its orientation from landscape to portrait or vice versa. The rotation will not be saved unless you transfer the picture to the computer.

To rotate one or more pictures:

- 1 View the pictures in the camera as described on page 65.
- 2 Select one or more pictures to be rotated. (See *Selecting thumbnails* on page 66.)
- 3 Rotate the selected pictures 90 degrees by clicking the Rotate button or hold down the ⌘ (Command) key and press the R key.
- 4 To rotate the pictures further, continue to click the Rotate button again or hold down ⌘ and press R.

Note: To rotate the selected thumbnails back to their original orientation, hold down ⌘ and Shift, and press R.

Editing a picture label

If necessary, you can edit individual picture labels in the Transfer Pictures window. To edit the label text, click on the label and use the keyboard. You can move among labels by either clicking with the mouse or pressing the Tab key.

Note: Unlike individual labels created with the camera controls as described in *Editing a single picture's label* on page 53, labels edited with the computer are not saved in the camera. They remain visible only while you are viewing the Transfer Pictures window.

Transferring pictures from the camera to the computer

While viewing pictures stored in the camera, you can choose those you want to keep and then transfer them to the computer. If you are using Adobe Photoshop or another application compatible with Photoshop plug-ins, you can transfer them to the image-processing application or directly to an image file on your computer's hard disk. (You choose the method of transfer through the Expert Preferences button in the Set Preferences window. See *Changing the preferences* on page 77.) If you are using PDC-2000 Direct, you can only transfer the pictures directly to your computer's hard disk.

When you transfer the pictures from the camera to an image processing application, you save each one by using the Save As command in the application.

Most image-processing applications allow you to choose a file format for the pictures you are saving. (A file format is a way of organizing the image data so the computer can display and work with it.) See instructions with your image-processing application for a description of formats available to you.

If you prefer to save the pictures directly to your computer's hard disk or if you are using PDC-2000 Direct, your pictures are saved as TIFF files in the folder of your choice.

Transferring pictures to an application

Use the following steps to transfer one or more pictures to the computer through your image-processing application. (These instructions do not apply to PDC-2000 Direct because it only saves pictures directly to disk.)

Note: If necessary, disable the option that transfers pictures directly to disk or change the resolution (800x600 or 1600x1200) of the pictures being transferred before starting this procedure. (See *Changing the preferences* on page 77.)

Tip: If the Transfer button displays a diskette, the Expert Preferences are set to transfer directly to disk and must be changed before starting.

- 1 View the pictures in the camera as described on page 65.
- 2 Select one or more pictures to be transferred. (See *Selecting thumbnails* on page 66.)
- 3 Click the Transfer button or hold down the ⌘ (Command) key and press the T key.

Each selected picture appears in your image-processing application.

Note: When you transfer several pictures, your image-processing application may display them on top of one another. To view the different image windows, drag each one slightly to tile them.

- 4 If the Transfer Pictures window is still visible, close it.
- 5 Save a picture as follows:
 - a. In the image-processing application, click on a picture to make its window active.
 - b. Choose Save As from the application's File menu.
 - c. Follow the instructions with your image-processing application to save the picture in the desired format and in the desired folder on your hard disk.
- 6 Repeat step 5 as needed to save all the transferred pictures.

Note: Some applications may not allow you to transfer all the pictures at once with this method. If some of the pictures do not transfer from the camera to the application, repeat steps 2 through 7 as needed to transfer additional pictures.

Transferring pictures directly to disk

Use the following steps to transfer one or more pictures directly from the camera to the computer's hard disk without passing through your image-processing application. (If you are using PDC-2000 Direct, you must use this procedure to transfer pictures from the camera to your computer.)

Note: If necessary, enable the option that transfers pictures directly to disk or change the resolution (800x600 or 1600x1200) of the pictures being transferred before starting this procedure. (See *Changing the preferences* on page 77.)

Tip: If the Transfer button displays a diskette, the Expert Preferences are set to transfer directly to disk and does not need to be changed before starting.

- 1 View the pictures in the camera as described on page 65.
- 2 Select one or more pictures to be transferred. (See *Selecting thumbnails* on page 66.)
- 3 Click the Transfer button or hold down the ⌘ (Command) key and press the T key.
- 4 Select a folder to receive the pictures. (You can also create a new folder for the pictures by clicking on the New Folder button.)
- 5 Click OK to transfer the pictures.

Deleting pictures from the camera

Use the following procedure to delete pictures from the camera.

If you want to keep any of the pictures you are about to delete, be sure to transfer them to the computer **before** deleting them from the camera. See *Transferring pictures from the camera to the computer* on page 69.

To delete pictures from the camera:

- 1 View the pictures in the camera as described on page 65.

- 2 Select one or more pictures to be deleted. (See *Selecting thumbnails* on page 66.)
- 3 Use one of these methods to display a confirmation dialog box:
 - Click the Delete button.
 - Press the Delete key.
 - Hold down the ⌘ (Command) key and press the D key.
- 4 To delete the selected pictures from the camera, click OK in the confirmation dialog box.

Note: If you are not deleting all the pictures from the camera, those remaining will be renumbered. For example, you may decide to delete all pictures except 4 and 23. In this case, picture 4 becomes picture 1, and picture 23 becomes picture 2.

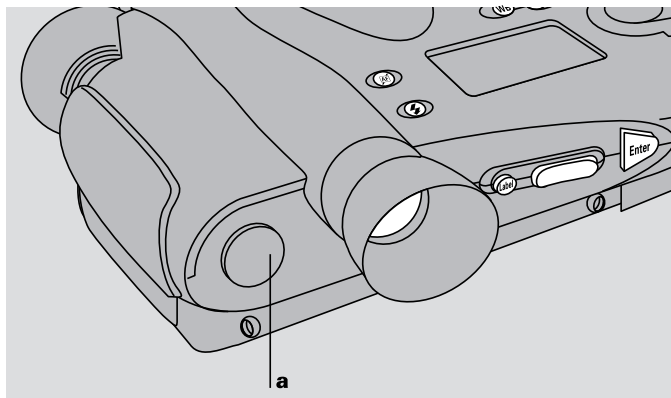
Operating the camera from the Macintosh

If the camera is connected to the computer, you can control the camera with the mouse and the keyboard, and you can display a “live” viewfinder image on your computer screen. This is useful if you use the camera in a stationary setting.

To take pictures using the computer:

- 1 Connect the camera to your computer. If necessary, see *Connecting the camera to your Macintosh* on page 17.

- 2 Turn on the camera by pressing the Power button (a).



- 3 Turn on the computer.
- 4 Start an image-processing application compatible with Photoshop plug-in modules or start Polaroid PDC-2000 Direct.
- 5 If you are using PDC-2000 Direct, skip to step 6.
If you are using an image-processing application, choose Acquire from the File menu, then choose PDC-2000.
- 6 If necessary, change the resolution (800x600 or 1600x1200) of the pictures transferred to the computer. (See *Changing the preferences* on page 77.)

- 7 If the Take Pictures window is not visible, display it by clicking on the Take Pictures button.



- 8 Click the View Finder button (or hold down the ⌘ key and press the V key) to display a viewfinder image in the Take Pictures window.
- 9 To change the orientation of the image in the viewfinder, choose Landscape or Portrait as appropriate. (You can also hold down the ⌘ key and press the R key to change between Landscape and Portrait.)
- 10 Select the Flash setting you want to use from the drop-down list. See *Using flash* on page 46 for more information.
- 11 Choose a Light setting that matches the lighting conditions in the current scene. See *Setting the camera for current lighting conditions* on page 43.
- 12 Select or deselect the Auto Focus option. See *Using Auto Focus* on page 48.
- 13 If necessary, select Backlight Compensation. See *Compensating for back lighting* on page 49.

14 When the picture is framed as desired, click the Snap button (or hold down the ⌘ key and press the S key) to capture the picture and transfer it to your image processing application or to a Preview window in PDC-2000 Direct.

Note: To snap the picture after a preset delay, click on the timer button (next to the Snap button) instead of the Snap button. Enter the desired time delay, then click Start Timer to begin the specified interval.

15 If you are using an image processing application, close the Take Pictures window (if it is still open) and follow instructions with your application to view, edit or save the picture.

If you are using PDC-2000 Direct, choose Save from the File menu.

Changing operating preferences

Available options

Using the PDC-2000 plug-in, you can set the following preferences. These preferences remain unchanged until you set them again.

User name The user name stored in the camera is attached to each picture. After a picture is taken, you can view the user name to help identify the photographer or the camera by using the Get Info button in the Transfer Pictures window. (See *Viewing picture information* on page 67.) Changing the user name affects only pictures taken after the changes are made. Pictures taken earlier and stored in the camera retain the user name in effect when they were taken.

Default picture label The default picture label is attached to each picture when it is taken. This label appears below each thumbnail image in the Transfer Pictures window to help identification. It is also visible in the camera's LCD panel. After taking a picture, you can change its label from the default to an individualized description by using the camera controls (see *Labeling pictures* on page 50) or by using the PDC-2000 plug-in software (see *Editing a picture label* on page 68). Changing the default picture label affects only pictures taken after the changes are made. Pictures taken earlier and stored in the camera retain the label in effect when they were taken. (The default picture label can also be changed with the camera controls as described in Chapter 3.)

Current date and time The camera's internal clock settings are attached to each picture to indicate the date and time the picture was taken. You can view the camera's current date and time settings in the camera LCD panel (see page 37). Changing the date or time affects only pictures taken after the changes are made. Pictures taken earlier and stored in the camera retain the settings in effect when they were taken.

Automatic shutoff timeouts The timeout settings determine how long the camera remains inactive before the viewfinder image on the computer and the main camera power automatically turn off to conserve battery power. The automatic shutoff for camera power does not operate when the camera is under computer control (displaying "connected" in the LCD panel) and connected to AC power.

Picture resolution The PDC-2000 can be set to transfer its internally stored pictures as either high resolution (800x600) or super-high resolution (1600x1200) images. The selected picture resolution option is applied to the pictures during transfer from the camera to the computer. It does not affect the way the pictures are taken or stored in the camera.

Camera sound indicators You can disable the camera's audible error signals. (See *Sound indicators* on page 40 for a description of these indicators.)

Expert preferences You can choose to transfer pictures from the camera to an image processing application or directly to a file on disk, to keep the PDC-2000 plug-in active or close it after each transfer operation, and to disable display of thumbnail images from the camera for faster plug-in launch.

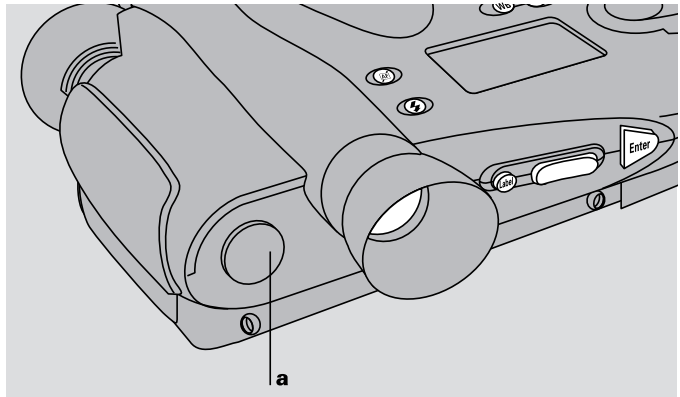
Changing the preferences To change any of the preference settings described above:



- 1 Connect the PDC-2000 camera to the computer as described on page 17.

WARNING: DO NOT CONNECT OR DISCONNECT THE PDC-2000 CAMERA OR ANY OTHER SCSI DEVICE WHILE THE DEVICE OR YOUR COMPUTER IS TURNED ON. DOING SO COULD DAMAGE THE DEVICE, YOUR COMPUTER, OR BOTH.

- 2 Turn on the camera by pressing the Power button (a).



- 3 Turn on the computer.
- 4 Start an image-processing application compatible with Photoshop plug-in modules or start Polaroid PDC-2000 Direct.
- 5 If you are using PDC-2000 Direct, skip to step 6.

If you are using an image-processing application, choose Acquire from the File menu, then choose PDC-2000.

- 6 If the Set Preferences window is not visible, click the Set Preferences button to display it.



- 7 Change one or more of the settings as needed:

Name or default picture label Click the Set button and type new entries. (Only upper case letters, numerals, hyphens and spaces can be used in the default picture label.)

Camera internal clock Click the Synchronize button to set the camera to the computer's date and time settings.

Automatic shutoff timeouts Click the appropriate scroll buttons to change the viewfinder timeout (range: 1-100 seconds) or the camera power-off timeout (range: 1-60 minutes).

Picture resolution Click on the desired resolution button (800x600 or 1600x1200).

Camera sound indicators Turn on or off by clicking on the Sound check box.

Expert preferences Set the following options:

Picture transfer method

Transfer pictures either to disk or to your image-processing application.

Note: An icon on the Transfer button in the Transfer Pictures window indicates the current setting. A disk icon indicates transfer to disk, and an application window icon indicates transfer to your image-processing application.

Plug-in behavior after transfer

Choose to close the plug-in and return to the image processing application after picture transfer or to leave the plug-in active.

Thumbnail display

Disable the option for loading thumbnail images from the camera to the Transfer Pictures window, allowing the plug-in to launch faster.

- 8 Return to the image-processing application or close PDC-2000 Direct by clicking the Close box in the upper left corner of the Set Preferences window.

Releasing the camera from computer control

You may wish to release the PDC-2000 camera from computer control so you can operate it via the controls on the camera and store pictures in the camera without disconnecting the camera from the computer.

Releasing the camera

To release the camera from computer control, use these steps:

- 1 Start an image-processing application compatible with Photoshop plug-in modules or start Polaroid PDC-2000 Direct.
- 2 If you are using PDC-2000 Direct, skip to step 3.
If you are using an image-processing application, choose Acquire from the File menu, then choose PDC-2000.
- 3 If the Set Preferences window is not visible, click the Set Preferences button to display it.
- 4 To release the camera from computer control, click the Release Camera button (or hold down the ⌘ key and press the R key).

A Release Camera dialog box appears.

- 5 If you expect to restore the camera to computer control soon, leave the dialog box open.

To return to the image-processing application or exit from PDC-2000 Direct, click on the Quit button.

- 6 After releasing the camera, refer to Chapter 3 for camera operating instructions.



WARNING: DO NOT TURN OFF THE CAMERA OR DISCONNECT IT FROM THE COMPUTER AFTER IT HAS BEEN RELEASED FROM COMPUTER CONTROL. DOING SO COULD DAMAGE YOUR COMPUTER OR CORRUPT DATA ON YOUR HARD DISK.

Restoring computer control

If you want to turn off the camera while its cable is connected to the computer, use the procedure recommended for any SCSI device: (1) turn off the computer, and (2) turn off the camera. To disconnect the camera from the computer, see *Disconnecting the camera from your computer* on page 29.

After releasing the camera from computer control as described above, you can place the camera back under computer control with these steps:

If the Release Camera dialog box is still visible

If you left the Release Camera window visible as described in the previous section, click on the Reconnect button to restore camera control to the computer.

If the Release Camera dialog box is not visible

If you returned to the image-processing application or closed PDC-2000 Direct after releasing the camera from computer control, use the following steps to restore camera control to the computer:

- 1 Start your image-processing application or PDC-2000 Direct.
- 2 If you are using PDC-2000 Direct, skip to step 3.

If you are using an image processing application, choose Acquire from the File menu, then choose PDC-2000.

- 3 If the Take Pictures window is not visible, click the Take Pictures button to display it and restore camera control to the computer.

5 Using the PDC-2000 with your PC

To transfer and work with pictures from the PDC-2000 camera on your PC, you use the PDC-2000 TWAIN driver or plug-in module with an image-processing application, such as Adobe Photoshop. If you do not have an application compatible with TWAIN or plug-in modules, you can still work with the camera via your PC by installing PDC-2000 Direct. (See Chapter 2 for software installation information.)

With the PDC-2000 camera connected to your computer and the PDC-2000 TWAIN driver, the plug-in or PDC-2000 Direct software installed, you can perform the following:

View the pictures stored in the camera You can quickly view all the pictures in the camera by displaying miniature representations of them (called thumbnails) in a single window.

Transfer multiple pictures You can use the thumbnail views to choose and transfer pictures from the camera to your computer.

Operate the camera through the computer You can take pictures by using your computer keyboard or mouse, while using the computer screen as a viewfinder. This is particularly convenient for studios and other stationary setups.

Change camera setup You must use the PDC-2000 software to change the PDC-2000 camera's internal date, time, user name and other settings.

The PDC-2000 windows

When you start PDC-2000 software (TWAIN driver, plug-in or PDC-2000 Direct), three different windows are available:

Transfer Pictures window The Transfer Pictures window displays thumbnail representations of the pictures in the camera.



From the Transfer Pictures window, you can:

- Transfer selected pictures from the camera to the computer.

- Rotate pictures in 90-degree increments.
- Edit picture labels.
- View picture information, including date, time, user name, and camera settings in effect when the picture was taken.
- Delete selected pictures from the camera.

Take Pictures window The Take Pictures window lets you control the camera through the computer while taking pictures.



With the Take Pictures window you can:

- Display a viewfinder image on your computer screen for framing pictures.
- Change the viewfinder orientation from landscape to portrait or vice versa.
- Change the camera settings for flash, lighting conditions, automatic focus and backlight compensation just as you would with the controls on the camera.
- Take a picture and immediately transfer it to the computer.

Set Preferences window The Set Preferences window lets you change the camera's internally stored settings and the way pictures are transferred to the computer.



From the Set Preferences window, you can:

- Change the user name recorded with each picture.
- Change the default picture label.
- Change the camera's internal clock settings to match the computer's time and date settings.
- Change the camera's automatic shutoff settings.
- Select the resolution of pictures transferred from the camera to the computer.
- Turn the camera sound indicators off and on.
- Release the camera from computer control (for taking pictures using the camera's controls while the camera is connected to the computer).
- Set "Expert" preferences for transferring pictures to an image processing application or directly to files on you computer's hard disk.

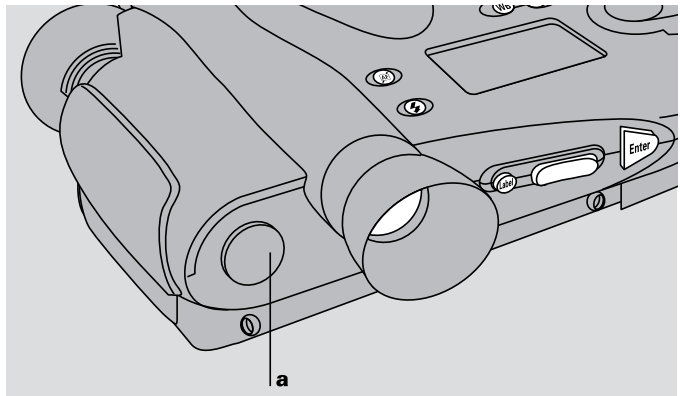
Working with pictures in the camera

Using the PDC-2000 software (TWAIN driver, plug-in or PDC-2000 Direct), you can look at thumbnails (small representations) of pictures stored in the camera without transferring them to the computer. While viewing the thumbnails on your computer screen, you can rotate pictures, transfer pictures to the computer, or delete pictures from the camera.

Viewing pictures in the camera

To display thumbnail images of the pictures stored in the camera:

- 1 Connect the camera to your computer. If necessary, see *Connecting the camera to your PC* on page 23.
- 2 Turn on the camera by pressing the Power button (a).



- 3 Turn on your computer.
- 4 Start your TWAIN compliant or plug-in compatible application, or start PDC-2000 Direct.

- 5 If you are using PDC-2000 Direct, wait for the Transfer Pictures window to appear.



If you are not using PDC-2000 Direct, use one of the methods below to display the Transfer Pictures window:

- If you are using Adobe Photoshop and the TWAIN driver, pull down the File menu and choose Select TWAIN and PDC-2000. Click on OK. Pull down the File menu again and choose Acquire TWAIN.
- If you are using a TWAIN compliant application other than Adobe Photoshop, refer to the application's instructions for acquiring images.
- If you are using a plug-in compatible application, pull down the File menu, choose Acquire, and choose PDC-2000.

Note: If no pictures are stored in the camera, the Take Pictures window appears instead of the Transfer Pictures window.

If all the thumbnails do not fit in the window, use the vertical scroll bar to view additional thumbnails.

Selecting thumbnails

Before you can perform operations (rotate, delete, etc.) on the pictures represented by the thumbnails in the Transfer Pictures window, you must select one or more of the thumbnails.

To select a single thumbnail, click on it once or press the arrow keys to move to the thumbnail you want to select. A color border appears around the thumbnail. (If all thumbnails are displayed in the window, click on the vertical scroll bar to see more.)

To select several thumbnails, press and hold the Control key and then click the thumbnails. To select all the thumbnails, click the Select All button.

To deselect a thumbnail, press and hold the Control key and click the thumbnail. To deselect all thumbnails, hold the Control key and click the Select All button.

Previewing pictures with PDC-2000 Direct

If you are using PDC-2000 Direct, you can enlarge any thumbnail to a 400x300-pixel preview image for closer viewing.

To view a preview image, click on the desired thumbnail with the **right** mouse button to display a pop-up menu. Then choose Preview from the menu.

While viewing the preview image, you can save the picture to your computer's hard disk by choosing Save As from the File menu.

To close the preview image, double click on the Command box in the upper left corner of the Preview window or choose Close from the File menu.

Viewing picture information

When the Transfer Pictures window is open, you can display the following information about any picture represented in the window:

- Picture label
- User name

- Date and time picture was taken
- Focus distance
- Camera settings when picture was taken (light source, flash, auto focus, backlight compensation)

To view this information for any picture, click on the desired thumbnail with the **right** mouse button to display a pop-up menu. Then choose Get Info from the menu.

Rotating pictures

You can rotate pictures in 90-degree increments to change their orientation from landscape to portrait or vice versa. The rotation will not be saved unless you transfer the pictures to the computer.

To rotate one or more pictures:

- 1 View the pictures in the camera as described on page 87.
- 2 Select one or more pictures to be rotated. (See *Selecting thumbnails* on page 89.)
- 3 Rotate the selected pictures 90 degrees by clicking the Rotate button. (To rotate the pictures further, continue to click the Rotate button.)

Editing a picture label

If you wish, you can edit a picture label in the Transfer Pictures window.

To edit a label, click on the desired thumbnail with the **right** mouse button to display a pop-up menu. Then choose Edit Label to display an Edit Label dialog box. Type a new label for the picture and choose OK.

Note: Unlike individual labels created with the camera controls as described in *Editing a single picture's label* on page 53, labels edited with the computer are not saved in the camera. They remain visible only while you are viewing the Transfer Pictures window.

Transferring pictures from the camera to the computer

While viewing pictures stored in the camera, you can choose those you want to keep and then transfer them to the computer.

If you are using Adobe Photoshop or another TWAIN or plug-in compatible image processing application, you can transfer them either to the application or directly to your computer's hard disk. (You choose the method of transfer through the Set Preferences window. See *Changing the preferences* on page 99.) If you are using PDC-2000 Direct, you can only transfer the pictures directly to your hard disk.

When you transfer the pictures from the camera to an image-processing application, you must save each one using the Save As command in the application. Most image-processing applications allow you to choose a file format for the pictures you are saving. (A file format is a way of organizing the image data so the computer can display and work with it.) See instructions with your image-processing application for a description of formats available to you.

If you prefer to transfer the pictures from the camera directly to your computer's hard disk, they are saved as TIFF files in the directory of your choice.

Transferring pictures to an application

Use the following steps to transfer one or more pictures to the computer through your image-processing application. (If you are using PDC-2000 Direct, you must transfer your pictures directly to disk as described above.)

Note: If necessary, disable the option that transfers pictures directly to disk or change the resolution (800x600 or 1600x1200) of the pictures being transferred before starting this procedure. (See *Changing the preferences* on page 99.)

Tip: If the Transfer button displays a diskette, the Expert Preferences are set to transfer directly to disk and must be changed before starting.

- 1 View the pictures in the camera as described on page 87.
- 2 Select one or more pictures to be transferred. (See *Selecting thumbnails* on page 89.)
- 3 Click the Transfer button.

Each selected picture appears in your image-processing application.

Note: When you transfer several pictures, your image-processing application may display them on top of one another. To view the different image windows, drag each one slightly to tile them.

- 4 Save a picture as follows:
 - a. In the image-processing application, click on a picture to make its window active.
 - b. Choose Save As from the application's File menu.
 - c. Follow the instructions with your image-processing application to save the picture in the desired format and in the desired directory on your hard disk.
- 5 Repeat step 4 as needed to save all the transferred pictures.

Note: Some applications may not allow you to transfer all the pictures at once with this method. If some of the pictures do not transfer from the camera to the application, repeat steps 1 through 6 as needed to transfer additional pictures.

Transferring pictures directly to disk

Use the steps below to transfer one or more pictures directly from the camera to the computer's hard disk without passing through your image-processing application.

Note: If necessary, enable the option that transfers pictures directly to disk or change the resolution (800x600 or 1600x1200) of the pictures being transferred before starting this procedure. (See *Changing the preferences* on page 99.)

Tip: If the Transfer button displays a diskette, the Expert Preferences are set to transfer directly to disk and do not need to be changed before starting.

- 1 View the pictures in the camera as described on page 87.
- 2 Select one or more pictures to be transferred. (See *Selecting thumbnails* on page 89.)
- 3 Click the Transfer button.
- 4 Select a directory to receive the pictures.
- 5 If you want, change the first six characters of the file names given to the stored pictures. (If you do not change the characters, the file names will contain the first six characters of the label on the first picture being transferred. A two-digit numeral will be appended to the six characters, producing a unique, eight-character name for each file.)
- 6 Click OK to transfer the pictures.

Deleting pictures from the camera

Use the following procedure to delete one or more pictures from the camera.

If you want to keep any of the pictures you are about to delete, be sure transfer them to the computer as described in the previous section **before** you delete them from the camera.

- 1 View the pictures in the camera as described on page 87.
- 2 Select one or more pictures to be deleted. (See *Selecting thumbnails* on page 89.)
- 3 Click the Delete button to display a confirmation message.
- 4 To delete the pictures from the camera, click OK.

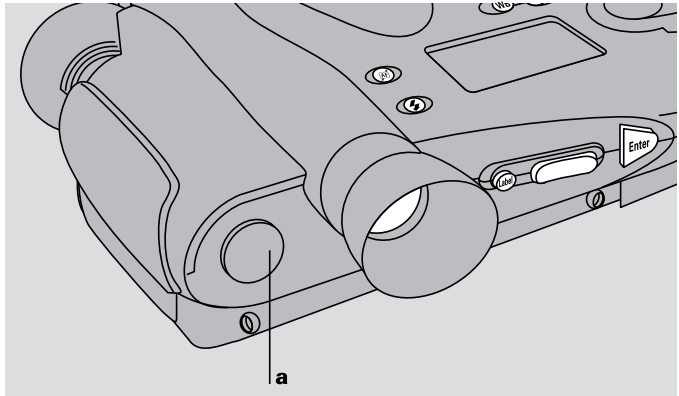
Note: If you are not deleting all the pictures from the camera, those remaining will be renumbered. For example, you may decide to delete all pictures except 4 and 23. In this case, picture 4 becomes picture 1, and picture 23 becomes picture 2.

Operating the camera from the PC

If the camera is connected to the computer, you can use the PDC-2000 software to control the camera with the mouse and the keyboard, and you can display a “live” viewfinder image on your computer screen. This is useful if you use the camera in a studio or other stationary setting.

To take pictures using the computer:

- 1 Connect the camera to your computer. If necessary, see *Connecting the camera to your PC* on page 23.
- 2 Turn on the camera by pressing the Power button (a).



- 3 Turn on your computer.
- 4 Start your TWAIN compliant or plug-in compatible application, or start PDC-2000 Direct.

- 5 If you are using PDC-2000 Direct, wait for the Transfer Pictures window to appear.



If you are not using PDC-2000 Direct, use one of the methods below to display the Transfer Pictures window:

- If you are using Adobe Photoshop and the TWAIN driver, pull down the File menu and choose Select TWAIN and PDC-2000. Click on OK. Pull down the File menu again and choose Acquire TWAIN.
- If you are using a TWAIN compliant application other than Adobe Photoshop, refer to the application's instructions for acquiring images.
- If you are using a plug-in compatible application, pull down the File menu, choose Acquire, and choose PDC-2000.

Note: If no pictures are stored in the camera, the Take Pictures window appears instead of the Transfer Pictures window.

- 6 If necessary, change the resolution at which the pictures will be transferred (600x800 or 1200x1600) through the Set Preferences window. (See *Changing the preferences* on page 99.)

- 7 Click the Take Pictures button to display the Take Pictures window.



- 8 Click the View Finder button to display a viewfinder image in the Take Pictures window.
- 9 To change the orientation of the image in the viewfinder, choose Landscape or Portrait as appropriate.
- 10 Select the Flash setting you want to use from the drop-down list. See *Using flash* on page 46 for more information.
- 11 Choose a Light setting that matches the lighting conditions in the current scene. See *Setting the camera for current lighting conditions* on page 43.
- 12 Select or deselect the Auto Focus option. See *Using Auto Focus* on page 48.
- 13 If necessary, select Backlight Compensation. See *Compensating for back lighting* on page 49.

14 When the picture is framed as desired, click the Snap button to capture the picture and transfer it to your image processing application or to a Preview window in PDC-2000 Direct.

Note: To snap the picture after a preset delay, click on the timer button (next to the Snap button) instead of the Snap button. Enter the desired time delay, then click Start Timer to begin the specified interval.

15 If you are using an image-processing application, follow instructions with your application to view, edit or save the picture.

If you are using PDC-2000 Direct, choose Save As from the File menu.

Changing operating preferences

Available options

Using the PDC-2000 software (TWAIN driver, plug-in or PDC-2000 Direct) on your computer, you can set the following camera preferences. These preferences remain unchanged until you set them again.

User name The user name stored in the camera is attached to each picture. After a picture is taken, you can view the user name to help identify the camera or photographer by using the Get Info selection on the pop-up menu. (See *Viewing picture information* on page 89.) Changing the user name affects only pictures taken after the changes are made. Pictures taken earlier and stored in the camera retain the user name in effect when they were taken.

Default picture label The default picture label is attached to each picture when it is taken. This label appears below each thumbnail image in the Transfer Pictures window to help identification. It is also visible in the camera's LCD panel. After taking a picture, you can change its label from the default to an individualized description by using the camera controls (see *Labeling pictures* on page 50) or by using the PDC-2000 software (see *Editing a picture label* on page 90). Changing the default picture label affects only pictures taken after the changes are made. Pictures taken earlier and stored in the camera retain the label in effect when they were taken. (The default picture label can also be changed with the camera controls as described in Chapter 3.)

Current date and time The camera's internal clock settings are attached to each picture to indicate the date and time the picture was taken. you can view the camera's date and time setting on the camera LCD panel (see page 37). Changing the date or time affects only pictures taken after the changes are made. Pictures taken earlier and stored in the camera retain the settings in effect when they were taken.

Automatic shutoff timeouts The timeout settings determine how long the camera remains inactive before the viewfinder image on the computer and the main camera power automatically turn off to conserve battery power. The automatic shutoff for camera power does not operate when the camera is under computer control (displaying "connected" in the LCD panel) and connected to AC power.

Picture resolution The PDC-2000 can be set to transfer its internally stored pictures as either high resolution (800x600) or super-high resolution (1600x1200) pictures. The selected picture resolution option is applied to the pictures during transfer from the camera to the computer. It does not affect the way the pictures are taken or stored in the camera.

Camera sound indicators You can disable the camera's audible error signals. (See *Sound indicators* on page 40 for a description of these indicators.)

Expert preferences You can choose to transfer pictures from the camera to an image processing application or directly to a file on disk.

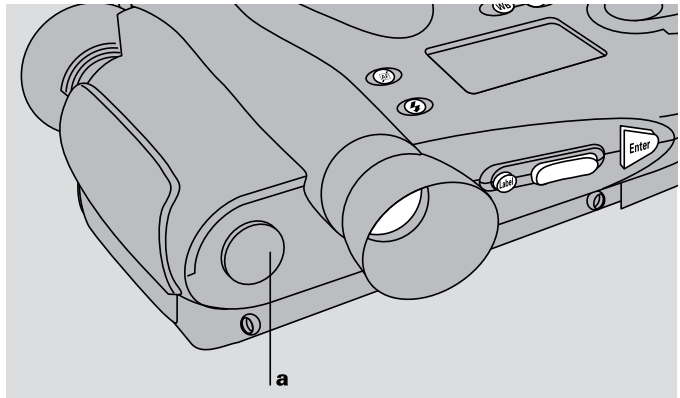
Changing the preferences To change any of the preference settings described above:

- 1 Connect the PDC-2000 camera to the computer as described on page 23.



WARNING: DO NOT CONNECT OR DISCONNECT THE PDC-2000 CAMERA OR ANY OTHER SCSI DEVICE WHILE THE DEVICE OR YOUR COMPUTER IS TURNED ON. DOING SO COULD DAMAGE THE DEVICE, YOUR COMPUTER, OR BOTH.

- 2 Turn on the camera by pressing the Power button (a).



- 3 Turn on your computer.
- 4 Start your TWAIN compliant or plug-in compatible application, or start PDC-2000 Direct.
- 5 If you are using PDC-2000 Direct, wait for the Transfer Pictures window to appear.



If you are not using PDC-2000 Direct, use one of the methods below to display the Transfer Pictures window:

- If you are using Adobe Photoshop and the TWAIN driver, pull down the File menu and choose Select TWAIN and PDC-2000. Click on OK. Pull down the File menu again and choose Acquire TWAIN.
- If you are using a TWAIN compliant application other than Adobe Photoshop, refer to the application's instructions for acquiring images.
- If you are using a plug-in compatible application, pull down the File menu, choose Acquire, and choose PDC-2000.

Note: If no pictures are stored in the camera, the Take Pictures window appears instead of the Transfer Pictures window.

- 6 Click the Set Preferences button to display the Set Preferences window.



- 7 Change one or more of the settings as needed:

Name or default picture label Click the Set button and type new entries. (Only upper case letters, numerals, hyphens and spaces can be used in the default picture label.)

Camera internal clock Click the Synchronize button to set the camera to the computer's date and time settings.

Automatic shutoff timeouts Click the appropriate scroll buttons to change the viewfinder timeout (range: 1-100 seconds) or the camera power-off timeout (range: 1-60 minutes).

Picture resolution Click on the desired resolution button (800x600 or 1600x1200).

Camera sound indicators Turn on or off by clicking on the Sound check box.

Expert preferences Choose the Expert Preferences button and choose to transfer pictures to your image processing application or directly to disk. (An icon on the Transfer button in the Transfer Pictures window indicates the current Expert preferences setting. A disk icon indicates transfer to disk, and an application window icon indicates transfer to your image-processing application.)

- 8 Return to the image-processing application by double-clicking on the Control menu box in the upper left corner of the window.

Releasing the camera from computer control

You may wish to release the PDC-2000 camera from computer control so you can operate it via the controls on the camera and store pictures in the camera without disconnecting the camera from the computer.

Releasing the camera

You can release the camera from computer control as follows:

- 1 Start your TWAIN compliant or plug-in compatible application, or start PDC-2000 Direct.
- 2 If you are using PDC-2000 Direct, wait for the Transfer Pictures window to appear.

If you are not using PDC-2000 Direct, use one of the methods below to display the Transfer Pictures window:

- If you are using Adobe Photoshop and the TWAIN driver, pull down the File menu and choose Select TWAIN and PDC-2000. Click on OK. Pull down the File menu again and choose Acquire TWAIN.
- If you are using a TWAIN compliant application other than Adobe Photoshop, refer to the application's instructions for acquiring images.

- If you are using a plug-in compatible application, pull down the File menu, choose Acquire, and choose PDC-2000.

Note: If no pictures are stored in the camera, the Take Pictures window appears instead of the Transfer Pictures window.

- 3 Click the Set Preferences button to display the Set Preferences window.
- 4 Click the Release Camera button, then click Yes to release the camera and return to the image-processing application or exit from PDC-2000 Direct.

After releasing the camera, refer to Chapter 3 for camera operating instructions.



WARNING: DO NOT TURN OFF THE CAMERA OR DISCONNECT IT FROM THE COMPUTER AFTER IT HAS BEEN RELEASED FROM COMPUTER CONTROL. DOING SO COULD DAMAGE YOUR COMPUTER OR CORRUPT DATA ON YOUR HARD DISK.

If you want to turn off the camera while its cable is connected to the computer, use the procedure recommended for any SCSI device: (1) turn off the computer, and (2) turn off the camera. To disconnect the camera from the computer, see *Disconnecting the camera from your computer* on page 29.

Restoring computer control

After releasing the camera from computer control as described above, you can place the camera back under computer control at any time with these steps:

- 1 Start your TWAIN compliant or plug-in compatible application, or start PDC-2000 Direct.
- 2 If you are using PDC-2000 Direct, wait for the Transfer Pictures window to appear.

If you are not using PDC-2000 Direct, use one of the methods below to display the Transfer Pictures window:

- If you are using Adobe Photoshop and the TWAIN driver, pull down the File menu and choose Select TWAIN and PDC-2000. Click on OK. Pull down the File menu again and choose Acquire TWAIN.
- If you are using a TWAIN compliant application other than Adobe Photoshop, refer to the application's instructions for acquiring images.
- If you are using a plug-in compatible application, pull down the File menu, choose Acquire, and choose PDC-2000.

Note: If no pictures are stored in the camera, the Take Pictures window appears instead of the Transfer Pictures window.

- 3 Click the Take Pictures button to display the Take Pictures window.

6 Maintenance and troubleshooting

Caring for the camera batteries

The four NiCad “AA” rechargeable batteries provided with the PDC-2000 camera have enough power for taking 40 pictures under normal conditions. The battery level indicator on the PDC-2000 camera’s LCD panel indicates full (■), low (□) and other levels between them. Recharge the batteries whenever the indicator shows low battery level.

Note: Conserve battery power by turning the camera off when it is not in use.



WARNING: DO NOT TURN OFF THE CAMERA OR ANY OTHER SCSI DEVICE WHILE IT IS CONNECTED TO YOUR COMPUTER IF THE COMPUTER IS ON. DOING SO COULD DAMAGE THE COMPUTER OR CORRUPT DATA ON YOUR HARD DISK.

The batteries can be recharged at any time, but NiCad batteries perform best when you allow them to discharge almost completely before recharging. Repeatedly recharging partially charged batteries causes them to lose their capacity.

(Use of a battery conditioner/charger, available at many electronics and video equipment stores, is recommended because it discharges the batteries completely before starting the charge cycle. The power adapter/trickle charger provided with the PDC-2000 does **not** discharge the batteries before charging them.)

You may wish to purchase additional "AA" NiCad batteries for use with the PDC-2000 camera. With extra batteries, you can use one set while charging another. (See *Charging the batteries outside the camera* on page 108.) NiCad "AA" batteries of the types recommended in the following section are usually available at electronics and department stores.

Recommended battery types

Polaroid recommends the following battery types for use with the PDC-2000:

Eveready type CH15 AA 1.2v, 650mAh

Panasonic type KR-15/51 AA 1.2v 500mAh

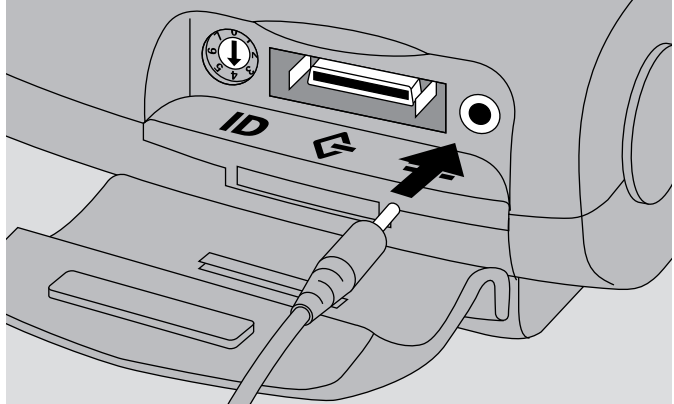
Sanyo type N-600AA 1.2v 600mAh



WARNING: USE ONLY THE BATTERIES PROVIDED OR THE "AA" NICAD RECHARGEABLE BATTERY TYPES LISTED ABOVE. OTHER TYPES, SUCH AS ALKALINE OR LITHIUM "AA" BATTERIES, WILL NOT OPERATE THE CAMERA, AND MAY CAUSE INJURY OR DAMAGE THE CAMERA IF YOU ATTEMPT TO CHARGE THEM AS DESCRIBED BELOW.

Charging the batteries in the camera

To charge the batteries while they are in the camera, connect the power adapter/trickle charger to the camera and to AC power.



Charge the batteries completely by leaving the charger connected to the camera for about 6 hours (12 hours for new batteries). You can use the camera while the batteries are charging.



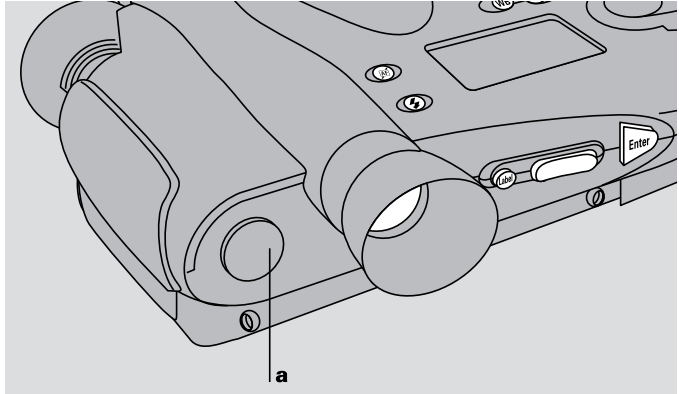
WARNING: USE ONLY THE POWER ADAPTER/TRICKLE CHARGER PROVIDED FOR CHARGING THE BATTERIES WHILE THEY ARE IN THE CAMERA. OTHER AC ADAPTERS AND CHARGERS SIMILAR IN APPEARANCE ARE AVAILABLE, BUT THEY CAN OVERHEAT THE BATTERIES AND CAUSE INJURY OR CAMERA DAMAGE.

Charging the batteries
outside the camera

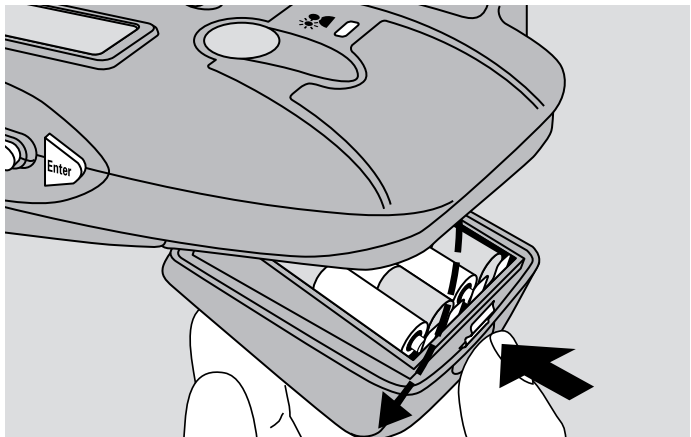
If you wish to charge the batteries outside the camera, use the optional 110-volt 5-hour battery charger or another charger designed for NiCad "AA" batteries.

Recharge the batteries as follows:

- 1 Turn off the camera by pressing the power button (a).



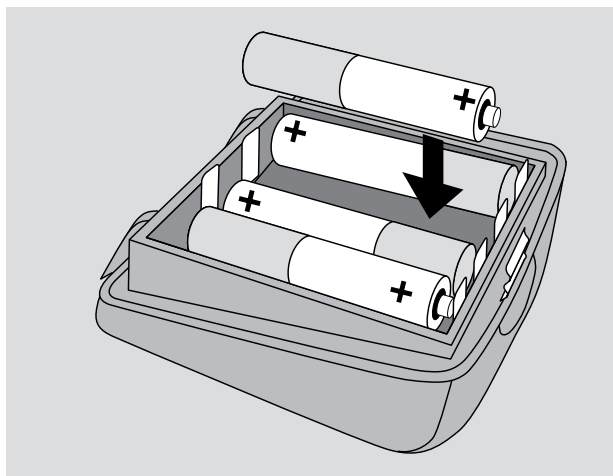
- 2 Unlatch and remove the PDC-2000 battery holder from the camera.



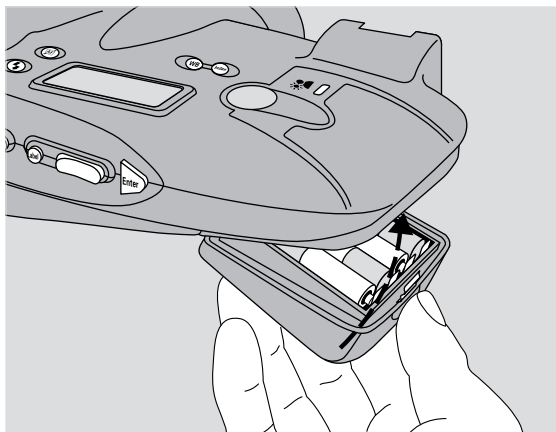
- 3 Remove the four batteries from the holder.
- 4 Charge the batteries according to the instructions for the charger you are using.

Note: The camera is **not** operable while the batteries are removed, even if the power adapter/trickle charger is connected. Furthermore, you may need to reset the camera's date, time, default picture label and automatic shutoff settings if the batteries are removed from the camera for more than 30 minutes. For these reasons, you may want to purchase additional "AA" NiCad batteries for use while others are charging. (See *Recommended battery types* on page 106.)

- 5 After the batteries have been charged, reinsert them into the battery holder. Be sure to observe the battery orientation label. (Install the two outside batteries first, then install the two inside batteries.)



- 6 Insert the battery holder in the camera and close it, making sure it latches.



- 7 Turn on the camera to verify that the batteries have been installed correctly.

Replacing the camera batteries

The NiCad batteries provided with the PDC-2000 are capable of being recharged hundreds of times, but they may eventually wear out. Replace the batteries when they require abnormally frequent recharging. NiCad “AA” batteries of the types recommended on page 106 are usually available at electronics and department stores.



WARNING: USE ONLY THE BATTERIES RECOMMENDED ON PAGE 106. OTHER TYPES, SUCH AS ALKALINE OR LITHIUM “AA” BATTERIES, WILL NOT OPERATE THE CAMERA, AND MAY CAUSE INJURY OR DAMAGE THE CAMERA IF YOU ATTEMPT TO CHARGE THEM AS DESCRIBED ABOVE.

Troubleshooting error messages

When necessary, the PDC-2000 camera displays error messages on the LCD panel to inform you about operating or hardware problems. The list below recommends specific action for each error message.

Error messages not listed below may also appear on the LCD panel. If an unlisted message appears, turn the camera off briefly, then turn it back on. If the message reappears, contact Polaroid Technical Assistance (see page 115).



WARNING: WHEN THE INSTRUCTIONS BELOW DIRECT YOU TO TURN THE CAMERA OFF AND BACK ON, TURN OFF THE COMPUTER BEFORE DOING SO (IF THE CAMERA IS CONNECTED TO YOUR COMPUTER). FAILURE TO TURN OFF THE COMPUTER COULD CORRUPT DATA ON YOUR HARD DISK, DAMAGE THE CAMERA, OR DAMAGE THE COMPUTER.

charging The camera is not ready to take flash pictures because the electronic flash is still charging. Wait until the yellow indicator in the viewfinder goes out before trying again.

disk full The camera has reached its storage capacity. Transfer the pictures to your computer (page 69 for Macintosh and page 91 for PC), and erase the pictures from the camera (page 71 for Macintosh and page 93 for PC).

error 01h The camera detected a problem with its picture storage hardware. Turn the camera off briefly, then turn it back on. If the message reappears, contact Polaroid Technical Assistance (see page 115). When this condition exists, you can still take pictures by operating the camera under computer control (page 72 for Macintosh and page 94 for PC) but you will not be able to store additional pictures in the camera or transfer pictures previously stored in the camera.

error 02h The camera detected a problem with the LCD panel. Turn the camera off briefly, then turn it back on. If the message reappears, contact Polaroid Technical Assistance (see page 115). When this condition exists, the camera will continue to operate normally except for the LCD panel.

error 04h The camera detected a problem with the hardware storing the current date and time and other data. Turn the camera off briefly, then turn it back on. If the message reappears, contact Polaroid Technical Assistance (see page 115). Under this condition, the camera will continue to operate normally, but the time and date displayed and stored with pictures may be incorrect. In addition, time-related features (automatic shutoff, for example) may not operate normally.

error 08h Stored data for optimizing image quality may have become corrupted. Turn the camera off briefly, then turn it back on. If the message reappears, contact Polaroid Technical Assistance (see page 115). Under this condition, the camera will continue to operate normally. Picture quality, however, may be reduced and the stored user name and camera serial number may become corrupted.

error 10h Stored data for the camera's light sensor may have become corrupted. Turn the camera off briefly, then turn it back on. If the message reappears, contact Polaroid Technical Assistance (see page 115). Under this condition, the camera will continue to operate normally, but the pictures may contain small dots or lines.

error 20h Stored data for optimizing picture exposure may have become corrupted. Turn the camera off briefly, then turn it back on. If the message reappears, contact Polaroid Technical Assistance (see page 115). Under this condition, the camera will continue to operate normally, but picture quality may be reduced.

error 40h The camera detected an internal communication error. Turn the camera off briefly, then turn it back on. If the message reappears, contact Polaroid Technical Assistance (see

page 115). Under this condition, you will still be able to transfer pictures stored in the camera to your computer, but you will not be able to take additional pictures.

error 80h The camera detected an image processing error. Turn the camera off briefly, then turn it back on. If the message reappears, contact Polaroid Technical Assistance (see page 115). Under this condition, you will still be able to transfer pictures stored in the camera to your computer, but you will not be able to take additional pictures.

low batt The camera batteries require charging. See *Caring for the camera batteries* on page 105.

low light The camera senses insufficient light for taking pictures without flash. Set the electronic flash to On or to Auto (see *Using flash* on page 46) before taking the picture.

no term Invalid buttons have been held down during camera power-up. Press the Erase button to clear the message.

stuck btn One of the camera control buttons is being held down. Make sure all buttons are released and continue. If the problem persists, turn the camera off briefly, then turn it back on. If this does not solve the problem, contact Polaroid Technical Assistance (see page 115).

term Invalid buttons have been held down during camera power-up. Press the Erase button to clear the message.

PDC-2000 full one-year warranty

Polaroid Corporation warrants the PDC-2000 camera, excluding the batteries, against defects in manufacture or workmanship for a period of one year from the date of purchase. To verify the warranty period, you should keep the invoice, sales receipt, or other proof of the purchase date.

Should this product or any component or accessory included with it, except software or batteries, prove to be defective at any time during the warranty period, Polaroid Corporation will, at its discretion, either replace or repair this item, without charge. Please refer to the Software Warranties under Software License Agreements (page 123) for the PDC-2000 software warranty.

This warranty does not cover damage caused by accident, incorrect installation, unauthorized modification, and misuse of abuse. A charge will be made for repair of such damage.

This warranty excludes all consequential damages.

Some states do not allow the exclusion or limitation of consequential damages, so the foregoing exclusion may not apply to you.

Service

U.S.A. and Canada

If your PDC-2000 camera requires service, call Polaroid Technical Assistance toll-free from within the U.S.A. at **1-800-432-5355**, Monday through Friday, 8 a.m. to 8 p.m., (Eastern Time). From Canada, call toll-free at **1-800-268-6970**.

To return the camera for service, pack it carefully in its original shipping carton or other sturdy container, with plenty of padding. Shipping instructions are available from Polaroid Technical Assistance specialists at the telephone numbers above.

Outside U.S.A.
and Canada

Please contact your nearest Polaroid office or service center (see pages 116-18).

Polaroid Offices and Service Centers

Australia
Polaroid Australia Pty. Ltd.
13-15 Lyonpark Road
P.O. Box 163
North Ryde, N.S.W. 2113
Tel: (02) 950 7000
Fax: (02) 887-2209

Belgique/België
Polaroid (Belgium) S.A.-N.V.
Rue Colonel Bourg 111
Kolonel Bourgstraat 111
1140 Bruxelles-1140 Brussel
Tel: +32 2 726 97 00
Fax: +32 2 726 92 99
Toll free line: 32 2 78 155 905

Brasil
Polaroid do Brasil Ltda.
Av. Paulista, 1776-11º andar
Cerqueira Cesar
São Paulo-Capital
Brasil, 01310-921
Tel: 55.11.285.6411
Fax: 55.11.283.2625
288.6521
287.5393

Canada
Polaroid Canada, Inc.
350 Carlingview Drive
Rexdale, Ontario M9W 5G6
Toll free: 1-800-268-6970

Danmark
Polaroid a.s.
Blokken 75
Postboks 9
3460 Birkerød
Tlf: 42 81 75 00
FAX: 42 81 70 26

Deutschland
Polaroid GmbH
Sprendlinger Landstrasse 109
63069 Offenbach
Tel: 069 8404 444
069 8404 999

España
Polaroid (España) S.A.
Paseo de la Castellana, 130-Plta.
28046-Madrid
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Radio and television interference

FCC Notice (U.S.A.)

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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 to an outlet on a circuit different from the one to which the receiver is connected.
- Consult the dealer or an experienced radio/television technician for help.

EMI Notice (Canada)

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

LE PRESENT APPAREIL NUMERIQUE N'EMET PAS DE BRUITS RADIOELECTRIQUES DEPASSANT LES LIMITES APPLICABLES AUX APPAREILS NUMERIQUES DE CLASS B PRESCRITES DANS LE REGLEMENT SUR LE BROUILLAGE RADIOELECTRIQUE EDICTE PAR LE MINISTERE DES COMMUNICATIONS DU CANADA.

EMC Statement (Europe)

Polaroid Corporation certifies that this product conforms to the following standards:

Safety

Low Voltage Directive 73/23/EEC

IEC 950/EN60950

EMC:

89/336/EEC EMC Directive

EN 55022, Class B

EN 50082-1

IEC 801-2

IEC 801-3

IEC 801-4

Use only a harmonized detachable cordset that has conductors with a cross sectional area equal to or greater than 1.0mm. This cord shall be rated for 220-240VAC, 10 Amperes. It should be approved by a European agency such as VDE, SEMKO, ASTA or VTE.

PDC-2000 camera specifications

Camera type	Handheld point-and-shoot digital camera	
Models	<ul style="list-style-type: none">• PDC-2000/40• PDC-2000/60• PDC-2000/T	
Sensor resolution	Polaroid 1 million pixel CCD	
Output resolution	High resolution:	800x600 pixels, 24-bit color (16.7 million colors), 1.4MB file
	Super high resolution:	1600x1200 pixels, 24-bit color (16.7 million colors), 5.6MB file
Picture storage capacity	PDC-2000/40:	40 pictures
	PDC-2000/60:	60 pictures
	PDC-2000/T:	No internal picture storage
Computer interface	SCSI-2	
Standard lens	11mm (38mm equivalent) f/2.8 glass	
Optional lens	17mm (60mm equivalent) f/2.8 glass	
Focus range	Standard lens:	10 inches (26cm) to infinity
	Optional lens:	24 inches (61cm) to infinity

ISO rating	100 (film speed equivalent)
Shutter	Scanning aperture, microprocessor-controlled
Shutter speed	1/25 to 1/500 second
Aperture	f/2.8 to f/11
Electronic flash	Internal, 15-foot (4.6m) maximum range
Recycle time (minimum time between shots)	12 seconds with flash 7 seconds without flash
Power supply	Four rechargeable "AA" NiCad batteries IEC universal power adapter/trickle charger
Power adapter/ trickle charger	Input: 100-240VAC, 380mA, 50-60 Hz (surge protected) Output: +6.0VDC, 500mA
Dimensions	Length: 7.9 inches (20.1cm) Width: 6.3 inches (16.0cm) Height: 2.2 inches (5.6cm)
Weight with batteries	2.0 pounds (0.9kg)
Operating environment	Temperature: 32° to 120°F (0° to 48°C) Relative humidity: 5% to 90%, no condensation

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