

Nikon

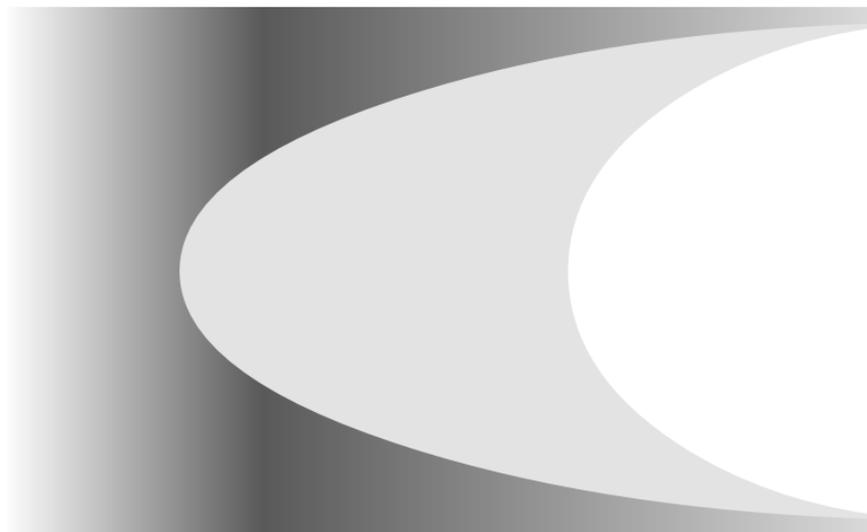
En

The **Nikon** Guide to Digital Photography
with the

COOLPIX2000

DIGITAL CAMERA

COOLPIX2000(En)



CE

Shoot, View, and Enjoy

A Flowchart Guide to Using Your Camera

STEP 1—Ready the camera

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...and delete unwanted pictures...

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Get to know Nikon View 5	▶ <i>Nikon View 5 Reference Manual</i> (provided on CD)	—

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Product Documentation

The documentation for this product includes the manuals listed below. Please be sure to read all instructions thoroughly to get the most from your camera.

Quick-Start Guide

The *Quick-Start Guide* takes you through the process of unpacking and setting up your Nikon digital camera, taking your first pictures, installing software, and transferring pictures to your computer.

Guide to Digital Photography

The *Guide to Digital Photography* (this manual) provides complete operating instructions for your camera.

Nikon View 5 Reference Manual

The *Nikon View 5 Reference Manual* can be found in electronic format on the reference CD provided with your camera. For information on viewing the *Reference Manual*, see "Connections" in this manual.

Overview



Getting to Know the COOLPIX 2000



First Steps



Taking Pictures



Reviewing Pictures



Getting Creative



Connecting to a Computer



Connecting to a Television or VCR



Beyond Point-and-Shoot



Basic Playback



The Shooting Menu



The Playback Menu



The Setup Menu



Technical Notes



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For Your Safety

To prevent damage to your Nikon product or injury to yourself or to others, read the following safety precautions in their entirety before using this equipment. Keep these safety instructions where all those who use the product will read them.

The consequences that could result from failure to observe the precautions listed in this section are indicated by the following symbol:



This icon marks warnings, information that should be read before using your Nikon product to prevent possible injury.

WARNINGS



Turn off immediately in the event of malfunction

Should you notice smoke or an unusual smell coming from the equipment or from the AC adapter (available separately), unplug the AC adapter and remove the batteries immediately, taking care to avoid burns. Continued operation could result in injury. After removing the batteries, take the equipment to a Nikon-authorized service center for inspection.



Do not use in the presence of flammable gas

Do not use electronic equipment in the presence of flammable gas, as this could result in explosion or fire.



Observe caution when using the camera strap

Caution should be exercised to prevent strangulation when wearing the camera strap around your neck. Never place the strap around the neck of an infant or child.



Do not disassemble

Touching the product's internal parts could result in injury. In the event of a malfunction, the product should be repaired only by a qualified technician. Should the product break open as the result of a fall or other accident, remove the batteries and AC adapter (if using) and then take the product to a Nikon-authorized service center for inspection.



Observe proper precautions when handling batteries

Batteries may leak or explode if improperly handled. Observe the following precautions when handling batteries for use in this product:

- Be sure the product is off before replacing the batteries. If you are using an AC adapter, be sure it is unplugged.
- Use only LR6 (AA) alkaline, NiCad, or NiMH batteries.
- When inserting batteries, be sure to orient the + and – terminals correctly.
- Do not short or disassemble.
- Do not expose to flame or to excessive heat.
- Do not immerse in or expose to water.
- Do not transport or store with metal objects such as necklaces or hairpins.

- Batteries are prone to leakage when fully discharged. To avoid damage to the product, be sure to remove the battery when no charge remains.
- Immediately after use, or when the product is used on battery power for an extended period, the batteries may become hot. Before removing the battery, turn the camera off and allow the batteries to cool.
- Discontinue use immediately should you notice any changes in the batteries, such as discoloration or deformation.



Use appropriate cables

When connecting cables to the input and output jacks, use only the cables provided or sold by Nikon for the purpose, to maintain compliance with product regulations.



Keep out of reach of children

Particular care should be taken to prevent infants from putting the battery or other small parts into their mouths.



Removing memory cards

Memory cards may become hot during use. Observe due caution when removing memory cards from the camera.



CD-ROMs

The CD-ROMs on which the software and manuals are distributed should not be played back on audio CD equipment. Playing CD-ROMs on an audio CD player could cause hearing loss or damage the equipment.



Observe caution when operating the flash

Using the flash close to your subject's eyes could cause temporary visual impairment. Particular care should be observed if photographing infants, when the flash should be no less than one meter (39") from the subject.



Avoid contact with liquid crystal

Should the monitor break, care should be taken to avoid injury due to broken glass and to prevent liquid crystal from the monitor touching the skin or entering the eyes or mouth.

Notices

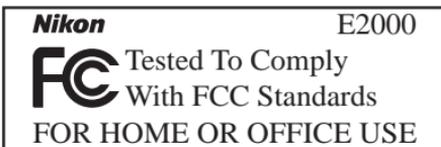
- No part of the manuals included with this product may be reproduced, transmitted, transcribed, stored in a retrieval system, or translated into any language in any form, by any means, without Nikon's prior written permission.
- Nikon reserves the right to change the specifications of the hardware and software described in these manuals at any time and without prior notice.
- Nikon will not be held liable for any damages resulting from the use of this product.
- While every effort has been made to ensure that the information in these manuals is accurate and complete, we would appreciate it were you to bring any errors or omissions to the attention of the Nikon representative in your area (address provided separately).

Notice for customers in the U.S.A.

Federal Communications Commission (FCC) Radio Frequency Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/television technician for help.



CAUTIONS

Modifications

The FCC requires the user to be notified that any changes or modifications made to this device that are not expressly approved by Nikon Corporation may void the user's authority to operate the equipment.

Interface Cables

Use the interface cables sold or provided by Nikon for your equipment. Using other interface cables may exceed the limits of Class B Part 15 of the FCC rules.

Nikon Inc.,
1300 Walt Whitman Road,
Melville, New York
11747-3064, U.S.A.
Tel.: 631-547-4200

Notice for customers in Canada

CAUTION

This class B digital apparatus meets all requirements of the Canadian Interference Causing Equipment Regulations.

ATTENTION

Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

Notice Concerning Prohibition of Copying or Reproduction

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The copying or reproduction of paper money, coins, or securities which are circulated in a foreign country is prohibited.

Unless the prior permission of the government has been obtained, the copying or reproduction of unused postage stamps or post cards issued by the government is prohibited.

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Introduction

Before You Begin

Overview



2–3



Familiarization



4–8



First Steps



9–14



This chapter is divided into the following sections:

Overview

Read this section for a description of how this manual is organized and for an explanation of the symbols and conventions used.

Getting to Know the COOLPIX 2000

Bookmark this section and refer to it as you read through the manual for information on the names and functions of camera parts.

First Steps

This section details the steps you will take when using your camera for the first time:

STEP 1	Attach the Camera Strap		9
STEP 2	Insert the Battery		9–10
STEP 3	Insert the Memory Card		10–11
STEP 4	Choose a Language		12
STEP 5	Set the Time and Date		13–14

Thank you for your purchase of a COOLPIX 2000 digital camera. This manual has been written to help you enjoy taking digital photographs with your COOLPIX 2000. As you read through it, you will find explanations not only of how the camera works but also of why certain features have been included, and how they may be used to take photographs in many different situations.

Use Only Nikon Brand Electronic Accessories

Your Nikon COOLPIX digital camera is designed to the highest standards and includes complex electronic circuitry. Only Nikon brand electronic accessories (including AC adapters) certified by Nikon specifically for use with your Nikon digital camera are engineered and proven to operate within the operational and safety requirements of this electronic circuitry.

THE USE OF NON-NIKON ELECTRONIC ACCESSORIES COULD DAMAGE YOUR CAMERA AND MAY VOID YOUR NIKON WARRANTY.

For more information about Nikon brand accessories, contact your local authorized Nikon dealer.

To make it easier to find the information you need, the following symbols and conventions are used:



This icon marks cautions, information that you should read before use to prevent damage to your camera.



This icon marks tips, additional information you may find helpful when using your camera.



This icon marks notes, information that you should read before using your camera.



This icon indicates that more information is available elsewhere in this manual.



Life-Long Learning

As part of Nikon's "Life-Long Learning" commitment to ongoing product support and education, continually-updated information is available on-line at the following sites:

- For users in the U.S.A.: <http://www.nikonusa.com/>
- For users in Europe: <http://www.nikon-euro.com/>
- For users in Asia, Oceania, the Middle East, and Africa: <http://www.nikon-asia.com/>

Visit these sites to keep up-to-date with the latest product information, tips, answers to frequently-asked questions (FAQs), and general advice on digital imaging and photography. Additional information may be available from the Nikon representative in your area. See the URL below for contact information:
<http://www.nikon-image.com/eng/>

Familiarization

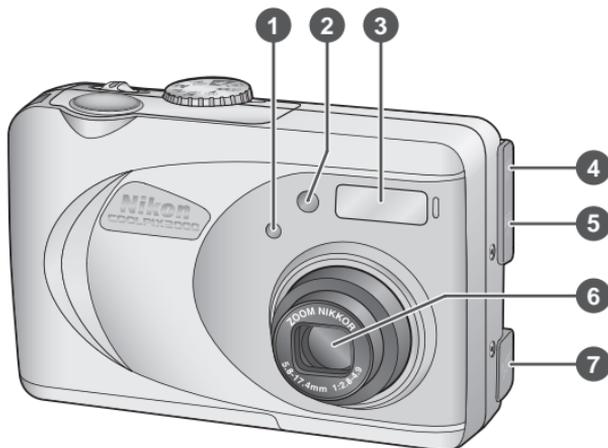
The Parts of the Camera and Their Functions

Take a few moments to familiarize yourself with camera controls and displays.

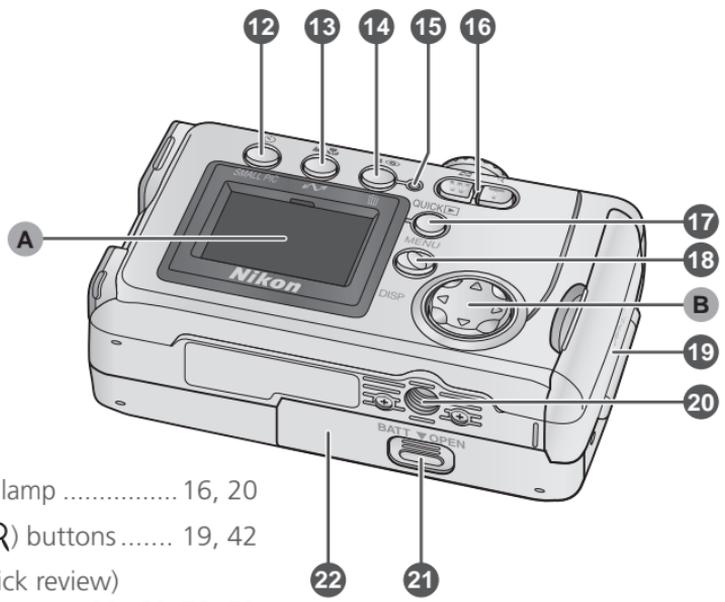
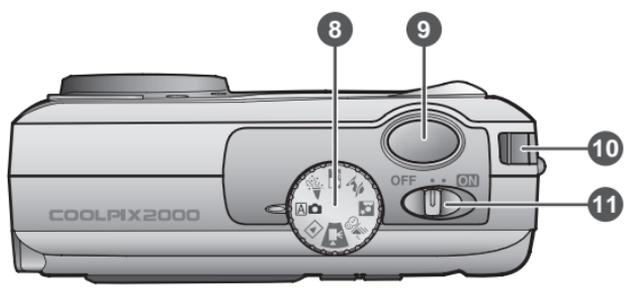


Where to Find It—Parts of the COOLPIX 2000

The parts of the camera are identified below. For more information on the function of each part, refer to the page numbers listed.



- | | |
|---|--|
| 1 Photocell | 9 Shutter-release button |
| 2 Self-timer lamp 41 | 20–21, 41 |
| 3 Built-in Speedlight 19 | 10 Eyelet for camera strap 9 |
| 4 Video-out connector
(under cover) 38 | 11 Power switch 16, 21, 33 |
| 5 USB connector
(under cover) 33 | 12 (self-timer)/
SMALL PIC. button 41, 50 |
| 6 Lens 19 | 13 (focus mode)/
(transfer) button . 32–33, 40 |
| 7 DC-in connector (under cover) | 14 (flash mode)/ (delete) button
..... 23–24, 46, 48 |
| 8 Mode dial 16, 25, 46 | |



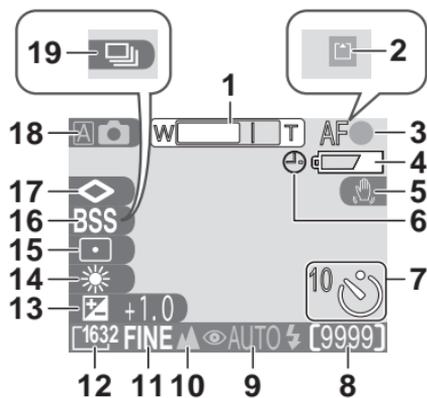
- 15 Flash-ready lamp 16, 20
- 16 Zoom (Z/Q) buttons 19, 42
- 17 **QUICK** (quick review) button 22, 66, 70, 72
- 18 **MENU** button 54, 65, 74
- 19 Memory card slot cover ... 10–11
- 20 Tripod socket
- 21 Battery-chamber cover latch 9
- 22 Battery-chamber cover 9–10

- A** Monitor 6
- B** Multi selector 8

How to Use It—Camera Controls and Displays

A The Monitor

The *monitor* is where you compose pictures before shooting. In shooting mode, the monitor shows the view through the camera lens. It also gives information on how the camera is set up.



- 1 Zoom indicator 19, 42
- 2 Recording indicator¹ 21, 86
- 3 Focus indicator² 20
- 4 Battery level indicator³ 17
- 5 Camera shake icon⁴
..... 25–26, 44, 86

1 Appears in same position as focus indicator.

2 Displayed only when shutter-release button is pressed halfway.

3 Appears only when battery is running low.

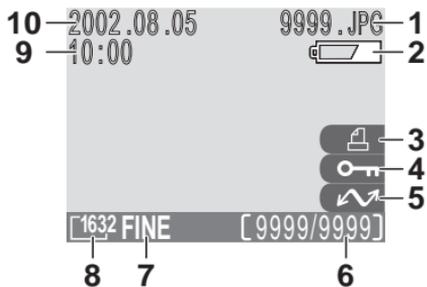
- 6 “Date not set” icon⁵ 14
- 7 Self-timer indicator 41
- 8 Number of exposures remaining
..... 17
- 9 Flash mode 25, 43
- 10 Focus mode 40
- 11 Image quality 57
- 12 Image size 57
- 13 Exposure compensation 63
- 14 White balance 58
- 15 Metering mode 60
- 16 Best shot selector (BSS) 62
- 17 Image sharpening 64
- 18 Shooting/scene mode 16, 25
- 19 Continuous shooting mode⁶
..... 61

4 Appears only at slow shutter speeds.

5 Appears when clock-calendar has not been set.

6 Appears in same position as BSS indicator.

The monitor is also used to view pictures after they have been taken. When a picture is displayed full screen, information about the image is shown superimposed on the photo.

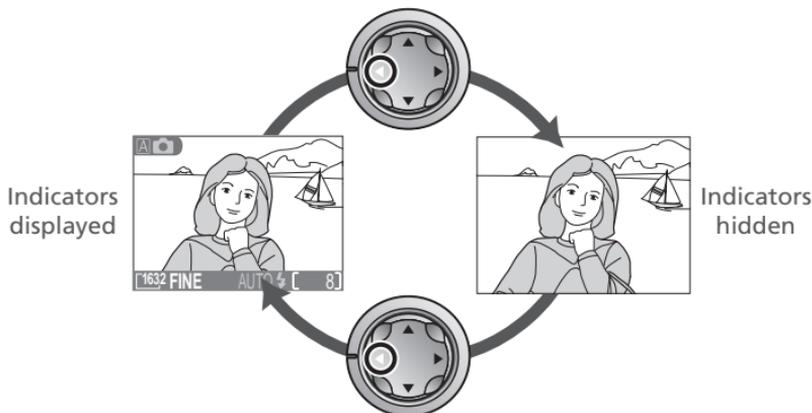


1	File number and type	47
2	Battery level indicator*	17
3	Print-order icon	71
4	Protect icon	67, 70
5	Transfer icon	75
6	Current frame number/ total number of frames	
7	Image quality	57
8	Image size	57
9	Time of recording	13
10	Date of recording	13

* Appears only when battery is running low.

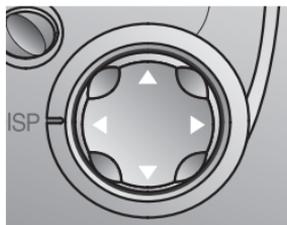
Controlling the Monitor

To hide camera settings or photo info, press the multi selector to the left. Press the multi selector to the left a second time to view indicators again.



B The Multi Selector

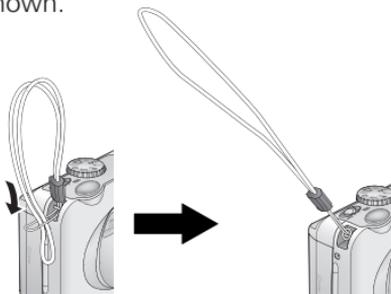
The *multi selector* is used to navigate through camera menus, to page through or select pictures during playback, scroll images during playback zoom, and to control the display of indicators in the monitor.



Before using your camera for the first time, you will need to complete the following steps.

Step 1—Attach the Camera Strap

Attach the strap as shown.



Step 2—Insert Batteries

Your camera is powered four LR6 (AA) alkaline, NiCad, or NiMH batteries.

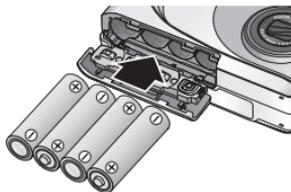
- 2.1 Turn the camera off
Turn the camera off before inserting or removing batteries.



- 2.2 Open the battery-chamber cover
Pressing the battery-chamber cover latch, slide the cover out (1) and flip it open (2).



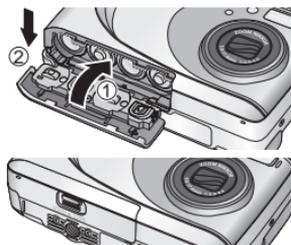
- 2.3 Insert the batteries
Insert the batteries with the "+" and "-" contacts oriented as shown.



✓ The Battery-Chamber Cover

The cover can be damaged by application of excessive force.

- 2.4 Close the battery-chamber cover**
 Flip the battery-chamber cover up (1) and slide it down until you hear the latch click into place (2). To prevent the batteries being dislodged during operation, be sure that the cover is securely latched.



Step 3—Insert the Memory Card

The COOLPIX 2000 stores pictures on CompactFlash™ memory cards.

- 3.1 Turn the camera off**
 Turn the camera off before inserting or removing memory cards.
- 3.2 Open the memory card slot cover**
 Open the card slot cover as shown at right.



Read Battery Warnings

Read and follow all warnings and instructions supplied by the battery manufacturer.

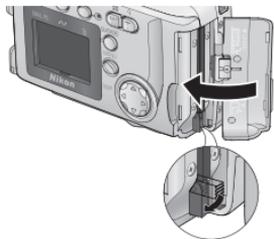
Before Removing the Batteries

Before removing the batteries, make sure that the camera is off and that the flash-ready lamp is out. Failure to observe this precaution could result in damage to the camera or memory card or in loss of data or stored settings.

Alternative Power Sources

To power your camera continuously for extended playback or while the camera is connected to a computer, we recommend the EH-53 AC adapter (available separately;  80).

- 3.3 Insert the memory card**
Holding the camera with the monitor toward you, slide the card in face up until it is firmly seated in the contacts at the back of the slot.
- 3.4 Close the card-slot cover**
Fold the eject button over and close the memory card slot cover.



Closing the Memory Card Slot Cover

Fold the eject button over before closing the memory card slot cover. If the eject button is upright when the cover is closed, closing the cover may partially eject the card, causing errors when the camera is turned on.

Formatting Memory Cards

“Formatting” is the term used to describe the action of permanently erasing all data from a memory card to make room for more pictures. The memory card supplied with your camera is formatted at shipment. Other memory cards, however, must be formatted before first use. For information on formatting memory cards, see “The Setup Menu: Formatting Memory Cards” ( 75).

Step 4—Choose a Language

Camera menus and messages can be displayed in your choice of German, English, French, Japanese, and Spanish. To choose a language, make sure that the camera is on and then follow the steps below.

4.1



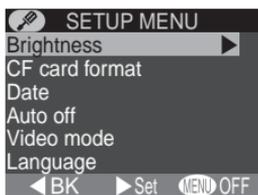
Display camera menus

4.2



Highlight **SETUP**

4.3



Display **SETUP** menu

4.4



Highlight **Language**

4.5



Display options

4.6



Choose language from **Deutsch** (German), **English**, **Français** (French), **日** (Japanese), or **Español** (Spanish)

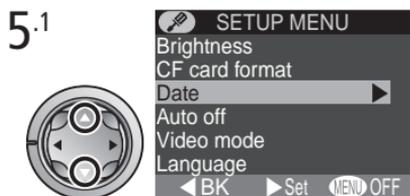
4.7



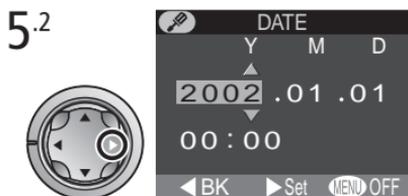
Return to **SETUP** menu. Proceed to Step 5.1 to set time and date.

Step 5—Set the Time and Date

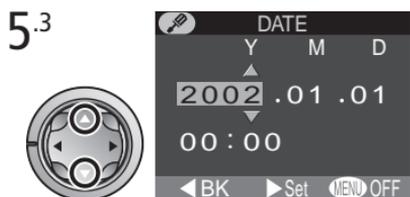
Information on the time and date of recording is included with all pictures taken with your Nikon digital camera. To set the camera's internal clock to the correct time and date, first display the SETUP menu (see Step 5), and then follow the steps below.



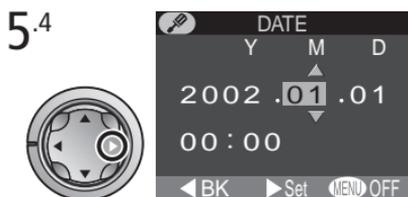
Highlight **Date**



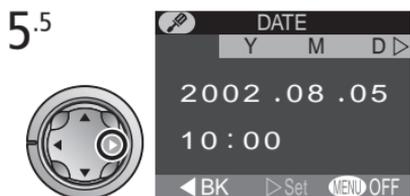
Display **DATE** menu



Edit **Year**



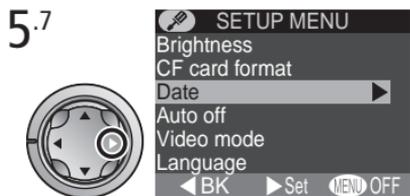
Select **Month**. Repeat steps 5.3–5.4 to edit remaining items.



Highlight **Y M D**



Choose order in which **Year, Month, and Day** will be displayed



Return to **SETUP** menu



Any pictures taken before the time and date have been set will have a time stamp of "0000.00.00 00:00." If the time and date have not been set, a flashing ☹ ("Date not set") icon will be displayed in the top right corner of the monitor when the camera is in shooting mode.



The Clock Battery

The camera's internal clock-calendar is powered by a separate, rechargeable power source, which is charged as necessary when the main battery is installed. If the camera has been stored for an extended period with the main battery removed, the clock may need to be reset. The clock power source can provide roughly twenty-four hours of back-up power after charging for about six hours.

Tutorial

Getting Started

This chapter is divided into the following three sections:

Taking Pictures

Read this section for a step-by-step guide to the basics of taking pictures with the COOLPIX 2000.

STEP 1	Ready the Camera		16–17
STEP 2	Adjust Camera Settings		18
STEP 3	Frame the Picture		19
STEP 4	Focus and Shoot		20–21
STEP 5	Turn the Camera Off		21

Reviewing Pictures

Learn how to view and delete pictures.

Getting Creative

Explore the creative possibilities of scene and movie modes.

Taking Pictures		16–21	
Reviewing Pictures		22–24	
Getting Creative		25–27	

This section details the basic steps involved in taking pictures in **A** (auto) mode. In this automatic, “point-and-shoot” mode, the majority of camera settings are controlled by the camera in response to shooting conditions, producing the best possible results in most situations.

Step 1—Ready the Camera

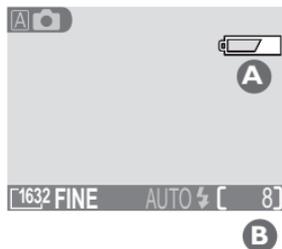
- 1.1 Turn the mode dial to **A**



- 1.2 Turn the camera on
The lens cover will open, the lens will extend, and the flash-ready lamp will light.



- 1.3 **Check indicators in the monitor**
Before shooting, check the battery level (A) and number of exposures remaining (B).



Battery Level (A)

The battery level is displayed as follows:

Display	Meaning	Camera status
—	Batteries fully charged	Camera functions normally.
	Low battery	Ready a set of new batteries.
Warning !! Battery exhausted	Batteries exhausted	No pictures can be taken until batteries have been replaced.

Number of Exposures Remaining (B)

If the number of exposures remaining is zero, a message will be displayed in the monitor. In this case, delete pictures (66), use a new memory card, or choose a lower quality or image size (56).

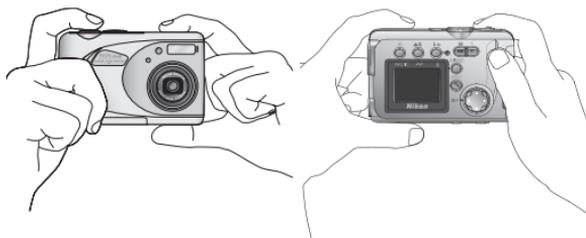
Step 2—Adjust Camera Settings (Optional)

The following table shows the default settings for  mode. For more information, refer to the page numbers in the rightmost column.

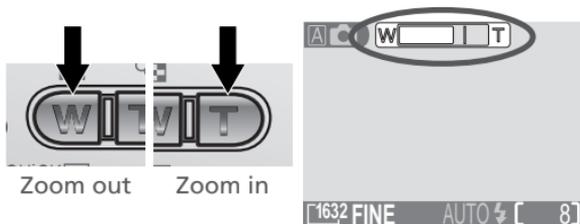
Setting	Default	Description	
Focus mode	Autofocus	Camera focuses automatically at distances over 30 cm (1').	40
Flash mode	Auto	Flash fires automatically when lighting is poor.	43
Image quality	NORMAL	Pictures compressed for balance between quality and file size that is ideal for snapshots.	56
Image size	1632	Pictures are 1,632 × 1,224 pixels in size.	57
Continuous	Single	One shot taken each time shutter-release button is pressed.	61

Step 3—Frame the Picture

- 3.1** Ready the camera
Hold the camera steadily in both hands.



- 3.2** Frame your subject
Use the zoom buttons to frame your subject against the background.



Indicator in monitor shows amount of zoom while either button is pressed

When the camera is zoomed in to maximum magnification, holding the **T** button down for about two seconds extends the zoom range digitally (digital zoom;  42). The zoom indicator turns yellow when digital zoom is in effect.

Don't Block the Shot

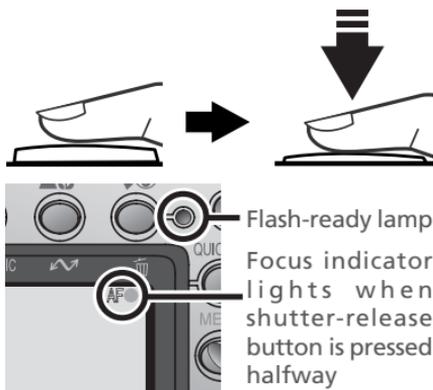
To avoid dark or partially obscured pictures, keep your fingers and other objects away from the lens and flash window.

Step 4—Focus and Shoot

4.1 Focus

Press the shutter-release button halfway to set focus and exposure.

With the shutter-release button pressed halfway, check the focus indicator and flash-ready lamp.



Focus indicator	Green	Subject in focus.
	Flashes red	Camera unable to focus. Change your composition and try again.
Flash-ready lamp	On	Flash will fire when picture is taken.
	Flickers	Flash charging. Remove finger briefly from shutter-release button, then try again.
	Off	Flash off or not required.

Getting Good Results with Autofocus

Autofocus performs best when there is contrast between the subject and background and the subject is evenly lit. It does not perform well if the subject is very dark or moving rapidly, if there are objects of sharply differing brightness in the scene (e.g., the sun is behind your subjects and their features are in deep shadow), or if the subject contains objects at different distances from the camera (e.g., the subject is inside a cage).

- 4.2 Take the picture**
Smoothly press the shutter-release button the rest of the way down to take a picture.



Step 5—Turn the Camera Off

When you have finished using the camera, turn the camera off to save battery power. The lens will retract and the lens cover will close.



✎ Avoiding Blurred Pictures

One of the most common sources of disappointing pictures is blurring caused by the camera moving suddenly as the shutter-release button is pressed. To avoid this, hold the camera steady and press the shutter-release button smoothly, pausing slightly at the halfway point to give the camera a chance to set focus and exposure.

✓ During Recording

While pictures are being recorded to the memory card, a  icon will be displayed in the monitor. In continuous ( 61) and movie ( 26) modes, an hourglass icon will be displayed. *Do not turn the camera off, remove the memory card, or remove or disconnect the power source while either icon is displayed.* Failure to observe this precaution could result in lost or damaged pictures.

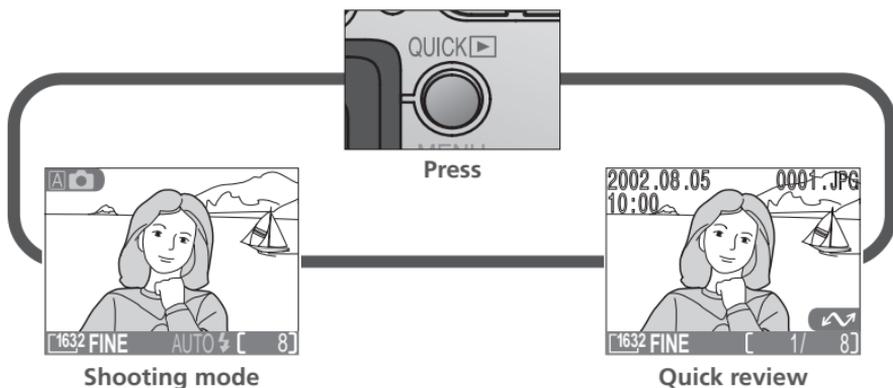
✓ Turning the Camera Off

After the camera is turned off, the flash-ready lamp may remain lit while camera settings are recorded to memory. Do not remove the batteries until the flash-ready lamp has gone out.

Pictures can be played back using the **QUICK** button (quick review) or by setting the mode dial to **▶** (playback mode). This section covers the operations that can be performed in quick review. For more information on playback mode, see “Basic Playback” (46).

Quick Review

Quick review allows you to view earlier pictures while shooting. If you are not satisfied with the results, you can take another picture immediately.



The following operations can be performed in quick review:

To	Press	Description
View other pictures		Press the multi selector up to view pictures recorded before the current photo, down to view pictures recorded after the current photo.
View multiple pictures		Press the (W) button to display four or nine pictures at a time as small thumbnail previews (24).

To	Press	Description
Delete current picture		<p>A confirmation dialog will be displayed. Press multi selector up or down to highlight option, press to right to select.</p>  <ul style="list-style-type: none"> • Select No to exit without deleting picture • Select Yes to delete picture
Zoom photo in		Press the Q () button for an enlarged view of the current photo ( 49). While the photo is zoomed in, use the multi selector to view areas not visible in the monitor. To cancel zoom, press W ().
Select current picture for transfer to a computer		Pictures selected for transfer are marked with a  icon. Turn this marking on or off to select the pictures that will be transferred to a computer at a later date ( 73).
Hide or display photo info		Press multi selector to left to hide or display photo info superimposed on picture in monitor ( 7).
Return to shooting mode	Shutter release/ QUICK 	To end review and return to shooting mode, press the QUICK  button or press the shutter-release button halfway.

Quick Review

Quick review is not available when the mode dial is set to  (movie mode) or  (playback mode).

Thumbnail Review

Pressing the  () button in quick review displays a menu of four thumbnail images. The following operations can be performed while thumbnails are displayed:



To	Press	Description
Highlight pictures		Press the multi selector up, down, left, or right to highlight thumbnails.
Change number of pictures displayed	  	With four thumbnails displayed, press the  button once to view nine thumbnail images. Press  () to “zoom in” from nine thumbnails to a four-thumbnail view or, when four thumbnails are displayed, to view highlighted picture full size.
Delete highlighted picture	  	A confirmation dialog will be displayed. Press multi selector up or down to highlight option, press to right to select. <div data-bbox="388 847 647 1043" style="border: 1px solid black; padding: 5px; margin: 10px 0;"> <p> DELETE</p> <p> Erase 1 image Yes or No ?</p> <p>No </p> <p>Yes</p> <p> Set </p> </div> <ul style="list-style-type: none"> • Select No to exit without deleting picture • Select Yes to delete picture
Select highlighted picture for transfer to a computer	 	Pictures selected for transfer are marked with a  icon. Turn this marking on or off to select the pictures that will be transferred to a computer at a later date ( 73).
Return to shooting mode	Shutter release/ 	To end review and return to shooting mode, press the  button or press the shutter-release button halfway.

Portrait



Use for portraits. Main subject stands out clearly while background details are softened, lending the composition a sense of depth.

- Degree of softening depends on amount of light available.

Night Portrait



Use for shots that provide a natural balance between the main subject and the background when shooting portraits against a backdrop of night scenery.



- Flash is set to  AUTO  (auto with red-eye reduction;  43).

Beach/Snow



Vividly captures the brightness of such subjects as snowfields, beaches, or sunlight expanses of water.

Movie

This mode is used to record NORMAL-quality silent movies 320 × 240 pixels in size (QVGA) at a rate of about fifteen frames per second. Recording begins when the shutter-release button is pressed all the way down and ends when the shutter-release button is fully pressed a second time.

- In place of the number of exposures remaining, the exposure-count display in monitor shows the length of the movie that can be recorded.
- Movie ends automatically after twenty seconds or when no more space is available on the memory card.
- Movies are stored as QuickTime movie files ending in “.MOV”.
- The flash turns off () automatically, and digital zoom is disabled. Optical zoom can only be adjusted before shooting begins.
- Menus are disabled in movie mode.

Focus Mode/Self-Timer

Macro close-up and infinity ( 40) are available only in  (auto) and  (Beach/Snow) modes. In all other modes, the camera is set to focus automatically on subjects 30 cm (1') or more from the camera. The self-timer is available in all modes except  (movie).

Noise Reduction

A special feature called “noise reduction” is enabled in **Night Portrait** mode to help make pictures as clear as possible. When noise reduction is in effect, slightly more time is required to process pictures before they are saved to the memory card.

Connections

Connecting to External Devices

Connecting to a
Computer



30–37



Connecting to a
Television or VCR



38



This chapter provides information on connecting your camera to a computer and to a television or videocassette recorder (VCR)

Connecting to a Computer

Read this section to learn how to copy pictures from the camera memory card to your computer using Nikon View 5.

Connecting to a Television or VCR

This section details how a television can be used to mirror the display in the camera monitor.

Printing Your Pictures

Pictures taken with the COOLPIX 2000 can be printed in a variety of ways. For example, many photofinishers accept delivery of photographs on memory cards, floppy disks, or other removable media (contact your photofinisher for information on the type of media and file formats supported). Pictures that have been transferred to your computer using Nikon View 5 can be printed using a color printer. In the case of printers and photofinishing systems that support Digital Print Order Format (DPOF), you can select pictures for printing using the camera **Print Set** option ( 71) and print them directly from the memory card.

Your COOLPIX digital camera saves each picture as an image file that can be copied to your computer using the Nikon View 5 software provided. Once transferred to your computer, your pictures can be viewed, printed, sent to your acquaintances via e-mail, or saved to a CD or other removable media for delivery to a photofinisher. Any copies stored on the memory card after transfer can be deleted to make way for new pictures, which you can then add to the growing digital photo album on your computer.

Before You Begin: Installing Nikon View 5

Before copying pictures to your computer, you will need to install Nikon View 5, an application that allows you to transfer pictures from the camera memory card to a computer hard disk and view them on the computer monitor. To install Nikon View 5, you must have a computer running one of the following operating systems:

Windows	Pre-installed versions of Windows XP Home Edition, Windows XP Professional, Windows 2000 Professional, Windows Millennium Edition (Me), or Windows 98 Second Edition (SE).
Macintosh	Mac OS 9.0, 9.1, 9.2, Mac OS X (10.1.2 or later). Only models with built-in USB ports supported.

Although the instructions in the *Quick Start Guide* will get you started with Nikon View 5, we recommend that you also read the material on the Nikon View 5 reference CD (provided).



1 Insert the reference CD

After turning on your computer and waiting for the operating system to start up, place the reference CD in a CD-ROM drive.



If you are using a Macintosh computer, the reference CD window will open automatically on the desktop. Windows users will need first to double-click the **My Computer** icon and then the **Nikon** icon to open the reference CD window.

2 Install Adobe Acrobat Reader

The material on the Nikon View 5 reference CD is in Portable Document Format (PDF), which can be viewed in Adobe Acrobat Reader 4.0 or later. If you have already installed this version of Acrobat, proceed to Step 3.

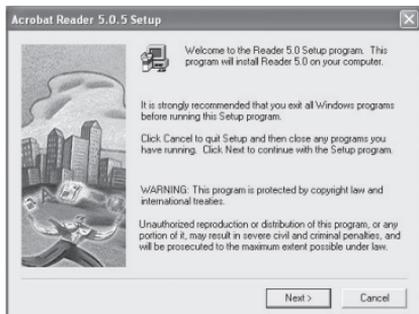
To install Adobe Acrobat Reader, open the folder for the language of your choice and double-click the installer icon. The installer start-up screen will be displayed; follow the on-screen instructions to complete installation.



Installer icon
(Windows)



Installer icon
(Macintosh)



Start-up screen (Windows)



Start-up screen (Macintosh)

3 Read the instructions for Nikon View 5

Once you have installed Adobe Acrobat Reader, double-click the **INDEX.pdf** icon in the root directory of the reference CD to view a clickable index of the documentation available for Nikon View 5. If you have not already installed Nikon View 5, you can follow the links to view detailed installation instructions for your computer system. If desired, you can print the installation instructions using the **Print...** command in the Acrobat **File** menu, and follow along during installation of Nikon View 5.

Already Have Nikon View?

In order to transfer pictures to your computer using the UC-E5 USB cable, the COOLPIX 2000 requires the version of Nikon View 5 provided with the camera. If you have a version of Nikon View that was included with another Nikon digital camera, you will need to upgrade to the version provided with the COOLPIX 2000.

Making the Connection: Connecting to Your Computer

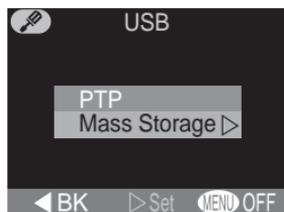
Once you have installed Nikon View 5, you are ready to transfer photographs and movies to your computer. Pictures can be transferred via a direct USB connection between the camera and computer, or by removing the memory card from the camera and inserting it in a card reader or PC card slot.

Direct Connection: Connecting Your Camera by Cable

If your computer has a built-in USB connection, you can transfer your pictures using the supplied UC-E5 USB cable.

1 Choose a USB protocol

The COOLPIX 2000 supports two USB protocols: Mass Storage (the default option) and Picture Transfer Protocol (PTP). Before connecting the camera to a computer, select the **USB** option in the camera setup menu (77) and choose a USB protocol that matches that used by your computer's operating system. If you are connecting the camera to a computer running Windows XP Home Edition, Windows XP Professional, or Mac OS X (10.1.2 or later), choose **PTP**. If you are connecting the camera to a computer running Windows 2000 Professional, Windows Millennium Edition (Me), Windows 98 Second Edition (SE), or Mac OS 9 (9.0, 9.1, or 9.2) and have changed the USB setting to **PTP**, return to the **USB** menu and select **Mass Storage**.



Install Nikon View 5

Be sure to install Nikon View 5 *before* connecting the camera.

Use a Reliable Power Source

When transferring data between the camera and the computer, be sure that the battery is fully charged. If in doubt, recharge the battery before beginning transfer or use the optional EH-53 AC adapter.

2 Select the pictures to be transferred

In quick review (📷 22) or playback mode (📷 46), press the  (WB) button to display the pictures on the memory card in “contact sheets” of four or nine thumbnails (📷 48). Confirm that only the pictures you want to copy to the computer are marked with a  icon. To remove the  icon from a picture, or to select an unmarked picture for transfer, highlight the image with the multi selector and press the  button.



3 Turn the camera off

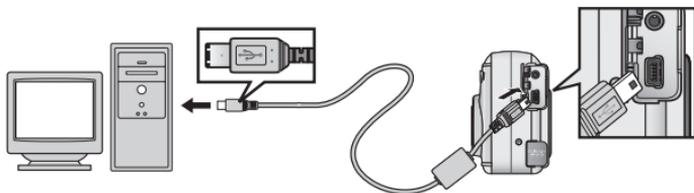
Turn the camera off before connecting the USB cable.

4 Turn the computer on

Turn the computer on and wait for the operating system to start up.

5 Connect the camera and computer

Connect the UC-E5 USB cable as shown below. Use the flat connector for connection to the computer, and connect the other end of the cable to the camera's USB connector. Do not connect the camera via a USB hub or keyboard.



Transferring More than 999 Pictures

No more than 999 pictures can be transferred at one time using the  button. To copy more pictures, use Nikon View 5. See the *Nikon View 5 Reference Manual* (on CD) for details.

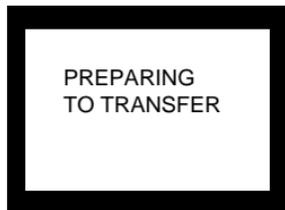
6 Turn the camera on

When the camera is turned on with the UC-E5 cable connected, the monitor will remain off, and all controls except the  () button and power switch will be inactive.



7 Press the () button

When the camera is connected and turned on, Nikon View 5 will start automatically (see the reference CD for details). Once Nikon View 5 has started, press the  () button to begin copying the pictures selected in Step 2 to the computer. The message “PREPARING TO TRANSFER” will appear in the camera monitor.



8 Wait for the pictures to be transferred to the computer

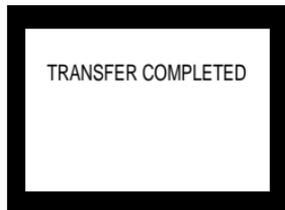
While pictures being copied to the computer, the camera monitor will show “TRANSFERRING IMAGE TO COMPUTER.” While transfer is in progress, do not:

- Disconnect the USB cable
- Turn the camera off
- Remove the memory card from the camera



9 Disconnect the camera

When all marked pictures have been transferred, the message “TRANSFER COMPLETED” will be displayed in the camera monitor. If you are using Windows XP Home Edition, Windows XP Professional, or Mac OS X (version 10.1.2 or later) with the camera USB protocol set to **PTP** (see Step 1), you can now turn the camera off and disconnect the USB cable.



If you are using one of the following operating systems, you must remove the camera from the system as described below before disconnecting the cable or turning the camera off.

Windows 2000 Professional

Click the “Unplug or Eject Hardware” icon  in the taskbar and select **Stop USB Mass Storage Device** from the menu that appears.



Windows Millennium Edition (Me)

Click the “Unplug or Eject Hardware” icon  in the taskbar and select **Stop USB Disk** from the menu that appears.



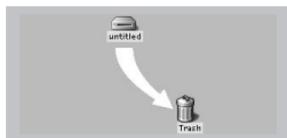
Windows 98 Second Edition (SE)

In My Computer, click with the right mouse button on the removable disk corresponding to the camera and select **Eject** from the menu that appears.



Mac OS 9

Drag the “untitled” camera volume into the Trash.



Once you have removed the camera from the system, you can disconnect the interface cable or turn the camera off.

Mac OS X

Pictures can not be transferred using the  button in Mac OS X 10.1.2. Use the  button in Nikon View 5 to transfer pictures. See the *Nikon View 5 Reference Manual* (on CD) for details. The camera  button can be used to transfer images in Mac OS X 10.1.3 or later.

Reading Pictures from Memory Cards

If you have a CompactFlash™ card reader or your computer is equipped with a PC card slot, you can transfer pictures directly from the memory card. Before inserting the memory card in a card reader or card slot, turn the camera off and remove the card from the camera.

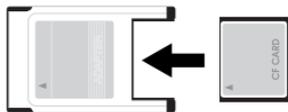
If you are using a PC card slot, insert the memory card into a PC card adapter (see note below), and then insert the adapter into the PC card slot. If you are using a card reader, insert the memory card directly into the card reader. If installed, Nikon View 5 will detect cards from Nikon digital cameras and start automatically. See the *Nikon View 5 Reference Manual* (on CD) for information on transferring pictures to your computer.

CompactFlash™ Card Readers

Before using a card reader, be sure to read all documentation provided by the manufacturer.

PC Card Adapter

To read CompactFlash™ memory cards using a PC card slot, you will require an EC-AD1 PC-card adapter (shown at right), available separately from Nikon.



Removing the Memory Card

Be sure that transfer is complete before removing memory cards from the card reader or PC card slot.

Before removing the memory card from a PC card slot or card reader, you will need to remove the card from the system:

Windows XP Home Edition/Windows XP Professional

Click the “Safely Remove Hardware” icon () in the taskbar and remove the memory card from the system.

Windows 2000 Professional/Windows Millennium Edition (Me)

Click the “Unplug or Eject Hardware” icon () in the taskbar and remove the memory card from the system.

Windows 98 Second Edition (SE)

In My Computer, right click on the removable disk corresponding to the memory card and select **Eject** from the menu that appears.

Mac OS X

Drag the “NO_NAME” volume that represents the memory card into the Trash.

Mac OS 9

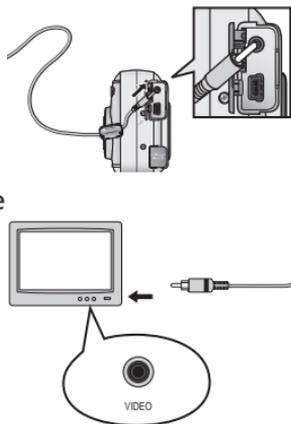
Drag the “untitled” volume that represents the memory card into the Trash.

Connecting to a Television or VCR

Television Playback

Using the video cable provided with your camera, you can connect the COOLPIX 2000 to a television or VCR.

- 1 Turn the camera off**
Turn the camera off before connecting or disconnecting the video cable.
- 2 Connect the video cable to the camera**
Insert the pin jack into the camera's video out connector.
- 3 Connect the video cable to the video device**
Connect the other end of the cable to the video-in jack on the television or VCR.
- 4 Tune the television to the video channel**
- 5 Turn the camera on**
The television will show the image normally displayed in the monitor. The camera monitor will be blank.



Use an AC Adapter

To prevent the display in the television from turning off whenever the camera enters sleep mode, connect the camera to an EH-53 AC adapter (available separately).

Choosing a Video Mode 76

The **Video Mode** item offers a choice of NTSC and PAL standards for video output. Be sure that the standard selected matches that of any video device to which you connect the camera.

Beyond Point- and-Shoot

Adjusting Camera Settings

In “Tutorial: Taking Pictures,” you learned the basic order of operations for taking pictures in **A** (auto) mode. This chapter offers advice on focus and flash mode selection, zoom, and the self-timer.

Focus-Mode Selection

The  Button

The camera automatically adjusts focus for objects 30 cm (1') or more from the lens. Two other options for objects that are very close to or far from the camera are available in  (auto) and  (Beach/Snow) modes. To select the focus mode, press the  button until the desired mode is displayed in the status bar in the bottom of the monitor.



Autofocus



Macro close-up



Infinity

Mode	How it works	When to use it
NO ICON Autofocus	Camera automatically adjusts focus according to distance to subject.	Use with subjects 30 cm (1') or more from lens.
 Macro close-up	Camera can focus on objects as close as 4 cm/1.6" (measured from lens). Camera adjusts focus continuously (continuous AF).	Use for close-ups.
 Infinity	Focus is fixed at infinity. Flash is disabled. No focus indicator appears in monitor when shutter-release button is pressed halfway.	Use when photographing distant scenes through foreground objects such as a window or a screen of branches.

The self-timer is used to delay shutter release until either ten or three seconds after the shutter-release button is pressed all the way down. Use the ten-second timer for self-portraits, the three second-timer to prevent blurring caused by the camera moving when the shutter-release button is pressed.

1 Position the camera

Mount the camera on a tripod (recommended) or rest it on a flat, stable surface.

2 Turn the self-timer on

Press the  button once for a ten-second delay, twice for a three-second delay.

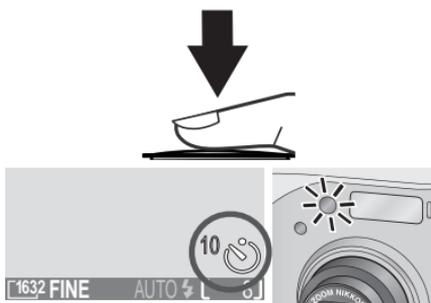


3 Compose the picture

Adjust camera settings and frame the picture.

4 Start the timer

Press the shutter-release button all the way down to lock focus on the subject in the center of the frame and activate the timer. The self-timer lamp next to the flash window will blink until one second before the photo is taken, staying lit during the final second to warn that the shutter is about to be released. To stop the timer before a picture is taken, press the shutter-release button.



Count-down timer in monitor shows number of seconds remaining until picture is taken; self-timer lamp blinks

Your Nikon digital camera offers two kinds of zoom: optical zoom, in which the camera's telescoping lens can be used to magnify the subject up to 3 ×, and digital zoom, in which digital processing is used to further magnify the image up to 2.5 ×.

Optical Zoom

Photos can be framed in the monitor using the zoom buttons.



Zoom out

Zoom in

Indicator in monitor displays amount of zoom while either button is pressed

Digital Zoom

At the maximum optical zoom position, holding the **T** button down triggers digital zoom.



Maximum optical zoom position



Hold



Zoom indicator turns yellow in digital zoom range

The camera can be zoomed in and out in the digital zoom range by pressing the **T** and **W** buttons. To restore ordinary optical zoom, press **W** until the zoom indicator turns white.

In digital zoom, data from the camera's image sensor are processed digitally, enlarging the center portion of the picture to fill the frame. Unlike optical zoom, digital zoom does not increase the amount of detail visible in the picture. Instead, details visible at maximum optical zoom are enlarged, producing a slightly "grainy" image. While digital zoom is in effect, the camera focuses on the subject in the center of the frame, even if objects in other areas of the frame are closer to the camera.

Digital zoom is not available in movie mode (📹 26), at CONTINUOUS settings other than **Single** (📷 61), or when BSS (📷 62) is on.

Flash Photography

The   Button

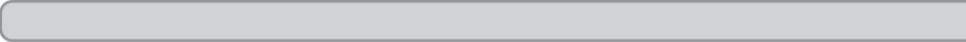
In  (auto),  (Portrait), and  (Beach/Snow) modes, you can choose from the flash modes listed in the table below. To select the flash mode, press the   button until the desired mode is displayed in the monitor.



Mode	How it works	When to use it
 AUTO Auto	Flash fires when lighting is poor.	Best choice in most circumstances.
 Flash Cancel (off)	Flash will not fire even when lighting is poor.	Use when subject is outside range of flash, to capture natural lighting under dim light, or where use of a flash is prohibited. Use of a tripod is recommended to prevent blurring.
 AUTO  Auto with red-eye reduction	Pre-flash fires before main flash. This causes subjects' pupils to contract before photo is taken, minimizing "red-eye" effect caused by flash reflecting from retina.	Use for portraits (works best when subjects are well within range of flash and looking at pre-flash). Note that red-eye reduction pre-flash delays shutter release; choose another mode when photographing moving subjects.
 Anytime Flash (fill flash)	Flash fires whenever picture is taken.	Use to "fill-in" (illuminate) shadows and back-lit subjects.
  Slow sync	Auto flash combined with slow shutter speed.	Use to capture both subject and background at night or under dim light. Use of a tripod is recommended to prevent blurring.

 **The  (Camera Shake) Icon**

When lighting is poor and the flash is off () or set to slow sync ( ) , shutter speeds will slow and pictures may be blurred. If the shutter speed required for exposure is very slow, a  (camera shake) icon will appear in the monitor. Use of a tripod or support is recommended.



Basic

Playback

Playback Mode

This section details the operations that can be performed when the mode dial is set to  (playback mode).

Full-Frame Playback

When the mode dial is turned to , the camera enters playback mode with the most recent picture displayed in the monitor.



The following operations can be performed in playback mode:

To	Press	Description
View other pictures		Press the multi selector down to view pictures in the order recorded, up to go back. Keep multi selector pressed to scroll rapidly to the desired frame number.
View multiple pictures	 (W)	Press the  (W) button to display up to nine pictures at a time as small thumbnail previews ( 48).
Delete current picture		<p>A confirmation dialog will be displayed. Press multi selector up or down to highlight option, press to right to select.</p>  <ul style="list-style-type: none"> • Select No to exit without deleting picture • Select Yes to delete picture
Zoom photo in	 (T)	Press the  (T) button for an enlarged view of the current photo ( 49).

To	Press	Description
Select current picture for transfer to a computer		Pictures selected for transfer are marked with a  icon. Turn this marking on or off to select the pictures that will be transferred to a computer at a later date ( 73).
Create small copy of current picture	SMALL PIC. ()	If the current picture is a photograph, pressing the  button will create a small copy (320 × 240) for electronic distribution ( 50).
Play movie back		If the current picture is marked with a  icon to show that it is a movie, pressing the multi selector right starts and pauses movie playback ( 52).
Hide or display photo info		Press multi selector to left to hide or display photo info superimposed on picture in monitor ( 7).
Display playback menu	MENU	Press the MENU button to display or hide the playback menu ( 53).

Image File and Folder Names

Pictures taken with the COOLPIX 2000 are identified by file names that begin with "DSCN" or, in the case of pictures created with the small picture function ( 50), "SSCN," followed by a four-digit file number from 0001 to 9999 assigned automatically in ascending order by the camera. Each file name ends in a three-letter "extension" that identifies the type of picture: ".JPG" for photographs and ".MOV" for movies. Picture files are stored in folders created automatically by the camera and named with a three digit folder number followed by "NIKON" (e.g., "100NIKON").

To reset file numbering to 0001, format the memory card (note that this *permanently deletes all data on the card, including protected pictures*; before formatting, be sure to copy to a computer any pictures you want to keep).

Thumbnail Playback

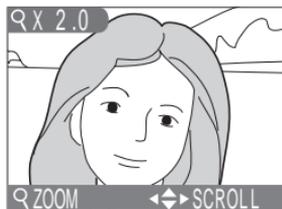
Pressing the  (W) button in full-frame playback displays a menu of four thumbnail images. The following operations can be performed while thumbnails are displayed:



To	Press	Description
Highlight pictures		Press the multi selector up, down, left, or right to highlight thumbnails.
Change number of pictures displayed	 (W) 	With four thumbnails displayed, press the  (W) button once to view nine thumbnail images. Press Q (T) to “zoom in” from nine thumbnails to a four-thumbnail view or, when four thumbnails are displayed, to view highlighted picture full size.
Delete highlighted picture	  	A confirmation dialog will be displayed. Press multi selector up or down to highlight option, press to right to select. <div data-bbox="388 847 647 1043" style="border: 1px solid black; padding: 5px; margin: 10px 0;"> <p> DELETE</p> <p> Erase 1 image Yes or No ?</p> <p>No </p> <p>Yes </p> <p> Set </p> </div> <ul style="list-style-type: none"> • Select No to exit without deleting picture • Select Yes to delete picture
Select highlighted picture for transfer to a computer	 	Pictures selected for transfer are marked with a  icon. Turn this marking on or off to select the pictures that will be transferred to a computer at a later date ( 73).

Taking a Closer Look: Playback Zoom

Use the **Q** (**T**) button to zoom in on photos displayed in full-frame playback (playback zoom can not be used with movies or copies created with the small picture function).

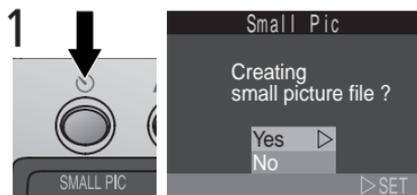


To	Press	Description
Zoom photo in	Q (T)	Zoom increases each time button is pressed, to a maximum of 16 x. While image is zoomed in, Q icon and zoom ratio are displayed in upper left corner of monitor.
Zoom photo out	W (W)	While image is zoomed in, press W (W) button to zoom out.
View other areas of image		Press the multi selector to scroll to areas of the image not visible in the monitor.
Cancel zoom	QUICK (Q)	Press QUICK (Q) to cancel zoom.

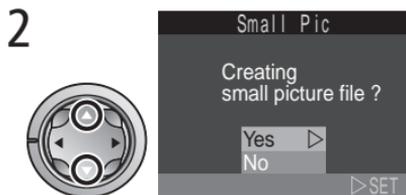
Creating a Small Copy of a Picture: Small Picture

Pressing the **SMALL PIC.** (📷) button in full-frame playback creates a small copy of the current picture. Copies are 320 × 240 pixels in size and have an image quality of BASIC, making them ideal for distribution by e-mail or for use in web pages.

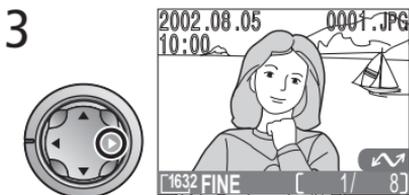
To create a small copy of the picture currently displayed in full-frame playback:



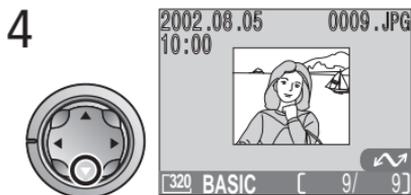
Press **SMALL PIC.** (📷) button to display confirmation dialog



Highlight **Yes** (to exit without creating copy, highlight **No** and press multi selector to right)



Create small copy and return to playback mode with original picture displayed



To view copy, press multi selector down (copy will appear after last picture recorded). Copy has same time and date of creation as original.

Once created, copies are independent of the original: deleting a copy has no effect on the original, deleting the original no effect on the copy. Copies are stored on the memory card as independent files with names of the form "SSCNnnnn.JPG", where "nnnn" is a four-digit number assigned automatically by the camera. Copies will have the same transfer marking as the originals; print and protect attributes, however, must be set separately.

When displayed in full-frame playback and full-screen review, copies will occupy roughly one-quarter of the monitor. In thumbnail playback and review, copies are indicated by a border. Copies can not be viewed using playback zoom (49).

Restrictions on Small Picture

The small picture function described in this section can not be used in quick review or thumbnail playback.

Copies can not be created from movies. Additional copies of an image can not be created from a small picture file; pressing the **SMALL PIC.** (☺) button when a copy is displayed will have no effect. Pressing the **SMALL PIC.** button will also have no effect if there is not enough space for the copy on the memory card.

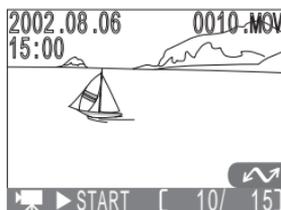
The COOLPIX 2000 may not be able to create small copies from images taken with another make of camera.

Viewing Small Picture Files on Other Cameras

Copies created with the small picture function may not display correctly when viewed on other models of Nikon digital camera. You may also not be able to transfer copies from other models of Nikon digital camera to a computer.

Movie Playback

Movies are indicated by a  icon. In full-frame playback, movies can be viewed using the multi selector. Movies can not be played back when thumbnails are displayed.



To	Press	Description
Start playback		 icon displayed while movie loads. Playback begins when loading complete. Still image of first frame is displayed when movie ends.
Pause/resume playback		Pressing multi selector to right while playback is in progress pauses display. To resume playback, press to right again.
Advance		When movie is paused, press multi selector down to advance through movie. If the last frame of the movie is displayed, pressing the multi selector down ends movie playback and displays the first frame of the movie.
Rewind		When movie is paused, press multi selector up to rewind.

Menu Guide

Using Camera Menus

Changes to some shooting, playback, and setup options are made with the help of menus that appear in the monitor.

The Shooting Menu

This section describes the options in the shooting menu, which is available when the mode dial is set to  (auto) or scene modes.

The Playback Menu

Read this section for a description of the options in the playback menu, which is available when the mode dial is set to .

The Setup Menu

This menu, which is available in all modes except movie mode, contains options for basic camera setup, such as formatting memory cards.

The Shooting Menu



54–64



The Playback Menu



65–73



The Setup Menu



74–78

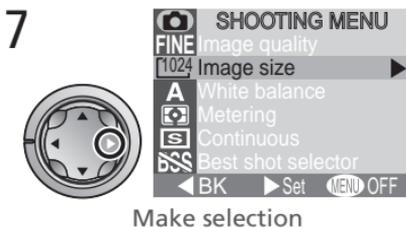
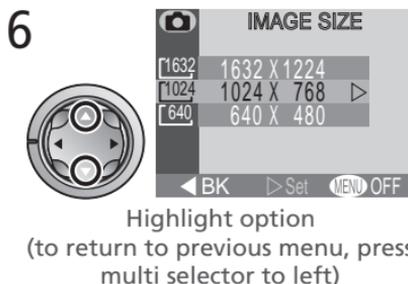
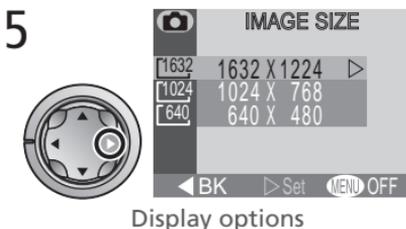
SETUP

The Shooting Menu

Fine-Tuning Shooting Options

In shooting mode, changes to some settings are made with the help of the shooting menu.

To make selections from the shooting menu:



To return to the menu selection page when the main shooting menu is displayed, press the multi selector to the left. To exit the menus and return to shooting mode at any time, press the **MENU** button.

The options available in the shooting menu depend on the mode selected. No menu is available in movie mode.



Scene mode



(A) (auto) mode



(A) (auto) mode

To scroll between pages of the shooting menu in (A) mode, press the multi selector up or down until the next page is displayed.



Option	
Image quality	56–57
Image size	56–57

Option	
Image quality	56–57
Image size	56–57
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Taking Pictures while Menus Are Displayed

The view through the lens is visible behind the shooting menu. To take a picture while the menu is displayed, press the shutter-release button.

Making Effective Use of Memory: Image Quality and Size

Together, image quality and size determine how much space each picture occupies on the memory card, which in turn determines the total number of pictures that can be stored. The table below shows the approximate number of pictures that can be stored on eight- and sixteen-megabyte memory cards at different combinations of image quality and size.

	8-MB memory card			16-MB memory card		
	1632	1024	640	1632	1024	640
FINE	8	16	39	16	32	80
NORMAL	16	31	72	33	64	146
BASIC	32	62	121	65	127	247

* Figures are approximate. File size of JPEG images depends on scene recorded, producing wide variations in number of images that can be stored.

Image Quality

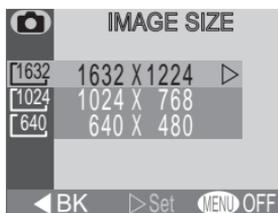
To reduce the amount of memory each shot occupies, pictures are compressed as they are saved to the memory card. Compression selectively reduces the quality of the image; the more the picture is compressed, the more noticeable this loss of quality is likely to be (the actual effect depends on the size of the picture when printed or displayed and on the type of subject). The image-quality menu allows you to choose the amount of compression performed.



Option	Compression ratio (approx.)	Description
FINE	1 : 4	Suitable for enlargements or high-quality prints.
NORMAL	1 : 8	Suited to most applications.
BASIC	1 : 16	Suitable for pictures that will be distributed by e-mail or used in web pages.

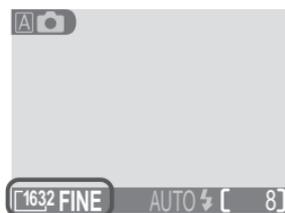
Image Size

Image size refers to the physical dimensions of the image, measured in pixels. Choose an image size according to the space available on the memory card and the task at hand.



Option	Size (pixels)	Approximate size when printed at 300 dpi
1632	1,632 × 1,224	13 × 10 cm (5.1" × 3.9")
1024	1,024 × 768	9 × 7 cm (3.5" × 2.8")
640	640 × 480	5 × 4 cm (2.0" × 1.6")

The current image quality and size settings are displayed in the monitor.

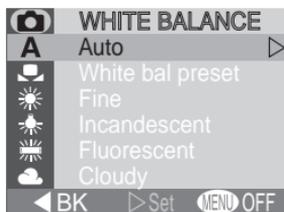


Print Size

The size of pictures when printed depends on the resolution of the printer (the higher the resolution, the smaller the final print size).

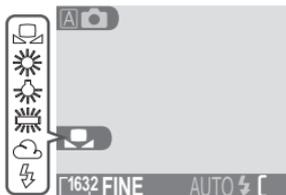
Keeping Colors True: *White Balance*

White balance is used to preserve natural colors under different types of lighting. The following options are available:



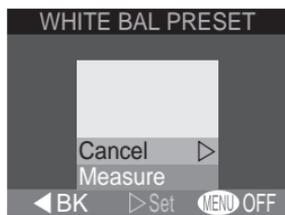
Option	Description
A Auto	White balance automatically adjusted to suit lighting conditions. Best choice in most circumstances.
 White bal preset	White object used as reference to set white balance under unusual lighting conditions.
 Fine	White balance adjusted for direct sunlight.
 Incandescent	For use with incandescent lighting.
 Fluorescent	For use with most types of fluorescent lighting.
 Cloudy	Use for pictures taken under cloudy skies.
 Speedlight	White balance adjusted to match light produced the flash.

At settings other than **Auto**, the current white balance setting is shown in the monitor.



Preset White Balance

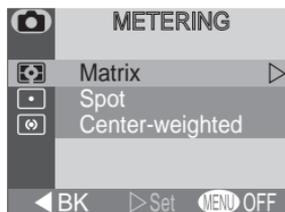
Preset white balance is used to adjust white balance when shooting under mixed lighting or to compensate for light sources with a strong color cast (for example, to make pictures taken under a lamp with a red shade look as though they had been taken under white light). When  (**White bal preset**) is selected from the white-balance menu, the menu shown at right will be displayed in the monitor.



Option	Description
Cancel	Recalls the most recent setting for preset white balance from memory and sets white balance to this value.
Measure	To measure a new value for white balance, place a neutral gray object under the lighting that will be used in the final photograph. Frame this object so that it fills the square in the center of the menu shown above. Highlight Measure and press the multi selector to the right to measure a new value for white balance (shutter will be released, but no picture will be recorded).

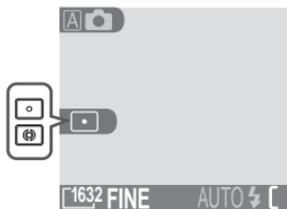
Measuring Light: Metering

The options in the metering menu determine how the camera sets exposure.



Option	How it works	When to use it
 Matrix	Compares measurements from sixty areas of frame with library of typical compositions to produce optimal exposure for entire picture.	Best choice in most circumstances.
 Spot	Camera meters area at center of frame equivalent to about $\frac{1}{60}$ of total. Metered area shown by square in monitor.	Ensures that subject in center of frame will be correctly exposed even if background is very bright or very dark.
 Center-weighted	Camera meters entire frame but assigns greatest weight to area in center of frame occupying about $\frac{1}{15}$ of total.	Classic meter for portraits; preserves background details while letting lighting conditions at center of frame determine exposure.

At settings other than **Matrix**, the current metering setting is indicated by an icon in the monitor.



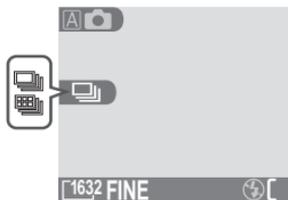
Taking Pictures in a Sequence: *Continuous*

The options in the “continuous” menu are used to take pictures in a continuous sequence. This can be useful when, for example, you are trying to capture a fleeting expression on a portrait subject, or photograph a subject that is moving unpredictably. With the **Multi-shot 16** option, you can record movement in a single picture consisting of sixteen consecutive frames.



Option	Description
 Single	Camera takes one picture each time the shutter-release button is pressed all the way down.
 Continuous	Camera continues to take pictures as long as shutter-release button is held down.
 Multi-shot 16	Each time the shutter-release button is pressed, the camera takes sixteen consecutive “thumbnail” images and arranges them in a single picture consisting of four rows of four images each.

At settings other than **Single**, the current “continuous” setting is indicated by an icon in the monitor.



Flash, Focus Exposure, White Balance, and Digital Zoom

At settings of **Continuous** and **Multi-shot 16**, the flash turns off, and focus distance, exposure, and auto white balance are determined by the first picture in each series. Digital zoom can not be used.

Getting Sharper Pictures: *BSS (Best Shot Selector)*

The “Best Shot Selector” (BSS) is recommended for situations in which inadvertent camera movement can produce blurred pictures, for example when:

- the camera is zoomed in
- the flash can not be used although lighting is poor



BSS may not produce the desired results with a moving subject or if you change the composition while the shutter-release button is pressed all the way down.

Option	Description
On	Camera takes photos as long as the shutter-release button is held down, to a maximum of ten. These images are then compared and the sharpest photo (the image with the highest level of detail) saved to the memory card. The flash turns off, and focus distance, exposure, and auto white balance are determined by the first photograph in the series.
Off	BSS off; camera functions normally.

When BSS is on, a **BSS** icon appears in the monitor.



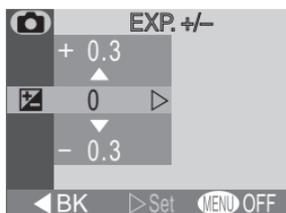
Restrictions on BSS

BSS is not available at CONTINUOUS settings other than **Single**. Selecting **Continuous** or **Multi-Shot 16** automatically cancels BSS. Digital zoom can not be used while BSS is on.

Adjusting Exposure: *Exp. +/-*

The **Exp. +/-** (exposure compensation) menu allows you to alter exposure from the value suggested by the camera, making pictures brighter or darker.

At values other than ± 0 , exposure compensation is shown in the monitor.



Choosing an Exposure Compensation Value

As a rule of thumb, select *positive* values when large areas of the frame are very bright (for example, when photographing an expanse of sunlit water, sand, or snow) or when the background is much brighter than the main subject. Use *negative* values when large areas of the frame are very dark (for example, when photographing a forest of dark green leaves) or when the background is much darker than the main subject. This is because the camera, in order to avoid extreme over- or under-exposure, tends to lower exposure when the frame is very bright and raise exposure when the frame is very dark, which can make naturally bright subjects look dim and naturally dark subjects appear over-bright, or “washed out.”

The easiest way to choose an exposure compensation value is to examine the view through the lens in the monitor. If image appears too dark, raise exposure compensation. If it is too bright, lower compensation. Continue to adjust exposure until the desired result has been achieved.

Making Edges More Distinct: *Image Sharpening*

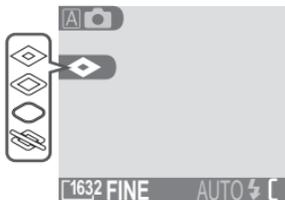
The camera automatically processes pictures to emphasize the borders between light and dark areas of each picture, making the image seem sharper. As this processing takes place after shooting, the effects of sharpening cannot be previewed in the monitor, but they will be visible in the final picture. The image-sharpening menu gives you control over the amount of sharpening performed.



Option	Description
Auto	Camera sharpens edges for optimal results; adjustment performed differs from image to image.
High	Image processed to increase sharpness, making edges more distinct.
Normal	Camera performs same standard level of sharpening on all images.
Low	Amount of sharpening reduced below normal level.
Off	No sharpening performed.

When taking pictures that will later be retouched, choose settings of **Normal** or **Low**.

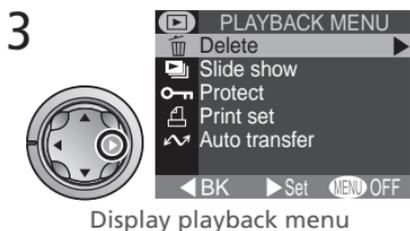
At settings other than **Auto**, an image-sharpening icon appears in the monitor.



The Playback Menu

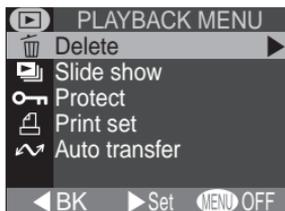
Managing Pictures

The playback menu is available when the mode dial is set to . To view the playback menu:



To make a selection from the playback menu, use the multi selector as described in steps 4–7 on page 54.

The playback menu contains the following options:

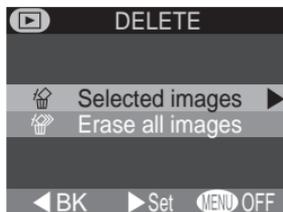


Option	
Delete	66–67
Slide show	68–69
Protect	70
Print set	71–72
Auto transfer	73

Deleting Pictures: *Delete*

The **Delete** menu contains the following options:

Option	Description
Selected images	Delete selected photographs and movies.
Erase all images	Delete all pictures.



Deleting Selected Photographs and Movies

Choosing **Selected images** from the **Delete** menu displays the pictures on the memory card as thumbnail images. To select pictures for deletion:

1



Highlight picture

2



Press multi selector up or down to select picture for deletion. Selected pictures are marked by  icon. Repeat steps 1 and 2 to select additional pictures for deletion. To deselect picture, highlight and press multi selector up or down. To exit without deleting pictures, press MENU button.

3

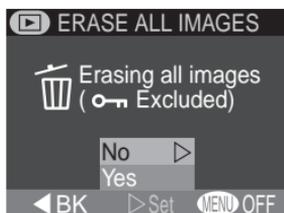


Press **QUICK** to display a confirmation dialog. Press multi selector up or down to highlight option, press to right to select:

- Select **No** to return to playback menu without deleting pictures
- Select **Yes** to delete all selected pictures

Deleting All Photographs and Movies

Selecting **Erase all images** from the **Delete** menu displays the confirmation dialog shown at right.



Option	Description
No	Return to playback menu without deleting pictures.
Yes	Delete all unprotected pictures on memory card.

Selecting Pictures for Deletion

No more than fifty pictures can be selected at one time using the **Delete** > **Selected images** option. At the fifty-first picture, the message “IMAGE CANNOT BE SAVED” will be briefly displayed and you will be returned to the thumbnail menu. Any pictures after the fiftieth will not be selected for deletion when you press the **QUICK** button.

Before Deletion

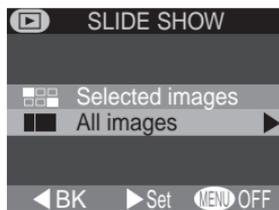
Once deleted, pictures can not be recovered. Be sure that any pictures you would like to keep have been transferred to your computer.

Protected Pictures

Pictures marked with a **Protected** icon are protected and can not be selected for deletion.

Automated Playback: Slide Show

Use this option to play pictures back one after the other in an automated “slide show.” The slide show menu contains the following options:



Option	Description
Selected images	Slide show includes only the pictures in the current print order (71).
All images	Slide show includes all pictures on the memory card.

Selecting either of the above options displays the menu shown at right. To start the show, highlight **Start** and press the multi selector to the right. Pictures will be played back one-by-one in the order recorded, with a pause to view each picture. Movies will be played back as still images showing the movie's first frame. During the show, you can:



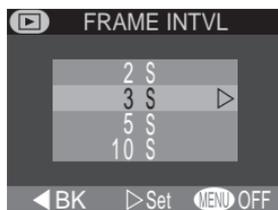
Operation	Description
Press QUICK button to pause slide show	Menu at right will be displayed. To restart slide show, highlight Restart and press multi selector to right.
Press MENU button to exit slide show	Camera returns to full-frame playback.



When the slide show ends, the pause menu shown above will be displayed.

Changing the Display Interval

Selecting **Frame Intvl** from the SLIDE SHOW or PAUSE menus displays the menu shown at right. To change the length of time each image is displayed, highlight the desired option and then press the multi selector to the right to restart the slide show.



"Selected Images"

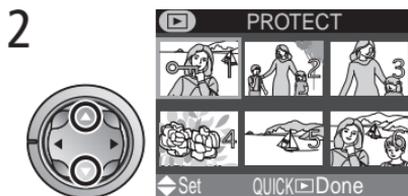
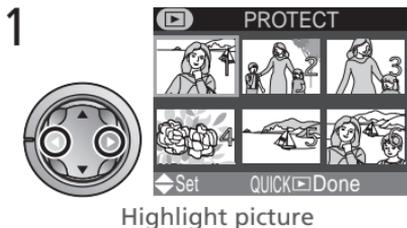
The maximum number of images that can be selected for display in a slide show is 999.

Frame Interval

Owing to differences in file size and the speed at which pictures can be read from the memory card, the actual frame interval may differ from the value selected in the FRAME INTVL menu.

Safeguarding Valuable Pictures: **Protect**

Selecting **Protect** from the playback menu displays the menu shown at right, where you can select pictures to protect from accidental deletion. Protected files can not be deleted in review, single-image playback, or from the **Delete** sub-menu. Note, however, that protected pictures *will* be deleted when the memory card is formatted.



Press multi selector up or down to select picture. Selected pictures are marked by  icon. Repeat steps 1 and 2 to select additional pictures. To deselect picture, highlight and press multi selector up or down.



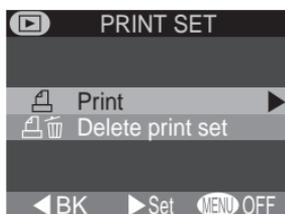
Press **QUICK Done** to complete operation. To exit **Protect** menu without changing protected status of pictures, press **MENU** button.

Selecting Pictures for Protection

No more than fifty pictures can be selected at one time. At the fifty-first picture, the message "Image cannot be saved" will be briefly displayed and you will be returned to the thumbnail menu. Press **QUICK Done** to protect the fifty pictures currently selected and exit the **Protect** menu. To protect additional pictures, select **Protect** from the playback menu.

Ordering Prints: *Print Set*

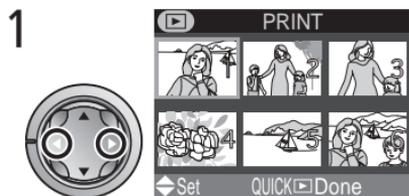
Selecting **Print set** from the playback menu displays the menu shown at right. Using the **Print** option, you can specify the pictures to be printed, the number of prints, and the information to be included on each print. This information is stored on the memory card in Digital Print Order Format (DPOF). Once a print order has been created, the memory card can be removed from the camera and inserted in any DPOF-compatible device—be it your personal photo printer or a photofinisher's print system—and pictures printed directly from the card.



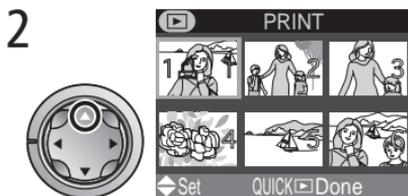
Option	Description
Print	Create or modify print order.
Delete print set	Cancel the current print order.

Selecting Pictures for Printing

To create a print order, or to modify the existing print order, highlight **Print** in the print set menu and press the multi selector to the right. The menu shown at right will be displayed. To select pictures for printing:

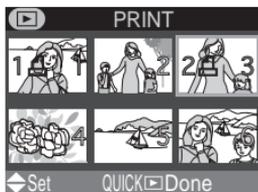


Highlight pictures



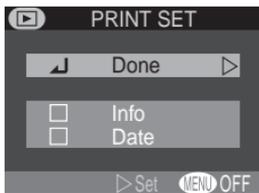
Press multi selector up to select picture. Selected pictures are marked by icon.

3



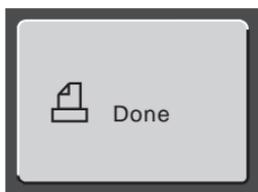
Use multi selector to specify number of prints. Press up to increase (maximum 9), down to decrease. To deselect picture, press multi selector down when number of prints is 1. Repeat steps 1–3 to select additional pictures. To exit without altering print order, press MENU button.

4



Press **QUICK Done** to complete operation and display menu of print options. To highlight option, press multi selector up or down.

- To print shutter speed and aperture on all selected photographs, highlight **Info** and press multi selector to right. Check will appear in box next to item.
- To print date of recording on all selected photographs, highlight **Date** and press multi selector to right. Check will appear in box next to item.
- To deselect a checked item, highlight and press multi selector to right.
- To complete print order and return to playback, highlight **Done** and press multi selector to right. To exit without altering print order, press MENU button.



Canceling the Current Print Order

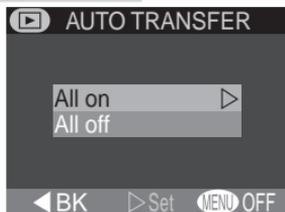
To cancel the current print order when it is no longer needed, select **Delete print set** from the print set menu.

Selecting Pictures for Printing

No more than fifty pictures can be selected at one time. At the fifty-first picture, the message “Image cannot be saved” will be briefly displayed and you will be returned to the thumbnail menu. Press **QUICK Done** to add the fifty pictures currently selected to the print order and exit the thumbnail menu. To select additional pictures for printing, choose **Print** from the **Print set** menu.

Marking All Pictures for Transfer: *Auto Transfer*

To turn transfer marking ( 7) on or off for all pictures simultaneously, select **Auto transfer** from the playback menu. The following options will be displayed:



Option	Description
All on	Mark all pictures on the memory card for transfer to a computer.
All off	Remove transfer marking from all pictures on the memory card.

Transferring More than 999 Pictures

While the **Auto transfer** option can be used to select all pictures on the memory card for transfer to a computer, note that no more than 999 pictures can be marked for transfer ( 32). If the memory card contains more pictures, Nikon View 5 can be used to transfer all pictures on the memory card. See the *Nikon View 5 Reference Manual* (on CD) for details.

Marking Pictures for Transfer with Other Cameras

Pictures selected for transfer with another model of Nikon digital camera can not be transferred when the memory card is inserted in the COOLPIX 2000. Use the COOLPIX 2000 to reselect the images.

Selecting Pictures for Slide Shows

The **Print Set > Print** option can be used to select the pictures that will be played back during a slide show. When **Selected images** is chosen in the **Slide show** menu, only the images in the current print order will be played back. See “Automated Playback” ( 68) for more information.

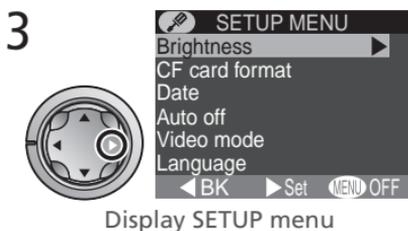
The Setup Menu

Camera Setup

SETUP

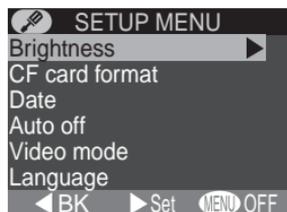
Menu Guide—The Setup Menu

The setup menu, which is available in all modes except movie mode, contains options for basic camera setup. To display the setup menu:



To make a selection from the setup menu, use the multi selector as described in steps 4–7 on page 54.

The SETUP menu contains the following options:



Option	
Brightness	75
CF card format	75
Date	13–14
Auto off	76
Video mode	76
Language	12
USB	77–78

“Date” and “Language”

The **Date** and **Language** options are described in “Introduction: First Steps” (9).

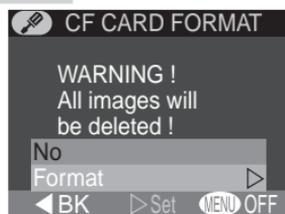
Adjusting Monitor Brightness: *Brightness*

This option controls monitor brightness. Press the multi selector up or down to increase or decrease the brightness of the monitor by moving the arrow to the right of the display up or down.



Formatting Memory Cards: *CF Card Format*

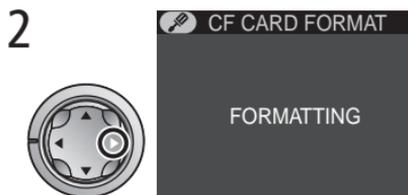
The memory card provided with your camera is formatted at shipment. If you purchase additional memory cards for added storage, you will however need to format the cards before first use to ensure that they work properly in your camera. Formatting memory cards is also an effective way of deleting all pictures on the card. Note that *formatting permanently deletes all data, including protected pictures*. Before formatting, be sure to transfer to a computer any pictures you would like to keep.



Selecting **CF card format** displays the confirmation dialog shown above. To format the memory card:



Highlight **Format** (to exit without formatting card, highlight **No** and press multi selector to right)



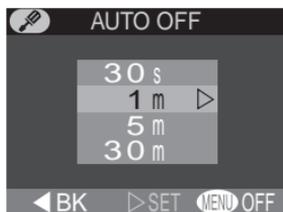
Formatting begins immediately. During formatting, message shown above will be displayed.

✓ During Formatting

Do not remove the memory card, remove the battery, or unplug the AC adapter (available separately) while formatting is in progress.

Conserving Battery Power: **Auto Off**

When operated on battery power, the camera will turn off automatically if no operations are performed for the amount of time chosen in the **Auto off** menu. When the camera turns off automatically, the lens will return to the camera body and the lens cover will close. To reactivate the camera, turn the power switch off and then on again.



The time limit for **Auto off** can be chosen from thirty seconds (**30 s**), one minute (**1 m**, the default setting), five minutes (**5 m**), and thirty minutes (**30 m**).

Choosing a Video Standard: **Video Mode**

Use the **Video mode** option to select a standard for video output. Choose a setting that matches the standard used in any video device to which you connect the camera.



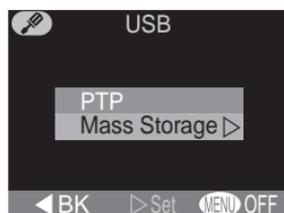
Option	Description
NTSC	Use when connecting to NTSC devices.
PAL	Use when connecting to PAL devices. If video cable is connected at this setting, camera monitor will turn off.

Auto Off

When powered by the EH-53 AC adapter (available separately), the camera will remain on for thirty minutes if no operations are performed, regardless of the setting in the **Auto off** menu.

Choosing a USB Protocol: **USB**

Before pictures can be copied to a computer via direct USB connection (🔑 33), you will need to select a USB transfer protocol that matches that used by your computer's operating system. Your camera supports two protocols: PTP (Picture Transfer Protocol) and Mass Storage.



Protocol	Description
PTP	Choose this option when connecting the camera to a computer running Windows XP Home Edition, Windows XP Professional, or Mac OS X (version 10.1.2 or later).
Mass Storage	Choose this option when connecting the camera to a computer running Windows 2000 Professional, Windows Millennium Edition (Me), Windows 98 Second Edition (SE), or Mac OS 9.0, 9.1, or 9.2.

Mac OS X

Pictures can not be transferred using the  () button in Mac OS X 10.1.2. Use the  button in Nikon View 5 to transfer pictures. See the *Nikon View 5 Reference Manual* (on CD) for details. The camera  () button can be used to transfer images in Mac OS X 10.1.3 or later.

 **Windows 2000 Professional, Windows Millennium Edition (Me), Windows 98 Second Edition (SE), Mac OS 9**

Do *not* select **PTP** when connecting the COOLPIX 2000 to a computer running one of the above operating systems (there is no need to change the USB setting when using the camera for the first time, as **Mass Storage** is selected at shipment).

If you have already changed the USB setting to **PTP**, be sure to select **Mass Storage** before connecting the camera to your computer.

If you have connected the camera to a computer running one of the above operating systems with **PTP** selected in the **USB** menu, disconnect the camera as described below. Be sure to select **Mass Storage** in the **USB** menu before reconnecting the camera.

Windows 2000 Professional

A dialog will be displayed welcoming you to the Found New Hardware Wizard. Click **Cancel** to close the dialog, and then disconnect the camera.

Windows Millennium Edition (Me)

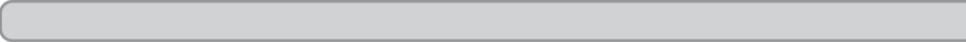
After displaying a message stating that the hardware information database is being updated, the computer will start the Add New Hardware Wizard. Click **Cancel** to exit the wizard, and then disconnect the camera.

Windows 98 Second Edition (SE)

The Add New Hardware Wizard will be displayed. Click **Cancel** to exit the wizard, and then disconnect the camera.

Mac OS 9

A dialog will be displayed stating that the computer is unable to use the driver needed for the "Nikon Digital Camera E2000_PTP" USB device. Click **Cancel** to close the dialog, and then disconnect the camera.



Technical Notes

Camera Care, Options, and Resources

This chapter provides tips on cleaning and storing your camera, a list of optional accessories available for the COOLPIX 2000, information on where to get help on line, troubleshooting advice, and camera specifications.

Optional Accessories

At the time of writing, the following optional accessories were available for the COOLPIX 2000. Contact your retailer or local Nikon representative for details.

AC adapter EH-53 AC adapter

Carrying case CS-CP12 soft case

CompactFlash™ memory card adapters EC-AD1 PC-card adapter

Monitor hood HL-CP11 monitor hood

Approved Memory Cards

In addition to the card provided with your camera, the following memory cards have been tested and approved for use in the COOLPIX 2000:

<i>Nikon</i>	EC-CF series	All capacities
<i>SanDisk</i>	SDCFB series	16 MB, 32 MB, 48 MB, 64 MB, 96 MB, 128 MB
<i>Lexar Media</i>	4× USB series	8 MB, 16 MB, 32 MB, 48 MB, 64 MB, 80 MB
	8× USB series	8 MB, 16 MB, 32 MB, 48 MB, 64 MB, 80 MB
	10× USB series	128 MB, 160 MB

Operation is not guaranteed with other makes of memory card. For more details on the above cards, please contact the manufacturer.

Caring for the Camera and Battery

To ensure continued enjoyment of your Nikon product, observe the following precautions when using or storing the device:

- ✔ **Keep dry**
The device will be damaged if immersed in water or subjected to high levels of moisture.
- ✔ **Do not drop**
The product may malfunction if subjected to strong shocks or vibration.
- ✔ **Do not apply force to moving parts**
Do not apply force to the lens, lens cover, battery-chamber cover, memory card slot cover, or the connector covers. These parts are especially susceptible to damage.
- ✔ **Avoid sudden changes in temperature**
Sudden changes in temperature can cause condensation inside the device, particularly in humid environments.
- ✔ **Turn the product off before removing or disconnecting the power source**
Before disconnecting the AC adapter (available separately) or removing the batteries, turn the device off after ensuring that it has completed any operations that may be in progress, including recording or deletion. After turning the camera off, wait for the flash-ready lamp to go out before removing the batteries or disconnecting the AC adapter.
- ✔ **Keep away from strong magnetic fields**
Strong magnetic fields can damage electronic products.

Storage

When storing the for an extended period, choose a location with a humidity of under 60% and a temperature of between $-10\text{ }^{\circ}\text{C}$ ($14\text{ }^{\circ}\text{F}$) and $+50\text{ }^{\circ}\text{C}$ ($122\text{ }^{\circ}\text{F}$).

Cleaning

For optimum results when cleaning the lens or monitor, use a blower to remove dust and debris. To remove fingerprints, wipe the lens gently in a circular motion using a lint-free or specialist lens cleaning cloth. To clean the body, use a cloth lightly dampened with fresh water and then dry thoroughly.

Do not use alcohol, thinner, or other volatile chemicals.

Avoid Contact with Liquid Crystal

Should the monitor break, care should be taken to avoid injury due to broken glass and to prevent the liquid crystal from the monitor touching the skin or entering the eyes or mouth.

Notes on the Monitor

When you frame bright subjects, vertical comet-like streaks that whiten toward either end may appear in the monitor. This phenomenon, known as “smear,” does not appear in the final photograph and does not indicate a malfunction. Some smearing may appear in movies.

The monitor may contain a few pixels that are always lit or that do not light. This is a characteristic common to all TFT LCD monitors and does not indicate a malfunction. Images recorded with the product will not be affected.

Web Resources

At the time of writing, the following on-line resources were available for users of Nikon digital imaging equipment:

For Product Information and Tips

- For users in the USA: <http://www.nikonusa.com/>
- For users in Europe: <http://www.nikon-euro.com/>
- For users in Asia, Oceania, the Middle East, and Africa:
<http://www.nikon-asia.com/>

For Contact Information

Contact information for the Nikon representative in your area may be found at:
<http://www.nikon-image.com/eng/>

Troubleshooting

If your camera fails to function as expected, check the list of common problems below before consulting your retailer or Nikon representative. Refer to the page numbers listed in the rightmost column for information on solving the problems listed here.

Problem	Possible cause	
Monitor is blank	• Camera is off.	16
	• Battery is not correctly inserted.	9
	• Battery is exhausted.	17
	• EH-53 AC adapter (available separately) is not properly connected.	—
	• USB cable is connected.	73
	• Video cable is connected and Video mode is set to PAL.	76
Camera turns off immediately	• Battery is low.	17
	• Battery is cold.	82
No indicators appear in monitor	• Indicators are hidden. Press multi selector to left until indicators are displayed.	7
	• Slide show is in progress.	68

Problem	Possible cause	
Monitor is hard to read	<ul style="list-style-type: none"> • Ambient lighting too bright: go to darker location or use HL-CP11 monitor hood (sold separately). • Monitor is dirty. • Monitor brightness requires adjustment. 	80 82 75
No photo is taken when shutter-release button is fully pressed	<ul style="list-style-type: none"> • Camera is in playback mode. • Battery is exhausted. • Message “Memory Card full” appears in monitor: not enough memory remaining to record further pictures at current settings. • AF● indicator flashes red: camera unable to focus. • Flash-ready lamp flickers: flash is charging. • Message “Memory Card is not formatted” appears in monitor: memory card is not formatted for use in COOLPIX 2000. • Message “No Memory Card” appears in monitor: no memory card in camera. 	46 17 17 20 20 75 10
Photos are too dark (underexposed)	<ul style="list-style-type: none"> • Flash is off. • Flash window is blocked. • Subject is outside range of flash. • Exposure compensation is too low. 	43 19 90 63
Photos are too bright (overexposed)	<ul style="list-style-type: none"> • Exposure compensation is too high. 	63
Photos are out of focus	<ul style="list-style-type: none"> • Main subject was not object closest to camera when shutter-release button was pressed halfway. 	20
Photos are blurred	<ul style="list-style-type: none"> • Camera shook during shot. Blurring caused by camera shake can be reduced by: <ul style="list-style-type: none"> – Using the flash – Zooming the camera out – Using the Best-Shot Selector (BSS) – Using the self-timer – Using a tripod 	43 42 62 41 —
Randomly-spaced bright pixels (“noise”) appear in image	<ul style="list-style-type: none"> • Shutter speed too slow. Use the flash. • Noise reduction, which helps reduce noise at slow shutter speeds, is available in  (Night Portrait) mode. Using this scene when appropriate can reduce noise. 	43 27

Problem	Possible cause	
Flash does not fire	<ul style="list-style-type: none"> • Flash is off. Note that flash turns off automatically when: <ul style="list-style-type: none"> – Camera is in movie mode – Continuous or Multi-shot 16 is selected in the CONTINUOUS menu – BSS is on • Battery level is low. 	43 26 61 62 17
Colors are unnatural	<ul style="list-style-type: none"> • White balance does not match light source. 	58
No menu is displayed when MENU button is pressed	<ul style="list-style-type: none"> • Camera is in movie mode. 	26
Picture can not be played back	<ul style="list-style-type: none"> • Picture has been overwritten or renamed by a computer or other make of camera. 	—
Pressing SMALL PIC. button when picture is displayed full screen does not create small picture	<ul style="list-style-type: none"> • Picture is displayed in quick review. Small pictures can only be created in playback mode. • Picture is a movie. Small pictures can only be created from photos. • Picture is already a small picture. • There is not enough free space on the memory card for a small picture. 	22 52 51 51
Can not zoom in on picture during playback or review	<ul style="list-style-type: none"> • Picture is a movie. • Picture was created using small picture option. 	49
Television blank when camera connected via video cable	<ul style="list-style-type: none"> • Video cable not correctly connected. • Television not tuned to video channel. • Video mode setting does not match device. 	38
Nikon View 5 does not start when camera connected or memory card inserted in card reader or card slot	<ul style="list-style-type: none"> • Camera is off. • EH-53 AC adapter (available separately) is not properly connected, or battery is dead. • USB cable not correctly connected, or card not properly inserted in card reader, card adapter, or card slot. • Camera is not registered in Device Manager (Windows only). <p>See <i>Nikon View 5 Reference Manual</i> (on CD) for further information on troubleshooting Nikon View 5.</p>	16 — 33 —

Error Messages

The following table lists the error messages and other warnings that appear in the monitor and how to deal with them.

Display	Problem	Solution	
 (Flashes)	Clock calendar not set.	Set clock calendar to current date and time.	13–14
Warning ! ! Battery exhausted	Battery exhausted.	Turn camera off and replace battery.	17
AF● (● flashes red)	Camera cannot focus.	Use focus lock to focus on another subject at same distance, then recompose photograph.	20
	Slow shutter speed. Photos may be blurred.	Use the flash, or steady the camera by mounting it on a tripod, placing it on a level surface, or holding it in both hands with your elbows against your torso.	25, 44
	Pictures being recorded to memory card.	Icon clears from display automatically when recording is complete.	21
	Picture being read from memory card, movie being recorded to card, or picture being recorded in continuous mode.	Icon clears from display automatically when operation is complete.	52 61
Warning ! No menu	MENU button pressed in movie mode.	To use menus, turn mode dial to another setting.	10
 No Memory Card	Camera can not detect memory card.	Turn camera off and confirm that memory card is correctly inserted.	10
 Memory Card is not formatted Format No 	Memory card has not been formatted for use in COOLPIX 2000.	Press multi selector up to highlight FORMAT and press to right to format card, or turn camera off and replace card.	75

Display	Problem	Solution	
 This Card cannot be used	Error accessing memory card.	<ul style="list-style-type: none"> • Use approved card. • Check that connectors are clean. If card is damaged, contact retailer or Nikon representative. 	80
 This Card is incompatible			—
 Memory Card full	<i>Shooting mode:</i> Insufficient memory to record pictures at current settings.	<ul style="list-style-type: none"> • Reduce image quality or size. • Delete photographs. • Insert new memory card. 	56 66 10
	<i>Error occurs when you try to transfer images to computer:</i> Not enough space on memory card to record information needed for transfer.	Disconnect camera, delete unwanted photographs and try again.	66
 Image cannot be saved	<ul style="list-style-type: none"> • Memory card has not been formatted for use in camera. • Error encountered while saving photo. • More than 50 pictures selected for delete, protect, or print set. 	<ul style="list-style-type: none"> • Reformat memory card or insert new memory card. • Reformat memory card or insert new memory card. • Return to menu and select 50 or fewer pictures. 	75 10 75 10 67 70 72
Card contains no images	No pictures on memory card.	• Camera in quick review mode: half-press shutter-release button to return to shooting mode.	23
		• Camera in  mode: select another mode.	4
File contains no image data	File created by computer or different make of camera, or by other COOLPIX camera at image-quality setting of HI.	Delete file or reformat memory card.	66 75

Display	Problem	Solution	
No images are marked for transfer	No pictures marked for transfer when  button pressed to copy pictures to computer.	Disconnect camera and mark at least one picture for transfer before connecting camera again.	73
Transfer error	Error occurred while pictures were being transferred to a computer.	Check that the camera is properly connected and that the battery is fully charged.	33
Communications error	USB cable disconnected or memory card removed during transfer.	If computer displays error, click OK to exit Nikon View 5. Turn camera off, reconnect cable or replace card, and turn camera on.	10 33
	Protocol selected in USB menu does not match that used by computer operating system, causing error when  button is pressed.	Turn camera off and disconnect USB cable, then change USB selection in camera setup menu and reconnect camera. If error reoccurs, transfer pictures with Nikon View 5  button.	77
System error	Error has occurred in camera's internal circuitry.	Turn camera off, unplug optional AC adapter (if using) or remove and re-insert battery, and turn camera on. If error persists, contact retailer or Nikon representative.	10

A Note on Electronically-Controlled Cameras

In extremely rare instances, unusual characters may appear in the monitor and the camera may stop functioning. In most cases, this phenomenon is caused by a strong external static charge. Turn the camera off, remove and replace the battery, and turn the camera on again, or, if you are using an AC adapter (available separately), disconnect and reconnect the adapter and turn the camera on again. In the event of continued malfunction, contact your retailer or Nikon representative. Note that disconnecting the power source as described above may result in loss of any data not recorded to the memory card at the time the problem occurred. Data already recorded to the memory card will not be affected.

Specifications

Type	E2000 digital camera
Effective pixels	2.0 million
CCD	$\frac{1}{2.7}$ " high-density CCD; total pixels: 2.11 million
Image size (pixels)	<ul style="list-style-type: none"> • 1632 × 1224 (1632) • 640 × 480 (640) • 1024 × 768 (1024)
Lens	3 × Zoom Nikkor
Focal length	F = 5.8 – 17.4 mm (35-mm [135] camera format equivalent: 38 – 114 mm)
f/-number	f/2.8 – f/4.9
Construction	Seven elements in six groups
Digital zoom	2.5 × (during recording)
Autofocus (AF)	Contrast-detect through-the-lens (TTL) AF
Focus range	30 cm (1') – ∞; 4 cm (1.6") – ∞ in macro close-up mode
Focus mode	Single AF (continuous AF in macro close-up mode)
Monitor	1.5", 110,000-dot, low temperature polysilicon TFT LCD with brightness adjustment
Frame coverage	Approximately 95% vertical and 95% horizontal
Storage	
Media	Type I CompactFlash™ (CF) cards
File system	Compliant with Design rule for Camera File systems (DCF), Exif 2.2, and Digital Print Order Format (DPOF)
Compression	JPEG-baseline-compliant
Exposure	
Metering	60-segment matrix metering, spot, center-weighted
Exposure control	Programmed auto exposure with exposure compensation (–2.0 – +2.0 EV in steps of $\frac{1}{3}$ EV)
Range (ISO 100 equivalent)	W: 1.9 – 15.9 EV T: 3.5 – 17.6 EV

Shutter	Mechanical and charge-coupled electronic shutter
Speed	$1 - \frac{1}{1000} s$
Aperture	Electronically-controlled preset aperture
Range	Two steps
Sensitivity	Auto (ISO 50 equivalent with auto gain to ISO 100 equivalent)
Self-timer	Ten- and three-second duration
Built-in Speedlight	
Range	0.4 – 2.7 m (1'4" – 8'10") (W) 0.4 – 1.3 m (1'4" – 4'3") (T)
Flash control	Sensor flash system
Interface	USB
Power sources	<ul style="list-style-type: none">• Four LR6 (AA) batteries• EH-53 AC adapter (available separately)
Battery life	Approximately 60 minutes (measured at room temperature [20 °C/68 °F] under standard Nikon test conditions: zoom adjusted with each shot, flash used in approximately one third of photographs, image size set to 1632, image quality set to NORMAL)
Dimensions (W × H × D)	108 × 69 × 38 mm (4.2" × 2.7" × 1.5")
Weight	Approximately 190 g (6.8 oz) without battery or memory card
Operating Environment	
Temperature	0 – 40 °C (32 – 104 °F)
Humidity	Less than 80% (no condensation)



Design Rule for Camera File Systems (DCF)

Your camera names pictures according to the Design Rule for Camera File Systems (DCF), a standard widely used in the digital camera industry to ensure compatibility among different makes of camera.

System requirements (Nikon View 5): Windows

OS	Pre-installed versions of Windows XP Home Edition, Windows XP Professional, Windows 2000 Professional, Windows Me, Windows 98 SE
Models	Only models with built-in USB ports supported
CPU	300 MHz Pentium or better
RAM	64 MB or more recommended
Hard-disk space	25 MB required for installation, with additional free disk space of 10 MB plus double the capacity of camera memory card available on system disk when Nikon View 5 is running.
Video resolution	800 × 600 or better with High Color (True Color recommended)
Miscellaneous	CD-ROM drive required for installation

System requirements (Nikon View 5): Macintosh

OS	Mac OS 9.0, Mac OS 9.1, Mac OS 9.2, Mac OS X (10.1.2 or later)
Models	iMac, iMac DV, Power Macintosh G3 (Blue & White), Power Mac G4 or later, iBook, PowerBook G3 or later; only models with built-in USB ports supported
RAM	64 MB or more recommended
Hard-disk space	25 MB required for installation, with additional free disk space of 10 MB plus double the capacity of camera memory card available on start-up disk when Nikon View 5 is running.
Video resolution	800 × 600 or better with thousands of colors (millions of colors recommended)
Miscellaneous	CD-ROM drive required for installation

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