

Nikon

En

The Nikon Guide to Digital Photography
with the

COOLPIX 4800

DIGITAL CAMERA



CE

Trademark Information

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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 this Nikon product to prevent possible injury.

WARNINGS



Do not look at the sun through the viewfinder

Viewing the sun or other strong light source through the viewfinder could cause permanent visual impairment.



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 battery immediately, taking care to avoid burns. Continued operation could result in injury. After removing the battery, take the equipment to a Nikon-authorized service representative 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

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 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, take the product to a Nikon-authorized service representative for inspection after unplugging the AC adapter and removing the battery.



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:

- Before replacing the battery, turn the product off and make sure the power-on lamp has gone out. If you are using an AC adapter, be sure it is unplugged.
- Use only rechargeable Nikon EN-EL1 lithium-ion batteries (supplied) or six-volt 2CR5 (DL245) lithium batteries (available separately).
- When inserting the battery, do not attempt to insert it upside down or backwards.
- Do not short or disassemble batteries.
- Do not expose batteries to flame or to excessive heat.

- Do not immerse in or expose to water.
- Replace the terminal cover when transporting the battery. 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.
- When the battery is not in use, attach the terminal cover and store in a cool place.
- Immediately after use, or when the product is used on battery power for an extended period, the battery may become hot. Before removing the battery, turn the camera off and allow the battery to cool.
- Discontinue use immediately should you notice any change in the battery, 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 batteries or other small parts into their mouths.



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

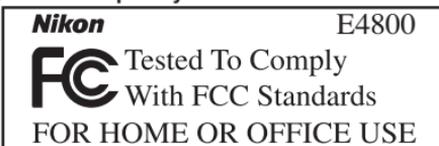
- No part of the manuals included with this product may be reproduced, transmitted, transcribed, stored in a retrieval system, or translated into any language in any form, by any means, without Nikon's prior written permission.
- Nikon reserves the right to change the specifications of the hardware and 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.

Notice for customers in the State of California

WARNING: Handling the cord on this product will expose you to lead, a chemical known to the State of California to cause birth defects or other reproductive harm. *Wash hands after handling.*

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

Note that simply being in possession of material that has been digitally copied or reproduced by means of a scanner, digital camera or other device may be punishable by law.

• Items prohibited by law from being copied or reproduced

Do not copy or reproduce paper money, coins, securities, government bonds, or local government bonds, even if such copies or reproductions are stamped "Sample."

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.

The copying or reproduction of stamps issued by the government and of certified documents stipulated by law is prohibited.

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The government has issued cautions on copies or reproductions of securities issued by private companies (shares, bills, checks, gift certificates, etc.), commuter passes, or coupon tickets, except when a minimum of necessary copies are to be provided for business use by a company. Also, do not copy or reproduce passports issued by the government, licenses issued by public agencies and private groups, ID cards, and tickets, such as passes and meal coupons.

• Comply with copyright notices

The copying or reproduction of copyrighted creative works such as books, music, paintings, woodcut prints, maps, drawings, movies, and photographs is governed by national and international copyright laws. Do not use this product for the purpose of making illegal copies or to infringe copyright laws.

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Before Taking Important Pictures

Before taking pictures on important occasions (such as at weddings or before taking the camera on a trip), take a test shot to ensure that the camera is functioning normally. Nikon will not be held liable for damages or lost profits that may result from product malfunction.

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.europe-nikon.com/support>
- 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://nikonimaging.com/>

Use Only Nikon Brand Electronic Accessories

Nikon COOLPIX cameras are designed to the highest standards and include complex electronic circuitry. Only Nikon brand electronic accessories (including battery chargers, batteries, AC adapters, and Speedlights) certified by Nikon specifically for use with this 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 THE CAMERA AND MAY VOID YOUR NIKON WARRANTY. The use of third-party rechargeable Li-ion batteries not approved by Nikon could interfere with normal operation of the camera or result in the batteries overheating, igniting, rupturing, or leaking.

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

Introduction

Thank you for your purchase of a Nikon COOLPIX 4800 digital camera. This manual has been written to help you enjoy taking pictures with your Nikon digital camera. Read this manual thoroughly before use, and keep it where all those who use the product will read it.

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



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



This icon marks notes, information that should be read before using the camera.



This icon marks tips, additional information that may be helpful when using the camera.



This icon indicates that more information is available elsewhere in this manual or in the *Quick Start Guide*.

Memory Cards

Pictures taken with this camera can be stored in the camera's internal memory or on removable memory cards. If a memory card is inserted, all new pictures will be stored on the memory card and delete, playback, and format operations will apply only to the pictures on the memory card. The memory card must be removed before the internal memory can be formatted or used to store, delete, or view pictures.

Introduction

First Steps

Basic Photography

Scene Mode

More on Photography

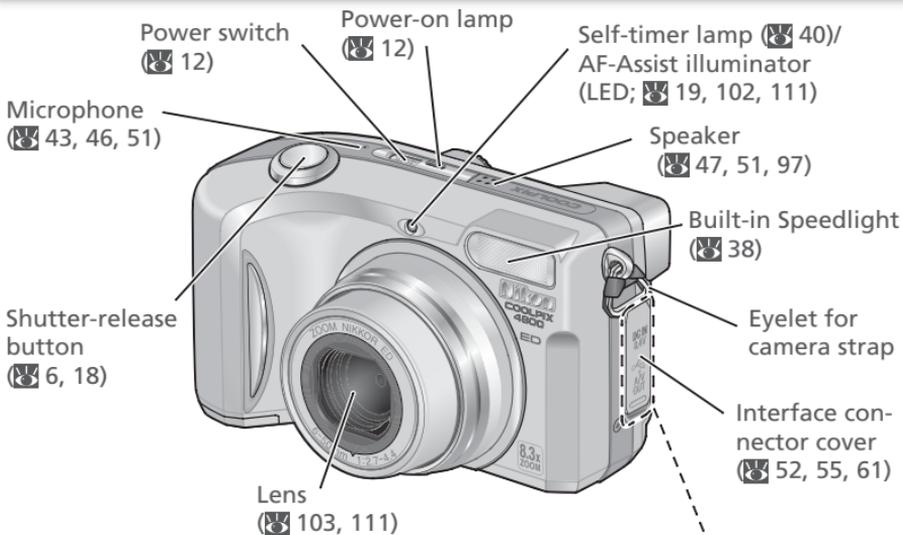
Movies

More on Playback

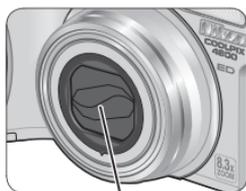
Menu Guide

Technical Notes

Parts of the Camera



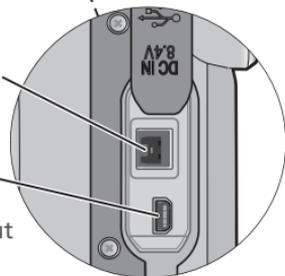
Lens not extended



Lens cover

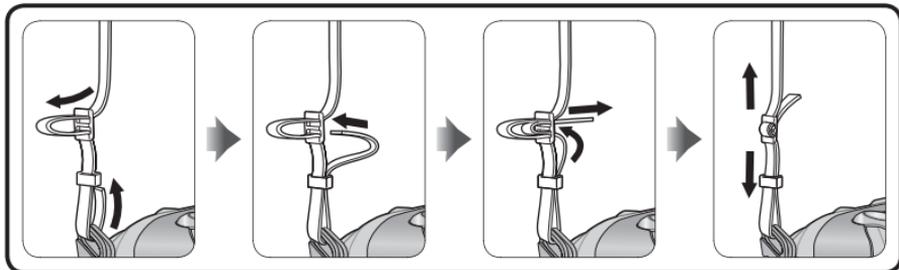
DC-IN connector (9)

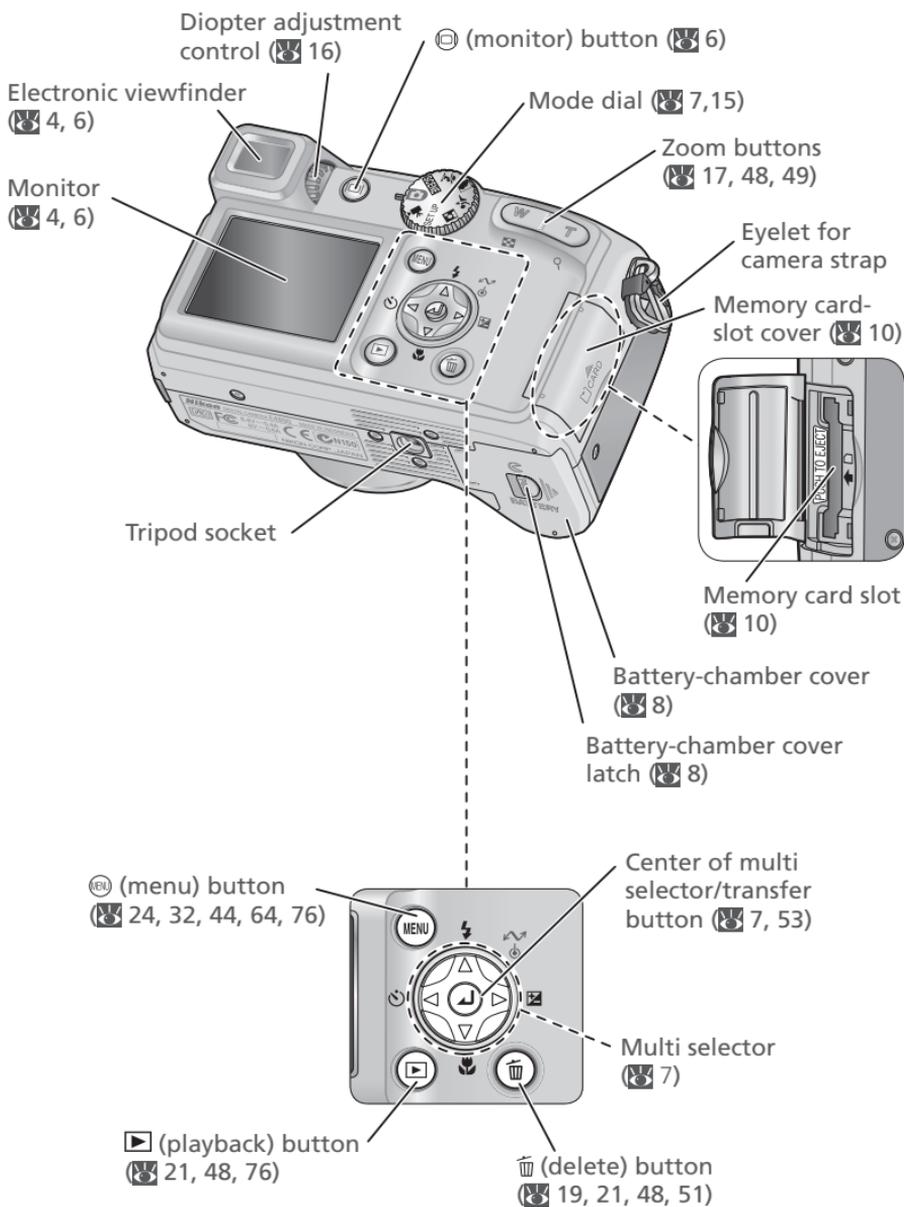
USB (digital I/O) (55, 61)/
Audio/video (A/V) out (52) connector



Attaching the Camera Strap

Attach strap as shown below. Repeat for second eyelet.

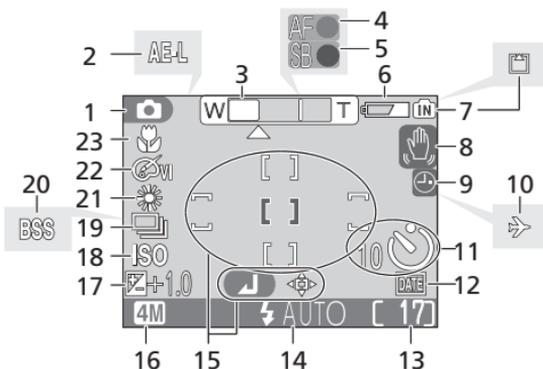




Monitor/Electronic Viewfinder

Shooting

The following indicators appear in the monitor and electronic viewfinder during shooting.

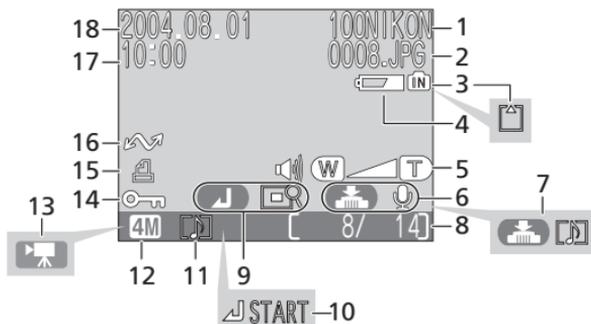


- | | | | |
|--|-------------|---|--------|
| 1 Shooting mode | 7, 15 | 13 Number of exposures remaining | 15, 66 |
| 2 Exposure lock | 36 | Movie length..... | 43, 46 |
| 3 Zoom indicator ¹ | 17 | 14 Flash mode | 38 |
| 4 Focus indicator ² | 18 | 15 Focus areas and focus-area selection guide..... | 27, 74 |
| 5 Flash indicator ² | 18 | 16 Image mode..... | 65 |
| 6 Battery level indicator ³ | 15 | 17 Exposure compensation | 42 |
| 7 Internal memory/memory card indicator | 15 | 18 Sensitivity gain indicator | 27, 71 |
| 8 Camera shake icon ⁴ | 33, 39, 105 | 19 Continuous shooting mode..... | 69 |
| 9 "Date not set" icon ⁵ | 13 | 20 Best Shot Selector (BSS)..... | 70 |
| 10 Time zone indicator | 94 | 21 White balance | 67 |
| 11 Self-timer indicator..... | 40 | 22 Color option | 75 |
| 12 Date imprint indicator | 95 | 23 Macro close-up mode | 41 |

- 1 Displayed when zoom buttons are pressed.
- 2 Displayed when shutter-release button is pressed halfway.
- 3 Appears when batteries are running low.
- 4 Appears at slow shutter speeds to warn that pictures may be blurred.
- 5 Appears when camera clock has not been set.

Playback

The following indicators appear in the monitor during playback.

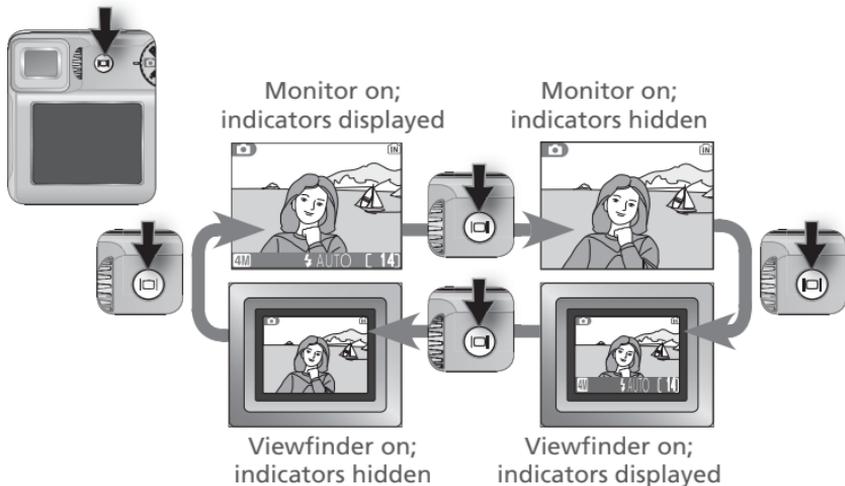


- | | |
|--|--|
| <ul style="list-style-type: none"> 1 Current folder 23 2 File number and type 23 3 Internal memory/memory card indicator 15 4 Battery level indicator¹ 15 5 Volume indicator 47, 51 6 Voice memo recording guide... 51 7 Voice memo playback guide.... 51 8 Current frame number/
total number of frames 23 Movie length..... 47 | <ul style="list-style-type: none"> 9 Quick playback zoom indicator.. 22 10 Movie playback indicator..... 47 11 Voice memo icon 51 12 Image mode..... 65 13 Movie indicator 43 14 Protect icon..... 82 15 Print-order icon 58 16 Transfer icon 83 17 Time of recording..... 13 18 Date of recording..... 13 |
|--|--|

¹ Appears when batteries are running low.

The Button

The electronic viewfinder can be used to frame pictures when bright ambient lighting conditions make it difficult to see the display in the monitor. Use the  button to switch between the monitor and electronic viewfinder, and to view and hide indicators in the shooting display.



The Shutter-Release Button

The camera has a two stage shutter-release button. When the button is pressed halfway, the camera sets focus and exposure and the focus indicator  18) is displayed in monitor or electronic viewfinder. Focus and exposure will remain locked while the shutter-release button is pressed halfway. To take the picture, press the shutter-release button the rest of the way down.



The Mode Dial

To select a mode, align the mode icon with the “**■**” mark next to the mode dial.



SCENE Scene (32)

Choose from eleven “scenes” suited to different subjects or shooting conditions and let the camera do the rest.

Auto (15)

A simple “point-and-shoot” mode in which the majority of settings are controlled by the camera. A shooting menu offers control over nine shooting options.

Movie (43)

Choose from three movie modes.



Portrait Assist

Landscape Assist

Sports Assist

Night Portrait Assist

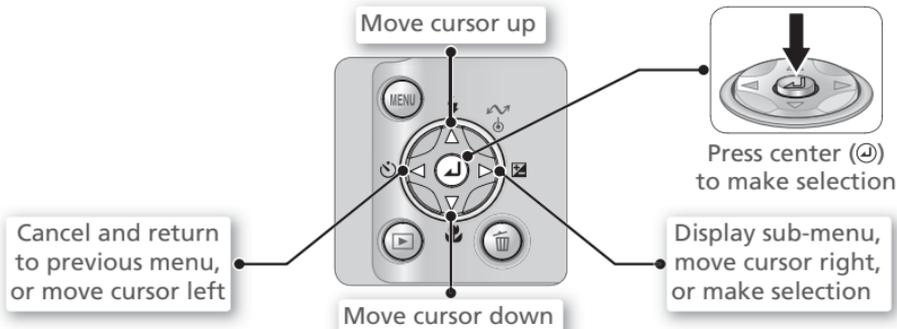
Use framing assist to compose pictures suited to a particular type of subject (25–31).

SET UP Setup (91)

Choose this mode to display the setup menu, where you can perform such tasks as setting the camera clock and adjusting monitor brightness.

Navigating the Menu

The multi selector is used to navigate through the camera menus.



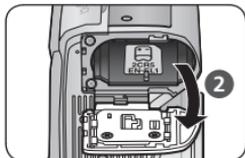
First Steps

Inserting Batteries

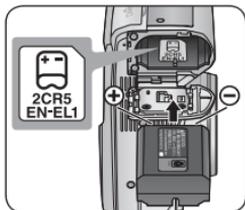
Your camera uses either of the following batteries:

Battery	Description
Rechargeable Nikon EN-EL1 lithium-ion batteries (x1)	<ul style="list-style-type: none">• Provided with camera• Can be recharged using supplied MH-53 battery charger (be sure to charge battery before using camera for first time or after long period of disuse). About two hours are required to charge battery when no charge remains.
Six-volt 2CR5 (DL245) lithium batteries (x1)	<ul style="list-style-type: none">• Available at many retail outlets• Not rechargeable

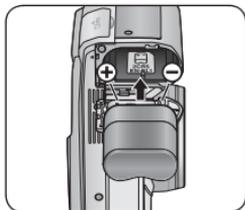
First Steps



- 1** Open the battery-chamber cover
Pressing battery-chamber cover latch, slide the cover in the direction shown (1) and open the cover (2).



EN-EL1

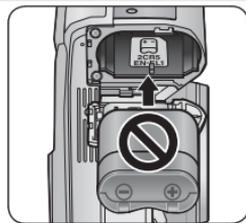


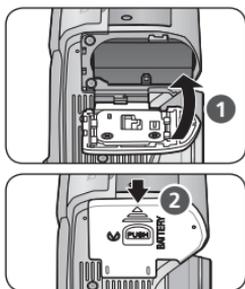
2CR5

- 2** Insert the battery
Insert the battery as shown in the label at the entrance to the battery chamber, making sure that the positive (“+”) and negative (“-”) terminals are in the correct orientation.

✓ Inserting Batteries

Inserting the battery upside down or backwards could damage the camera. Check to be sure the battery is in the correct orientation.





- 3** Close the battery-chamber cover
Close the cover (1) and slide it in until it latches (2).

✓ Replacing Batteries

Turn the camera off before removing or inserting batteries. Do not open the battery-chamber cover while the power-on lamp is lit. To remove the battery, open the battery-chamber cover and slide the battery out. Note that the battery may become hot during use; observe due caution when removing the battery.

✓ Read Battery Warnings

Read and follow the battery warnings and cautions on pages i–ii and 104 of this manual, together with any warnings and instructions supplied by the battery manufacturer.

🔌 Alternative Power Sources

To power the camera continuously for extended periods, use an EH-54 AC adapter. Do not, under any circumstances, use another make or model of AC adapter. Failure to observe this precaution could result in overheating or in damage to the camera.



Inserting Memory Cards

Pictures are stored on the camera's 13.5 MB internal memory or on removable Secure Digital (SD) memory cards. For information on compatible memory cards, see "Technical Notes: Optional Accessories" (📖 101).

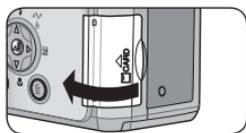
If no memory card is inserted, pictures are recorded to, and played back and deleted from, the camera's internal memory. Formatting (📖 98) affects internal memory only.

If a memory card is inserted, the card is used for recording, playback, and deletion. Formatting affects only the memory card, not internal memory. *The memory card must be removed from the camera* before internal memory can be formatted or used to record, delete, or view pictures.

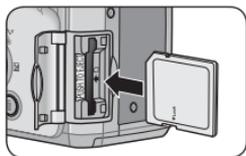
To insert a memory card:



- 1 Confirm that the camera is off
The power-on lamp should be off.



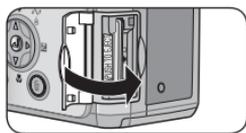
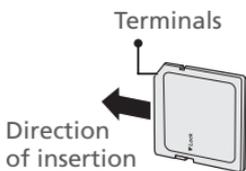
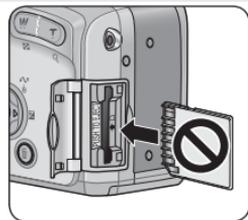
- 2 Open the memory card slot cover



- 3 Insert the memory card
Insert the memory card as shown in the label at the entrance to the memory card slot.

✓ Inserting Memory Cards

Insert the memory card terminals first. Inserting the card upside down or backwards could damage the camera or the card. Check to be sure the card is in the correct orientation.



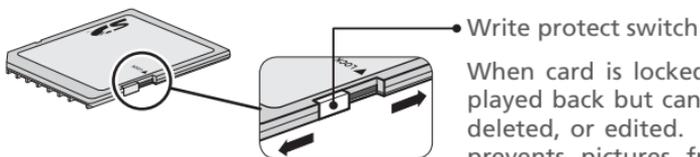
- 4 Close the memory card slot cover

Formatting Memory Cards

Memory cards must be formatted before first use. *Use the format option in the camera setup menu to format memory cards*; the camera may be unable to access memory cards that have been formatted in a computer or other device. For information on formatting memory cards, see “The Setup Menu: Format Card” ( 98).

The Write Protect Switch

SD cards are equipped with a write protect switch to prevent accidental loss of data. When this switch is in the “lock” position, pictures can not be recorded, deleted, or edited, and the card can not be formatted. Do not lock the card when taking, deleting, or editing pictures or when transferring pictures to a computer ( 53).

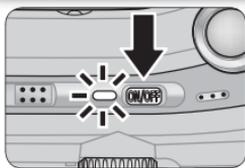


When card is locked, pictures can be played back but can not be recorded, deleted, or edited. Locking card also prevents pictures from being transferred using center of multi selector ( button) when **Mass Storage** is selected for **USB** ( 53).

Removing Memory Cards

Memory cards can be removed without loss of data when the camera is off. To remove memory cards, turn the camera off and confirm that the power-on lamp is off. *Do not open the memory card slot cover while the power-on lamp is lit.* Open the memory card slot cover and press the card in to partially eject the card. The card can then be removed by hand.

Turning the Camera On



Press the power switch until the power-on lamp lights. The first time the camera is turned on, the language-selection dialog shown opposite will be displayed; choose a language and set the time and date as described on the following pages.

Turning the Camera Off

To turn the camera off, press the power switch again. The camera is off when the power-on lamp is off. Do not remove the battery or memory card or disconnect the AC adapter until the power-on lamp has gone out.

Auto Power Off (Standby Mode)

If no operations are performed for one minute, the monitor and electronic viewfinder will turn off automatically and the camera will enter standby mode to reduce the drain on the battery. While the camera is in standby mode, the power-on lamp will flicker. The camera will be reactivated when you:

- Press the power-on switch
- Press the  button or press the shutter-release button halfway
- Press the  button to play pictures back
- Press the  button to display the menu for the current mode
- Rotate the mode dial to select a new mode

The length of time before the camera enters standby mode can be changed using the **Auto off** option in the setup menu ( 98).

If no operations are performed for three minutes after the camera enters standby mode, the camera will turn off automatically and the power-on lamp will go out.

The Power-on Lamp

The power-on lamp shows camera status as follows:

Power-on lamp	Camera
On	On
Flickers	Auto power off (standby mode)
Blinks	Battery exhausted ( 15)
Off	Off

Basic Setup

The first time the camera is turned on, a language-selection dialog will be displayed. Choose a language and set the time and date as follows:

1



Highlight **Deutsch** (German), **English**, **Español** (Spanish), **Français** (French), **Italiano** (Italian), **Nederlands** (Dutch), **Svenska** (Swedish), **日本語** (Japanese), **中文(简体)** (Simplified Chinese), **中文(繁體)** (Traditional Chinese), or **한글** (Korean).*

MENU Cancel ↵ Set

* Press **MENU** button to exit to without selecting language.

2



Confirmation dialog displayed.

3



Highlight **Yes**.*

* Select **No** to exit to mode selected with mode dial. If time and date are not set,  ("date not set") icon will flash in monitor during shooting and all pictures will have time stamp of "0000.00.00 00:00." Movies will be dated "2004.01.01 00:00."

4



TIME ZONE menu displayed.†

5



Display map of world time zones.

† To turn daylight saving time on or off, press multi selector down to highlight **DaylightSaving** and press center of multi selector. When **DaylightSaving** is checked, time will automatically be advanced one hour  94). To return to Step 4, press multi selector up to highlight current time zone.

The Camera Clock

The camera clock is less accurate than most watches or household clocks. Check the clock regularly against more accurate timepieces and reset as necessary.

6



Select home time zone.

7



Display DATE menu.

8



Edit Day (order of Day, Month, and Year may differ in some areas).

9



Select Month. Repeat steps 8–9 to edit Month, Year, hour, and minute.

10



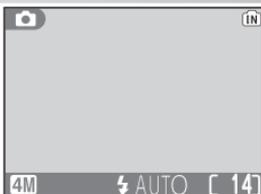
Highlight D M Y.

11



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

12



Exit to mode currently selected with mode dial. Note that time and date of recording will not be imprinted on pictures unless **Date** or **Date and time** is selected for **Date imprint** (95).

The Clock Battery

When the main battery is installed or an AC adapter is connected, the clock battery will charge in about 10 hours. When fully charged, the clock battery can provide several days of backup power. The DATE menu will automatically be displayed when the battery is exhausted.

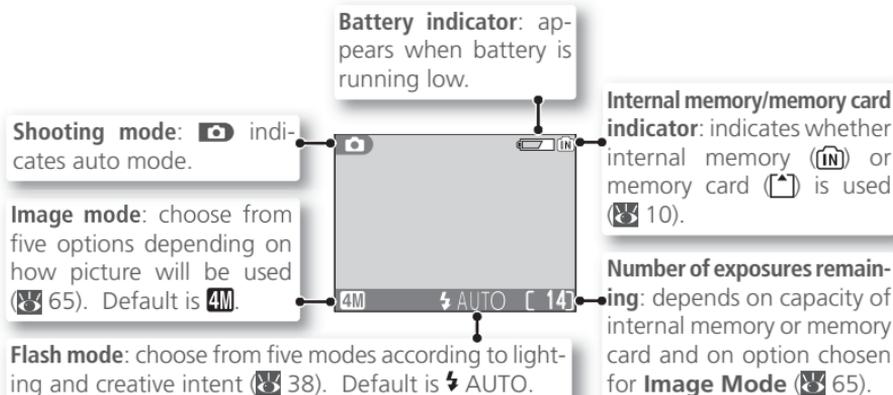
Basic Photography

This section describes how to take pictures in  (auto) mode, an automatic, “point-and-shoot” mode recommended for first-time users of digital cameras.

Step 1—Select Mode



Rotate the mode dial to  and turn the camera on. The power-on lamp will light and a welcome screen will appear in the monitor or electronic viewfinder. The camera is ready to shoot when the view through the camera lens is displayed.



The Battery Indicator

Display	Description
NO ICON	Battery fully charged.
	Low battery; ready spare battery. If flash fires, monitor will turn off while flash recharges.

Display	Description
WARNING!! BATTERY EXHAUSTED	Battery exhausted.* Replace with fully-charged battery.

* Power on lamp blinks when battery is exhausted.

The Shooting Menu

 (auto) mode offers a shooting menu of nine options that give full control over such settings as white balance and image sharpening ( 64).

Step 2—Frame the Picture



- 1 Ready the camera**
Hold the camera steadily in both hands. Photographs can be framed in the monitor **A** or the electronic viewfinder **B**.

Don't Block the Shot

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



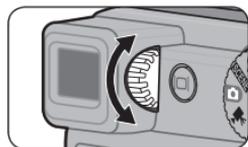
- 2 Frame the subject**
Use the zoom buttons to frame the subject in the center of the monitor or electronic viewfinder.

When Lighting Is Poor

When lighting is poor, sensitivity is raised to compensate and the image in the monitor may be slightly mottled. This is normal and does not indicate a malfunction.

Viewfinder Focus

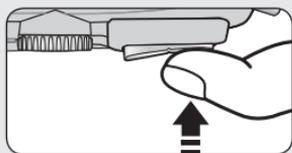
If the image in the electronic viewfinder seems blurred, rotate the diopter adjustment control until the image is in sharp focus. When operating the diopter control with your eye to the viewfinder, care should be taken to avoid accidentally putting your finger in your eye.



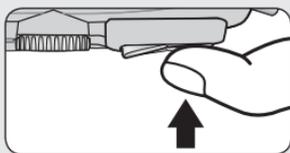
Zoom

The camera offers two types of zoom: optical zoom, in which the camera's telescoping lens can be used to magnify the subject up to 8.3x, and digital zoom, in which digital processing is used to further magnify the image up to 4x, for a total of about 33x. Use the zoom buttons to zoom in and out.

- Press the **W** button to zoom out from your subject, increasing the area visible in the frame. Press the **T** button to zoom in on your subject so that it fills a larger area of the frame. The camera is equipped with *two-speed zoom*: press the buttons fully for high-speed zoom, halfway for normal zoom.



Normal zoom



High-speed zoom

- When the camera is zoomed in to maximum magnification, holding the **T** button down for about one second will trigger digital zoom. The zoom indicator will turn yellow. Use the **T** and **W** buttons to adjust zoom in the digital zoom range. To cancel digital zoom, press **W** until the zoom indicator turns white.

Digital Zoom

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 simply enlarged, producing a slightly "grainy" image.



Zoom out Zoom in

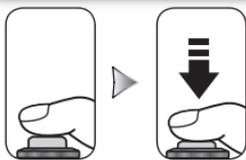


Indicator shows amount of zoom



Digital zoom

Step 3—Focus and Shoot

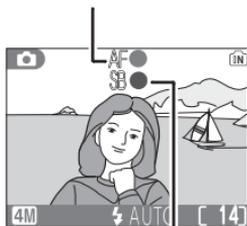


1 Focus

Press the shutter-release button halfway to set focus and exposure. At default settings, the camera will automatically focus on the subject in the center of the display. Focus and exposure will lock while the shutter-release button is pressed halfway (📷 6).

With the shutter-release button pressed halfway, check the focus and flash indicators in the monitor or electronic viewfinder.

Focus indicator



Flash indicator

Focus indicator	On (green)	Subject in focus.
	Blinks red	Camera unable to focus. Change composition and try again.
Flash indicator	On (red)	Flash will fire when picture is taken.
	Blinks red	Flash charging.
	Off	Flash off or not required.



2 Take the picture

Press the shutter release button the rest of the way down to take the picture. To prevent blur, press the shutter-release button down smoothly.

📷 “Out of Memory”

If the camera displays the message “OUT OF MEMORY” (📷 106) no further pictures can be taken. You may be able to take additional pictures if you:

- change the image mode setting (📷 65)
- delete some pictures (📷 19, 48, 80)
- insert a new memory card (📷 10)
- remove the memory card and use internal memory (📷 10)

✓ During Recording

While pictures are being recorded, the internal memory/memory card indicator (IN or ) will blink. The camera can continue to take pictures until the ⏸ (wait) icon is displayed. *Do not turn the camera off, eject the memory card, or remove or disconnect the power source while the internal memory/memory card indicator is blinking or the ⏸ icon is displayed.* Cutting power or removing the memory card in these circumstances could result in loss of data or in damage to the camera or card.

📷 The AF-Assist Illuminator

If lighting is poor, the built-in AF-assist illuminator will light when the shutter-release button is pressed halfway, allowing the camera to focus even when the subject is poorly lit. The AF-assist illuminator has a range of about 0.4 m–2.0 m/1'4"–6'7" (widest angle) to 1.0 m–1.5 m/3'3"–4'11" (maximum zoom). The AF-assist illuminator will not light if:



-  (portrait assist),  (landscape assist),  (sports assist), or  (night portrait assist) mode is selected or if  (Dusk/Dawn),  (Night landscape),  (Close up),  (Museum), or  (Fireworks show) is selected in scene mode ( 24–37)
- **Manual** is selected for **AF-area mode** ( 74) and the center focus area is not selected

📷 Getting Good Results with Autofocus

Autofocus performs best when there is contrast between the subject and the 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 subject and their features are in deep shadow), or if there are several objects at different distances from the camera at the center of the frame (e.g., your subject is inside a cage).

📷 Deleting Pictures in Shooting Mode

In shooting mode, pictures can be deleted one at a time by pressing the  button. A confirmation dialog will be displayed; press the multi selector up or down to highlight an option and press the center of the multi selector.

- **Yes:** Delete the picture shown in the monitor and return to shooting mode
- **No:** Return to shooting mode without deleting the picture



AF/AE Lock

Focus and exposure are locked when the shutter-release button is pressed halfway, and remain locked while the shutter-release button is held in this position (focus lock). Focus lock can be used to take pictures of off-center subjects or in situations in which the camera is unable to focus using autofocus.

1 Focus



Position subject in center of frame and press shutter-release button halfway.

2 Check focus indicator



Check that focus indicator glows steadily, indicating that subject is in focus.

3 Recompose picture



Focus and exposure are locked while shutter-release button is pressed halfway.*

4 Take picture



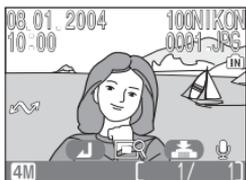
Press shutter-release button rest of way down to take picture.

* Do not change distance between camera and subject while focus lock is in effect. If subject moves, release shutter-release button and focus again at new distance.

Step 4—View the Results



- 1 Press the  button
A picture will be displayed in the monitor.

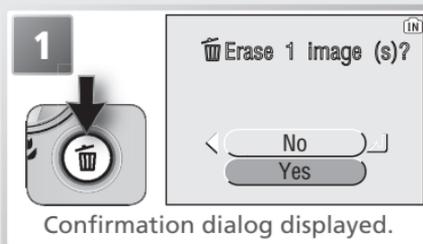


- 2 View additional pictures
Press the multi selector down or right to view pictures in the order recorded, up or left to view pictures in reverse order. Pictures are displayed briefly at low resolution while being read from memory. This makes it possible to scroll rapidly through pictures without waiting for each image to be displayed at full resolution. To scroll quickly to the desired frame, keep the multi selector pressed.

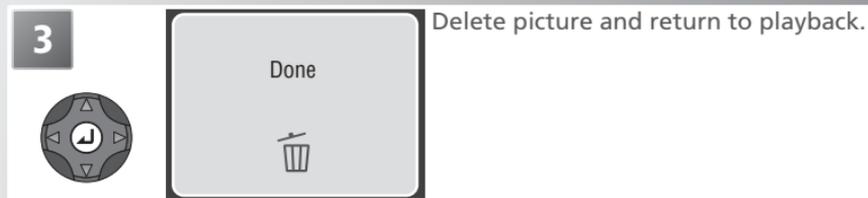
To return to shooting mode, press the  button again.

Deleting Unwanted Pictures

To delete the picture currently displayed in the monitor:



* To exit without deleting picture, highlight **No** and press center of multi selector.



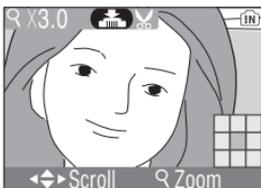
The Button

Pressing the  button for about one second will turn the camera on. Press again to return to the mode selected with the mode dial.

Quick Playback Zoom

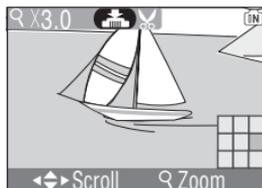
For an enlarged ($\times 3$) view of the picture currently displayed in the monitor:

1



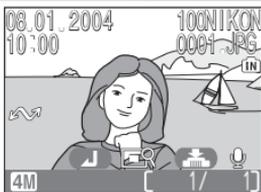
Zoom picture in $\times 3$. Center of picture is displayed in monitor.

2



View other areas of picture. Area currently visible indicated by display in bottom right corner of monitor.

3



End zoom and return to playback.

The zoom buttons can be used to zoom the picture in or out while quick playback zoom is in effect (📷 49).

📷 More About Playback

For more information on playback, see "More on Playback" (📷 48).

Image File and Folder Names

On the memory card, pictures are identified by file names with three parts: a four letter identifier, a four-digit file number assigned automatically by the camera in ascending order, and a three-letter extension (e.g., "DSCN0001.JPG").

Type		Identifier	Extension	
Original	Still picture	DSCN	.JPG	21
	Movie	DSCN	.MOV	46
Copy	Cropped copy	RSCN	.JPG	50
	Small copy	SSCN	.JPG	85
Audio file	Voice memo appended to original still	DSCN	.WAV	51
	Voice memo appended to cropped copy	RSCN	.WAV	51
	Voice memo appended to small copy	SSCN	.WAV	51

When a picture is viewed in the monitor, the file number and extension appear in the top right corner of the display. The identifier is not displayed, but is visible when the picture is transferred to a computer.

Pictures are stored in folders created automatically by the camera and named with a three-digit folder number followed by an identifier: "INDEX" for index prints created using the instant index option ( 89), "P_" plus a three-digit sequence number for pictures taken using panorama assist (e.g., "101P_001";  36), and "NIKON" for all other photographs (e.g., "100NIKON"). Folders can hold up to 200 pictures; if you take a picture when the current folder contains 200 pictures, a new folder will be created by adding one to the current folder number. A new folder is created for each sequence of pictures taken using panorama assist. If you take a picture when the current folder contains a picture numbered 9999, a new folder will be created and file numbering will begin again from 0001. If the current folder is numbered 999 and contains 200 pictures or a picture numbered 9999, no further pictures can be taken until the internal memory or memory card is formatted ( 98) or a new memory card inserted.

The picture displayed when the  button is pressed is the picture with the highest file number in the highest-numbered folder.

Scene Mode

Assist and Scene Modes

The COOLPIX 4800 offers a choice of eleven “scene” and four “assist” modes. In these modes, camera settings are automatically optimized for the selected subject type, sparing the user the necessity of adjusting settings one by one.

Assist Modes (👁️ 25–31)

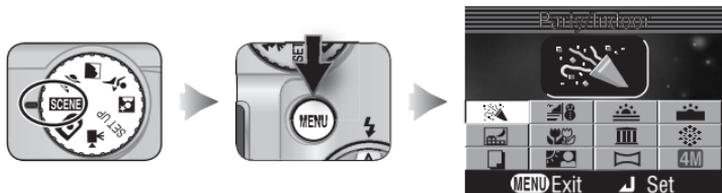
Assist modes are chosen by rotating the mode dial to the desired mode. Framing assist options are available to help you compose your shots.



Mode		👁️
	Portrait assist	26–27
	Landscape assist	28–29
	Sports assist	30
	Night portrait assist	31

Scene Modes (👁️ 32–37)

Scene modes are selected by rotating the mode dial to **SCENE** and selecting the desired scene from a menu.



Mode		👁️
	Party/Indoor	33
	Beach/Snow	33
	Sunset	33
	Dusk/Dawn	34

Mode		👁️
	Night landscape	34
	Close up	34
	Museum	34
	Fireworks show	35

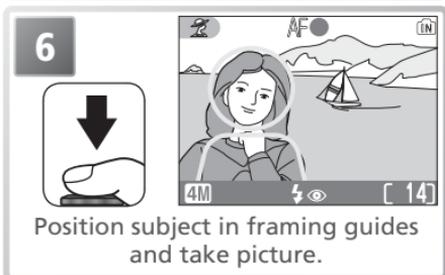
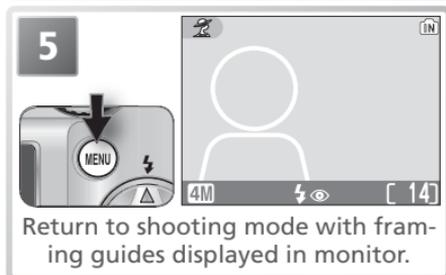
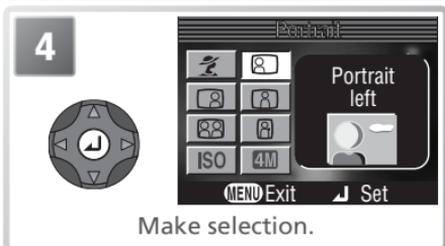
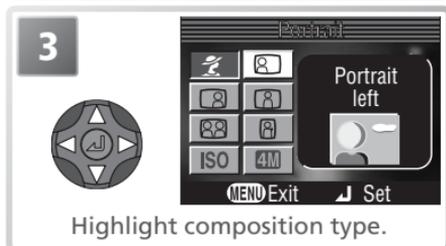
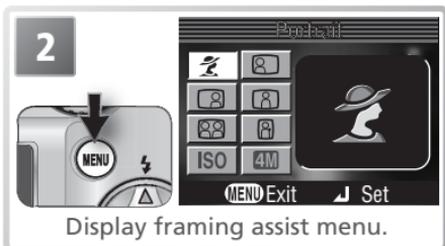
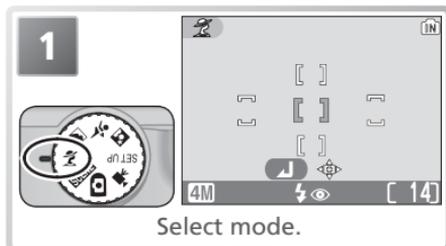
Mode		👁️
	Copy	35
	Back light	35
	Panorama assist	36–37

Assist and Scene Modes

Depending on your subject, assist and scene modes may not always produce the desired results. If results are not satisfactory, choose (auto) mode and try again.

Framing Assist

The four assist modes offer a selection of framing assist options that allow you to compose pictures with the help of framing guides displayed in the monitor.



Depending on the mode selected, restrictions may apply to flash mode (⚡; 38), the self-timer (⌚; 40), or macro close-up (🌸; 41). These restrictions are noted on the pages that follow. The AF-assist illuminator (🔦 19) is not available in framing assist mode.

Using the Guides

Your subject does not have to fit exactly in the framing guides. *When framing pictures, pay attention to your surroundings; be careful not to trip and fall.*

Portrait Assist

 (portrait assist) mode is used to frame portraits in which the main subject stands out clearly while background details are softened, lending the composition a sense of depth (the degree of softening depends on the amount of light available). A framing assist menu helps frame off-center subjects and compose tall or wide shots and two-person portraits.



PORTRAIT

No guides are displayed. Use multi selector to choose focus area according to position of subject in frame.



Portrait left

Compose shot with subject centered in left half of frame. Camera will focus on subject in framing guide.



Portrait right

Compose shot with subject centered in right half of frame. Camera will focus on subject in framing guide.



Portrait close-up

Compose shot with subject's face in top half of frame. Camera will focus on face area in framing guide.



Portrait couple

Compose shot with two subjects side-by-side. Camera will focus on closest subject.



Portrait figure

Compose shot with camera held as shown below at right and subject's face in top half of frame. Camera will focus on face area in framing guide.



* Other modes can be selected.

In addition to the options on the preceding page, the portrait-mode framing assist menu contains **Sensitivity** and **Image mode** options.

Sensitivity

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

Option	Description
A-ISO Auto (default)	If lighting is poor, camera automatically raises sensitivity (ISO equivalency) to compensate. ISO icon is displayed when sensitivity is raised. "Noise" (mottling) may appear in pictures taken when ISO icon is displayed.
50 Fixed	Sensitivity (ISO equivalency) fixed at value roughly equivalent to ISO 50.



Image Mode

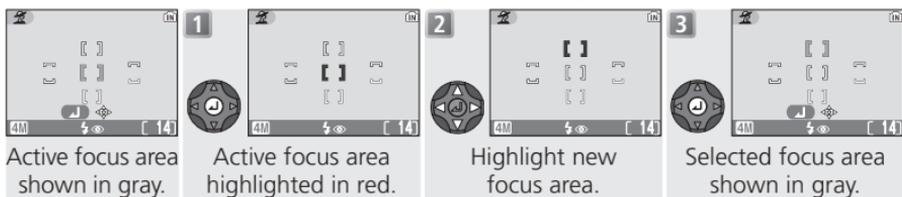
Choose from **4M* High (2288*)**, **4M Normal (2288)**, **2M Normal (1600)**, **PC PC screen (1024)**, and **TV TV screen (640)**.



Scene Mode

Manual Focus Area Selection

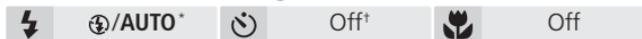
To select the focus area when **PORTRAIT** is selected in portrait assist mode:



Flash mode, the self timer, macro mode, and exposure compensation can not be adjusted while the focus area is highlighted in red. Press the center of the multi selector to select the focus area before adjusting these settings.

Landscape Assist

 (landscape assist) mode is used for vivid landscape shots that enhance outlines, colors, and contrast. A framing assist menu helps frame not only natural landscapes but also cityscapes and portrait shots featuring a landmark in the background.



LANDSCAPE

No guides are displayed. Use to focus on distant objects through foreground objects such as windows or a screen of branches. Camera focuses at infinity; AF indicator lights whenever shutter-release button is pressed halfway.



Scenic view

Compose shot with sky in top third of frame. Match skyline with wavy yellow guide. Camera focuses at infinity; AF indicator lights whenever shutter-release button is pressed halfway.



Architecture

Photograph buildings. Framing grid helps keep verticals and horizontals aligned with the frame. Camera focuses at infinity; AF indicator lights whenever shutter-release button is pressed halfway.



Group right

Compose shot with portrait subjects at right and landmark or other object in background at left of frame. Camera focuses on portrait subject.



Group left

Compose shot with portrait subjects at left and landmark or other object in background at right of frame. Camera focuses on portrait subject.



* Flash turns off (🔇) automatically in **LANDSCAPE**, **Scenic view**, and **Architecture** modes. In **Group right** and **Group left** modes, flash mode is automatically set to **AUTO**; other modes can be selected.

† Other modes can be selected.

In addition to the options on the preceding page, the landscape-mode framing assist menu contains **Exposure BSS** and **Image mode** options.

Exposure BSS

The **Exposure BSS** menu contains the following options:

Option	Description
On	Camera takes five shots each time shutter-release button is pressed (to prevent blurring, hold camera steady until shooting is complete). Picture with overall exposure closest to optimum is then selected from pictures with least under- and over- exposure. Remaining four pictures are discarded. Flash turns off automatically while exposure BSS is on.
Off (default)	Exposure BSS off.



Image Mode

Choose from **4M* High (2288*)**, **4M Normal (2288)**, **2M Normal (1600)**, **PC screen (1024)**, and **TV screen (640)**.



Sports Assist

 (sports assist) mode is used for dynamic action shots that capture moving objects. The options in the assist menu can be used to freeze the action in a single shot or record motion in a series of pictures.



SPORTS

While shutter-release button is held down, pictures are recorded at rate of about 1.5 frames per second (fps) until  icon is displayed. Camera focuses continuously until shutter-release button is pressed halfway to lock focus.



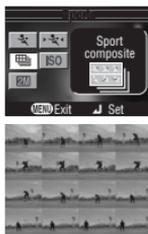
Sport spectator

Shutter-release button can be pressed in one motion without pausing halfway to check focus. Camera focuses at about 5 m (16') to infinity at widest angle, 6 m (20') to infinity at maximum zoom; AF indicator lights whenever shutter-release button is pressed halfway. While shutter-release button is fully pressed, pictures will be taken at rate of about 1.5 fps until  icon is displayed.



Sport composite

Each time shutter-release button is pressed, camera takes 16 shots in about 2 seconds and arranges them in 4 rows to form single picture 1600 × 1200 pixels in size. Focus, exposure, and white balance are determined by first shot in each series. Camera focuses continuously until shutter-release button is pressed halfway to lock focus.



In addition to the options list above, the sports-mode framing assist menu contains **Sensitivity** and **Image mode** options ( 27).

Focus, Exposure, and White Balance

In sports assist mode, focus, exposure, and white balance for all pictures are determined by the first shot in each series.

Night Portrait Assist

 (night portrait assist) mode is used for taking portrait shots at night, when it provides a natural balance between the main subject and the background. Pictures taken at slow shutter speeds are adjusted to reduce noise, slightly increasing processing time; to prevent blurring, mount the camera on a tripod or rest it on a flat, stable surface.



NIGHT PORTRAIT

No guides are displayed. Use multi selector to choose focus area according to position of subject in frame.



Portrait left

Compose shot with subject centered in left half of frame. Camera will focus on subject in framing guide.



Portrait right

Compose shot with subject centered in right half of frame. Camera will focus on subject in framing guide.



Portrait close-up

Compose shot with subject's face in top half of frame. Camera will focus on face area in framing guide.



Portrait couple

Compose shot with two subjects side-by-side. Camera will focus on closest subject.



Portrait figure

Compose shot with camera held as shown below at right and subject's face in top half of frame. Camera will focus on face area in framing guide.

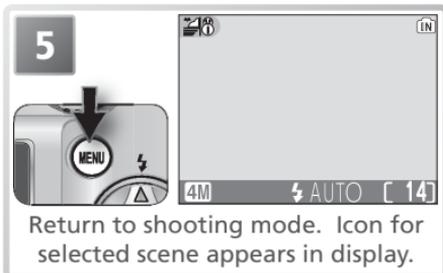
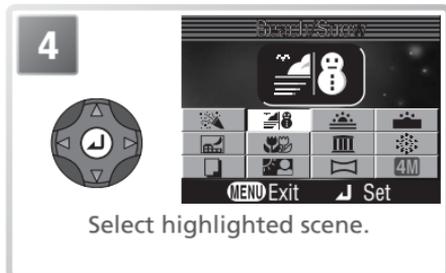
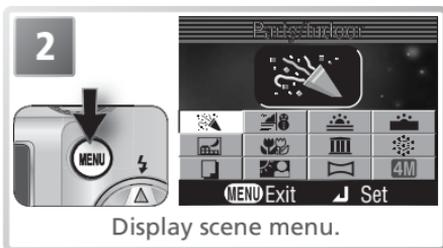
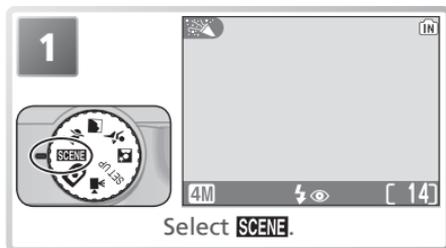


* Other modes can be selected.

SCENE Scene Mode

SCENE (scene) mode offers a menu of eleven “scenes,” each corresponding to a common situation, such as a backlit subject, sunset, or interior shot. Camera settings are automatically adjusted to suit the selected scene, sparing the user the necessity of adjusting each setting separately.

To select a scene:



Depending on the scene selected, restrictions may apply to flash mode (⚡; 38), the self-timer (⌚; 40), macro close-up (🌸; 41), or focus area selection (📍). These restrictions are noted on the pages that follow.

The following scenes are available:

 Party/Indoor	
Use for shots that include details of the background, or to capture the effects of candlelight and other indoor background lighting.	
• AF-assist illuminator (👁️ 19) lights when lighting is poor.	
   Off    Off ⁺	
 Beach/Snow	
Captures the brightness of such subjects as snowfields, beaches, or sunlit expanses of water.	
• AF-assist illuminator (👁️ 19) lights when lighting is poor.	
 Auto*  Off  —  Off ⁺	
 Sunset	
Preserves the deep hues seen in sunsets and sunrises.	
• AF-assist illuminator (👁️ 19) lights when lighting is poor.	
   Off    Off ⁺	

* Other modes can be selected.

† Center focus area selected automatically.

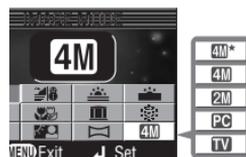
Camera Shake (👋)

At slow shutter speeds, a 👋 icon appears in the monitor to warn that pictures may be blurred. In this section, precautions appropriate for avoiding blur are indicated by stars:

- ★ hold camera in both hands and brace elbows against body
- ★★ use tripod or rest camera on flat, level surface

Image Mode

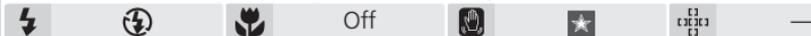
Image mode (👁️ 65) can be selected in the scene menu. The current setting is shown when the image mode icon is highlighted.



Dusk/Dawn

Preserves the colors seen in the weak natural light before sunrise or after sunset.

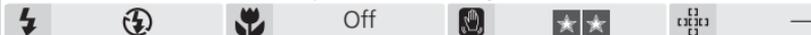
- Noise reduction ( 35) turns on at slow shutter speeds.
- Camera focuses at infinity. AF indicator lights whenever shutter-release button is pressed halfway.



Night landscape

A slow shutter speed is used to produce stunning night landscapes.

- Noise reduction ( 35) turns on at slow shutter speeds.
- Camera focuses at infinity. AF indicator lights whenever shutter-release button is pressed halfway.



Close up

Use to photograph flowers, insects, and other small objects at ranges as close as 1 cm (0.4"), with the background artistically blurred.

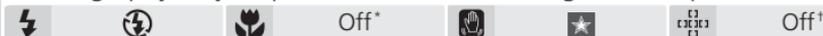
- Camera automatically zooms to macro close up position; macro close-up icon () turns green. Camera can not be zoomed all the way in. Note that flash may be unable to light entire subject at ranges of under 0.4 m/15.7" (widest angle) or 1.0 m/3'3" (maximum zoom). Take test shot and examine results in monitor.
- Camera focuses continuously until shutter-release button is pressed halfway.



Museum

Use indoors where flash photography is prohibited (for example, in museums and art galleries) or in other settings in which you do not want to use the flash.

- The Best Shot Selector (BSS;  70) turns on automatically, reducing the effects of inadvertent camera movement.
- Photography may be prohibited in some settings. Obtain permission first.



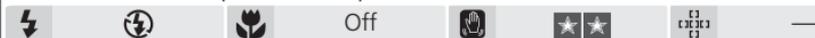
* Other modes can be selected.

† Center focus area selected automatically.

Fireworks show

Slow shutter speeds are used to capture the expanding burst of light from a firework.

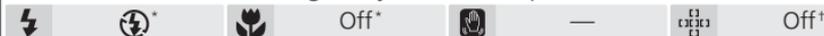
- Focus is fixed at infinity. AF indicator lights whenever shutter-release button is pressed halfway.
- Self-timer and exposure compensation can not be used.



Copy

Provides clear pictures of text or drawings on a white board or in printed matter such as a business card.

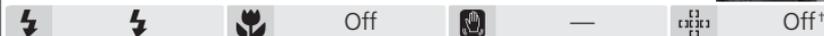
- Use macro close-up ( 41) to focus at short ranges.
- AF-assist illuminator ( 19) lights when lighting is poor.
- Colored text and drawings may not show up well.



Back light

Use when light is coming from behind a portrait subject, throwing their features into shadow.

- AF-assist illuminator ( 19) lights when lighting is poor.



* Other modes can be selected.

† Center focus area selected automatically.

Noise Reduction

“Noise” in the form of randomly-spaced, brightly-colored pixels tends to appear in pictures taken at slow shutter speeds. This effect is particularly noticeable in dark areas of the picture. At settings of **Dusk/Dawn** and **Night landscape**, pictures taken at slow shutter speeds are processed to reduce noise (this more than doubles the time needed to process pictures before they are saved).

Sensitivity (ISO Equivalency)

When lighting is poor and the flash is off, the camera automatically increases sensitivity, permitting faster exposures and minimizing blur caused by inadvertent camera movement (camera shake). An **ISO** icon will be displayed to warn that pictures may be slightly mottled.



☒ Panorama assist

Use when taking a series of pictures that will later be joined to form a single scene (for example, a panorama or 360° virtual-reality image).



- White balance and exposure are fixed at values for first shot in series. Flash mode, macro mode, exposure compensation, and zoom can not be changed after first shot.
- AF-assist illuminator (☒ 19) lights when lighting is poor.

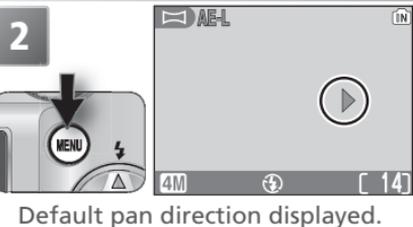


* Other modes can be selected until first shot in each series is taken.

† Center focus area selected automatically.

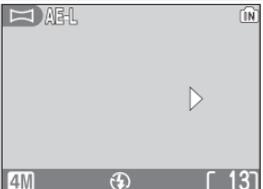
☒ Taking Pictures for a Panorama

- 1 Select ☒ (Panorama assist) in scene menu as described in steps 1–4 of “Scene Mode” (☒ 32).



- 3 

Select how pictures will be joined together in completed panorama. This is the direction in which to pan the camera after each shot.

- 4 

Make selection (to change selected pan direction, press center of multi selector and repeat steps 3–4). Pan direction displayed in white. Yellow AE-L icon in monitor shows that white balance and exposure will lock with first shot.

5



Take first picture. About one third of picture is shown superimposed on view through lens (if pan direction is left to right, picture will appear on left side of monitor). AE-L icon turns white to show that white balance and exposure settings for this picture apply to all pictures in series.

6



Compose next shot to overlap with previous picture.

7



Take next shot. Repeat steps 6–7 until all shots in series have been taken.

8



End series. Shooting will also end if a new mode is selected or camera enters standby mode.

Panorama Assist

Flash mode () 38), macro close-up mode () 41), self-timer mode () 40), and exposure compensation () 42) can be adjusted after the pan direction is selected. Once the first shot in each series is taken, the pan direction, zoom, flash mode, macro close-up mode, exposure compensation, and image mode () 65) can not be adjusted nor pictures deleted until the series is complete.

Storage Locations for Panoramas

Each series of pictures taken at **Panorama assist** is stored in a separate folder with a name consisting of “P_” preceded by a three-digit folder number and followed by a three-digit sequence number (e.g., “101P_002”).

Use a Tripod

Using a tripod makes it easier to compose overlapping shots.

More on Photography

⚡ Using the Flash: Flash Mode

The following flash modes are available:

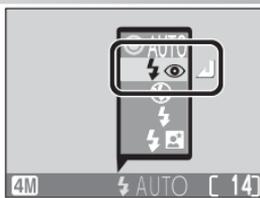
Mode	How it works	When to use it
AUTO Auto	Flash fires when lighting is poor.	Best choice in most situations.
 Auto with red-eye reduction	Flash fires several times at low intensity before main flash, reducing "red-eye."	Use for portraits. Works best when subject looks directly at flash. Not recommended when quick shutter response is required.
 Flash Cancel (off)	Flash will not fire even when lighting is poor.	Use to capture natural lighting under dim light or where use of flash is prohibited. If  (camera shake) icon appears, care should be taken to avoid blurring.
 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 speeds.	Use to capture both subject and background at night or under dim light. If  (camera shake) icon appears, care should be taken to avoid blurring.

1



Display flash-mode menu.

2



Highlight mode.

3



Exit menu (to exit without changing mode, wait two seconds). Selection is shown by icon at bottom of display.

Don't Block the Flash Window

When using the flash, be sure that your fingers or other objects do not obstruct the flash window.

Using the Flash

Light from the flash reflected from particles of dust or other matter in the air may appear in pictures as bright specks. If this occurs, turn the flash off or zoom in and try again.

Auto Flash Off

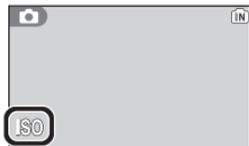
The flash turns off (🚫) automatically when BSS is enabled (🔥 70) or an option other than **Single** is selected for **Continuous** (🔥 69).

Low Battery

If the flash fires when the low battery icon is displayed, the monitor will turn off while the Speedlight recharges.

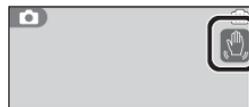
Sensitivity (ISO Equivalency)

When lighting is poor and the flash is off (🚫), the camera will automatically increase sensitivity, permitting faster exposures and minimizing blur caused by inadvertent camera movement (camera shake). An **ISO** icon is displayed to warn that the picture may be slightly mottled.



The 🖐️ (Camera Shake) Icon

When lighting is poor and the flash is off (🚫), shutter speeds will slow and pictures may be blurred. If the shutter speed required for exposure is very slow, a 🖐️ (camera shake) warning is displayed. Use of a tripod or support is recommended.



Flash Range

Flash range varies with zoom position. When the camera is zoomed all the way out, the flash has a range of 0.4–4.3 m (1'4"–14'). The range at maximum zoom is 1.0–2.6 m (3'3"–8'6"). As a result, the flash may not be able to light the entire subject at distances of less than 0.4 m/15.7" (widest angle) or 1.0 m/3'3" (maximum zoom). When taking close-ups, play each picture back after shooting to check the results.

Default Flash Mode

When the camera is turned on in  (auto) mode, the most recent flash setting will be restored; in other modes, the flash will be reset to the default for the selected mode.

Reset all (🔥 99) resets the flash to **AUTO** ( mode) or to the default for the current mode (assist and scene modes).



Taking a Self-Portrait: Self-Timer Mode

The camera is equipped with a ten-second timer for portraits or to avoid blurring that may result from the camera moving when the shutter-release button is pressed.

1



Display self-timer menu.

2



Highlight **ON**.

3



Exit menu (to exit without changing mode, wait two seconds). Selection is shown by icon in display.

4



Set focus and exposure.

5



Start timer. Camera counts down seconds until timer is released. To stop timer before picture is taken, press shutter-release button again or press multi selector left.



The self-timer lamp on the front of the camera will blink until one second before the picture is taken, staying lit during the final second to warn that the shutter is about to be released.

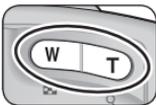
The Self-Timer

When using the self-timer, mount the camera on a tripod (recommended) or rest it on a flat, level surface. Selecting **ON** in the self-timer menu automatically turns BSS off and sets the **Continuous** option in the shooting menu to **Single**.



Easy Close-ups: Macro Close-up Mode

Macro close-up mode is used for taking close-up shots of small objects at very short distances (minimum 1cm/0.4").

<p>1</p>  <p>Display macro close-up menu.</p>	 <p>4M ⚡ AUTO [14]</p>	
<p>2</p>  <p>Highlight  ON.</p>	 <p>4M ⚡ AUTO [14]</p>	
<p>3</p> 	 <p>4M ⚡ AUTO [14]</p>	<p>Exit menu (to exit without changing mode, wait two seconds). Selection is shown by icon in display.</p>
<p>4</p> 	 <p>4M ⚡ AUTO [14]</p>	<p>Frame picture. If camera is zoomed out to ▲ position,  icon turns green and camera can focus at distance of 1cm/0.4". If  icon turns red, camera may not be able to focus at short range.</p>

Macro Close-up Mode

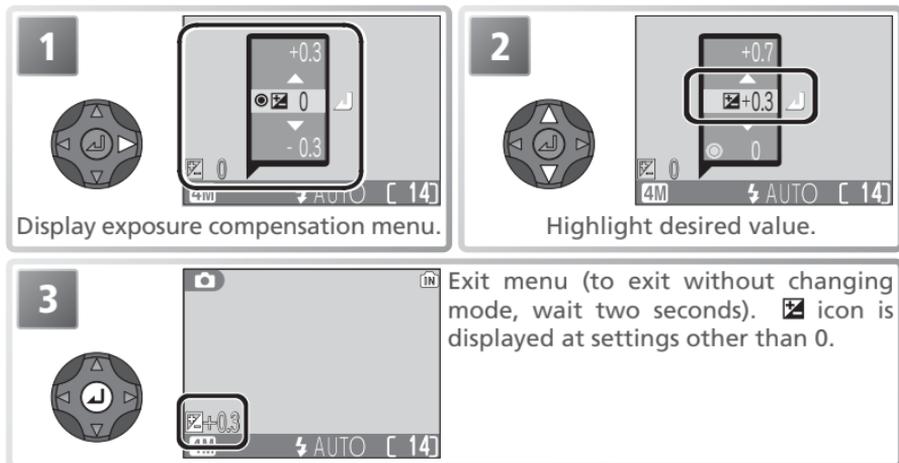
The flash may not be able to light the entire subject at distances of less than 0.4 m/15.7" (widest angle) or 1.0 m/3'3" (maximum zoom). When taking close-ups, play each picture back after shooting to check the results.

In macro close-up mode, the camera focuses continuously, even when the shutter-release button is not pressed halfway.

There may be a slight loss of resolution at the borders of pictures taken at short ranges in macro close-up mode or at a scene mode setting of  (Close up;  34).

Controlling Exposure: Exposure Compensation

Exposure compensation is used to alter exposure from the value suggested by the camera. Exposure compensation can be set to values between -2.0 EV (underexposure) and $+2.0$ EV (overexposure) in increments of $\frac{1}{3}$ EV.



Cancelling Exposure Compensation

To cancel exposure compensation, choose a value of 0.

Choosing a Value for Exposure Compensation

As a rule of thumb, select *positive* values when large areas of the frame are very brightly lit (for example, when photographing an expanse of sunlit water, sand, or snow) or when the background is much brighter than the main subject. Choose *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 under- or over-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.”

Movies

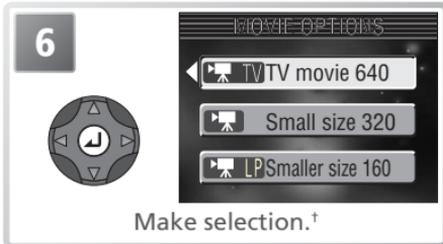
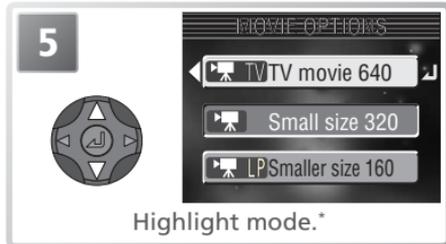
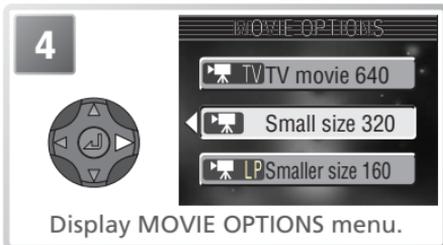
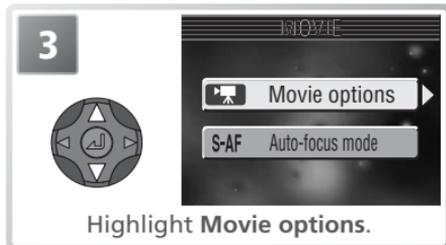
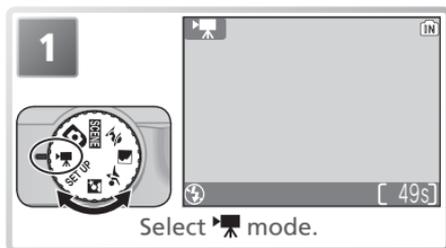
▶ Choosing a Movie Mode

The camera can record the following types of movie. All movies are recorded in color at a frame rate of 15 frames per second, with sound recorded via the built-in microphone.

Option	Description	Max. length*	
		Internal memory (13.5 MB)	256 MB memory card
 TV movie 640	Vertical interlacing is used for a frame size of 640×480 pixels, suitable for television playback.	24s	440s
 Small size 320 (default)	Movies are recorded at a size of 320×240.	49s	880s
 Smaller size 160	Movies are recorded at a size of 160×120. Small size allows longer movies to be recorded.	197s	3520s

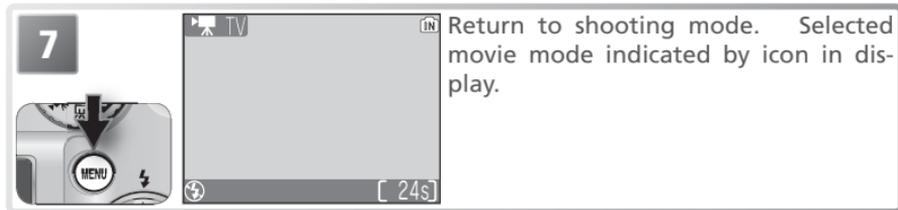
* Approximate maximum total length. Shooting can continue to limit of available memory; actual length of individual movies may vary with make of memory card.

To select a movie mode:



* To exit without changing mode, press button.

† To return to MOVIE menu after making selection, press multi selector to left.



The movie menu also includes the following focus options:

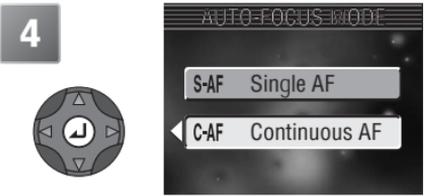
Option	Description
S-AF Single AF (default)	Camera focuses when shutter-release button is pressed half-way. Focus locks when focus operation is complete.
C-AF Continuous AF	Camera adjusts focus continuously.

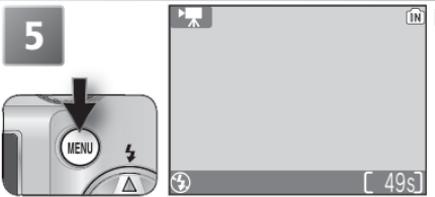
To choose a focus option from the MOVIE menu:

- 

1 Highlight **Auto-focus mode**.
- 

2 Display options.
- 

3 Highlight desired focus mode.
- 

4 Make selection.
- 

5 Return to shooting mode.

Recording Movies



- 1 Rotate the mode dial to  and turn the camera on**

The exposure count display shows the maximum total length of the movie that can be recorded.



- 2 Start recording**
Press the shutter-release button all the way down to start recording. The  icon will blink and progress will be shown by an indicator at the bottom of the display.



- 3 End recording**
Press the shutter-release button all the way down a second time to end recording. Recording will end automatically when the internal memory or memory card is full.

Zoom

Optical zoom can not be adjusted during recording. Digital zoom (maximum 2x) can be used at any time, both before and during recording.

Movies

During recording, do not touch the built-in microphone. To prevent the sound of the camera focusing from interfering with recording, select a focus mode of **Single AF**.

The flash turns off () automatically when movie mode is selected ( 38). The self-timer ( 40) and exposure compensation ( 42) can not be used.

The progress indicator stops at 999s. Recording can continue past this point if enough memory is available.

Movies are recorded as QuickTime movie files with the extension “.MOV” and names consisting of “DSCN” plus a four-digit file number assigned by adding one to the highest file number in the current folder (e.g., “DSCN0015.MOV”). Movies can be played back on a computer after transfer.

Viewing Movies

In full-frame playback (📺 48), movies are indicated by a 📺 icon and can be viewed by pressing the center of the multi selector. Playback controls appear at the top of the display; press the multi selector left or right to highlight a control, then press the center of the multi selector to perform the selected operation.



Playback display

Control	Description
 Rewind	Highlight  and press and hold center of multi selector to rewind movie. Playback resumes when multi selector is released.
 Advance	Highlight  and press and hold center of multi selector to fast forward through movie. Playback resumes when multi selector is released.
 Pause	Pause playback.
 Jog rewind	When movie is paused, rewind one frame.
 Jog advance	When movie is paused, advance one frame.
 Resume	Resume playback.
 Stop	End movie and return to full-frame playback.

Direct Print

Movies can not be printed via direct USB connection (📺 60).

Playback Volume

The zoom buttons control volume during playback. Press **W** to decrease volume, **T** to increase.

Deleting Movies

To delete a movie, press the  button. A confirmation dialog will be displayed; press the multi selector up or down to highlight an option, then press the center of the multi selector.

- **Yes:** delete movie and return to full-frame playback
- **No:** exit to full-frame playback without deleting movie

More on Playback

Viewing Pictures on the Camera

To view pictures, press the  button (if the camera is off, pressing the  button for about a second will turn the camera on and start playback). Pictures will be displayed full-frame in the monitor (full-frame playback). Images can be viewed at about $\times 3$ magnification by pressing the center of the multi selector ( 22).



Viewing Multiple Pictures: Thumbnail Playback

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



To	Press	Description
Highlight pictures		Press multi selector up, down, left, or right to highlight pictures.
Change number of pictures displayed	 (W) Q (T)	With four thumbnails displayed, press  (W) button once to view nine thumbnails. Press Q (T) to “zoom in” from nine to four thumbnails or, when four thumbnails are displayed, to view highlighted picture full frame.
Delete highlighted picture		Confirmation dialog will be displayed. Press multi selector up or down to highlight option, press center to select. <ul style="list-style-type: none">• Select Yes to delete picture• Select No to exit without deleting picture <div data-bbox="735 930 942 1085"></div>
View highlighted picture full frame		View picture highlighted in four- or nine-thumbnail display full frame.
Exit to current mode		Exit to mode selected with mode dial.

Taking a Closer Look: Playback Zoom

Use the **Q (T)** button to zoom in on images displayed in full-frame playback (**48**).



To	Press	Description
Zoom in	Q (T)	Zoom increases each time button is pressed, to a maximum of 10x. While image is zoomed in, Q icon and zoom ratio are displayed in top left corner of monitor.
View other areas of picture		Use multi selector to scroll to areas of picture not visible in monitor. To use multi selector to view other pictures, cancel zoom.
Zoom out	W	Zoom decreases each time button is pressed. To cancel zoom, zoom picture out until entire picture is displayed.
Cancel zoom		Cancel zoom and return to full-frame playback.
Crop picture 50	 Shutter button	Confirmation dialog will be displayed. Press multi selector up or down to highlight option, press center to select. <ul style="list-style-type: none"> • Select Yes to create new picture containing only area visible in monitor • Select No to exit without creating cropped copy

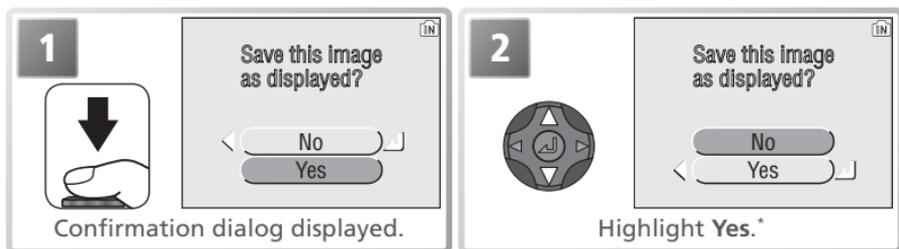


Playback Zoom

Playback zoom is not available with movies (**47**) or copies created using the small picture option (**85**).

Cropping Pictures

When a picture is zoomed in, the portion of the picture visible in the monitor can be saved in a separate file, creating a cropped copy of the image. To create a cropped copy, press the shutter-release button after using the **Q** (**T**) and **W** (**W**) buttons and multi selector to display the desired portion of the picture in the monitor (**W** 49).



* To exit without creating copy, highlight **No** and press center of multi selector.



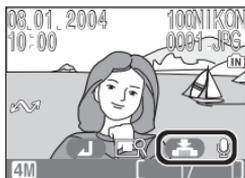
Cropped copies are stored as JPEG files (compression ratio 1:8) with names of the form "RSCNnnnn.JPG," where "nnnn" is a four-digit number assigned automatically by the camera, and are created with the same transfer marking and time and date of creation as the original (print and protect attributes are not set; **W** 58, 82). Depending on the size of the original and the zoom ratio at the time the copy was created, copies will be 2,288 × 1,712 (**4M**), 1,600 × 1,200 (**2M**), 1,024 × 768 (**PC**), 640 × 480 (**TV**), 320 × 240 (**L**), or 160 × 120 (**S**) pixels in size. Copies are independent of the original: deleting the copy has no effect on the original, and deleting the original has no effect on the copy.

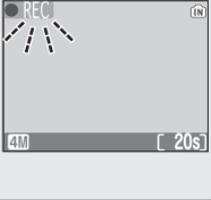
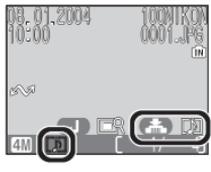
Cropping Pictures

Copies can only be created if sufficient memory is available. Cropped copies may not display or transfer correctly when viewed on other models of Nikon camera. Cropping is not available with movies (**W** 47), small pictures (**W** 85), or cropped copies.

Voice Memos: Recording and Playback

A voice memo can be recorded and appended to any picture marked with a  (voice memo recording guide) icon in full-frame playback (, 21, 48). If a voice memo already exists for the current picture, it must be deleted before a new memo can be recorded. Voice memos can not be recorded for movies or during thumb-nail playback (, 48) or playback zoom (, 22, 49).



To	Press	Description
Record voice memo		If  icon is displayed on current picture, memo will be recorded while shutter-release button is held down. During recording,  icon blinks. Recording ends after about 20s or when shutter-release button is released. Do not touch microphone during recording. 
Play voice memo		Pictures for which voice memo exists are marked by  (voice memo playback guide) and  icons. Press shutter-release button to play voice memo. Playback ends when voice memo ends or shutter-release button is pressed again. 
Change volume	 	Zoom buttons control volume during playback. Press  to lower volume,  to increase.
Delete picture or voice memo		Confirmation dialog will be displayed. Press multi selector up or down to highlight option, press center to select. <ul style="list-style-type: none"> • Select Yes to delete both picture and voice memo • Select  to delete voice memo only • Select No to exit without deleting picture or voice memo 

More on Playback

Voice Memos

Voice memo file names have the same identifier and four-digit file number as the associated picture, followed by the extension ".WAV" (e.g., "DSCN0015.WAV").

Viewing Pictures on TV

The EG-CP14 audio/video (A/V) cable included with the camera can be used to connect the camera to a television or video-cassette recorder (VCR).

Choosing a Video Mode

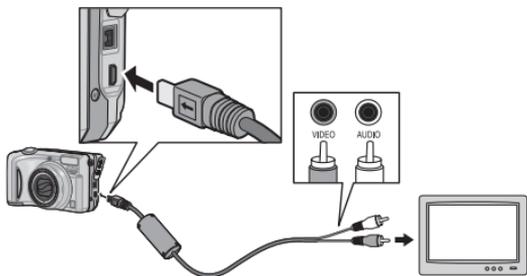
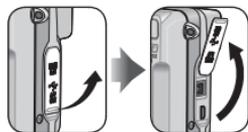
The **Video mode** item in the setup menu offers a choice of NTSC and PAL (▶ 99). Be sure that the mode selected matches the standard used in the video device.

1 Turn the camera off

Turn the camera off before connecting or disconnecting the A/V cable.

2 Connect the A/V cable

Open the interface connector cover as shown at right and insert the black plug into the camera's interface connector. Insert the yellow plug into the video-in jack on the television or VCR. Connect the white plug to the audio-in jack.



3 Tune the television to the video channel

If in doubt, consult the documentation for your television or VCR.

4 Turn the camera on

Press the  button for about a second to turn the camera on. The camera monitor will remain off and the television will show the image normally shown in the monitor.

PAL

If **PAL** is selected for **Video mode** and the camera connected to a video device, video output will be suspended and the camera monitor or electronic viewfinder will turn on when the camera is in movie mode.

Viewing Pictures on a Computer

Using the UC-E6 USB cable and PictureProject software provided with your camera, you can view your photographs and movies on a computer. Before you can transfer (copy) pictures to your computer, you will need to install PictureProject. For more information on installing PictureProject and transferring pictures to your computer, see the *PictureProject Reference Manual* (on CD) and the *Quick Start Guide*.

Before Connecting the Camera

Pictures can be copied from the camera to the computer by:

- Pressing the center of the multi selector (↻ button)
- Clicking the **Transfer** button in PictureProject

Which method you will use depends on your computer's operating system and the USB option selected in the camera setup menu. After consulting the following table, select the appropriate option using the **USB** item in the camera setup menu. The default option is **Mass Storage**.



Center of multi selector (↻ button)

Operating system	Pictures transferred using:	
	Camera multi selector (↻ button)	PictureProject Transfer button
Windows XP Home Edition Windows XP Professional	Choose Mass Storage or PTP .	
Windows 2000 Professional Windows Millennium Edition (Me) Windows 98 Second Edition (SE)	Choose Mass Storage .	
Mac OS X 10.1.5 or later	Choose PTP .	Choose Mass Storage or PTP .

"Mass Storage"

If **Mass Storage** is selected for **USB**, the center of the multi selector (↻ button) can not be used to transfer pictures from internal memory or from "locked" (write-protected) memory cards (🔒 11). Use the PictureProject **Transfer** button.

Choosing a USB Option

1  Select SET UP mode.

2  Highlight USB.

3  Display USB menu.

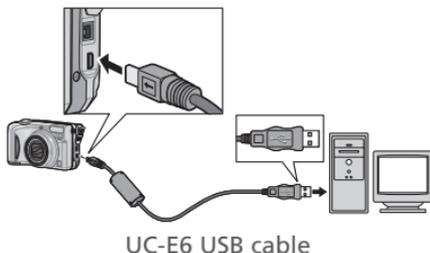
4  Highlight PTP or Mass Storage.

5  Make selection.

The instructions are illustrated with five numbered panels showing the camera's menu system. Panel 1 shows the 'SETUP' screen with 'Welcome screen', 'Date', and 'Date imprint' options. Panel 2 shows the 'SETUP' screen with 'Format memory', 'Language', and 'USB' options. Panel 3 shows the 'USB' menu with 'PTP' and 'Mass storage' options. Panel 4 shows the 'USB' menu with 'PTP' and 'Mass storage' options, with 'PTP' highlighted. Panel 5 shows the 'USB' menu with 'PTP' and 'Mass storage' options, with 'PTP' highlighted.

Connecting the USB Cable

Turn the computer on and wait for it to start up. After confirming that the camera is off, connect the UC-E6 USB cable as shown below. Connect the camera directly to the computer; do not connect the cable via a USB hub or keyboard.



The lens will extend when the camera is turned on.

Windows 2000 Professional, Windows Millennium Edition (Me), Windows 98 Second Edition (SE)

Do **NOT** select **PTP** when connecting the camera to a computer running one of the above operating systems. 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** 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.

Disconnecting the Camera

If **PTP** is selected in the **USB** menu, you can turn the camera off and disconnect the USB cable once transfer is complete. If you have not changed the **USB** option in the camera setup menu from its default setting of **Mass Storage**, you must remove the camera from the system as shown below before turning the camera off or disconnecting the cable.

Windows XP Home Edition/Windows XP Professional

Click the “Safely Remove Hardware” icon (🔌) in the taskbar and select **Safely remove USB Mass Storage Device** from the menu that appears.



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.



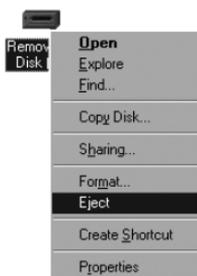
Windows Millennium Edition (Me)

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.



Macintosh

Drag the untitled camera volume (“NO NAME” or “NO_NAME”) into the Trash.



Printing Pictures

To print pictures:

- select pictures for printing using **Print set** (📷 58) and take the memory card to a digital print service center or insert the card into a personal photo printer equipped with a card slot. To print the pictures in internal memory, copy them to a memory card before selecting pictures using **Print set**. Some print services may be able to print pictures directly from the camera.
- use the USB cable to connect the camera to a printer that supports Pict-Bridge and print pictures directly from the camera (📷 61)
- transfer the pictures using PictureProject and print them from a computer (see the *PictureProject Reference Manual*, on CD)

To print the time and date of recording on pictures:

- take pictures using the **Date imprint** option in the setup menu, which imprints the date or date and time of recording directly on pictures as they are taken (📷 95)
- if the photo printer or print service supports Digital Print Order Format (DPOF), use the **Date** option in the **Print set** menu (📷 58)
- transfer the pictures using PictureProject and print them using the “Print Metadata” option (see the *PictureProject Reference Manual*, on CD)

🔪 “Print Set” and Digital Print Order Format (DPOF)

The **Print set** option in the playback menu is used to create a digital “print order” listing the pictures to be printed, the number of prints, and the information to be included on each print. This print order is stored on the camera memory card in Digital Print Order Format (DPOF). Once a print order has been created, the memory card can be inserted in a DPOF-compatible device and the pictures printed directly from the card. Before using this option, check that the printer or print service supports DPOF. Note that if the **Print set** option has not been used to create a print order, one copy of all the pictures on the memory card will be printed.

🔍 “Date Imprint” Versus the Print Set “Date” Option

Date imprint	Print set > Date
Must be set before picture is taken	Set after picture is taken
Date permanently imprinted on picture	Date stored separately
Date appears whenever picture is printed	Date only appears when picture is printed on DPOF-compatible printer

Print Set

The **Print set** option in the playback menu is used to create digital “print orders” for devices that support DPOF (📄 57). The camera must be in playback mode to create or modify print orders (📄 76).

- 

1

Display playback menu.
- 

2

Display PRINT SET menu.
- 

3

Highlight Print selected.
- 

4

Display selection dialog.
- 

5

Scroll through pictures. Current picture shown at bottom of display.
- 

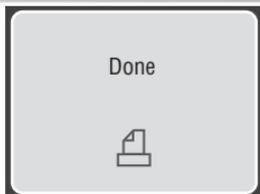
6

Select current picture and set number of prints to 1. Selected pictures marked by 📄 icon.
- 

7

Use multi selector to specify number of prints (up to 9). To deselect picture, press multi selector down when number of prints is 1. Repeat steps 5–7 to select additional pictures.

8



Press center of multi selector to complete print order and display menu of print options.

- To print date of recording on all pictures in print order, highlight **Date** and press center of multi selector. ✓ will appear in box next to item.
- To print shutter speed and aperture on all pictures in print order, highlight **Info** and press center of multi selector. ✓ will appear in box next to item.
- To turn selected item off, highlight and press center of multi selector.

To complete print order and return to playback, highlight **Done** and press center of multi selector. To exit without altering print order, press **REW** button.

Print Set

If the menu shown in Step 8 is displayed after a print order is created, the **Date** and **Info** options will be reset.

“Date”

If **Date** is selected in the print set menu, the date of recording will appear on any pictures printed using devices that support the DPOF date function. Note that the information printed on the image will not be correct unless the camera clock was set correctly when the picture was taken ( 13).

The date stamp recorded when **Date** or **Date and time** is selected for **Date imprint** ( 95) forms a permanent part of the image and will appear whenever the image is printed, even if the printer does not support the DPOF date function. Print set can not be used to print the time and date of recording on pictures recorded when **Date** or **Date and time** is selected for **Date imprint**.

The Print-Order Icon

During playback, a print-order icon appears on all pictures in the current print order.



Printing Via Direct USB Connection

When the camera is connected to a PictBridge-compatible printer via the UC-E6 USB cable, selected pictures can be printed directly from the camera.

Step 1

Set the USB option to PTP (60)



Step 2

Connect the USB Cable (61)



Step 3

Print

- Print selected pictures (61)
- Print DPOF print order (63)

Step 1—Set the USB Option to PTP

Before pictures can be printed via direct USB connection, the **USB** option in the setup menu must be set to **PTP** (54; the default option is **Mass storage**). Be sure to change the USB option *before* connecting the printer.

Before Printing

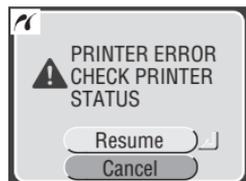
Paper type, tray, and size selections are made from the printer; see the printer manual for details. Before printing, make sure that the printer supports PictBridge.

Use a Reliable Power Source

When printing pictures via direct USB connection, be sure the battery is fully charged. If in doubt, recharge the battery before printing or use the optional EH-54 AC adapter.

Error Messages

If the dialog shown at right is displayed, an error has occurred. After checking the printer and resolving any problems as directed in the printer manual, highlight **Resume** and press the center of the multi selector to resume printing. Select **Cancel** to exit without printing the remaining images.

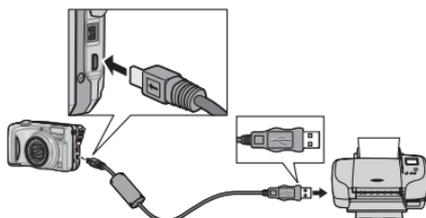


PictBridge

PictBridge is an industry standard for direct printing that ensures compatibility when different devices are connected.

Step 2—Connect the USB Cable

After confirming that the camera is off, connect the UC-E6 USB cable as shown below.



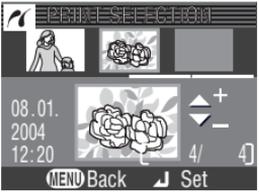
UC-E6 USB cable

Turn the camera and printer on. The menu shown at right will be displayed in the camera monitor.



Step 3—Print Pictures

To print selected pictures:

<p>1</p>   <p>Highlight Print.</p>	<p>2</p>   <p>Display options.</p>
<p>3</p>   <p>Highlight Print selection.*</p>	<p>4</p>   <p>Display selection dialog.</p>

* To print one copy of all pictures, highlight **Print all images** and press multi selector to right.

5



Scroll through pictures. Current picture shown at bottom of display.

6



Select current picture and set number of prints to 1. Selected pictures marked by icon.

7



Use multi selector to specify number of prints (up to 9). To deselect picture, press multi selector down when number of prints is 1. Repeat steps 5–7 to select additional pictures.

8



View selected pictures. Press multi selector up, right, left, or down to view pictures not visible in display.

9

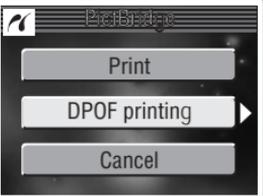


Display confirmation dialog. Press multi selector up or down to highlight option, press center to select.

- Select **Start print** to start printing. To interrupt printing, press center of multi selector, then turn camera off and disconnect USB cable.
- Select **Back** to return to print selection dialog shown in Step 4.
- Select **Cancel** to exit without printing pictures.

Message shown above at right is displayed when printing is complete. Turn camera off and disconnect USB cable.

To print the current print order:

1   Highlight **DPOF printing**.

2   Display options.

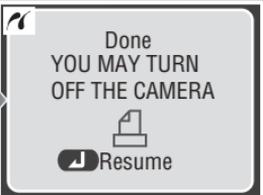
3   Highlight **Confirm** (to exit without printing pictures, highlight **Cancel** and press center of multi selector).

4   Display print order. Press multi selector up, right, left, or down to view pictures not visible in display.

5   Display confirmation dialog. Press multi selector up or down to highlight option, press center to select.

- Select **Start Print** to start printing. To interrupt printing, press center of multi selector, then turn camera off and disconnect USB cable.
- Select **Cancel** to exit without printing pictures.

Message shown above at right is displayed when printing is complete. Turn camera off and disconnect USB cable.

DPOF Printing

The **DPOF printing** option is only available if pictures have previously been selected for printing using **Print set** (📷 58–59). Date and shooting information (📷 59) will not be included when pictures are printed via direct USB connection.

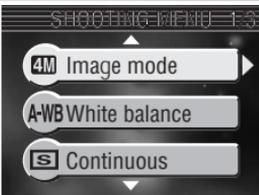
Menu Guide

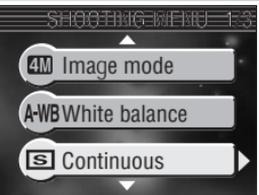
The Shooting Menu

The following shooting menu options are available in  (auto) mode:

Option	Description	
Image mode	Choose image size and quality.	65–66
White balance	Match white balance to the light source.	67–68
Continuous	Take pictures one at a time or in a sequence.	69
BSS	Turn the Best Shot Selector (BSS) on or off.	70
Sensitivity	Control camera's sensitivity to light.	71
Image adjustment	Control contrast.	72
Image sharpening	Control how much the camera sharpens outlines.	73
AF area mode	Determines how the focus area is selected.	74
Color options	Control color.	75

To display the shooting menu, rotate the mode dial to  and press the  button. To make a selection from the shooting menu:

1   Highlight menu item.

2   Display options.

3   Highlight option.

4   Make selection.

To exit the menu and return to shooting mode, press the  button again. Defaults can be restored using the **Reset all** option in the setup menu ( 99).



4M Image Mode

Pictures taken with a digital camera are recorded as image files. The size of the files, and with it the number of images that can be recorded, depends on the *size* and *quality* of the images (image mode). Before shooting, choose an image mode according to how you plan to use the picture.



Option	Size (pixels)	Compression ratio*	Description	Print size (cm) [†]
4M* High (2288*)	2,288 × 1,712	1:4	High quality, suitable for enlargements or high-quality prints.	19 × 14 (7½" × 5")
4M Normal (2288)	2,288 × 1,712	1:8	Best choice in most situations.	19 × 14 (7½" × 5")
2M Normal (1600)	1,600 × 1,200	1:8	Smaller size allows more pictures to be stored on memory card.	14 × 10 (5" × 4")
PC PC screen (1024)	1,024 × 768	1:8	Suited to printing at smaller sizes (for example, in a letter or report) or to display on computer monitors 17" or larger.	9 × 7 (3½" × 2½")
TV TV screen (640)	640 × 480	1:8	Can be displayed full screen on television or 13" monitor. Suited to distribution by e-mail or web.	5 × 4 (2" × 1½")

* To reduce the amount of memory each shot occupies, pictures are compressed as they are saved. Compression selectively reduces the quality of the image. The more a picture is compressed, the more noticeable this loss of quality is likely to be. The figures show the approximate compression ratio for each setting.

† All figures are approximate. Print sizes assume a printer resolution of approximately 300 dpi.

Assist and Scene Modes

The image mode menu is also available in assist and scene modes (27, 29, 33).

The following table shows the approximate number of pictures that can be stored in internal memory and on a 256-megabyte memory card in different image modes.

Image mode	Internal memory (13.5 MB)	256 MB memory card	File size
4M* High (2288*)	7	125	1.9 MB
4M Normal (2288)	14	250	1.0 MB
2M Normal (1600)	27	480	500 KB
PC PC screen (1024)	57	1035	230 KB
TV TV screen (640)	123	2220	110 KB

* All figures are approximate. File size of pictures depends on scene recorded, producing wide variations in number of images that can be stored. If memory remains for more than 999 pictures, camera exposure count display will show 999.

Image Size

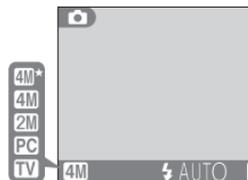
Smaller images create smaller files suited to transmission by e-mail or use in web pages. When printed at larger sizes, however, small images will be rough and uneven in appearance.

Print Size

The size of images when printed depends on the printer resolution: the higher the resolution, the smaller the final print size.

Image Mode

The current image mode is shown by an icon at the bottom left corner of the display.





A-WB White Balance

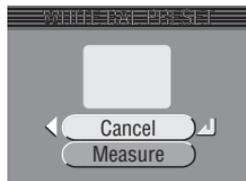
The color of the light reflected from an object varies with the color of the light source. The human brain is able to adapt to such changes in color, with the result that we see white objects as white, regardless of whether they are in the shade, direct sunlight, or under incandescent lighting. Digital cameras can mimic this adjustment by processing information from the camera's image sensor (CCD) according to the color of the light source. This process is known as a "white balance adjustment."



Option	Description
A-WB Auto	White balance automatically adjusted to suit lighting conditions. Best choice in most situations.
PRE White bal. preset	Gray object used as reference to set white balance under unusual lighting conditions.
 Daylight	White balance adjusted for direct sunlight.
 Incandescent	Use under incandescent lighting.
 Fluorescent	Use under most types of fluorescent lighting.
 Cloudy	Use when taking pictures under overcast skies.
 Speedlight	Use with the flash.

PRE Preset White Balance

Preset white balance is used 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 **PRE (White bal. preset)** is selected from the white-balance menu, the camera will zoom in and the menu shown above at right will be displayed in the monitor.



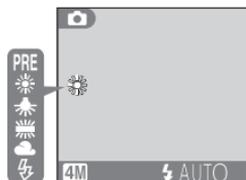
Option	Description
Cancel	Recalls the most recent value for preset white balance from the memory and sets white balance to this value.
Measure	To measure a new value for white balance, place a neutral gray object, such as a piece of cardboard, under the lighting that will be used in the final picture.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

Preset White Balance

Preset white balance can not be measured with the flash.

White Balance

At settings other than **A-WB (Auto)**, white balance is shown by an icon in the display.





S Continuous

Use the options in this menu to capture a fleeting expression on a portrait subject, photograph a subject that is moving unpredictably, or capture motion in a series of pictures.



Option	Description
 Single	One shot is taken each time shutter-release button is pressed.
 Continuous	While shutter-release button is pressed, camera takes pictures at rate of up to 1.5 fps until  (wait) icon is displayed.
 Multi-shot 16	Each time shutter-release button is pressed, camera takes sixteen consecutive pictures 572 × 428 pixels in size at rate of about 2 fps and arranges them in four rows to form a single picture measuring 2288 × 1712 pixels. Image mode automatically set to  Normal (2288) . 
 3 shot buffer	Camera shoots at up to 1 fps while shutter-release button is pressed, but only last few shots are saved (number of pictures recorded depends on current image mode setting).

Restrictions on Camera Settings

At settings other than **Single**, the flash ( 38) and BSS ( 70) turn off and focus, exposure, and white balance for all pictures are determined by the first shot in each series. **Continuous** is automatically set to **Single** when the self-timer is activated ( 40) or BSS is enabled ( 70). Digital zoom ( 17) can not be used with **Multi-shot 16**.

The Memory Buffer

During shooting, pictures are stored in a temporary memory buffer before being transferred to internal memory or to the memory card for permanent storage. The number of pictures that can be stored depends on image mode; the maximum at  **Normal (2288)** is eight. When the buffer is full, a  (wait) icon will be displayed and shooting will be suspended. More pictures can be taken as soon as enough memory becomes available in the buffer.

Continuous

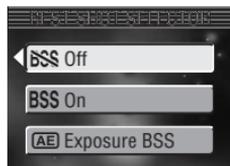
At settings other than **Single**, the current “continuous” setting is shown by an icon in the display.





BSS Best Shot Selector (BSS)

The options in the “best-shot selector” (BSS) menu are recommended for situations in which inadvertent camera movement can produce blurred pictures, or when parts of the image are prone to under- or over-exposure.



Option	Description
 Off	BSS off; camera functions normally. 
BSS On	Camera takes shots while shutter-release button is pressed, to a maximum of ten, but only sharpest picture (picture with highest level of detail) is saved. Flash turns off automatically and focus, exposure, and auto white balance for all photos are determined by the first picture in each series. Recommended for situations in which inadvertent camera movement can produce blurred pictures, for example when: <ul style="list-style-type: none"> • the camera is zoomed in • macro close-up is in effect • lighting is poor and the flash can not be used 
 Exposure BSS	Selecting this option displays sub-menu shown at right. Choose from: <ul style="list-style-type: none"> • Highlight BSS: picture with smallest area of overexposure is selected. • Shadow BSS: picture with smallest area of underexposure is selected. • Histogram BSS: of pictures with least under- and over-exposure, camera chooses picture with overall exposure closest to optimum. Camera takes five shots each time shutter-release button is pressed, but only picture that best meets selected criterion is saved. Flash turns off automatically and focus and auto white balance for all photos are determined by the first picture in each series. Recommended for subjects containing areas of high contrast, when it is difficult to set exposure correctly. 

A-ISO Sensitivity

Sensitivity (ISO equivalency) is a measure of how quickly the camera reacts to light. The higher the sensitivity, the less light needed to make an exposure. Much as film with a high ISO rating tends to produce “grainy” images, high sensitivities may however be associated with “noise”—randomly spaced, brightly colored pixels concentrated in dark parts of the image.



Option	Description
Auto	Equivalent to 50 under normal conditions; when lighting is poor, however, camera compensates by raising sensitivity. ISO icon displayed in monitor when sensitivity is raised.
50	Approximately equivalent to ISO 50. Recommended unless lighting is poor or faster shutter speeds are required (e.g., when the subject is moving). Noise may appear in pictures taken at settings above this value.
100	Approximately equivalent to ISO 100.
200	Approximately equivalent to ISO 200.
400	Approximately equivalent to ISO 400.

Restrictions on BSS 70

BSS can not be used with the self timer  40) or at **Continuous** settings other than **Single**  69). **On** may not produce the desired results with a moving subject or if the composition is changed while the shutter-release button is pressed all the way down.

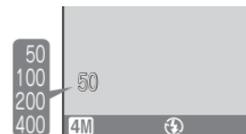
BSS 70

At settings other than **Off**, the current BSS setting is indicated by an icon in the display.



Sensitivity

At settings other than **Auto**, the current sensitivity setting is indicated by an icon in the display.



Select

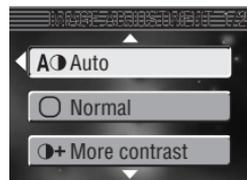
Press

Select



A Image Adjustment

The options in the image adjustment menu control contrast.



Option	Description
A Auto	Camera automatically adjusts contrast according to shooting conditions.
<input type="radio"/> Normal	Camera performs same standard contrast adjustment on all pictures. Suitable for a wide variety of scenes, from dark to bright.
<input checked="" type="radio"/> + More contrast	Picture processed to emphasize difference between light and dark areas, enhancing contrast. Useful when shooting under overcast skies or shooting low contrast subjects such as landscapes.
<input type="radio"/> - Less contrast	Picture processed to decrease difference between light and dark areas, reducing contrast. Recommended when light is very bright, creating strong shadows on subject.

A Image Sharpening

This option controls how the camera processes pictures to emphasize the borders between light and dark areas of the image, making edges seem sharper. As this processing takes place after shooting, its effects can not be previewed in the monitor or electronic viewfinder, but they will be visible in the final picture.



Option	Description
A  Auto	Camera sharpens edges for optimal results; amount of sharpening varies from shot to shot.
 High	Pictures processed to increase sharpness, making edges more distinct.
 Normal	Camera performs same standard level of sharpening on all images.
 Low	Sharpening reduced below normal level.
 Off	No sharpening performed.

Taking Pictures for Retouching on a Computer

When taking pictures that will later be retouched, choose **Off**.

[■] AF Area Mode

AF area mode determines how the focus area is selected.



Option	Description
Auto	Camera automatically selects focus area containing subject closest to camera. Selected focus area is displayed when shutter-release button is pressed halfway.
Manual	User selects focus area manually using multi selector. Exposure set by metering lighting in selected focus area only (spot AF area metering). Can be used instead of focus lock (20) to focus on off-center subjects.
Off	Camera focuses on subject in center focus area. Can be used in combination with focus lock (20) to focus on off-center subjects.

Manual Focus Area Selection

To select the focus area when **Manual** is selected for **AF area mode**:



Flash mode, the self timer, macro mode, and exposure compensation can not be adjusted while the focus area is highlighted in red. Press the center of the multi selector to select the focus area before adjusting these settings.

Restrictions on Focus Area Selection

The center focus area is used when digital zoom (17) is in effect.



Color Options

This option is used to heighten the vividness of colors or to record pictures in monochrome. The effects of the current setting are visible in the monitor or electronic viewfinder during shooting.



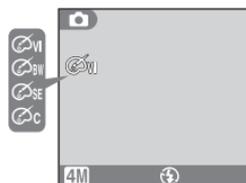
Option	Description
 Standard color	Subjects are recorded in their natural colors.
 Vivid color	Use for a vivid, photoprint effect.
 Black-and-white	Pictures are recorded in black-and-white.
 Sepia	Pictures are recorded in sepia.
 Cyanotype	Pictures are recorded in blue-tinted monochrome.

White Balance

Selecting **Black-and-white**, **Sepia**, or **Cyanotype** automatically sets white balance (see page 67) to **Auto**. The original white balance setting is restored when **Standard color** or **Vivid color** is selected.

Color Options

At settings other than **Standard color**, the current color option setting is indicated by an icon in the display.

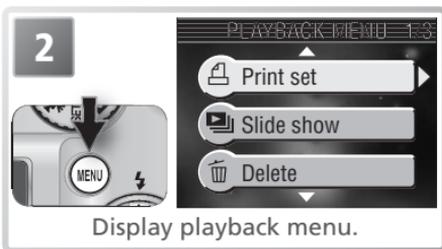


The Playback Menu

The playback menu contains the following options:

Option	Description	
Print set	Select pictures for printing on DPOF-compatible devices; specify number of copies and information to be included on prints.	58–59
Slide show	View pictures in an automatic slide show.	77–79
Delete	Delete all or selected pictures.	80–81
Protect	Protect selected pictures from accidental deletion.	82
Auto transfer	Mark all or selected pictures for transfer to a computer; turn auto transfer marking on or off.	83–84
Small pic.	Create small copies of current picture.	85
Copy	Copy pictures from internal memory to memory card or vice versa.	86–87
Sort by date	Group pictures into folders by date.	88
Instant index	Create index prints of sixteen pictures each.	89–90

To display the playback menu:



To exit the menu and return to playback mode, press the  button again.

Slide Show

This option is used to play pictures back in an automated "slide show" with about three seconds between each picture.

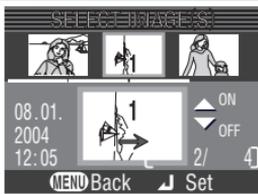


Option	Description
Select image(s)	View chosen pictures in selected order.
Select all	View all pictures in order recorded.

Viewing Chosen Pictures in the Order Selected

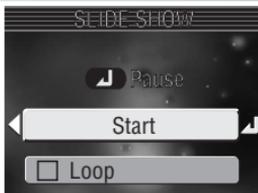
- Highlight **Select image(s)**.
- Display selection dialog.
- Scroll through pictures. Current picture displayed at bottom of monitor.
- Select picture. Selected picture marked by number showing position in slide show; press multi selector up or down to change order. To deselect picture, press multi selector down until number is no longer displayed.

5



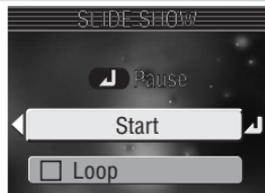
Press **W** to rotate picture 90° left (→ appears on picture) or **T** to rotate picture 90° right (← appears on picture). Movies can not be rotated. Repeat steps 3–5 to select additional pictures. To exit without changing selection, press **Menu** button.

6



Starting screen displayed.

7



Highlight Start.

8



Begin slide show.

Viewing All Pictures in the Order Recorded

1



Highlight Select all.

2



Starting screen displayed. Start slide show as described in steps 7–8, above.

The following operations can be performed during the show:

To	Press	Description
Pause slide show		Menu shown at right will be displayed. Highlight Restart and press multi selector to right to resume show. Highlight End and press multi selector to right to end show.
Skip to next frame		Press multi selector right to skip to next slide. Hold multi selector down to fast forward through show.
Return to previous frame		Press multi selector left to return to previous slide. Hold multi selector down to rewind through show.
End slide show		End slide show and return to playback.

When the slide show ends, the pause menu shown at right will be displayed. Press the multi selector up or down to highlight an option, then press to the right to select:

- **End:** end slide show and return to playback menu
- **Restart:** restart slide show from first frame



Auto Off

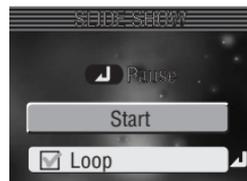
The camera will enter standby mode if no operations are performed for thirty minutes during a slide show.

Slide Shows

Index prints ( 89) and copies created with the small picture option ( 85) are not displayed during slide shows. Movies are displayed as still images showing the movie's first frame.

"Loop"

If **Loop** is selected in the starting screen, the slide show will repeat automatically. To select or deselect the loop option, highlight **Loop** and press the center of the multi selector. A check mark next to **Loop** indicates that the loop option is selected.



Delete

The delete menu contains the following options:

Option	Description
Erase selected images	Delete selected pictures.
Erase all images	Delete all pictures.



If no memory card is inserted, pictures will be deleted from internal memory. If a memory card is inserted, pictures will be deleted from the memory card.

Deleting Selected Pictures

- Highlight **Erase selected images**.
- Display selection dialog.
- Scroll through pictures. Current picture displayed at bottom of monitor.
- Select current picture. Selected pictures marked by icon.
- Repeat steps 3–4 to select additional pictures. To deselect picture, select and press multi selector down. To exit without changing selection, press button.
- Confirmation dialog displayed. Press multi selector up or down to highlight option, press center to select:

 - Select **Yes** to delete selected pictures
 - Select **No** to exit without deleting pictures

Deleting All Pictures

1



Highlight **Erase all images**.

2



Confirmation dialog displayed. Press multi selector up or down to highlight option, press center to select:

- Select **Yes** to delete all unprotected pictures
- Select **No** to exit without deleting pictures

Before Deletion

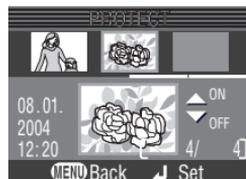
Once deleted, pictures can not be recovered. If desired, transfer pictures to a computer before deletion ( 53).

Protected Pictures

Pictures marked with a  icon are protected and can not be deleted ( 82).

Protect

This option is used to protect pictures from accidental deletion. Protected files can not be deleted by pressing the button or using the options in the **Delete** menu. Note, however, that protected pictures *will* be deleted when the memory card or internal memory is formatted (98).



1

Scroll through pictures. Current picture displayed at bottom of monitor.

2

Select current picture. Selected pictures marked by icon.

3 Repeat steps 1–2 to select additional pictures. To deselect picture, select and press multi-selector down. To exit without changing selection, press button.

4

Complete operation.

The Protect Icon

During playback, a protect icon appears on all protected pictures.



Auto Transfer

This option is used to mark pictures for transfer to a computer. Pictures tagged using this option can be transferred using PictureProject. See the *PictureProject Reference Manual* (on CD) for details.



Option	Description
All on (default option)	All existing pictures are marked for transfer. Pictures taken while this option is in effect will be marked for transfer.
All off	Remove transfer marking from all existing pictures. Pictures taken while this option is in effect will not be marked for transfer.
Select image(s)	Mark selected pictures for transfer.

Restrictions on Auto Transfer

No more than 999 pictures can be transferred using **Auto transfer**. To transfer more than 999 pictures, use PictureProject or select and transfer pictures in batches of 999 or less.

The COOLPIX 4800 can not be used to transfer pictures selected for transfer with another model of Nikon digital camera. Use the COOLPIX 4800 to reselect the pictures.

The Icon

Pictures that have been selected for transfer are identified by a icon.



Full-frame playback



Thumbnail playback

When you connect the camera to a computer via the UC-E6 USB cable and press the center of the multi selector (button) to transfer pictures, only pictures marked with a icon will be transferred. Note that pictures will not be transferred from a locked memory card (11) or from internal memory if **Mass Storage** is selected for **USB** (53). Use the PictureProject **Transfer** button.

■ ■ ■ Marking Selected Pictures for Transfer

1



Highlight **Select image(s)**.

2



Display selection dialog.

3



Scroll through pictures. Current picture displayed at bottom of monitor.

4



Select current picture. Selected pictures marked by  icon.

5

Repeat steps 3–4 to select additional pictures. To deselect picture, select and press multi selector down. To exit without changing selection, press  button.

6



Complete operation.

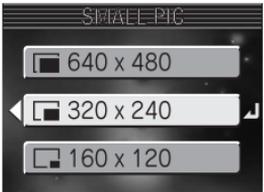
Small Picture

To create a small copy of a picture, select **Small pic.** after displaying the image in full-frame playback or selecting it in the thumbnail display.



Option	Description
640 x 480	Can be displayed full frame on TV.
320 x 240	Suited to display on web pages. Small file size reduces time needed to display picture in web browser.
160 x 120	Can be sent and received quickly as e-mail attachment.

1

Highlight option.

2



Save this image as displayed?

< No >

Yes

Confirmation dialog displayed. Press multi-selector up or down to highlight option, press center to select:

- **Yes:** create resized copy
- **No:** exit without creating copy

Copies are stored as JPEG files (compression ratio 1 : 16) with names of the form "SSCNnnnn.JPG," where "nnnn" is a four-digit file number assigned by adding one to the largest file number in the current folder. Copies are created with the same transfer marking and date and time of creation as the original, but are otherwise independent of the original image and can be modified or deleted separately. Print (📄 58) and protect (🔒 82) attributes are not set when copies are created. During playback, copies are indicated by a gray border; a , , or icon is displayed when copies are viewed full-frame.

Small Pictures

Copies can only be created if sufficient memory is available. Small copies may not display or transfer correctly when viewed on other models of Nikon camera. Small copies can not be created from movies (📽 43), small pictures, or cropped copies.

Copy

To copy pictures from internal memory to a memory card or from a memory card to internal memory, insert a memory card in the camera and follow the steps below. This option is only available when a memory card is inserted.



Copying Selected Pictures

1



Highlight (copy from internal memory to memory card) or (copy from memory card to internal memory).

2



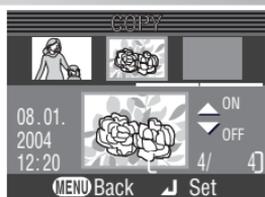
Display menu.

3



Highlight **Selected images**.

4



Display pictures.

5



Scroll through pictures. Current picture displayed at bottom of screen.

6



Select current picture. Selected pictures marked by icon.

7

Repeat steps 5–6 to select additional pictures. To deselect picture, select and press multi selector down. To exit without changing selection, press  button.

8



Confirmation dialog displayed. Press multi selector up or down to highlight option, press center to select:

- Select **Yes** to copy selected pictures
- Select **No** to exit without copying pictures

Copying All Pictures

To copy all pictures, select the source as described in Steps 1–2 on the preceding page. Highlight **All images** and press the multi selector to the right. The confirmation dialog shown at right will be displayed; press the multi selector up or down to highlight an option and press the center to select:



- Select **Yes** to copy all pictures
- Select **No** to exit without copying pictures

Restrictions on Copying

If the message “IMAGE CANNOT BE SAVED” is displayed, the destination does not have enough memory to complete the operation. Delete pictures or, if copying to a memory card, insert a new memory card.

The camera may be unable to copy pictures that were created with another make of camera or that have been modified on a computer.

File Names

Pictures copied using **Selected images** are copied to the current folder, where they are assigned new file numbers in ascending order starting from the largest file number in memory. **All images** copies all folders from the source device; file names do not change but new folder numbers are assigned in ascending order starting from the largest folder number on the destination device.

Print, Transfer, and Protect Marking

Copied pictures lose all print  (58) and transfer  (83) marking. Protect marking  (82) is not affected.

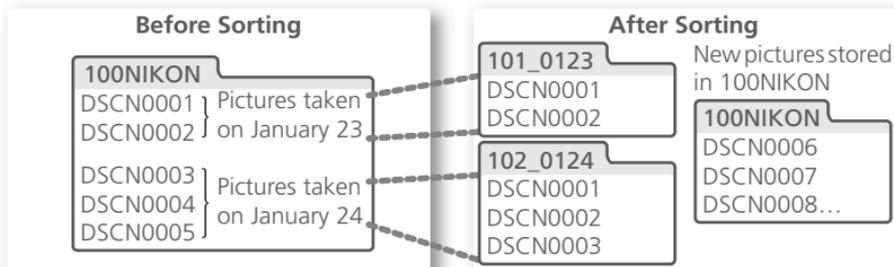
Sort by Date

To sort pictures into separate folders by date, select **Sort by date** in the playback menu. The confirmation dialog shown at right will be displayed; press the multi-selector up or down to highlight an option and press the center to select:



- **No:** exit without sorting pictures.
- **Yes:** sort pictures into folders by date. A new folder will be created for each day that pictures were taken. Folders are named by adding the date (month and day) to a three-digit sequence number (e.g., "101_0123" for pictures taken on January 23rd). All pictures taken on that date are moved to this folder and assigned new file numbers starting from 0001; any associated voice memos are moved to the same folder and renamed accordingly (note that pictures taken on the same day and month but in different years will be sorted to the same folder).

Pictures taken after sorting are stored in the folder used before sorting began.



Sort by Date

Sort by date permanently renames all affected files and folders; the original names can not be restored. Print ( 58) and transfer ( 83) marking is lost, but protect marking ( 82) is not affected.

Restrictions on Sorting

Pictures will not be sorted if the current folder is numbered 999. The following types of picture are not moved when pictures are sorted: pictures taken using **Panorama assist** and stored in folders beginning with "P_" ( 36), copies created with the small picture option ( 85), cropped copies ( 50), index prints ( 89), pictures that have already been sorted, and pictures for which the date of creation was not recorded ( 13).



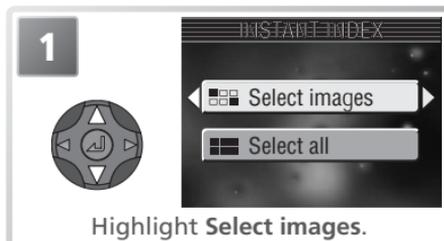
Instant Index

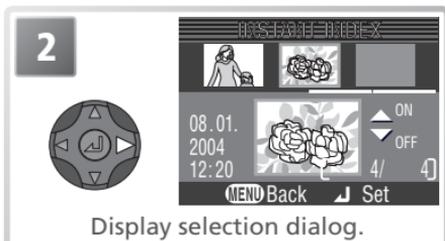
This option creates “index prints” that show sixteen pictures arranged in four rows to form a single image.

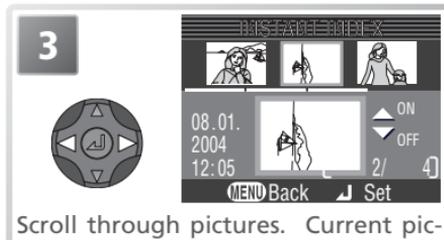


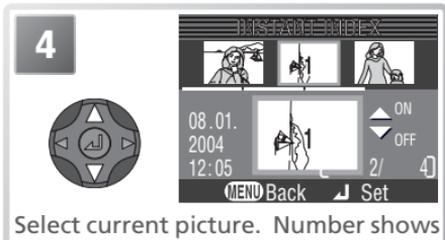
Option	Description
 Select images	Select up to 16 pictures for index print.
 Select all	Create index prints for all pictures except movies and existing index prints.

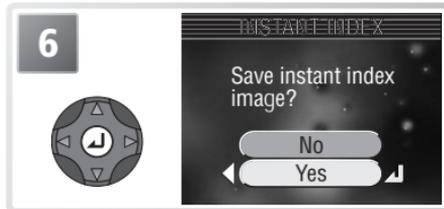
Selecting Pictures for an Index Print

- 

1 Highlight **Select images**.
- 

2 Display selection dialog.
- 

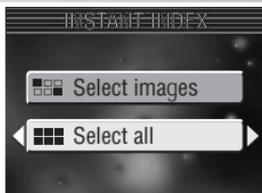
3 Scroll through pictures. Current picture displayed at bottom of monitor.
- 

4 Select current picture. Number shows position of picture in print.
- 5 Repeat steps 3–4 to select additional pictures (maximum 16). To deselect picture, select and press multi-selector down. To exit without changing selection, press **MENU** button.
- 

6 Create index print.

■ ■ ■ Creating Index Prints for All Pictures

1



Highlight **Select all**.

2



Confirmation dialog displayed. Press multi selector up or down to highlight option, press center to select:

- Select **Yes** to create index prints for all pictures, starting from file with lowest folder number. Each print contains up to 16 pictures; if more than 16 pictures are present in internal memory or on memory card, multiple index prints will be created.
- Select **No** to exit without creating index prints.

Index prints have an image mode setting of **4M Normal (2288)** and are stored in folders consisting of a three-digit folder number followed by "INDEX" (e.g., "101INDEX"; if the highest numbered folder is not already an index folder, a new folder will be created by adding one to the highest folder number). If an index print contains less than sixteen pictures, the remaining space will be filled by white squares.

Index Print

Index prints will not be created from movies (📺 43) or other index prints. Index prints are not displayed during slide shows.

The Setup Menu

The setup menu contains the following options:

Option	Description	
Welcome screen	Select a start-up screen.	92
Date	Set the camera clock and choose home and travel destination time zones.	13, 93–94
Date imprint	Imprint pictures with the date and/or time of recording.	95
Monitor settings	Adjust display brightness and specify when display turns on.	96
Sound settings	Adjust sound and volume settings	97
Auto off	Choose how long display will remain on before turning off automatically to save power.	98
Format memory/ Format card	Format internal memory or memory card.	98
Language	Choose a language for camera menus and messages.	99
USB	Choose USB setting used when copying pictures to computer or printing on PictBridge printer.	54
Video mode	Select video mode from NTSC and PAL.	99
Reset all	Restore camera settings to default values.	99–100
Firmware version	Display camera firmware version.	100

The setup menu is displayed when the mode dial is rotated to **SET UP**.



To exit the setup menu, rotate the mode dial to another setting.

Nikon Welcome Screen

Choose the welcome screen displayed when the camera is turned on.



Option	Description
Disable welcome	No welcome screen is displayed when camera is turned on.
Nikon	Image shown at right is displayed when camera is turned on. 
Animation	Animation shown at right is displayed when camera is turned on. 
Select an image	Choose welcome screen from pictures in internal memory or on memory card. Press multi selector left or right to scroll through pictures, press center to select. To exit without changing welcome screen, press MENU . 

Welcome Screen

Reset all ( 99) resets **Welcome screen** to **Animation**. The image last selected for **Select an image** will be restored the next time **Select an image** is selected.

If **Select an image** is chosen after a custom welcome screen has been selected, the confirmation dialog shown at right will be displayed. Select **Yes** to replace the existing picture with the new welcome screen, **No** to exit leaving the welcome screen unchanged.

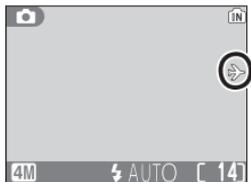


Small Pictures and Cropped Copies

Copies created with the small picture and cropping options can only be selected for the welcome screen if they are 640×480 pixels or larger.

➔ (Travel Destination Time Zone)

To set the clock to the travel destination time zone, highlight ➔ and press the center of the multi selector. While the travel destination time zone selected, a ➔ icon will be displayed when the camera is in shooting mode (see illustration at right). To choose a new travel destination, highlight ➔ and press the multi selector to the right, then choose a location as described on the previous page.



DaylightSaving (Daylight Saving Time)

To turn daylight saving time on or off, highlight **DaylightSaving** and press the center of the multi selector. Selecting daylight saving time automatically advances the time one hour.

The camera supports the following time zones:

GMT +/-	Location
GMT -11	Midway, Samoa
GMT -10	Hawaii, Tahiti
GMT -9	Alaska, Anchorage
GMT -8	PST (PDT): Los Angeles, Seattle, Vancouver
GMT -7	MST (MDT): Denver, Phoenix, La Paz
GMT -6	CST (CDT): Chicago, Houston, Mexico City
GMT -5	EST (EDT): New York, Toronto, Lima
GMT -4	Caracas, Manaus
GMT -3	Buenos Aires, São Paulo
GMT -2	Fernando de Noronha
GMT -1	Azores
GMT	London, Casablanca

GMT +/-	Location
GMT +1	Madrid, Paris, Berlin
GMT +2	Athens, Helsinki
GMT +3	Moscow, Nairobi
GMT +4	Abu Dhabi, Dubai
GMT +5	Islamabad, Karachi
GMT +6	Colombo, Dhaka
GMT +7	Bangkok, Jakarta
GMT +8	Beijing, Hong Kong, Singapore
GMT +9	Tokyo, Seoul
GMT +10	Sydney, Guam
GMT +11	New Caledonia
GMT +12	Auckland, Fiji

Time Zones

The time zone can not be selected if the date and time have not been set.

Time zone increments of less than one hour are not supported. When travelling to or from destinations at half- or quarter-hour increments from Greenwich Mean Time (GMT), such as Afghanistan, Central Australia, India, Iran, Nepal, or Newfoundland, set the camera clock to local time (🕒 13).

DATE **Date Imprint**

The date imprint option is used to imprint the date or the date and time of recording on pictures as they are recorded to the memory card. It can not be used to imprint a date stamp on pictures after recording.



Option	Description
DATE Off	Time and date do not appear on pictures.
DATE Date	Date is imprinted at bottom right corner of all pictures taken while this option is in effect.
DATE Date and time	Date and time are imprinted at bottom right corner of all pictures taken while this option is in effect.

Image Mode

Data imprinted at an **Image mode** setting of **TV screen (640)** may be difficult to read. Choose a setting of **PC screen (1024)** or larger when using the date imprint option (65).

Restrictions on Date Imprint

Date imprint turns off in **Panorama assist** (36) and movie modes (43), when **Continuous** or **3 shot buffer** is selected in the **Continuous** menu (69), and when **BSS** is enabled (70).

Date Imprint

Imprinted data forms a permanent part of the image and will appear whenever the image is printed, regardless of whether the date option is chosen in the **Print set** menu. At settings other than **Off**, a **DATE** icon is displayed during shooting. Check before shooting to make sure that the camera clock is set to the correct time and date.

The date is recorded in the order selected in the DATE menu. **Date imprint** can not be selected if the camera clock has not been set (13–14).

Print Set

The **Print set** option can be used to print the date and time of recording on images taken with **Off** selected for **Date imprint** (58–59).



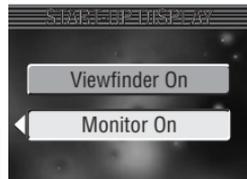
Monitor Settings

This option controls the monitor settings described below.



Start-up Display

Start-up display controls whether the monitor or the electronic viewfinder lights when the camera is turned on.



Option	Description
Viewfinder On	Viewfinder turns on at startup.
Monitor On	Monitor turns on at startup.

Review Options

This option controls whether pictures are displayed after shooting.



Option	Description
Review On	Pictures are displayed for about one second after shooting.
Review Off	Pictures are not displayed after shooting.

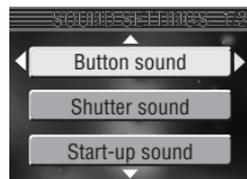
Brightness

Press the multi selector up or down to increase or decrease the brightness of the monitor or electronic viewfinder by moving the arrow to the left of the display up or down. Press the center of the multi selector to put the new setting into effect.



Sound Settings

The options in this menu control the sound settings listed below.



Option	Description	
Button sound	If On is selected, beep will sound once if memory card is inserted, data are deleted, memory card or internal memory is formatted, or new mode is selected. Beep will sound three times if battery is exhausted, or if memory card is locked or memory card or internal memory is full when shutter is released.	A screenshot of the 'Button sound' menu. It shows two options: 'On' and 'Off'. The 'On' option is currently selected.
Shutter sound	Choose sound played when shutter is released. If Off is selected, no sound will be played when shutter is released. Regardless of setting chosen, no sound is played in (Sports) mode (30), at Continuous settings other than Single (69), when flash fires, or when BSS is enabled (70).	A screenshot of the 'Shutter sound' menu. It shows four options: '1', '2', '3', and 'Off'. The '1' option is currently selected.
Sel start sound	If On is selected, startup sound will play when camera is turned on. Startup sound will not play if USB cable is connected (55).	A screenshot of the 'Sel start sound' menu. It shows two options: 'On' and 'Off'. The 'On' option is currently selected.
Volume	Choose volume for shutter and start sounds from Loud or Normal . Choosing Off mutes shutter and start sounds.	A screenshot of the 'Volume' menu. It shows three options: 'Loud', 'Normal', and 'Off'. The 'Normal' option is currently selected.

1m Auto Off

The time the camera remains active when no operations are performed can be chosen from 30 seconds, 1 minute (the default setting), 5 minutes, or 30 minutes. Regardless of the option chosen, the camera will remain active for 3 minutes when menus are displayed, and for 30 minutes during a slide show.



Format Memory / Format Card

If no memory card is inserted, this option is named **Format memory** and formats internal memory. Otherwise it is named **Format card** and formats the current memory card for use in the camera. *Note that formatting permanently deletes all data, including protected pictures and any other data that may be present.* Before formatting, be sure to transfer any valued pictures to a computer (53).



Option	Description
No	Exit without formatting internal memory or memory card.
Format	Format internal memory or memory card. Message shown at right displayed while formatting is in progress. <i>Do not turn camera off, remove batteries or memory card, or unplug AC adapter (available separately) while message is displayed.</i>



Format Card

Memory card performance drops as pictures are recorded and deleted. For best performance, format memory cards regularly.

Auto Off

When powered by a six-volt 2CR5 (DL245) lithium battery, the camera may become hot if left on for an extended period. We recommend that you set **Auto off** to five minutes or less when using this type of battery. When powered by an optional EH-54 AC adapter, the camera will remain on for thirty minutes if no operations are performed, regardless of the setting chosen for **Auto off**. If the video cable is connected, video output will continue indefinitely after the display has turned off.

Language

Choose the language for camera menus and messages from **Deutsch** (German), **English**, **Español** (Spanish), **Français** (French), **Italiano** (Italian), **Nederlands** (Dutch), **Svenska** (Swedish), 日本語 (Japanese), 中文(简体) (Simplified Chinese), 中文(繁體) (Traditional Chinese), and 한글 (Korean).



NTSC Video Mode

Before connecting the camera to a video device such as a television or VCR (📺 52), choose a video mode setting that matches the video standard used in the device. The camera supports NTSC and PAL standards.

SET UP ▶ Video mode



Reset All

Select this option to restore the settings listed below to their original state.

SET UP ▶ Reset all



Option	Description
No	Exit menu, leaving settings unchanged.
Reset	Restore settings to default values.

The following settings are affected:

Setting	Default
Flash mode	Auto
Self-timer	Off
Macro close-up	Off
Exposure compensation	±0
Movie options	Small size 320
Auto-focus mode	Single AF

Setting	Default
Scene mode	Party/Indoor
Portrait assist	PORTRAIT
Sensitivity	Auto
Landscape assist	LANDSCAPE
AE-BSS	Off
Sports assist	SPORTS
Sensitivity	Auto

Setting	Default
Night portrait assist	NIGHT PORTRAIT
Sensitivity	Auto
Image mode	Normal (2288)
White balance	Auto
Continuous	Single
Best Shot Selector	Off
Sensitivity	Auto
Image adjustment	Auto
Image sharpening	Auto
AF area mode	Off
Color options	Standard color

Setting	Default
Welcome screen	Animation
Date imprint	Off
Monitor options	
Start-up display	Monitor On
Review options	Review On
Brightness	3
Sound settings	
Button sound	On
Shutter sound	1
Select start sound	On
Volume	Normal
Auto off	1 m

Choosing **Reset** also clears the current file number (23) from memory. Numbering will continue from the lowest number available. All other settings are unaffected.

Resetting File Numbering to 0001

To reset file numbering to 0001, select **Reset all** after either deleting all pictures (80) or formatting the memory card or internal memory (98).

Ver. Firmware Version

Select this option to display the current camera firmware version. Press the multi selector to the left to return to the setup menu.

SET UP Ver. Firmware version



Technical Notes

Optional Accessories

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

Rechargeable battery	Additional EN-EL1 Li-ion batteries are available from your retailer or local Nikon representative
Battery charger	MH-53 battery charger for EN-EL1 batteries
AC adapter	EH-54 AC adapter
Carrying case	Soft case for COOLPIX 4800 cameras
Optional Speedlight	SB-30 Speedlight*
Flash bracket	SK-9 flash bracket for SB-30 Speedlights

* Maximum range: 3.5 m/11'6" (maximum zoom) to 6 m/19'8" (widest angle). May be unable to light entire subject at distances of less than 1 m (3'3").

Approved Memory Cards

The following cards have been tested and approved for use with the COOLPIX 4800:

SanDisk	16MB, 32MB, 64MB, 128MB, 256MB, 256MB*, 512MB, 512MB*, 1GB
Panasonic	16MB, 32MB, 64MB, 128MB, 256MB*, 512MB*, 1GB*
Toshiba	16MB, 32MB, 64MB, 128MB, 128MB*, 256MB, 256MB*, 512MB

* These cards are rated for 10 MB/s or more.

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

Memory Cards

- Use only Secure Digital (SD) memory cards.
- Do not disassemble or modify.
- Do not drop, bend, or expose to water or strong physical shocks.
- Do not touch the metal terminals with your fingers or metal objects.
- Do not affix labels or stickers to the memory card.
- Do not leave in direct sunlight in a closed vehicle or in other areas exposed to high temperatures.
- Do not expose to high levels of humidity or to corrosive gas.

Caring for Your Camera

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

- ✔ **Keep dry**
The device will be damaged if immersed in water or subjected to high levels of moisture.
- ✔ **Handle the lens and all moving parts with care**
Do not apply force to the lens, monitor, or viewfinder or to the connector, card slot, battery chamber, or lens covers. These parts are especially susceptible to damage. Applying force to the lens cover could result in camera malfunction or damage to the lens.
- ✔ **Do not point the lens at strong light sources for extended periods**
Avoid pointing the lens at the sun or other strong light sources for extended periods when using or storing the camera. Intense light may cause deterioration in the CCD image sensor, producing a white blur effect in photographs.
- ✔ **Turn the product off before removing or disconnecting the power source**
Do not unplug the product or remove the batteries while the product is on, or while images are being recorded or deleted. Forcibly cutting power in these circumstances could result in loss of data or in damage to product memory or internal circuitry. To prevent an accidental interruption of power, avoid carrying the product from one place to another while the AC adapter (available separately) is connected.
- ✔ **Do not drop**
The product may malfunction if subjected to strong shocks or vibration.
- ✔ **Keep away from strong magnetic fields**
Do not use or store this device in the vicinity of equipment that generates strong electromagnetic radiation or magnetic fields. Strong static charges or the magnetic fields produced by equipment such as radio transmitters could interfere with the monitor, damage data stored on the memory card, or affect the product's internal circuitry.
- ✔ **Avoid sudden changes in temperature**
Sudden changes in temperature, such as occur when entering or leaving a heated building on a cold day, can cause condensation inside the device. To prevent condensation, place the device in a carrying case or a plastic bag before exposing it to sudden changes in temperature.
- ✔ **The AF-Assist Illuminator LED**
The light-emitting diode (LED) used in the AF-assist illuminator conforms to the following IEC standard:

CLASS 1 LED PRODUCT

IEC60825-1 Edition 1.2⁻²⁰⁰¹

Cleaning

Lens/Viewfinder

One key to preserving the condition of these glass parts is to not touch them with your fingers. Remove dust or lint with a *blower* (typically a small device with a rubber bulb attached to one end that is pumped to produce a stream of air out the other). To remove fingerprints or other stains that can not be removed with a blower, wipe the lens or viewfinder with a soft cloth, using a spiral motion that starts in the center of the lens and works out to the edges.

Monitor

Remove dust or lint with a blower. To remove fingerprints and other stains, clean the monitor with a soft, dry cloth, being careful not to apply pressure.

Avoid contact with liquid crystal

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

Body

Use a blower to remove dust and lint, then wipe gently with a soft, dry cloth. After using the camera at the beach or seaside, wipe off any sand or salt with a cloth lightly dampened with fresh water, then dry thoroughly.

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

Notes on the Monitor and Electronic Viewfinder

- The monitor and electronic viewfinder may contain a few pixels that are always lit or that do not light. This is a characteristic common to all TFT LCD displays, and does not indicate a malfunction. Images recorded using the product will not be affected.
- When you frame bright subjects, vertical comet-like streaks that whiten toward either end may appear in the display. This phenomenon, known as “smear,” does not appear in the final photograph and does not indicate a malfunction. Some smear may appear in movies.
- Images in the monitor may be difficult to see in a bright light.
- The monitor is lit by an LED backlight. Should the monitor begin to dim or flicker, contact your Nikon service representative.

Storage

Turn the camera off when not in use and check that the power-on lamp is off before putting the camera away. To prevent mold or mildew, store the camera in a dry, well-ventilated area. If you will not be using the product for long periods, remove the battery to prevent leakage and store the camera in a plastic bag containing a desiccant. Do not store the camera case (available separately) in a plastic bag, as this may cause the material to deteriorate. Note that desiccant gradually loses its capacity to absorb moisture and should be replaced at regular intervals. Do not store the camera with naphtha or camphor moth balls or in locations that:

- are poorly ventilated or damp
- are next to equipment that produces strong electromagnetic fields, such as televisions or radios
- are exposed to temperatures below -10°C (14°F) or above 50°C (122°F ; for example near a space heater or in a closed vehicle on a sunny day)
- are subject to humidities of over 60%

To prevent mold or mildew, take the camera out of storage at least once a month. Turn the camera on and release the shutter a few times before putting the camera away again.

Store the battery in a cool, dry place.

Batteries

- When turning the camera on, check that the battery is charged. The monitor will display a warning when batteries are low.
- Carry a fresh 2CR5 or a fully-charged spare EN-EL1 battery as a replacement when taking pictures on important occasions. You may find it difficult to purchase replacement batteries on short notice. Do not use 2CR5 batteries after their expiry date.
- On cold days, the capacity of batteries tends to decrease. Be sure that the battery is fully charged before heading outside to take pictures in cold weather. Keep spare batteries in a warm place and exchange as necessary. Once warmed, a cold battery may recover some of its charge.
- If the battery terminals are dirty, wipe them off with a clean, dry cloth before use.
- Used batteries are a valuable resource. Please recycle used batteries in accordance with local regulations.

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 not set.	Set clock to current date and time.	13
WARNING!! BATTERY EXHAUSTED	Battery exhausted.	Turn camera off and replace batteries.	8
AF● (● flashes red)	Camera cannot focus.	Use focus lock to focus on another subject at same distance, then recompose picture.	20
	Slow shutter speed. Pictures may be blurred.	Use flash, or steady camera using tripod, by placing camera on level surface, or by holding camera in both hands with elbows against torso.	33, 39
WARNING!! Please wait for camera to finish recording 	Camera turned off or  button pressed during recording.	Message clears from display automatically when recording is complete.	19
MEMORY CARD IS WRITE PROTECTED	Write-protect switch is in "lock" position.	Slide write-protect to "write" position.	11
THIS CARD CANNOT BE USED 	Error accessing memory card.	<ul style="list-style-type: none"> • Use approved card. • Check that connectors are clean. • Turn camera off and confirm that memory card is correctly inserted. 	101 —
WARNING!! This card cannot be read 			10
CARD IS NOT FORMATTED  FORMAT NO 	Memory card has not been formatted for use in camera.	Press multi selector up to highlight FORMAT and press to right to format card, or turn camera off and replace card.	11, 98

Display	Problem	Solution	
OUT OF MEMORY  (or )	<i>Camera in shooting mode:</i> Insufficient memory to record pictures at current settings.	<ul style="list-style-type: none"> Choose new image mode. Insert new memory card or delete pictures. 	65 10, 80
	<i>Camera connected to computer:</i> Not enough memory to record information need for transfer.	Delete unwanted pictures and try again.	80
IMAGE CANNOT BE SAVED  (or )	<ul style="list-style-type: none"> Camera has run out of file numbers. Not enough memory to copy pictures. 	<ul style="list-style-type: none"> Insert new memory card or delete pictures. Format destination or delete pictures. If copying pictures to memory card, insert new memory card. 	10, 80 10, 80, 98
	<ul style="list-style-type: none"> Camera can not copy picture using small picture or crop options. Invalid image chosen for welcome screen. 	<ul style="list-style-type: none"> Copies can not be created from movies or from other copies. Choose image 640×480 pixels or larger. 	50, 85 92
	File created by computer or different make of camera.	View file on computer or correct make of camera.	—
CANNOT RECORD MOVIE	Time out error while recording movie.	Choose memory card with better performance.	101
NEW CITY IS IN THE CURRENT TIME ZONE	Travel destination is in same time zone as home location.	No need to specify new time zone if travel destination is in same time zone as home location.	94
WARNING! THE MODE DIAL IS NOT IN THE PROPER POSITION	Mode dial is positioned between two modes.	Adjust mode dial to select desired mode.	7
TRANSFER ERROR	Error occurred when pictures were transferred to computer.	Restart transfer after checking that camera is connected and that batteries are fully charged.	15, 55
TRANSFER CANCELLED	Transfer cancelled.		
CARD CONTAINS NO IMAGES	No pictures on memory card or in internal memory.	Press  button to return to shooting mode.	21
ALL IMAGES ARE HIDDEN	Pictures can not be viewed on COOLPIX 4800.		
THIS IMAGE CANNOT BE DELETED	Attempt to delete protected picture.	Remove protection before deleting picture.	82

Display	Problem	Solution	
COMMUNICATIONS ERROR	<ul style="list-style-type: none"> • PictureProject is not running. 	<ul style="list-style-type: none"> • Start PictureProject before pressing center of multi selector. 	—
	<ul style="list-style-type: none"> • USB cable disconnected or memory card removed while pictures are being transferred to computer. 	<ul style="list-style-type: none"> • If error appears in computer monitor, click OK to exit PictureProject. Turn camera off, reconnect cable or replace memory card, then turn camera on and transfer pictures. 	53–56
	<ul style="list-style-type: none"> • USB option set incorrectly. 	<ul style="list-style-type: none"> • Turn camera off and disconnect cable, then choose new USB setting in camera setup menu and reconnect camera. If error persists, use Transfer button in Picture Project to transfer pictures. 	53
NO IMAGES ARE MARKED FOR TRANSFER	No pictures selected for transfer when center of multi selector pressed to transfer pictures to computer.	Disconnect camera and select at least one picture for transfer, then begin transfer again.	53, 83
SYSTEM ERROR	Error has occurred in camera's internal circuitry.	Turn camera off, unplug optional AC adapter (if using), remove and reinsert batteries, and turn camera on. If error persists, contact retailer or Nikon representative.	8–9
LENS ERROR	Error has occurred during lens operation.	Turn camera off and then on again. If error persists, contact retailer or Nikon representative.	—

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 right-most column for information on solving the problems listed here.

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 batteries, 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 the 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.

Problem	Solution	
Monitor is blank	• Camera is off.	12
	• Batteries are not correctly inserted or battery-chamber cover is not properly latched.	8
	• Batteries are exhausted.	15
	• AC adapter (available separately) is not properly connected.	9
	• Camera is in standby mode. Press shutter-release button halfway.	12
	• Electronic viewfinder is on. Press  button.	6
	• USB cable is connected.	55, 61
• Audio/video cable is connected.	52	
Camera turns off without warning	• Batteries are low. • Batteries are cold.	15 104
No indicators appear in monitor	• Indicators are hidden. Press  button until indicators are displayed.	6
Monitor is hard to read	• Ambient lighting is too bright: use electronic viewfinder. • Monitor brightness needs adjustment. • Monitor is dirty: clean monitor.	6 96 103

Problem	Solution	🔧
No picture is taken when shutter-release button is pressed	• Camera is in playback mode.	48
	• Batteries are exhausted.	15
	• Flash indicator blinks: flash is charging.	18
	• Message “CARD IS NOT FORMATTED” is displayed: memory card is not formatted for use in camera.	98
	• Message “OUT OF MEMORY” is displayed: insufficient memory to record picture at current Image mode setting.	65
	• Message “MEMORY CARD IS WRITE PROTECTED” is displayed: memory card is locked.	11
Pictures are too dark (underexposed)	• Flash is off.	38
	• Flash window is blocked.	16
	• Subject is outside range of flash.	39
	• Exposure compensation is too low.	42
	• Subject is backlit: select scene mode setting of Back light or use fill flash.	35, 38
Pictures are too bright (overexposed)	• Exposure compensation is too high.	42
Pictures are out of focus	• Camera can not focus on selected subject using auto-focus. Use focus lock.	20
Pictures are blurred	• Camera shook during shot. Blurring caused by camera shake can be reduced by:	
	◆ Using the flash	38
	◆ Using the Best Shot Selector (BSS)	70
	◆ Using the self-timer with a tripod	40
Randomly-spaced bright pixels (“noise”) appear in image	• Shutter speed too slow. Noise can be reduced by:	38
	◆ Using the flash	31, 34
Flash does not fire	◆ Selecting scene mode and choosing Night portrait , Night landscape , or Dusk/Dawn as appropriate to subject and lighting conditions	
	• Flash is off. Flash turns off automatically when:	28
	◆ LANDSCAPE , Scenic view , or Architecture is selected in landscape assist mode	
	◆ Camera is in sports assist mode	30
	◆ Sunset , Night landscape , Museum , Fireworks show , Copy , Panorama assist , or Dusk/Dawn selected in scene mode	33–36
	◆ Camera is in movie mode	43
	◆ Setting other than Single is selected for Continuous	69
	◆ BSS is enabled	70

Problem	Solution	
Colors are unnatural	<ul style="list-style-type: none"> • White balance does not match light source. 	67
Bright specks in picture	<ul style="list-style-type: none"> • Flash is reflecting from particles in air. Turn flash off or zoom in. 	17, 38, 39
File can not be played back	<ul style="list-style-type: none"> • File has been overwritten or renamed by computer or other make of camera. 	—
Can not create copy using small picture or crop options	<ul style="list-style-type: none"> • Picture is a movie. • Picture is an resized or cropped copy. • Memory is insufficient. Delete pictures. 	43 50, 85 80
Can not zoom in on picture	<ul style="list-style-type: none"> • Picture is a movie. • Picture was created with small picture option. • Picture has been cropped to below 320 × 240. 	43 85 50
PictureProject does not start when camera is connected or memory card inserted in card reader or card slot	<ul style="list-style-type: none"> • Camera is off. 	12
	<ul style="list-style-type: none"> • AC adapter (available separately) is not properly connected, or batteries are exhausted. 	9
	<ul style="list-style-type: none"> • USB cable is not correctly connected, or card not properly inserted in card reader or card slot. 	55
	<ul style="list-style-type: none"> • USB item in setup menu set to PTP when camera connected to computer running Windows 2000 Professional, Windows Millennium Edition (Me), or Windows 98 Second Edition (SE). 	53
	<ul style="list-style-type: none"> • Camera is not registered in Device Manager (Windows only). <p>See <i>PictureProject Reference Manual</i> (on CD) for further information.</p>	—
Pictures are not transferred when center of multi-selector is pressed	<ul style="list-style-type: none"> • USB option is set to Mass Storage and no memory card is inserted 	53

Specifications

Type	E4800 digital camera
Effective pixels	4.0 million
CCD	½.5" high-density CCD; total pixels: 4.24 million
Image size (pixels)	<ul style="list-style-type: none"> • 2,288 × 1,712 (2288*, 2288) • 1,600 × 1,200 (1600) • 1,024 × 768 (1024) • 640 × 480 (640)
Lens	8.3 × Zoom Nikkor ED
Focal length	F=6–50 mm (35-mm [135] camera-format equivalent: 36–300 mm)
f/-number	f/2.7–f/4.4
Construction	11 elements in 9 groups
Digital zoom	Up to 4 × (35-mm [135] camera-format equivalent: 1200 mm)
Autofocus (AF)	Contrast-detect through-the-lens (TTL) AF with AF-assist illuminator
Focus range	40 cm (1'4")–∞; macro mode 1 cm/0.4"–∞ [W]
Focus-area selection	Five-area multi AF with automatic and manual selection
AF-assist illuminator	CLASS 1 LED PRODUCT (IEC60825-1 Edition 1.2 ⁻²⁰⁰¹) Max. output: 2000 μW
Viewfinder	0.44", 235,000-dot, polysilicon TFT color viewfinder
Frame coverage	Approximately 97% horizontal and 97% vertical
Diopter adjustment	-3–+1 m ⁻¹
Monitor	1.8", 118,000-dot, low-temperature polysilicon TFT LCD monitor with brightness adjustment
Frame coverage	Approximately 97% horizontal and 97% vertical (shooting mode)
Storage	
Media	Internal memory (approx. 13.5 MB); SD (Secure Digital) memory cards
File system	Compliant with Design Rule for Camera File System (DCF), Exif 2.2, and Digital Print Order Format (DPOF)
File formats	Compressed: JPEG-baseline-compliant Movies: QuickTime
Exposure	
Metering	256-segment matrix metering linked to AF area
Exposure control	Programmed auto exposure with exposure compensation (-2.0–+2.0 EV in steps of ⅓ EV)
Range (ISO 100 equivalent)	W: +2.9–+14.8 EV T: +4.3–+14.3 EV
Shutter	Mechanical and charge-coupled electronic shutter
Speed	4–½,000 s

Aperture	Electronically-controlled preset aperture	
Range	Two steps	
Sensitivity	Can be set to auto or values approximately equivalent to ISO 50, 100, 200, or 400	
Self-timer	Approximately 10 seconds	
Built-in Speedlight		
Range (approx.)	0.4–4.3 m/1'4"–14'1" (W)	1.0–2.6 m/3'3"–8'6" (T)
Flash control	Sensor flash system	
Interface	USB 2.0 full speed	
Video output	Can be selected from NTSC and PAL	
I/O terminals	DC in; audio/video (A/V) out with digital I/O	
Power sources	<ul style="list-style-type: none"> • One rechargeable Nikon EN-EL1 lithium-ion battery (supplied) • One 2CR5 lithium battery • EH-54 AC adapter 	
Approximate battery life (based on CIPA standard)*	EN-EL1: 240 shots 2CR5: 360 shots	
Dimensions (W × H × D)	106 × 66 × 54 mm (4.17" × 2.60" × 2.13")	
Approximate weight	255 g (9.0 oz) without battery or memory card	
Operating environment		
Temperature	0–40°C (32–104°F)	
Humidity	Less than 85% (no condensation)	

* Measured at 25°C (77°F); zoom adjusted with each shot, built-in Speedlight fired with every other shot, image quality set to NORMAL.

Unless otherwise stated, all figures are for a camera with a fully-charged EN-EL1 battery operated at an ambient temperature of 25°C (77°F).

Design Rule for Camera File System (DCF)

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

Exif Version 2.2

Your camera supports Exif (Exchangeable Image File Format for Digital Still Cameras) version 2.2, a standard that allows information stored with pictures to be used for optimal color reproduction when images are output on Exif-compliant printers.

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