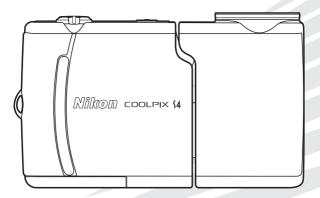




The Nikon Guide to Digital Photography with the

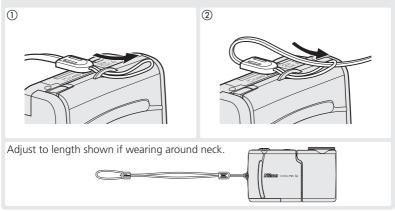
COOLPIX 54

DIGITAL CAMERA



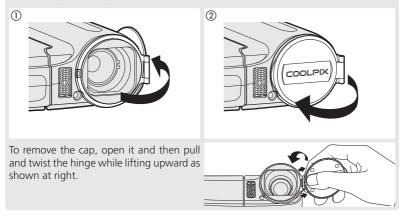
Attaching the Camera Strap

Attach the camera strap as shown below.



The Lens Cap

The lens cap can be opened (1) and closed (2) while still attached to the camera.



Trademark Information

Macintosh, Mac OS, and QuickTime are registered trademarks of Apple Computer, Inc. Microsoft and Windows are registered trademarks of Microsoft Corporation. The SD logo is a trademark of the SD Card Association. Adobe and Acrobat are registered trademarks of Adobe Systems Inc. PictBridge is a trademark. D-Lighting technology is provided by @Apical Limited. Face-priority AF technology is provided by Identix[®]. All other trade names mentioned in this manual or the other documentation provided with your Nikon product are trademarks or registered trademarks of their respective holders.

Symbols and Conventions

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.



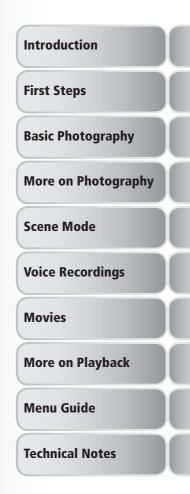
This icon marks tips, additional information that may be helpful when using the camera



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.



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:

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

WARNINGS

▲ Turn off in the event of malfunction

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

/ Do not disassemble

Touching the product's internal parts could result in injury. Repairs should be performed only by qualified technicians. Should the camera 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 product and/or removing the batteries.

Do not use the camera or AC adapter 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.

Andle the camera strap with care Never place the strap around the neck of an infant or child.

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.

▲ 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 batteries, turn the product off. If you are using an AC adapter, be sure it is unplugged.
- Use only the batteries listed on page 6 of this manual. Do not use other types. Do not mix old and new batteries or batteries of different makes or types.
- Charge and use each pair of Nikon rechargeable Nikon EN-MH1-B2 NiMH batteries together as a set. Do not mix batteries from different pairs.
- Insert batteries in the correct orientation.
- Do not short or disassemble batteries or attempt to remove or break the covering.
- Do not expose batteries to flame or to excessive heat.
- Do not immerse in or expose to water.
- Do not transport or store with metal objects such as necklaces or hairpins.

- Batteries are prone to leakage when fully discharged. To avoid damage to the product, be sure to remove the batteries when no charge remains.
- Discontinue use immediately should you notice any change in the batteries, such as discoloration or deformation.
- If liquid from damaged batteries comes in contact with clothing or skin, rinse immediately with plenty of water.

▲ Observe the following precaution when handling the battery charger

If an MH-71 battery charger is provided with the camera, observe the following precautions:

- Keep dry. Failure to observe this precaution could result in fire or electric shock.
- Dust on or near the metal parts of the plug should be removed with a dry cloth. Continued use could result in fire.
- Do not handle the power cable or go near the battery charger during thunderstorms. Failure to observe this precaution could result in electric shock.
- Do not damage, modify, forcibly tug or bend the power cable, place it under heavy objects, or expose it to heat or flame. Should the insulation be damaged and the wires become exposed, take it to a Nikon-authorized service representative for inspection. Failure to observe these precautions could result in fire or electric shock.
- Do not handle the plug or battery charger with wet hands. Failure to observe this precaution could result in electric shock.

▲ 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.

A Handle moving parts with care

Be careful that your fingers or other objects are not pinched between the lens section and camera body or by other moving parts.

CD-ROMs

The CD-ROMs supplied with this device 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 in.) from the subject.

Do not fire the flash while it is touching a person or object

Such use can result in the person being burned, and/or their clothes igniting from the heat of the flash.

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.

Symbol for Separate Collection in European Countries

This symbol indicates that this product is to be collected separately.

The following apply only to users in European countries:

- This product is designated for separate collection at an appropriate collection point. Do not dispose of as household waste.
- For more information, contact the retailer or the local authorities in charge of waste management.

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.

• Cautions on certain copies and reproductions

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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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, and AC adapters) 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.

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

Disposing of Data Storage Devices

Please note that deleting images or formatting data storage devices such as memory cards or built-in camera memory does not completely erase the original image data. Deleted files can sometimes be recovered from discarded storage devices using commercially available software, potentially resulting in the malicious use of personal image data. Ensuring the privacy of such data is the user's responsibility.

Before discarding a data storage device or transferring ownership to another person, erase all data using commercial deletion software, or format the device and then completely refill it with images containing no private information (for example, pictures of empty sky). Be sure to also replace any pictures selected for the welcome screen. Care should be taken to avoid injury or damage to property when physically destroying data storage devices.

Introduction

Thank you for your purchase of a Nikon COOLPIX S4 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. The documentation for this product also includes the manuals listed below. Please be sure to read all instructions thoroughly to get the most from the camera.

- *Quick Start Guide*: The *Quick Start Guide* takes you through the process of unpacking and setting up your Nikon digital camera, taking your first photographs, and transferring them to your computer.
- *PictureProject Reference Manual* (on CD): The *PictureProject Reference Manual* contains information on using the PictureProject software provided with your camera. For information on viewing the reference manual, see the *Quick Start Guide*.

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

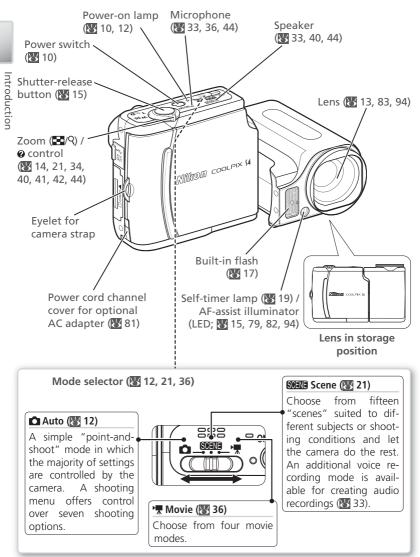
As part of Nikon's "Life-Long Learning" commitment to ongoing product support and education, continually-updated information is available on-line at the following sites:

- For users in the U.S.A.: http://www.nikonusa.com/
- For users in Europe and Africa: http://www.europe-nikon.com/support

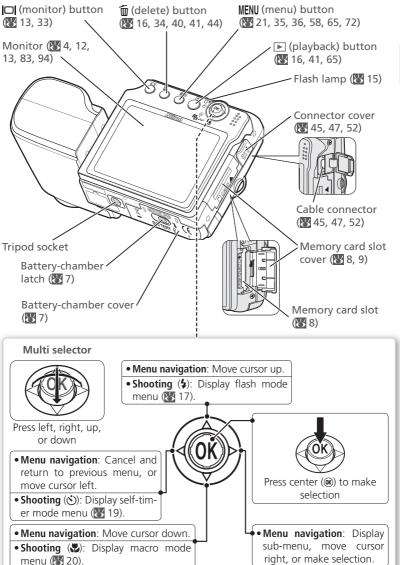
• For users in Asia, Oceania, and the Middle East: *http://www.nikon-asia.com/* Visit these sites to keep up-to-date with the latest product information, tips, answers to frequently-asked questions (FAQs), and general advice on digital imaging and photography. Additional information may be available from the Nikon representative in your area. See the URL below for contact information:

http://nikonimaging.com/

Parts of the Camera



2



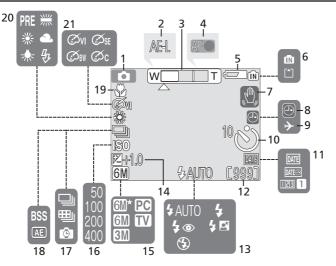
Introduction

The Monitor

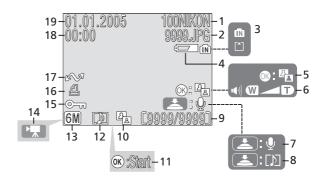
The following indicators may appear in the monitor during shooting and playback (actual display varies with current camera settings):

Shooting





Playback



_		
	Shooting mode 12, 21,	36
2	Exposure lock 32, 39,	62
	Zoom indicator ¹	14
	Focus indicator ²	15
5	Battery level indicator ³	12
6	Internal memory/memory card	
	indicator12,	15
7	Camera shake icon ⁴ 18, 28,	77
8	"Date not set" indicator ⁵	11
9	Time zone indicator	74
10	Self-timer indicator	19
11	Date imprint/date counter	76
1	Displayed when zoom button is pressed.	

- 2 Displayed when shutter-release button is pressed halfway.
- 3 Appears when batteries are running low.

12, 92
36, 38
61
59
64
61–62
63
20
60

_

4 Appears at slow shutter speeds to warn that pictures may be blurred. 5 Appears when camera clock has not been set.

	Current folder	92-9	93
2	File number and type	92-9	93
	Internal memory/memory card		
	indicator	4	41
	Battery level indicator ¹	· · · · · · · · ·	12
	D-Lighting guide	4	43
	Volume indicator	40,4	14
	Voice memo recording guide	4	14
	Voice memo playback guide		44
	Current frame number/		
	total number of frames	92-9	93
	Movie length	3	36

10	D-Lighting icon 43
11	Movie playback indicator 40
12	Voice memo icon 44
13	Image mode 59
14	Movie indicator 40
15	Protect icon 68
16	Print-order icon 51
17	Transfer icon 69, 79
18	Time of recording 10-11, 74-75
19	Date of recording 10-11, 74-75

1 Appears when batteries are running low.

First Steps

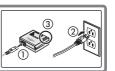
Inserting the Batteries

The camera uses two AA batteries. Depending on the country or region of purchase, the package will include *either* alkaline batteries or an MH-71 battery charger with rechargeable EN-MH1-B2 batteries.

Charge the batteries (EN-MH1-B2 batteries only)

1 Charge the batteries (EN-INITIAL Successful and rechargeable Nikon EN-MH1-B2 If the camera came with a battery charger and rechargeable Nikon EN-MH1-B2 NiMH batteries, charge the batteries as described below. If the camera came with a pair of alkaline batteries, skip to Step 2 on the following page.

First Steps



1.2 Charge the batteries

CHARGE lamp will light (③).

1.1 Plug the charger in

Insert the batteries as indicated on the charger. The CHARGE lamp will start to blink. Charging is complete when the lamp stops blinking.

Connect the power cable to the charger ((1))and then plug it into a power outlet ((2)). The

A pair of new or fully exhausted batteries will charge in about two and a half hours.

ΘØ



Batteries

Read and follow the warnings and cautions on pages ii-iii and 84 of this manual. The camera can be used with AA alkaline (LR6) batteries, Nikon rechargeable EN-MH1-B2 NiMH batteries, ZR6 oxy-nickel batteries, and FR6/L91 lithium batteries. Do not mix old and new batteries or batteries of different makes or types. Batteries with the following defects can not be used:

00		Peeli
		dama
٠	•	insul

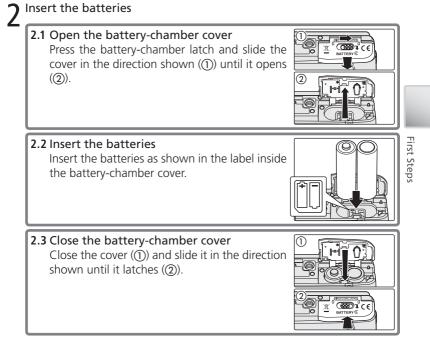


Insulation does not reach negative terminal



EN-MH1-B2 Batteries

Charge EN-MH1-B2 batteries before first use. Charge and use as a set: do not charge batteries one at a time or mix batteries from different pairs. Note that the batteries may tend to discharge more quickly when new or after a long period of disuse. The batteries will retain a charge longer once they have been used and recharged several times. "Memory" effects that result in reduced battery capacity can be avoided by periodically refreshing the batteries as described in the Appendix (8 93).



V Replacing Batteries

Turn the camera off and make sure the power-on lamp has gone out before opening the battery chamber cover. Batteries can not be replaced with the camera on a tripod.

🖉 The Battery Type Menu

After replacing the batteries, check that the option selected for **Battery Type** in the setup menu matches the type of batteries used (\bigotimes 80).

Alkaline Batteries

The performance of alkaline batteries can vary widely. Choose batteries from a reputable manufacturer.

The EH-62B AC Adapter Kit

The optional EH-62B AC adapter kit can be used to power the camera for extended periods (281). *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 in the camera's internal memory (approximately 13.5 MB) or on removable Secure Digital (SD) memory cards. For information on compatible memory cards, see "Technical Notes: Optional Accessories" (W81).

If no memory card is inserted, pictures are recorded to, and played back and deleted from, the camera's internal memory. Formatting (W 78) affects internal memory only.

If a memory card is inserted, the card is used for recording, playback, and de-The letion. 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:

Confirm that the power-on lamp is off

V Inserting Memory Cards

Turn the camera off 🔠 10) before inserting or removing memory cards.

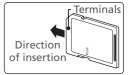


2 Insert the memory card Slide the cover in the direction shown (①) until it opens (②). Slide the memory card in terminals first until it clicks into place ((3)).





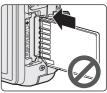




V Inserting Memory Cards

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

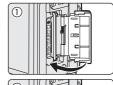
Before inserting the card, make sure that it is unlocked. If the card is locked, pictures can not be recorded, deleted, or edited and the card can not be formatted





Lock switch

3 Close the memory card slot cover Close the cover (①) and slide it in the direction shown until it latches (2).



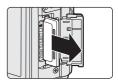


Formatting Memory Cards

Before they can be used in the COOLPIX S4, memory cards must be formatted using the Format card option in the camera setup menu (W 78).

Removing Memory Cards

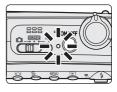
Memory cards can be removed without loss of data when the camera is off. To remove memory cards, turn the camera off and confirm that the power-on lamp is off. Do not open the memory card slot cover while the power-on lamp is lit. Open the memory card slot cover and press the card in to partially eject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

Power-on lamp	Camera status
On	On
Blinks	Auto power off (standby mode)
Flickers	Batteries exhausted (🔀 85)
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:



* Press MENU button to exit without selecting language.



† See "The Setup Menu: Date" 🐻 74) for information on setting daylight saving time.

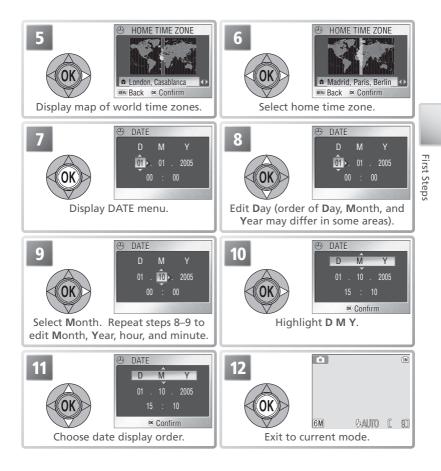
🖉 Turning the Camera Off

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 batteries or memory card or disconnect the optional AC adapter until the power-on lamp has gone out.

Auto Power off (Stand-by Mode)

If no operations are performed for about five seconds, the monitor will gradually dim to save power. Full brightness can be restored by pressing the shutter-release button or operating any of the controls next to the monitor. If no operations are performed for about a minute, the monitor will turn off and the camera will enter stand-by mode, further reducing the drain on the battery (1787) 78). The power-on lamp will blink and the monitor can be reactivated by pressing the shutter-release button halfway. The camera will turn off automatically if no operations are performed for another three minutes.

First Steps



I The Camera Clock

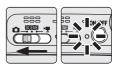
The clock battery charges when the main batteries are installed or an AC adapter is connected, and can provide several days of backup power after about 10 hours of charging. The clock and birthday counter may be reset when the battery runs low; *when the battery is exhausted, the* DATE *menu will be displayed automatically.* If the clock is not set, a **(**"date not set") icon will flash in the monitor during shooting. Pictures taken while this icon is displayed will have a time stamp of "00.00.0000 00:00:00," while movies will be dated "01.01.2005 00:00:00."

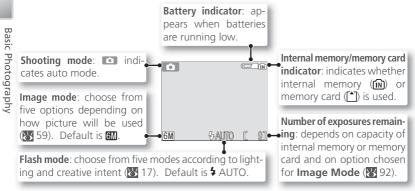
Basic Photography

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

Slide the mode selector to **a** and turn the camera on. The power-on lamp will light. The camera is ready to shoot when the view through the camera lens is displayed in the monitor.





🖉 The Battery Indicator

Display	Description	
NO ICON Batteries fully charged.		
Low battery; ready spare batteries. If flash fires, monitor will tu off while flash recharges.		
WARNING!! BATTERY EXHAUSTED	Batteries exhausted. No pictures can be taken until batteries are replaced. Power-on lamp flickers.	

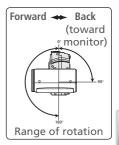
Shooting Options

▲ (auto) mode offers flash (♥ 17), self-timer (♥ 19), and macro close-up options (♥ 20). In addition, a seven-item shooting menu gives full control over such settings as white balance and exposure compensation (♥ 58).

Step 2—Frame the Picture

Rotate the lens to shooting position

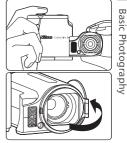
The lens can be gently rotated up to 180° forward from the storage position (0°) or 90° back to face the user for a guick arms-length self-portrait. When the lens is rotated to face the user, the monitor shows a mirror image of what will appear in the final photograph.



2 Ready the camera Hold the camera steadily in both hands.

Don't Block the Shot

To avoid muffled sound or dark or partially obscured pictures, keep fingers and other objects away from the microphone, lens, flash, and AF-assist lamp. If attached, the lens cap should be fully open to prevent it from blocking the lens.

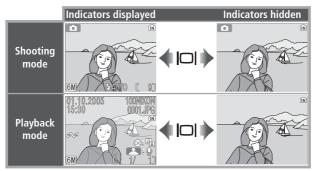


Using a Tripod

Rotate the lens to shooting position before mounting the camera on a tripod. Contact with the tripod can damage the camera lens.

/ The 🖸 Button

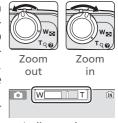
Press the 🔲 button to hide or display indicators in the monitor.



Frame the subject

The camera is equipped with two types of built-in zoom: optical zoom, in which the camera's telescoping lens can be used to magnify the subject up to $10 \times$, and digital zoom, in which digital processing is used to further magnify the image up to $4 \times$, for a total of $40 \times$. Use the zoom control to frame your subject in the center of the monitor:

- T: zoom in on your subject so that it fills a larger area of the frame.
- W: zoom out from your subject, increasing the area visible in the frame.
- When the camera is zoomed in to maximum magnification, holding the control in the **T** position for about two seconds will trigger digital zoom, and the zoom indicator will turn yellow. Use the zoom control to adjust zoom in the digital zoom range. To cancel digital zoom, zoom out until the zoom indicator turns white.



Indicator shows amount of zoom



Digital zoom

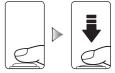
🖉 Digital Zoom

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.

Step 3—Focus and Shoot

1 Focus

Press the shutter-release button halfway to set focus and exposure. In **D** mode, the camera will automatically focus on the subject at the center of the frame. Focus and exposure will lock while the shutter-release button is pressed halfway.



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

<u>.</u>	On (green)	Subject in focus.	AFC
Focus indicator	Blinks red	Camera unable to focus on subject at center of frame. Using focus lock, focus on another subject at same distance, then	Focus
		recompose picture and shoot (🔀 91).	
Flas	On (red)	Flash will fire when picture is taken.	
Flash lamp	Blinks red	Flash is charging.	Elash
	Off	Flash is off or not required.	110311

Basic Photograph

ที่พิโ

indicator

lamp

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 (a blur warning may appear at slow shutter speeds; [77].



During Recording

While pictures are being recorded, the internal memory/memory card indicator (m or \uparrow will blink. The camera can continue to take pictures until the \mathbb{R} (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 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 (79).



Step 4—View the Results

▲ Press the button

A picture will be displayed in the monitor.

View additional pictures

2 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, making it possible to scroll rapidly through pictures without waiting for each image to be displayed at full resolution. Keep the multi selector pressed to scroll quickly to the desired picture.





To return to shooting mode, press the 🖻 button again. For more information on playback, see "More on Playback" (W 41).



To delete the current picture, press the \mathbf{t} button. A confirmation dialog will be displayed; press the multi selector up or down to highlight an option and then press the center of the multi selector.

- No: Exit without deleting the picture.
- Yes: Delete the picture.

Putting the Camera Away

- 1. Turn the camera off.
- 2. Rotate the lens to the storage position.
- 3. Replace and close the lens cap.

🔍 The 下 Button

Pressing the \blacktriangleright button for about one second will turn the camera on in playback mode. Press again to return to the mode selected with the mode selector.



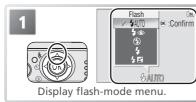


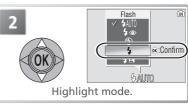
More on Photography

4 Using the Flash

The following flash modes are available:

Mode	How it works	When to use it
\$ AUTO Auto	peen	Best choice in most situations.
40 Auto with red-eye reduction	intensity before main flash; pictures are further processed to_reduce red-eye if required	Use to reduce "red-eye" in portraits. Works best when subject looks directly at low-intensity flashes. Not recom- mended 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 prohib- ited. If () (camera shake) icon appears, care should be taken to avoid blurring.
4 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 back- ground at night or under dim light.







When Lighting Is Poor

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

🖉 The 🚇 (Camera Shake) Icon

When lighting is poor and the flash is off (3), shutter speeds will slow and pictures may be blurred. If the shutter speed required for exposure is very slow, a 📓 (camera shake) warning be displayed. Use of a tripod or support is recommended. Mottling may appear in pictures taken when this icon is displayed.

Ó	

Dust or Mist

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 and try again.

Red-eye Reduction

The COOLPIX S4 uses advanced red-eye reduction. Low-intensity light pulses cause The COULTIA 54 uses advanced red-eye reduction. Low-intensity light pulses cause the subject's pupils to contract before the flash fires. The camera then analyzes the image for red-eye; if red-eye is detected, the image will be processed to reduce its effects ("In-Camera Red-Eye Fix"). This slightly increases the amount of time needed to record each picture. If red-eye reduction does not produce the desired results, try again at another flash setting.
 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.

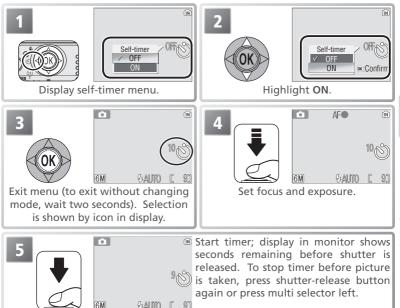
restored: in other modes, the flash will be reset to the default for the selected mode. Reset all (\$79) resets the flash to AUTO (mode) or to the default for the current mode (assist and scene modes).

C Flash Range

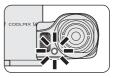
The flash has a range of 0.4–3.0 m (1ft. 4in.–10ft.). As a result, the flash may not be able to light the entire subject at distances of less than 0.4m (1ft. 4in.). When taking close-ups, play each picture back after shooting to check the results.

S Taking Pictures with the Self-Timer

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. When using the self-timer, mount the camera on a tripod (recommended) or rest it on a flat, level surface.

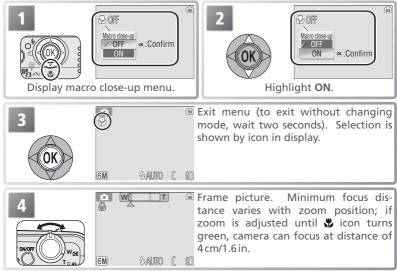


The self-timer lamp on the front of the camera will blink until one second before the picture is taken, staying lit during the final second to warn that the shutter is about to be released.



Seasy 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 4 cm/1.6 in.).



More on Photography

🖉 Macro Close-up Mode

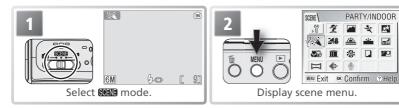
The flash may not be able to light the entire subject at distances of less than 40 cm/1 ft. 4 in. When taking close-ups, play each picture back after shooting to check the results.

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

20

Scene Mode

Scene mode offers a choice of twelve "scene" and four "assist" settings. Camera settings are automatically optimized for the selected subject type, sparing the user the necessity of adjusting each setting separately. To display the scene menu:



Help

For help on the current menu option, press the zoom control to $\ref{thm:optime}$ (T). Choose $\ref{thm:optime}$ (T) again to return to the menu, or press the MENU button to exit to the mode currently selected with the mode selector.



Help is available for all camera menus. In scene mode, help on other scene and assist settings can be viewed by pressing the multi selector up or down. Press the center of the multi selector to select the current scene or assist setting and return to shooting mode. In other modes, pressing the center of the multi selector when help is displayed returns you to the current menu.

🖉 Scene Mode

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

Other Options

In addition to the scene and assist modes described on the following pages, the scene menu contains the options listed below:

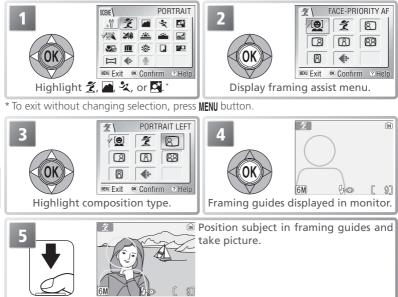
- 🖞 (setup): Display the setup menu (😈 72).
- ◆ (image mode): Select an image mode setting from the menu shown at right (₩ 59).
- \bigcirc (voice recording): Create a voice recording (\boxtimes 33).

To display any of the above options, highlight the corresponding icon and press the center of the multi selector.



Framing Assist: 🐔, 📠, 💐, and 🎦

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



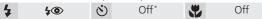
Depending on the mode selected, restrictions may apply to flash mode (\clubsuit ; 17), the self-timer (\circlearrowright ; 19), or macro close-up (; 20). These restrictions are noted on the pages that follow. The AF-assist illuminator (15) is available only when PORTRAIT is selected for (portrait assist) or NIGHT PORTRAIT is selected for (night portrait assist).

🖉 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

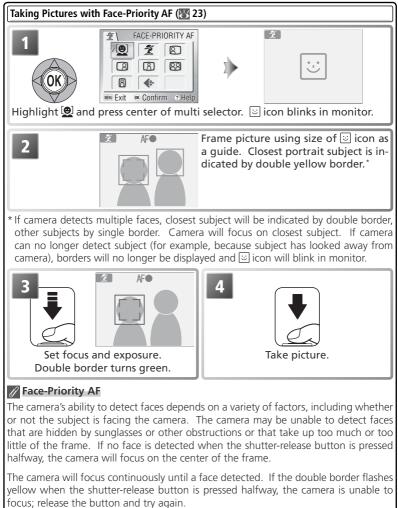




	Face-priority AF : Camera automatically focuses on face of portrait subject (W 24).
ź	PORTRAIT : No guides are displayed. Camera focuses on subject in center of frame; use focus lock to focus on off-center subjects (W 91).
8	Portrait left : Compose shot with subject in left half of frame. Camera focuses on subject in framing guide.
8	Portrait right : Compose shot with subject in right half of frame. Camera focuses on subject in framing guide.
Å	Portrait close-up : Compose shot with subject's face in top half of frame. Camera focuses on face area in framing guide.
88	Portrait couple : Compose shot with two subjects side-by-side. Camera focuses on closest subject.
8	Portrait figure : Compose shot in "tall" orientation. Camera focuses on subject in framing guide.

* Other modes can be selected.

Scene Mode



📥 Landscape Assist

(Iandscape 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.



⊈ (⊕)/**AUTO**^{*} (♥) Off[†] (♥) Off (♥)

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 gird 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.

💐 Sports Assist

★ (sports assist) mode is used for dynamic action shots that capture moving objects. No guides are displayed in the monitor.





SPORTS: While shutter-release button is held down, pictures are recorded at rate of about 1.3 frames per second (fps) until a icon is displayed. Camera focuses continuously until shutter-release button is pressed halfway to lock focus.



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 2 1600 × 1200 pixels in size. Camera focuses continuously until shutter-release button is pressed halfway to lock focus.

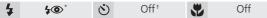
🖉 Focus, Exposure, and White Balance

In sports assist mode, focus, exposure, and white balance for all pictures are determined by the first shot in each series. The AF-assist illuminator does not light.

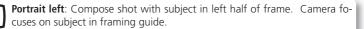
Night Portrait Assist

(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.



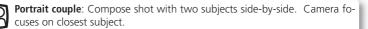






Portrait right: Compose shot with subject in right half of frame. Camera focuses on subject in framing guide.









Portrait figure: Compose shot in "tall" orientation. Camera focuses on subject in framing guide.

* Fill flash with slow sync and red-eye reduction.

+ Other modes can be selected.

Other Scenes

In addition to the four "assist" modes described on the preceding pages, scene mode offers a selection of eleven "scenes," each corresponding to a common subject type, such as a backlit subject, sunset, or interior shot. A voice recording mode is also available for creating audio recordings (**W** 33).

To select a scene from the scene menu (W 21):



* To exit without changing selection, press MENU button.

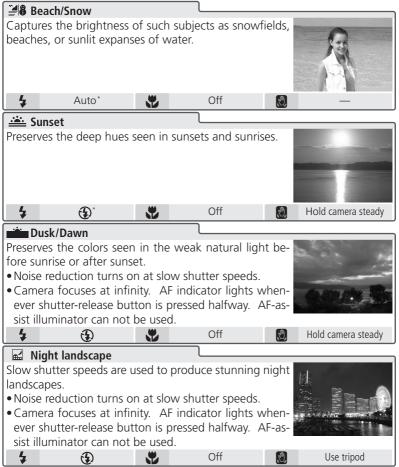
Depending on the scene selected, restrictions may apply to flash mode (\clubsuit ; \bigotimes 17), the self-timer (\bigotimes 19), or macro close-up (\bigotimes ; \bigotimes 20). These restrictions are noted on the pages that follow.



* Other modes can be selected.

🔍 Camera Shake 🕅

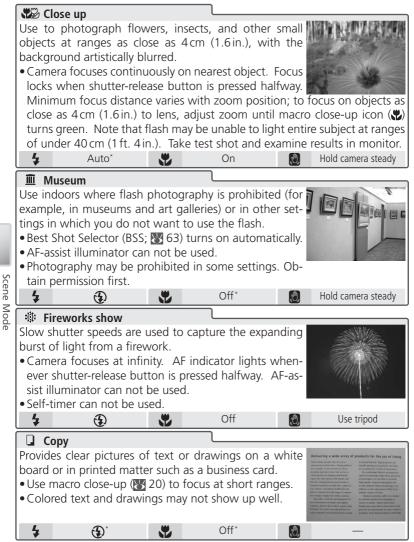
At slow shutter speeds, a **()** icon appears in the monitor to warn that pictures may be blurred. The following indicate the precautions that can be taken to avoid blur: **Hold camera steady**: Hold camera in both hands and brace elbows against body **Use tripod**: Use tripod or rest camera on flat, level surface



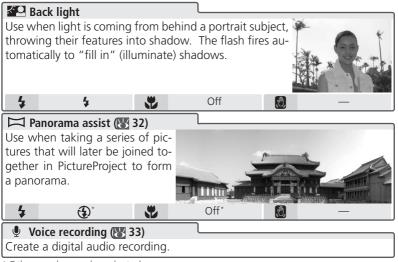
* Other modes can be selected.

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, increasing the time needed to process pictures before they are saved.



^{*} Other modes can be selected.



* Other modes can be selected.

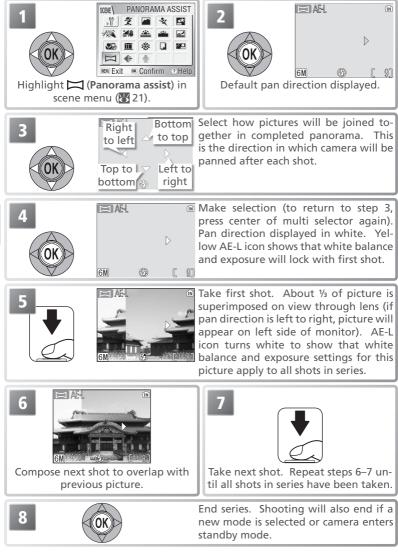
🖉 Panorama Assist

Flash mode (W 17), the self-timer (W 19), and macro close-up (W 20) 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, and image mode (W 59) can not be adjusted nor pictures deleted until the series is complete.

Panoramas are easier to compose if the camera is mounted on a tripod.

See the Appendix for information on how panoramas are stored (W 92–93).

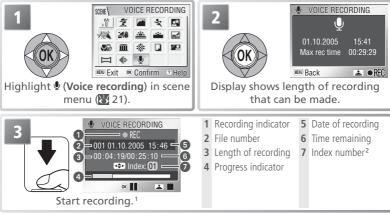
Taking Pictures for a Panorama



Voice Recordings

Audio voice recordings can be recorded over the built-in microphone and played back over the built-it speaker.

Making a Voice Recording



1 To pause recording, press center of multi selector. Press again to resume recording. While recording is paused, self-timer and indicator lamps will blink.

2 To create an index, press the multi selector up, down, left, or right during recording. Camera can skip to any index during playback. Start of recording is index number 01; other numbers are assigned in ascending order, to maximum of 98.

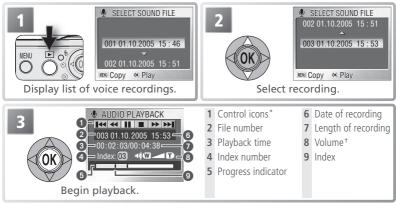


Making a Voice Recording

Sound can not be recorded if there are less than ten seconds of recording time available or the batteries are exhausted. Before recording, record a test sample and play it back to determine whether conditions are suitable for audio recording. During recording, the monitor turns off. Press **D** button to turn monitor on and off. Do not touch the microphone during recording.

Playing Voice Recordings

To play voice recordings back, display the voice recording screen shown in Step 2 on the preceding page and follow the steps below.



* Press multi selector left or right to highlight control, press center to select.

Control	Description	
	Pause playback.	
	Resume playback.	
	Advance recording. Playback resumes when multi selector is released.	
	Rewind recording. Playback resumes when multi selector is released.	
	Return to start of current index.	
	Skip to next index.	
	End playback and return to voice recording list.	

Voice Recording

† Zoom control controls volume. Select **W** to lower volume, **T** to raise volume.

To exit playback and return to recording mode, press the 🕨 button.

Deleting Voice Recordings

To delete a voice recording, highlight it in the voice recording list and press the \mathbf{m} button, or press the \mathbf{m} button during playback to delete the current voice recording. 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.

- No: Exit to voice recording list without deleting recording.
- Yes: Delete recording and return to voice recording list.

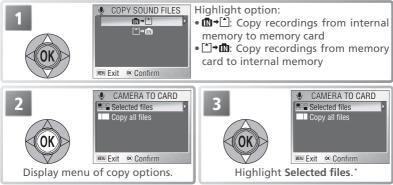
Voice Recordings

The COOLPIX S4 may be unable play or copy sound files created with other devices.

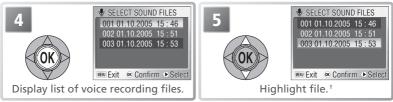
Copying Voice Recordings

To copy voice recordings between internal memory and a memory card, display the voice recording list shown in Step 1 on the preceding page and press the **MENU** button. The menu shown at right will be displayed.





* To copy all voice recordings, highlight **Copy all files** and press multi selector right. A confirmation dialog will be displayed; press multi selector down to highlight **Yes** and press center of multi selector.



† Press MENU button to exit without copying recordings.



‡ To deselect file, highlight and press multi selector right.

Voice Recordings

Movies

🗶 🕽 Movie Mode

The camera can record the following types of movie. All movies have a frame rate of fifteen frames per second; except in the case of time-lapse movies, movies include sound recorded via the built-in microphone.

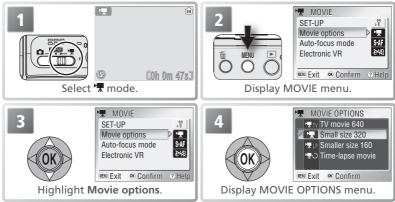
			Max. length*	
Ontion	Description	Internal memory (13.5MB)	memory	
Option	Description Frame size is 640×480 pixels, suitable for televi-		card 7 min	
TV movie 640	sion playback. ⁺	24 s	15 s	
Small size 320 (default)	Frame size is 320×240 pixels. ⁺	47s	14 min 15 s	
► LP	Frame size is 160×120 pixels, reducing file size	2 min	47 min	
Smaller size 160	and allowing longer movies to be recorded. ⁺	38 s	5 s	
「東心 Time-lapse movie	Camera takes up to 1800 stills at specified inter- vals and joins them to create silent movie with frame size of 640×480 (W 39). Shoot flowers opening, butterfly emerging from cocoon, etc.	(143	120s (1800 frames)‡	

* Approximate maximum total length; may vary with make of card.

+ Shooting can continue to limit of available memory.

‡ Regardless of actual maximum total length, maximum value shown in camera exposure count display is 999.

To choose the type of movie that will be recorded:



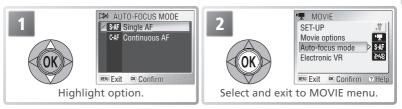




The following options are available for Auto-focus mode:

Option	Description	
Single AF	Camera focuses when shutter-release button is pressed halfway. Fo- cus locks when focus operation is complete. Select this option to prevent sound of camera focusing from interfering with recording.	
Continuous AF Camera adjusts focus continuously.		

To choose a focus option, highlight **Auto-focus mode** in the MOVIE menu (**W** 36) and press the multi selector to the right, then follow the steps below.



🔍 Menu Options

For help on the selected option, press the zoom control to O (T) (W 21). To display the setup menu (W 72), select **Setup** from the MOVIE menu. To display menu options as icons, select **Icons** for **Menus** in the setup menu (W 80).

Movies

The following options are available for **Electronic VR**:

Option	Description
On	Reduces effects of camera shake (not available with time- lapse movies). <i>eVR</i> icon is displayed in shooting mode.
Off	Vibration reduction off.

To select an option, highlight **Electronic VR** in the MOVIE menu (**W** 36) and press the multi selector right. The menu shown in Step 1 will be displayed.



Recording Movies

	• 🛣 © (0h 0m 47	 Select Tomode. Exposure count display shows maximum total length of movie that can be recorded.
2	(REC)	Start recording. Ref icon flashes and progress indicator is displayed.
3	🐨 (0h 0m 15	End recording. Recording will end automatically when movie has reached maximum length or memory is full.

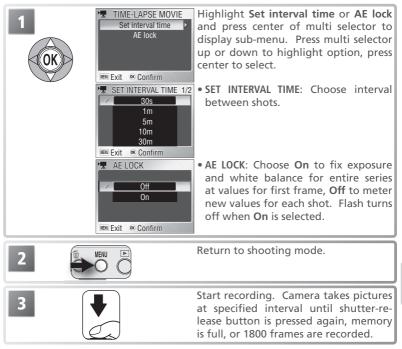
Recording Movies

The self-timer can not be used in movie mode. The flash turns off in **TV movie 640**, **Small size 320**, and **Smaller size 160** modes. Optical zoom can not be adjusted during recording; digital zoom is available to a maximum of 2×.

Movies

Recording Time-Lapse Movies

Selecting **Time-lapse movie** from the MOVIE menu (W 36) displays the menu shown in Step 1, below.



Use a Reliable Power Source

If possible, use an optional EH-62B AC adapter kit to record time-lapse movies.

Ø During Recording

To save power, the monitor turns off between frames. The monitor turns on automatically immediately before the camera takes the next shot.

🔍 AE Lock

When **On** is selected for **AE lock**, a yellow AE-L icon will be displayed, indicating that exposure and white balance will be locked with the first shot. Once the first shot is taken, the icon will turn white.



Viewing Movies

In full-frame playback (18 16, 41), 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	
	Movie rewinds while center of multi selector is pressed. when multi selector is released.	Playback resumes
	Movie advances while center of multi selector is pressed. when multi selector is released.	Playback resumes
	Pause playback.	
	Advance paused movie one frame.	
▲	Rewind paused movie one frame.	
	Resume playback.	
	End movie and return to full-frame playback.	

🖉 Movie Files

See the Appendix for information on how movie files are stored (\bigotimes 92–93).

🔍 Playback Volume

The zoom control controls volume during playback. Select ${\bf W}$ to decrease volume, ${\bf T}$ to increase.

Deleting Movies

To delete the movie displayed in full-frame playback or selected in the thumbnail list (41), press the $\overleftarrow{}$ 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
- No: exit without deleting movie

More on Playback

Viewing Pictures on the Camera

To view pictures full-frame in the monitor (*full-frame playback*), press the \blacktriangleright button (if the camera is off, pressing the \blacktriangleright button for about a second will turn the camera on in playback mode).



Viewing Multiple Pictures: Thumbnail Playback

Selecting **(W)** with the zoom control in full-frame playback displays pictures in "contact sheets" of four thumbnail images. The following operations can be performed while thumbnails are displayed:

То	Press	Description	
Highlight pictures	OK	Use multi selector to highlight pictures.	
Change number of pictures displayed		With four thumbnails displayed, press to (W) once to view nine thumbnails. Press to 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	面	Confirmation dialog displayed. Press multi selector up or down to highlight option, press center to select. • Select No to exit without deleting pic- ture • Select [♪] to delete voice memo (avail- able only if voice memo has been re- corded for selected picture; ¥ 44) • Select Yes to delete picture	
View high- lighted picture full frame	OK	View picture highlighted in thumbnail list full frame.	
Exit to current mode	►	Exit to mode selected with mode selector.	

Viewing Pictures

If a memory card is inserted in the camera, only the pictures on the memory card will be played back. To view the pictures in internal memory, remove the memory card or copy the pictures from internal memory to the memory card.

41

More on Playback

Taking a Closer Look: Playback Zoom

Use zoom control to zoom in on images displayed in full-frame playback (W 16, 41). Playback zoom is not available with movies (\mathbb{W} 40) or small pictures (\mathbb{W} 70).



То	Press	Description		
Zoom in	୧ (T)	Zoom increases each time Q (T) is selected, to a maximum of 10 ×. While image is zoomed in, Q icon and zoom ratio are displayed in top left corner of monitor.		
View other areas of picture	OK	Use multi selector to scroll to areas of picture not visible in mon- itor. To use multi selector to view other pictures, cancel zoom.		
Zoom out	B (W)	Zoom decreases each time 🔄 (W) is selected. To cancel zoom, zoom picture out until entire picture is displayed.		
Cancel zoom	OK	Cancel zoom and return to full-frame playback.		
Create cropped copy	Shutter button	 Save portion of picture visible in monitor to separate file. Confirmation dialog displayed; press multi selector up or down to highlight option, press center to select. Select No to exit without creating cropped copy Select Yes to create new picture containing only area visible in monitor 		

Cropped Copies are s Cropped copies are s on the size of the orig will be 2,592 × 1,944 1,024 × 768 (IC), 640 ies are created with t criginal but any char Cropped copies are stored as JPEG files with a compression ratio of 1:8. Depending on the size of the original and the zoom ratio at the time the copy was created, copies will be 2,592 × 1,944 (5), 2,048 × 1,536 (8), 1,600 × 1,200 (2), 1,280 × 960 (1), 1,024 × 768 (PC), 640 × 480 (W), 320 × 240 (), or 160 × 120 () pixels in size. Copies are created with the same transfer marking and date and time or recording as the original, but any changes to transfer marking or to protect and print attributes must be made separately. See the Appendix for more information on how cropped copies are stored (😽 92–93).

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 (1440), small pictures (17470), or cropped copies.

Enhancing Contrast: D-Lighting

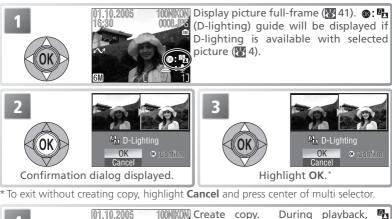
D-lighting can be used to create a copy of a picture with enhanced brightness and contrast, brightening dark or backlit subjects.

Original (without D-lighting)





Copy (with D-lighting)





During playback, (D-lighting) icon is displayed on copies created with D-lighting (W 4).

Copies are created with the same transfer marking and date and time or recording as the original, but any changes to transfer marking or to protect and print attributes must be made accepted by the transfer marking or to protect and print attributes must be made accepted by the transfer marking or to protect and print attributes must be made accepted by the transfer marking or to protect and print attributes must be made accepted by the transfer marking or to protect and print attributes must be made accepted by the transfer marking or to protect and print attributes must be made accepted by the transfer marking or to protect and print attributes must be made accepted by the transfer marking or to protect and print attributes must be made accepted by the transfer marking or to protect and print attributes must be made accepted by the transfer marking and the transfer marking accepted by the transfer marking acc be made separately. See the Appendix for more information on how D-lighting copies are stored (8 92-93).

Copies can only be created if sufficient memory is available. Copies created with D-lighting may not display or transfer correctly when viewed on other models of Nikon camera. D-lighting is not available with cropped copies (\mathbb{W} 42), movies (\mathbb{W} 40), small pictures (W 70), or copies created with D-lighting.

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 (V 16, 41). 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 thumbnail playback (V 41) or playback zoom (V 42).



То	Press	Description
Record memo	Shutter button	If significant is displayed on current picture, memo will be recorded while shutter-release button is held down. Recording ends after about 20 s or when shutter-release button is released. Do not touch microphone during recording.
Play memo	Shutter button	Pictures for which voice memo exists are 01.10.2005 100MKON marked by (voice memo playback guide) and [1] icons. Press shutter-release but- ton to play voice memo. Playback ends when voice memo ends or shutter-release button is pressed again.
Change	Zoom	Zoom control controls volume during playback. Select W to lower
volume	control	volume, T to increase.
Delete picture or voice memo	1 111	Confirmation dialog displayed. Press multi selector up or down to highlight option, press center to select. • Select No to exit without deleting picture or voice memo • Select Yes to delete both picture and voice memo • Select [♪] to delete voice memo only

🖉 Voice Memos

See the Appendix for more information on how voice memos are stored (**W** 92–93). Voice memos can not be added to pictures created with other types of camera. Voice memos recorded using other types of camera can not be played back on the COOLPIX S4.

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 Interface > Video mode item in the setup menu offers a choice of NTSC and PAL (W 79). Be sure that the mode selected matches the standard used in the video device

Turn the camera off

Connect the A/V cable

2 Connect the black plug to the camera.

Insert the yellow plug into the video-in jack on the television or VCR. Connect the white plug to the audio-in iack.

Tune the television to the video channel 3 If in doubt, consult the documentation for your television or VCR.

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

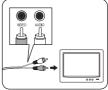
Viewing Pictures on TV

To reduce the drain on the battery when viewing pictures for an extended period, use an EH-62B AC adapter kit (available separately).

// 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 will turn on when the camera is in movie mode





Viewing Pictures on a Computer

The supplied UC-E6 USB cable and PictureProject software can be used to view photographs and movies on a computer. Before pictures can be transferred (copied) to your computer, PictureProject must be installed. For more information on installing PictureProject and transferring pictures to a computer, see the documentation on the reference CD and the *Quick Start Guide*.

Before Connecting the Camera: Choosing a USB Option

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 (@/1001 button)

	Pictures transferred using:	
Operating system	Camera multi selector (@/∠∕√ button) ¹	PictureProject
Windows XP Home Edition Windows XP Professional	Choose Mass s	torage ² or PTP.
Windows 2000 Professional Windows Millennium Edition (Me) Windows 98 Second Edition (SE)	Choose Mas	s storage. ^{2, 3}
Mac OS X 10.1.5 or later	Choose PTP .	Choose Mass storage ² or PTP.

1 The center of the multi selector can not be used to transfer pictures a locked memory card. Use the PictureProject Transfer button or unlock the memory card.

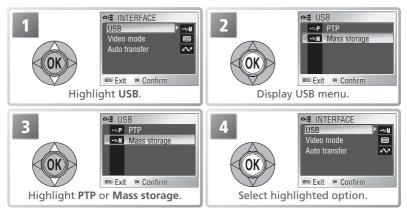
2 The center of the multi selector can not be used to transfer pictures from internal memory when **Mass storage** is selected. Use the PictureProject Transfer button.

3 Do NOT select **PTP**. If **PTP** is selected when the camera is connected to a computer running Windows 2000 or Windows 98SE, the Windows hardware wizard will be displayed. Under Windows Me, the hardware wizard will be displayed after a message stating that the hardware information database is being updated. Click **Cancel** to exit the wizard, and then disconnect the camera. Be sure to select **Mass storage** before reconnecting the camera.

Viewing Pictures on a Computer

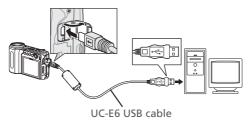
To reduce the drain on the battery when the camera is connected for an extended period, use an EH-62B AC adapter kit (available separately).

To choose a USB option, highlight **Interface** in the setup menu (\bigotimes 79) and press the multi selector to the right. The menu shown in Step 1 will be displayed.



Connecting the USB Cable

Turn the computer on and wait for it to start up. Turn the camera off and 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.



Transferring Pictures

If PictureProject is installed, the PictureProject Transfer window will be displayed in the computer monitor when the camera is connected and turned on. Pictures can be transferred using the **Transfer** button in PictureProject (see the PictureProject reference manual CD for details) or by pressing the center of the multi selector.

Pressing the center of the multi selector (**@**/**>** button) copies to the computer all pictures that are marked for transfer (***** 69, 79). The following messages will be displayed in the camera monitor while pictures are transferred.





During Transfer

Do not turn the camera off, disconnect the USB cable or AC adapter, or remove or insert memory cards while data are being transferred. Failure to observe this precaution could result in product or computer malfunction.

Transferring Pictures from Internal Memory

Data in internal memory can not be copied to the computer when a memory card is inserted in the camera. Remove the memory card before attempting to transfer data from internal memory.

Voice Recordings

PictureProject can not be used to transfer or play voice recordings. Select **Mass stor-age** for **USB**, copy the files manually, and then play them back using QuickTime or any other WAV-compatible audio player. Note that index points created with the camera can not be used when voice recordings are played back on another device.

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 (S) 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 (S) 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") into the Trash.



emove Hardware

10:00 AM









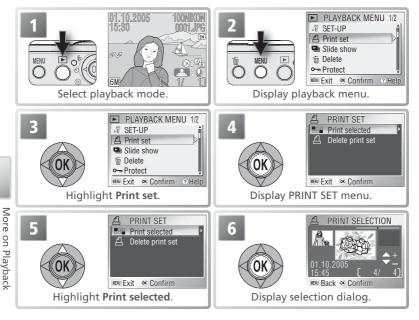
Printing Pictures

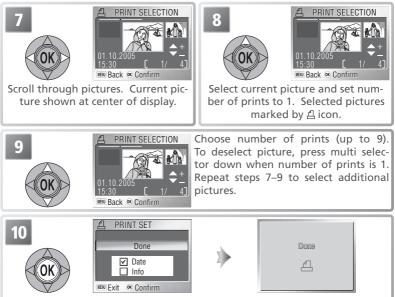
Pictures can be printed by any of the following methods:

- Select pictures for printing using **Print set** (see below) 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**.
- Connect the camera to a printer that supports PictBridge and print pictures directly from the camera (W 52)
- Transfer the pictures using PictureProject and print them from a computer (see the *PictureProject Reference Manual*, on CD)

Print Set

The **Print set** option in the playback menu is used to create digital "print orders" for PictBridge-compatible printers or devices that support DPOF.





Display print options. To select or deselect options, highlight and press center of multi selector. Selected items are marked with a \checkmark .

- Date: Print date of recording on all pictures in print order.
- Info: Print shutter speed and aperture on all pictures in print order.
- To complete print order and return to playback, highlight **Done** and press center of multi selector. To exit without altering print order, press **MENU** button.

"Print Set" and Digital Print Order Format (DPOF)

Print set creates a "print order" in Digital Print Order Format (DPOF) listing the pictures to be printed, the number of prints, and the information to be included on each print. The pictures can then be printed by connecting the camera to a PictBridge-compatible printer or by removing the memory card from the camera and inserting it in a DPOF-compatible device. Note that if the **Print set** option has not been used to create a print 'order, one copy of all pictures will be printed.

🖉 Print Set

Date and Info options are reset each time the menu shown in Step 10 is displayed.

The Print-Order Icon

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

Printing Via Direct USB Connection

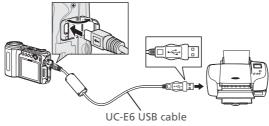
When the camera is connected to a PictBridge-compatible printer via the UC-E6 USB cable, selected pictures can be printed directly from the camera.

1 Set the USB option to PTP

Set the **USB** option in the setup menu to **PTP** before connecting the printer (**W** 47; the default option is **Mass storage**).

Connect the USB cable

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



Turn the camera on

D Turn the camera and printer on. A PictBridge start-up screen will be displayed. The camera will then enter full-frame playback with the PictBridge logo displayed in the monitor.





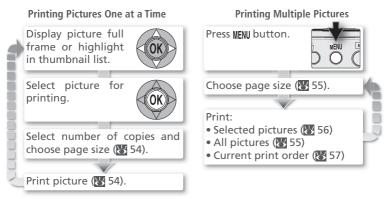
🔍 The Thumbnail Display

To view six pictures at a time, press the zoom control to \mathbf{M} (**W**). Press to \mathbf{Q} (**T**) to return to full-frame playback.



Print pictures

Press the center of the multi selector to print the current picture or press the MENU button to select multiple pictures for printing.



Printing Pictures

To reduce the drain on the battery when printing, use an EH-62B AC adapter kit (available separately).

🔍 PictBridge

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

Printing Pictures One at a Time

To print the picture currently displayed full frame or highlighted in the thumbnail list, press the center of the multi selector. The menu shown at right will be displayed; press the multi selector up or down to highlight an option.

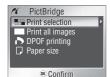
~	PRINT MENU	
4	Start print	Þ
D	Copies Paper size	
	Confirm	

Option	Description	
Start print	Highlight this option and press center of multi selector to print the selected picture. Message shown at right displayed during printing; to cancel and return to Pict- Bridge playback display before all images have been printed, press center of multi selector. When printing is complete, message shown below at right will be dis- played for about two seconds, followed by PictBridge playback display. Print additional pictures as described above or turn camera off and disconnect USB cable.	Printing 002/005 Cancel Dons
Copies	Highlight this option and press multi selector right to display menu shown at right. Press multi selector up or down to choose number of copies (maximum 9), then press center to select and return to print menu.	COPIES
Paper size	Highlight this option and press multi selector right to display menu shown at right. Press multi selec- tor up or down to highlight Default (default page size for current printer, 3.5"x5" , 5"x7" , Postcard , 100mmx150mm , 4"x6" , 8"x10" , Letter , A3 , or A4 , then press center to select and return to print menu.	

More on Playback

Printing Multiple Pictures

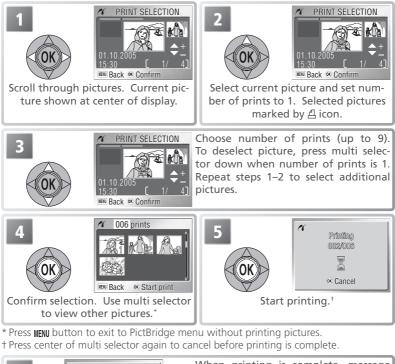
To print all pictures or multiple selected pictures, press the MENU button. The menu shown at right will be displayed; press the multi selector up or down to highlight an option, then press the center to select.



Option	Description	
Print selection		
Print all images	Print one copy of all pictures. Message shown at right displayed during printing; to cancel and return to PictBridge menu before all im- ages have been printed, press center of multi selector. When printing is complete, message shown below at right will be displayed for about two seconds, followed by PictBridge menu. Turn camera off and disconnect USB cable.	✓ Printing 002/005 ▼ ≪ Cancel
DPOF printing	Print current DPOF print order (🔀 57).	
Paper size	Menu shown at right will be displayed. Press multi selector up or down to highlight Default (default page size for current printer, 3.5"x5" , 5"x7" , Postcard , 100mmx150mm , 4"x6" , 8"x10" , Letter , A3 , or A4 , then press center to select and return to PictBridge menu.	PAPER SIZE 1/2 Default f S5'x5 5'x7' Postard 100mm x150mm Confirm

Printing Selected Pictures: Print Selection

Choosing **Print selection** in the PictBridge menu (see previous page) displays the menu shown in Step 1.



More on Playback



When printing is complete, message shown at left is displayed for about two seconds, followed by PictBridge menu. Turn camera off and disconnect USB cable.

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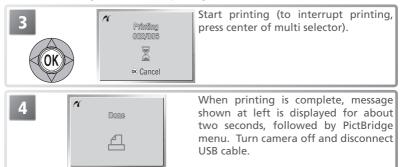
Printing the Current Print Order: DPOF Printing

To print the current print order (18750), select **DPOF printing** in the PictBridge menu (18755). The options shown in Step 1 will be displayed.





* Select Start print to start printing without viewing current print order. Select Cancel to exit to PictBridge menu without printing.



DPOF Printing

The **DPOF printing** option is only available if pictures have previously been selected for printing using **Print set** (**W** 50–51). Shooting information (**W** 51) will not be included when pictures are printed via direct USB connection.

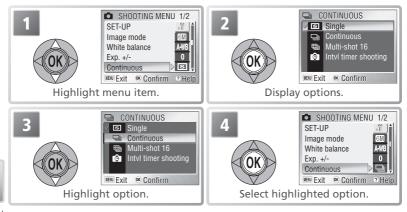
Menu Guide

The Shooting Menu

The shooting menu contains the following options:

Option	Description	8
	Choose image size and quality.	
White balance	Match white balance to the light source.	60
Ехр. +/-	Adjust exposure for very bright, very dark, or high-contrast subjects.	61
Continuous	Take pictures one at a time or in a sequence.	61–62
BSS	Use the Best Shot Selector (BSS).	63
Sensitivity	Control the camera's sensitivity to light.	64
Color options	Control color.	64
Setup	Display the setup menu.	72

To display the shooting menu, slide the mode selector to **(**) and press the **MENU** button. To make a selection from the shooting menu:



To exit the menu and return to shooting mode, press the **MENU** button again, or press the \blacktriangleright button to exit to playback mode. Defaults can be restored using the **Reset all** option in the setup menu (W 79).

🔍 Menu Options

For help on the selected option, press the zoom control to O (T) (W 21). To display menu options as icons, select **Icons** for **Menus** in the setup menu (W 80).

€• Image Mode

► MENU → 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/in.)‡
<u>6</u> M*	High (2816*)	2,816× 2,112	1:4	High quality, suitable for enlarge- ments or high-quality prints.	24×18/ 9½×7
<u>6</u> M	Normal (2816)	2,816× 2,112	1:8	Best choice in most situations.	24×18/ 9½×7
3M	Normal (2048)	2,048× 1,536	1:8	Smaller size allows more pictures to be stored on memory card.	17×13/ 7×5
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 moni- tors 17 in. or larger.	9×7/ 3½×2½
TV	TV screen (640)	640× 480	1:8	Can be displayed full screen on television or 13 in. monitor. Suited to distribution by e-mail or web.	5×4/ 2×1½

* Smaller images create smaller files that require less memory and are 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.

- ⁺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. The size of images when printed depends on the printer resolution: the higher the resolution, the smaller the final print size. The print sizes given here assume a printer resolution of approximately 300 dpi.

🔍 Image Mode

The current image mode is shown by an icon in the display (\bigotimes 4–5). See the Appendix for more information on image mode and file size (\bigotimes 92).

A-WB White Balance

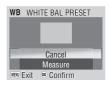
 $\square \rightarrow MENU \rightarrow White balance PAWB$

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 pictures 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 condi- tions. Best choice in most situations.
PRE	White bal. preset	Gray object used as reference to set white balance under un- usual lighting conditions.
崇	Daylight	White balance adjusted for taking pictures under clear skies.
未	Incandescent	Use under incandescent lighting.
	Fluorescent	Use under most types of fluorescent lighting.
4	Cloudy	Use when taking pictures under overcast skies.
步	Flash	Use with the flash.

PRE Preset White Balance

Preset white balance is used with 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 following options will be displayed:



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 pic- ture. 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 selec- tor 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 record- ed). Note that preset white balance can not be measured with the flash.

🔍 White Balance

The effects of white balance are visible in the monitor. At settings other than **AWB** (**Auto**), white balance is also shown by an icon in the display (\mathbb{W} 4–5).

Exposure compensation is used to alter exposure from the value suggested by the camera by from -2.0 EV (underexposure) to +2.0 EV (overexposure) in increments of ½ EV. Its effects can be previewed in the monitor; *negative* values may be needed when most of the frame is very dark or the background is much darker than the main subject, *positive* values when most of the frame is very bright or the background is much brighter than the main subject.

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	
S 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 1.3 fps until (wait) icon is displayed.	
凹 Multi-shot 16 [°]	Each time shutter-release button is pressed, camera takes sixteen consecutive pictures 704 × 528 pixels in size at rate of about 1.3 fps and arranges them in four rows to form a sin- gle picture measuring 2,816 × 2,112 pixels. Image mode automatically set to Mormal (2816). Digital zoom can not be used.	
Intvl timer shooting	Camera takes pictures automatically at specified interval. See "In- terval Timer Photography" (W 62).	

* Flash turns off automatically. Focus, exposure, and white balance are fixed at values for first picture in each series.

Restrictions on Camera Settings

Continuous is automatically set to **Single** when the self-timer is activated (W 19) or BSS is enabled (W 63).

🔍 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 **M Normal (2816)** is six. When the buffer is full, a \mathbb{Z} (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.

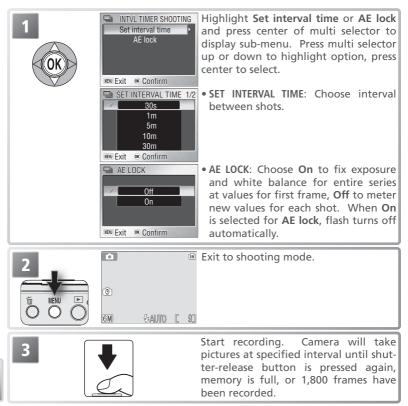
🔍 Continuous

At settings other than **Single**, the current "continuous" setting is shown by an icon in the display (**W** 4–5).



🙆 Interval Timer Photography

To display the interval timer menu, highlight **Intvl timer shooting** in the CONTINUOUS menu and press the center of multi selector.



🖉 Interval Timer Photography

To save power, the monitor turns off between frames. The monitor turns on automatically immediately before the camera takes the next shot. To ensure that the batteries do not run flat before recording is complete, use an EH-62B AC adapter kit (available separately).

Pictures can not be played back during interval timer shooting. See the Appendix for information on how pictures taken during interval timer shooting are stored (1892–93).

BSS Best Shot Selector (BSS)

Ď → MENU → BSS

0 688

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
BSS Off	BSS off.
BSS On	Camera takes shots while shutter-release button is pressed, to a maximum of ten. These images are then compared and sharpest picture (pic- ture with highest level of detail) is saved. Flash turns off automatically and focus, exposure, and white balance for all photos are determined by first picture in each se- ries. Recommended for situations in which inadvertent camera move- ment can produce blurred pictures, for example when: • the camera is zoomed in • macro close-up is in effect • lighting is poor and the flash can not be used May not produce desired results if subject moves or composition is changed while shutter-release button is fully pressed.
(AE) Exposure BSS	 Selecting this option displays sub-menu shown at right. Choose from: 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 white balance for all photos are determined by first picture in each series. Recommended for high-contrast subjects, when it is difficult to set exposure correctly.

Restrictions on BSS

BSS turns off when the self timer is activated (**W** 19) or a setting other than **Single** is selected for **Continuous** (**W** 61).

🔍 BSS

At settings other than **Off**, the current BSS setting is indicated by an icon in the display (W 4–5).

A-ISO Sensitivity

► MENU → Sensitivity ▷A:SO

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 and flash is off (③), camera compensates by raising sensitivity to a maximum of ISO 200. ISO icon displayed in monitor to warn that pictures may be affected by noise.
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.

Color Options

Color Options ▷ 🔊

Color options are used to heighten the vividness of colors or to record pictures in monochrome. The effects can be previewed in the monitor.

Option	Description
🕱 Standard color	Subjects are recorded in their natural colors.
Ø୩ Vivid color	Use for a vivid, photoprint effect.
Øw Black-and-white*	Pictures are recorded in black-and-white.
Øs Sepia*	Pictures are recorded in sepia.
တိုး Cyanotype*	Pictures are recorded in blue-tinted monochrome.

* White balance set to Auto.

🔍 Sensitivity

At settings other than **Auto**, the current sensitivity setting is shown in the display (\underbrace{W} 4–5).

Color Options

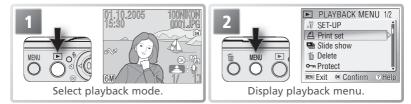
At settings other than **Standard color**, the current color option setting is indicated by an icon in the display (\mathbb{W} 4–5).

The Playback Menu

The playback menu contains the following options:

Option	Description	8
Print set	Select pictures for printing on DPOF- and PictBridge-com- patible devices.	
Slide show	View pictures in an automatic slide show.	67
Delete	Delete all or selected pictures.	68
Protect	Protect selected pictures from accidental deletion.	68
	Change transfer marking of all or selected pictures.	69
Small pic.	Create small copies of the current picture.	70
Сору	Copy files between memory card and internal memory.	71
Setup	Display the setup menu.	72

To display playback menu options for the current picture:



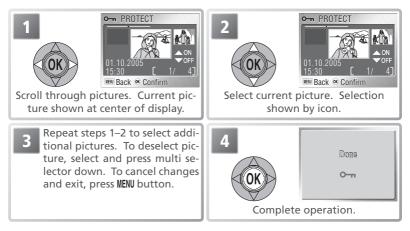
To exit the menu and return to playback mode, press the **MENU** button again, or press the \blacktriangleright button again to exit to shooting mode.

🔍 Menu Options

For help on the selected option, press the zoom control to **(T)** (**(V)** 21). To display menu options as icons, select **Icons** for **Menus** in the setup menu (**(V)** 80).

Selecting Multiple Pictures

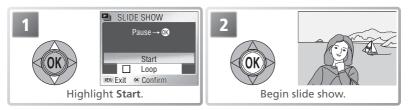
To select multiple pictures in the **Erase selected images** (\mathbb{W} 68), **Print set** (\mathbb{W} 50–51), **Protect** (\mathbb{W} 68), **Transfer marking > Select image(s)** (\mathbb{W} 69), or **Copy > Selected images** (\mathbb{W} 71) menus:



Slide Show

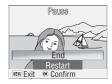
► → MENU → 🖳 Slide show

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



To skip to the next picture, press the multi selector to the right, or hold the multi selector down to fast forward through the show. To return to the previous picture, press the multi selector left, or hold the multi selector down to rewind through the show. To pause the slide show, press the center of the multi selector. The menu shown below will be displayed.

When the slide show ends or is paused, the menu shown at right will be displayed. Highlight **Restart** and press the center of the multi selector to restart the show, or select **End** to end the show and return to the playback menu.



Slide Shows

The camera will enter standby mode if no operations are performed for thirty minutes.

Copies created with the small picture option (**W** 70) 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.



The Playback Menu

🛅 Delete

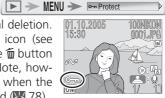
The delete menu contains the following options:

	Option	Description	
銜	Erase selected images	 Select images for deletion (1 66). Confirmation dialog shown at right will be displayed; press multi selector up or down to highlight option, press center to select: Select No to exit without deleting pictures Select Yes to delete selected pictures 	to DELETE Ase 1 image (s)? No Yes Bee Exit ∞ Confirm
18	Erase all images	Confirmation dialog displayed; press multi selec- tor up or down to highlight option, press center to select: • Select No to exit without deleting pictures • Select Yes to delete all unprotected pictures	DELETE Erasing all images (Om excluded) No Yes UND Exit Exit Exit

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.

O-n Protect

Select pictures for protection from accidental deletion. Protected files are marked with a protect icon (see right) and can not be deleted by pressing the **b** 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 (**W** 78).



M Transfer Marking

► → MENU → MTransfer marking

This option is used to mark pictures for transfer to any computer to which PictureProject has been installed (\mathbb{W} 46). Note that all new pictures are automatically marked for transfer when **On** (the default option) is selected for **Interface > Auto transfer** (\mathbb{W} 79).

Option	Description
🖍 All on	Mark all images for transfer.
🎮 All off	Remove transfer marking from all images.
Belect image(s)	Mark selected pictures for transfer (😿 66).

Pictures selected for transfer are identified by a \bowtie icon as shown at below.



Full-frame playback



Thumbnail playback

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. See the PictureProject reference manual (on CD) for more information.

The COOLPIX S4 can not be used to transfer pictures selected for transfer with another model of Nikon digital camera. Use the COOLPIX S4 to reselect the pictures.

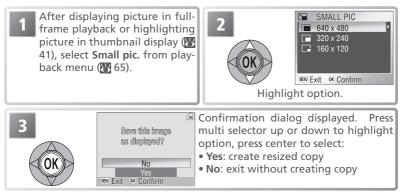
🔚 Small Picture

		\rightarrow	MENU	≻	Small pic.
--	--	---------------	------	---	------------

Small copies of pictures can be created in any of the following sizes:

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

To copy a picture at a smaller size:



During playback, copies are indicated by a gray border; a **(**, **)**, or **)** icon is displayed when copies are viewed full-frame.

🖉 Small Picture

Copies are stored as JPEG files with a compression ratio of 1:16. Copies are created with the same transfer marking and date and time or recording as the original, but any changes to transfer marking or to protect and print attributes must be made separately. See the Appendix for more information on how small pictures are stored (\bigotimes 92–93).

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 (**W** 40), cropped copies (**W** 42), or small pictures.

🕀 Сору

► → MENU → EBCopy

This option is only available when a memory card is inserted, when it can be used to copy pictures between internal memory and the memory card.

Option	Description
	Copy pictures from internal memory to memory card.
רוֹיים	Copy pictures from memory card to internal memory.

Selecting either of the above options displays the menu shown at right.



Optio	n	Description	
Selec	cted Jes	tion dialog shown at right will be displayed; press	Selected images will be copied.
All imag	Jes	tor up or down to highlight option, press center	LED CAMERA TO CARD All images will be copied. OK? No Yes

🖉 Сору

See "Copying Voice Recordings" for information on copying voice recordings (\bigotimes 35). The camera may be unable to copy pictures that were created with another make of camera or that have been modified on a computer.

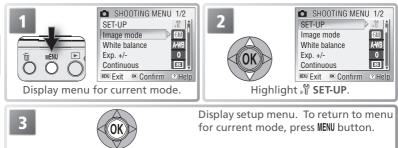
Copies lose all print (👿 50–51) and transfer (👿 69) marking. Protect marking (👿 68) is not affected. See the Appendix for more information on copies are stored (👿 92–93).

The Setup Menu

The setup menu contains the following options:

Option	Description	Ъ
Shooting menu Scene menu Movie Playback menu	Return to menu for current mode.	
Welcome screen	Select screen displayed when camera is turned on.	73
Date	Set clock and choose home and destination time zones.	10–11 74–75
Brightness	Adjust monitor brightness.	75
Date imprint	Imprint date or birthday counter on pictures.	76
Sound settings	Adjust sound and volume settings.	77
Blur warning	Turn blur warning on or off.	
Auto off Choose when monitor will turn off to save power.		78
Format memory/ Format card	Format internal memory or memory card.	78
Language	Choose language for camera menus and messages.	79
Interface	Adjust settings for connection to television or computer.	79
AF assist	Turn AF-assist illuminator on or off.	79
Reset all	Restore camera settings to default values.	79–80
Battery type	Match this setting to type of batteries in camera.	80
Menus	Choose how menus are displayed.	80
Firmware version	Display camera firmware version.	80

To display the setup menu:



🔍 Menu Options

For help on the selected option, press the zoom control to O (T) (W 21). To display menu options as icons, select **Icons** for **Menus** in the setup menu (W 80).

Welcome Screen

MENU - Welcome screen

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

Option	Description		
Disable welcome (default)	No welcome screen is displayed when camera is turned on.		
Nikon	Image shown at right is displayed when cam- era is turned on.	COOLRIX	
Animation	Animation shown at right is displayed when camera is turned on.	COOLDIX	
Select an image	Choose welcome screen from pictures in internal memory or on memory card. Se- lecting this option displays selection screen shown at right; press multi selector left or right to scroll through pictures, press center to select. To exit without changing welcome screen, press MENU button.	SELECT IMAGE 01.10.2005 15:30 10 10 10	

Welcome Screen

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.

🕘 Date

MENU ----

This option is used to set the camera clock and to choose home and travel destination time zones.

Option	Description
	Set camera clock to current date and time (🔀 10–11).
Time zone	Choose home (\bigcirc) or travel destination (\rightarrow) time zone; turn daylight saving time on or off (see below).

Time Zone

Selecting **Time zone** displays the menu shown in Step 1. To choose a new home ($\stackrel{\frown}{\Rightarrow}$) or travel destination ($\stackrel{\frown}{\Rightarrow}$) time zone:



* Travel destination time zone can not be same as home time zone.

To switch between home (\clubsuit) and travel destination (\clubsuit) time zones:



⁺ To turn daylight saving time on or off, highlight **DaylightSaving** and press center of multi selector. Selecting daylight saving time advances time in selected zone one hour.

Image: Constraint of the second se

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

The camera supports the time zones listed below. 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 (\mathbb{W} 10–11).

GMT +/-	Location	GMT +/-	Location
GMT-11	Midway, Samoa	GMT +1	Madrid, Paris, Berlin
GMT - 10	Hawaii, Tahiti	GMT +2	Athens, Helsinki
GMT –9	Alaska, Anchorage	GMT +3	Moscow, Nairobi
GMT –8	PST (PDT): Los Angeles, Seattle, Vancouver	GMT +4	Abu Dhabi, Dubai
GMT –7	MST (MDT): Denver, Phoenix, La Paz	GMT +5	Islamabad, Karachi
GMT –6	CST (CDT): Chicago, Houston, Mexico City	GMT +6	Colombo, Dhaka
GMT –5	EST (EDT): New York, Toronto, Lima	GMT +7	Bangkok, Jakarta
GMT –4	Caracas, Manaus	GMT +8	Beijing, Hong Kong (HK), Singapore
GMT –3	Buenos Aires, São Paulo	GMT +9	Tokyo, Seoul
GMT –2	Fernando de Noronha	GMT +10	Sydney, Guam
GMT-1	Azores	GMT +11	New Caledonia
GMT	London, Casablanca	GMT +12	Auckland, Fiji

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.

Press the multi selector up or down to increase or decrease the brightness of the monitor 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.



▶ 3

Date Imprint

MENU - V - Date imprint

This option is used to imprint date information on pictures as they are taken. It can not be used to imprint date information on existing pictures.

Option	Description
📉 Off	Time and date do not appear on pictures.
DATE Date	Date is imprinted on pictures taken while this option is in effect.
Date and time	Date and time are imprinted on pictures taken while this option is in effect.
ाटा Date counter	Time stamp shows number of days between date of shooting and selected date.

123 Date Counter

Pictures taken while this option is in effect are imprinted with the number of days remaining until or the number of days elapsed since a specified date. Use it to track the growth of a child or count down the days until a birthday or wedding. Days remaining are indicated by \blacktriangle .

Stored dates: To choose from up to three dates between Jan. 1 1910 and Dec. 31 2037, highlight current date and press center of multi selector. Menu shown at right will be displayed. To set date, highlight, press multi selector to right, and enter date as described in "Basic Setup" (10–11). To select existing date, highlight and press center of multi selector.



Display options: To change date display format, highlight current format and press center of multi selector. Press multi selector up or down to highlight **Number of days**, **Years and days**, or **Yrs**, **mnths**, **days** and press center to select.

🖉 Date Imprint

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 (W 59).

Regardless of the setting chosen, the date is not imprinted in movie mode (\mathbb{W} 36) or when \mathbb{I} , \square , or $\stackrel{\bullet}{\prec}$ (except for sport composite) is selected in scene mode (\mathbb{W} 21), **Continuous** is selected for **Continuous**, or an option other than **Off** is selected for BSS (\mathbb{W} 61, 63).

Imprinted data form 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 imprint icon appears in the shooting display during shooting (\bigotimes 4–5).

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 (\bigotimes 10–11).

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 batteries are exhausted, or if memory card is locked or memory card or internal memory is full when shutter is released.	BUTTON SOUND Off On Env Exit & Confirm
Shutter sound	Choose volume of sound played when shutter is re- leased. If Off is selected, no sound will be played when shutter is released. Regardless of setting chosen, no sound is played in sports (* 26) or movie (* 36) modes, when Continuous or Multi-shot 16 is select- ed for Continuous (* 61), or BSS is enabled (* 63).	SHUTTER SOUND SHUTTER SOUND Loud Loud Normal Off Wev Exit & Confirm
Start-up sound	Choose volume of sound played when camera is turned on. If Off is selected, no sound will be played when camera is turned on. Startup sound will not play when USB cable is connected (W 47, 52).	START-UP SOUND Coud Loud Normal Off Exit & Confirm

🖞 Blur Warning

MENU→, 🕆 → Blur warning

If **On** is selected for this option, the warning shown at right will be displayed after shooting in situations in which pictures may be blurred. Select **Yes** to record the picture, **No** to delete the picture and try again. The picture will be recorded automatically if no operations are performed for about twenty seconds. No warning will



D ON

be displayed in movie mode, at scene-mode settings of $\stackrel{*}{\sim}$ (Sports), $\underline{\blacksquare}$ (Museum), $\stackrel{\otimes}{\approx}$ (Fireworks show), or \bowtie (Panorama assist), or when the self-timer is on, an option other than **Single** is selected for **Continuous**, or an option other than **Off** is selected for BSS.

A setting of **On** is recommended when the camera is zoomed in. If you wish to view the picture before deleting it, select **Yes** in the blur warning dialog and then press the \blacktriangleright button.

1m Auto Off

Choose the time before the monitor turns off automatically to save power (10).

Option	Description
Auto off	Choose delay before monitor turns off when no operations are performed.
Sieep	If On is selected, monitor will turn off if no change is detected in brightness of subject for 30s (Auto off set to 1 min. or less) or 1 min. (Auto off set to 5 min. or more).

Regardless of the option selected, the monitor will remain on for a minimum of three minutes when menus are displayed, and for thirty minutes during a slide show or when the camera is powered by an optional EH-62B AC adapter.

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 memory card for use in the camera. Note that formatting permanently deletes all data, including protected pictures and any other files that may be present. Before formatting, be sure to transfer any valued pictures to a computer (W 46–49).

The following options will be displayed if a memory card is inserted:

Option	Description	
Quick format	Format applies only to areas in which data are stored. format.	Faster than normal
Format	Entire memory or memory card is formatted.	

A confirmation dialog is displayed before formatting begins. Select **Format** to format the storage device. The message shown at right will be displayed; *do* not turn the camera off, remove the batteries or memory card, or unplug the AC adapter while this message is displayed.



🖉 Format Card

Format memory cards before first use and reformat them regularly thereafter. Without regular formatting, performance will drop with use. Note that memory cards can not be formatted when the battery is low.

Format memory	Þ £1
Format card	

MENU >> V >> Auto off 1m

Language

Choose the language for camera menus and messages (W 10).

□ Interface

MENU > 1 Interface

MENU >, Y > AF assist

D AED

Adjust settings for connection to a computer or video device (W 45, 46).

Option	Description
USB	Select USB option for connection to computer (🔀 46) or printer (🔀 52).
Video mode	Before connecting camera to video devices such as televisions or VCRs (45), choose video mode that matches video standard used in device. Cam- era supports NTSC and PAL standards.
Auto transfer	Choose On to mark pictures for transfer to computer as they are taken.

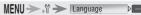
If Auto is selected for this option, the AF-assist illuminator will light to assist the focus operation when the subject is poorly lit. The AF-assist illuminator has a maximum range of about 2 m/6 ft. 7 in. The AF-assist illuminator will not light if **Off** is selected for AF assist, (and scape assist), \propto (sports assist), 📩 (Dusk/Dawn), 🖬 (Night landscape), 🌄 (Close up), 🏛 (Museum) or (Fireworks show) is selected in scene mode, a setting other than PORTRAIT is selected in $\frac{2}{3}$ (portrait assist) mode, or a setting other than NIGHT POR-TRAIT is selected in 🖾 (night portrait assist) mode.

Reset all

Select **Reset** to restore the following settings to their original state:

Option	Description	Option	Description
Flash mode	Auto	Image mode	Normal (2816)
Self timer	Off	White balance	Auto
Macro close-up	Off	Exp. +/-	±0
Movie mode		Continuous	Single
Movie options	Small size 320	BSS	Off
Auto-focus mode	Single AF	Sensitivity	Auto
Electronic VR	Off	Color options	Standard color
Scene mode	Party/Indoor	Welcome screen	Disable welcome
Portrait assist	Face-priority AF	Brightness	3
Landscape assist	LANDSCAPE	Date imprint	Off
Sports assist	SPORTS		
Night portrait assist	NIGHT PORTRAIT		

MENU - Si - Reset all



Option	Description	Option	Description
Sound settings		Auto off	
Button sound	On	Auto off	1 min.
Shutter sound	Normal	Sleep mode	Off
Start-up sound	Off	Interface	
AF-assist	Auto	Auto transfer	On
Blur warning	On	Menus	Text

Choosing Reset also clears the current file number (W 4-5, 92-93) 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 (1868) or formatting the memory card or internal memory (18778).

Battery Type

To ensure that the camera shows the correct battery level 🐼 12), choose a type that matches the batteries currently in use.

Option	Battery Type	
Alkaline	Alkaline	
COOLPIX (NiMH)	EN-MH1-B2, oxy-nickel	
Lithium	Lithium	

Note that **Battery type** may be reset if the clock battery is exhausted.

MENU Menus

MENU > Menus

This option controls how the movie (W 37), shooting (W 58), playback (W 65), and setup menus are displayed. Choose from **Text** and **Icons**.

SHOOTING MEN	U 1/2
SET-UP	÷
Image mode	> 6M
White balance	A-WB
Exp. +/-	0
Continuous	S
VENU Exit OK Confirm	∘ He
Text	



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.

The Setup Menu

80

MENU - S Battery type LEG

Technical Notes

Optional Accessories

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

Rechargeable battery	EN-MH1-B2 rechargeable NiMH batteries		
Battery charger	MH-71 battery charg	jer	
AC adapter		kit (connects as shown)	

Approved Memory Cards

The following cards have been tested and approved for use with the COOLPIX S4:

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

* High speed (10 MB/s)

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.
- Format memory cards before first use.
- Do not eject the memory card, turn the camera off, or remove or disconnect the power source during formatting or while data are being written to or deleted from the card. Failure to observe this precaution could result in loss of data or damage to the camera or card.
- 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 the Camera

To ensure continued enjoyment of this 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 to the connector, card slot, or battery-chamber 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 is connected.

Do not drop

The product may malfunction if subjected to strong shocks or vibration.

- Keep away from strong magnetic fields V 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 \mathbf{V}

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

 \boldsymbol{V}

Do not hold the camera by the lens cap The lens cap could become detached, causing the camera to fall and damaging the equipment.

Cleaning

Lens: Avoid touching glass parts 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 with a soft cloth, using a spiral motion that starts in the center of the lens and works out to the edges. If this fails to clean the lens, wipe with a dry cloth lightly dampened with commercial lens cleaner.

Monitor: Use a blower to remove dust or lint from the protective acrylic covering. To remove fingerprints and other stains, clean the monitor with a soft, dry cloth, being careful not to apply pressure.

V Avoid contact with liquid crystal

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

Body: Use a blower to remove dust, dirt, or sand 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 dry cloth lightly dampened with fresh water, then dry thoroughly. The camera may be damaged if foreign matter gets inside the camera body. Nikon cannot accept liability for damage caused by dirt or sand.

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

🖉 Notes on the Monitor

- The monitor may contain a few pixels that are always lit or that do not light. This is a characteristic common to all TFT LCD 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. Check that the power-on lamp is off before putting the camera away and remove the batteries if the camera will not be used for an extended period. Do not store the camera with naptha or camphor moth balls or in locations that:

- 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)
- are poorly ventilated or 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.

🖉 Batteries

- Check the battery level when taking the camera out and replace the batteries if necessary (35 6–7). If possible, carry spare batteries when taking pictures on important occasions.
- Battery capacity tends to decrease on cold days. Be sure that the batteries are fresh 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.
- Dirt on the battery terminals can prevent the camera from functioning.
- 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	Ъ
🕑 (Flashes)	Clock not set.	Set clock.	10-11
WARNING ! ! BATTERY EXHAUSTED	Batteries exhausted.	Turn camera off and replace batteries.	6, 7, 10
AF● (● flashes red)	Camera cannot focus.	Use focus lock to focus on an- other subject at same distance, then recompose picture.	15, 91
(Flashes)	Slow shutter speed. Pictures may be blurred.	Use flash, or steady camera us- ing tripod, by placing camera on level surface, or by holding camera in both hands with el- bows against torso.	3, 13, 17
WARNING!! PLEASE WAIT FOR THE CAMERA TO FINISH RECORDING	Camera turned off or 🕨 button pressed during recording.	Message clears from display automatically when recording is complete.	15
MEMORY CARD IS WRITE PROTECTED	Write-protect switch is in "lock" position.	Slide write-protect to "write" position.	8
THIS CARD CANNOT BE USED	Error accessing memory card.	Use approved card.Check that connectors are clean.	81 —
CARD CANNOT BE READ		• Turn camera off and confirm that memory card is correctly inserted.	8–9
CARD IS NOT FORMATTED Cl (Flashes) FORMAT NO D	Memory card has not been for- matted for use in camera.	Press multi selector up to high- light FORMAT and press center to format card, or turn camera off and replace card.	8–9, 78
OUT OF MEMORY	Camera in shooting mode: In- sufficient memory to record pic- tures at current settings.	 Choose new image mode. Remove memory card and use internal memory or insert new memory card. Delete pictures. 	59 8–9 16, 68
	Camera connected to computer: Not enough memory to record in- formation need for transfer.	Delete unwanted pictures and try again.	16, 68

	Display	Problem	Solution	Ъ.
		• Camera has run out of file numbers.	 Select Reset all after either inserting new memory card or formatting the memory card or internal memory. 	78,
	GE CANNOT AVED	copy picture using crop, D- lighting, small picture, or copy options.	 Format destination or delete pictures. If copying pictures to memory card, insert new memory card. Crop can not be used with cropped copies and small 	
		 Invalid image chosen for welcome screen. 	pixels or larger.	59
	ND FILE CAN BE SAVED SAVED	Camera has run out of file numbers.	Select Reset all after either inserting new memory card or using Format option.	8–9, 78, 79–80
BEEN D-LIC	GE HAS ALREADY N MODIFIED. GHTING CANNOT ISED.		D-lighting can not be used with copies.	43
	Contains Mage data	File created by computer or different make of camera.	View file on computer or correct make of camera.	—
	IMAGE CANNOT ELETED	Attempt to delete protected picture.	Remove protection before de- leting picture.	68
NO S	SOUND FILE.	No sound file available for playback.	Press b button to return to shooting mode and record sound file.	33
	RE ARE NO RE INDEX POINTS		Insert index before using I ◀ or ▶I options.	33
CAN MOV	NOT RECORD /IE	Time out error while record- ing movie.	Choose memory card with better performance.	81
	' CITY IS IN THE RENT TIME ZONE	Travel destination is in same time zone as home location.	No need to specify new time zone if travel destination and home are in same time zone.	74–75
THE I	NING ! Mode Selector Dt in the Proper Tion	Mode selector is positioned between two modes.	Adjust mode selector to se- lect desired mode.	2
NO I	MORY CONTAINS MAGES IMAGES ARE DEN	No pictures on memory card or in internal memory. Pictures can not be viewed on COOLPIX S4.	Press 🕨 button to return to shooting mode.	12, 16

Display	Problem	Solution	Ъ
TRANSFER ERROR	computer.	Restart transfer after checking that camera is connected and	12, 46–49
TRANSFER CANCELLED	Transfer cancelled.	batteries are fully charged.	40-49
NO IMAGES ARE MARKED FOR TRANSFER	fer when () is pressed to copy pictures to computer.	Disconnect camera and select at least one picture for trans- fer, then begin transfer again.	69
	ning.	• Start PictureProject before pressing center of multi selector.	_
	 USB cable disconnected while pictures are being printed or copied to computer. 	 If error appears in computer monitor, click OK to exit PictureProject. Turn camera off, reconnect cable, then turn camera on and print or transfer pictures. 	
ERROR	• USB option set incorrectly.	• Turn camera off and dis- connect cable, then choose new USB setting in camera setup menu and reconnect camera. If error persists, use Transfer button in PictureProject to transfer pictures.	10, 46–49
PRINTER ERROR CHECK PRINTER STATUS	Printer error.	Check printer. To resume printing, highlight Resume and press center of multi se- lector. Select Cancel to exit without printing remaining images.	_
SYSTEM ERROR	Error has occurred in camera's internal circuitry.	Turn camera off, unplug AC adapter, remove and reinsert batteries, and turn camera on. If error persists, contact retailer or Nikon represen- tative.	7, 10, 81
LENS ERROR	Error has occurred during lens operation.	Turn camera off and then on again. If error persists, con- tact retailer or Nikon repre- sentative.	10

Troubleshooting

If the 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 in the right-most column for more information.

I 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/or disconnect and reconnect the AC 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 internal memory or the memory card at the time the problem occurred. Data already recorded will not be affected.

Problem	Solution	- Я
	 Camera is off. Batteries are not correctly inserted or battery-chamber cover is not properly latched. 	10 7
Monitor is blank	 Batteries are exhausted. AC adapter is not properly connected. Standby mode: press shutter-release button halfway. USB or audio/video cable connected. Voice recording in progress: press D button to turn monitor on. Time-lapse or interval-timer shooting in progress. 	12 81 78 45, 47 33 39, 62
	• Lens cap is closed: open lens cap.	—
No indicators appear in monitor	Press 🔲 button until indicators are displayed.	13
Monitor is hard to read	 Monitor brightness needs adjustment. Monitor has dimmed to save power: press shutter-release button halfway. 	
	Monitor is dirty: clean monitor.Camera is in playback mode.	83 16, 41
	Batteries are exhausted.	12
No picture is taken	 Flash lamp blinks: flash is charging. Display shows "CARD IS NOT FORMATTED": memory 	15 78
when shutter-release		70
button is pressed	• Display shows "OUT OF MEMORY": insufficient memo-	59
	ry to record picture at current Image mode setting. • Display shows "MEMORY CARD IS WRITE PROTECT- ED": memory card is locked.	8

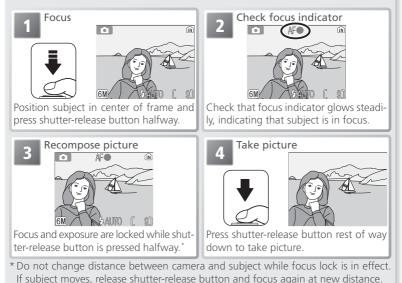
Problem	Solution	8
Pictures are out of	 Camera can not focus on selected subject using autofo- cus. Use focus lock. 	91
focus	• AF-assist illuminator is off. Select Auto for AF assist .	79
10000	• Focus error. Turn camera off and then on again.	10
Pictures are blurred	Camera shook during shot. Blurring caused by camera shake can be reduced by: • Using the flash • Using the Best Shot Selector (BSS) • Using the self-timer with a tripod	17 63 19
Bright specks in picture	Flash is reflecting from particles in air. Turn flash off.	17–18
	 Flash is off. Flash turns off automatically when: LANDSCAPE, Scenic view, or Architecture is selected in landscape assist mode 	25
	Camera is in sports assist mode	26
	• Night landscape, Museum, Fireworks show, or	29–30
Flash does not fire	 Dusk/Dawn is selected in scene mode Sunset, Copy, or Panorama assist is selected in scene mode (other flash modes can be selected) 	29–31
	• Option other than Time-lapse movie is selected in	36
	TTOVIE TTOOLE	
	 movie mode Continuous or Multi-shot 16 is selected for Continuous BSS is enabled 	61 63
Randomly-spaced	• Continuous or Multi-shot 16 is selected for Continuous • BSS is enabled Shutter speed too slow. Noise can be reduced by:	63
Randomly-spaced bright pixels ("noise") appear in image	• Continuous or Multi-shot 16 is selected for Continuous • BSS is enabled	63 17
bright pixels ("noise") appear in	 Continuous or Multi-shot 16 is selected for Continuous BSS is enabled Shutter speed too slow. Noise can be reduced by: Using the flash Selecting scene mode and choosing Night portrait, Night landscape, or Dusk/Dawn as appropriate to 	63 17 27, 29 17
bright pixels ("noise") appear in image	 Continuous or Multi-shot 16 is selected for Continuous BSS is enabled Shutter speed too slow. Noise can be reduced by: Using the flash Selecting scene mode and choosing Night portrait, Night landscape, or Dusk/Dawn as appropriate to subject and lighting conditions Flash is off. Flash window is blocked. If lens cap blocks flash win- dow, fully open lens cap. Subject is outside range of flash: recompose picture with subject in range of flash or use D-lighting. Exposure compensation is too low. 	63 17 27, 29 17 2, 13 17–18, 43 61
bright pixels ("noise") appear in image Pictures are too dark (underexposed)	 Continuous or Multi-shot 16 is selected for Continuous BSS is enabled Shutter speed too slow. Noise can be reduced by: Using the flash Selecting scene mode and choosing Night portrait, Night landscape, or Dusk/Dawn as appropriate to subject and lighting conditions Flash is off. Flash window is blocked. If lens cap blocks flash win- dow, fully open lens cap. Subject is outside range of flash: recompose picture with subject in range of flash or use D-lighting. 	63 17 27, 29 17 2, 13 17–18, 43 61
bright pixels ("noise") appear in image Pictures are too dark (underexposed) Pictures are too bright (overexposed)	 Continuous or Multi-shot 16 is selected for Continuous BSS is enabled Shutter speed too slow. Noise can be reduced by: Using the flash Selecting scene mode and choosing Night portrait, Night landscape, or Dusk/Dawn as appropriate to subject and lighting conditions Flash is off. Flash window is blocked. If lens cap blocks flash win- dow, fully open lens cap. Subject is outside range of flash: recompose picture with subject in range of flash or use D-lighting. Exposure compensation is too low. Subject is backlit: select scene mode setting of Back light, use fill flash, or use D-lighting. Exposure compensation is too high. 	63 17 27, 29 17 2, 13 17–18, 43 61 17, 31,
bright pixels ("noise") appear in image Pictures are too dark (underexposed) Pictures are too bright (overexposed) Pictures are smeared	 Continuous or Multi-shot 16 is selected for Continuous BSS is enabled Shutter speed too slow. Noise can be reduced by: Using the flash Selecting scene mode and choosing Night portrait, Night landscape, or Dusk/Dawn as appropriate to subject and lighting conditions Flash is off. Flash window is blocked. If lens cap blocks flash win- dow, fully open lens cap. Subject is outside range of flash: recompose picture with subject in range of flash or use D-lighting. Exposure compensation is too low. Subject is backlit: select scene mode setting of Back light, use fill flash, or use D-lighting. Exposure compensation is too high. Lens is dirty. Clean lens. 	63 17 27, 29 17 2, 13 17–18, 43 61 17, 31, 43 61 83
bright pixels ("noise") appear in image Pictures are too dark (underexposed) Pictures are too bright (overexposed) Pictures are smeared	 Continuous or Multi-shot 16 is selected for Continuous BSS is enabled Shutter speed too slow. Noise can be reduced by: Using the flash Selecting scene mode and choosing Night portrait, Night landscape, or Dusk/Dawn as appropriate to subject and lighting conditions Flash is off. Flash window is blocked. If lens cap blocks flash win- dow, fully open lens cap. Subject is outside range of flash: recompose picture with subject in range of flash or use D-lighting. Exposure compensation is too low. Subject is backlit: select scene mode setting of Back light, use fill flash, or use D-lighting. Exposure compensation is too high. 	63 17 27, 29 17 2, 13 17–18, 43 61 17, 31, 43 61

Problem	Solution	Ъ
Can not zoom in on picture	 Picture is a movie. Picture was created with small picture option. Picture has been cropped to below 320 × 240. 	36 70 42
Can not create copy using crop, D-light- ing, or small picture options	 Picture is a movie. Crop and small picture options can not be used on copies created with these options. D-lighting can not be used on copies created with crop, D-lighting, or small picture options. Memory is insufficient. Delete pictures. Display shows "MEMORY CARD IS WRITE PROTECT-ED": memory card is locked. 	
Pictures are not displayed on televi- sion set	Choose correct video mode.	79 47, 52
era is connected or memory card insert-	 Camera is off. AC adapter is not properly connected, or batteries are exhausted. USB cable is not correctly connected, or card not properly inserted in card reader or card slot. Appropriate USB option is not selected. Camera is not registered in Device Manager (Windows only). See the PictureProject reference manual (on CD) for further information. 	47 46–47
Pictures are not transferred when center of multi selec- tor is pressed Camera turns off without warning	USB option is set to Mass storage and no memory card is inserted. • Batteries are low. • Batteries are cold.	8, 46 12 84

Appendix

Focus 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.



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., vour subject is inside a cage).

File Storage

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
🖾* High (2816*)	4	80
Mormal (2816)	9	165
Mormal (2048)	16	300
PC screen (1024)	57	1025
W TV screen (640)	123	2200

* All figures are approximate. Number of pictures that can be stored varies with make of memory card and type of scene recorded. If memory remains for more than 999 pictures, exposure count display will show 999.

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"). Movies are recorded as QuickTime movie files and can be played back on a computer after transfer.

Originals	Identifier	Extension	S
Still picture	DSCN	.JPG	16
Movie	DSCN	.MOV	40
Time-lapse movie	INTN	.MOV	39
Voice recording	DSCN	.WAV	34
Voice memo	Same as	WAV	44
voice memo	picture		

Copies	Identifier	Extension	Ь
Cropped copy	RSCN	.JPG	42
Small copy	SSCN	.JPG	70
D-lighting copy	FSCN	.JPG	43

Pictures are stored in folders named with a three-digit folder number followed by a five-character identifier: "P_" plus a three-digit sequence number for pictures taken using panorama assist (e.g., "101P_001"; 32), "INTVL" for interval timer photography (e.g., "101INTVL"; 362), "SOUND" for voice recordings (e.g., "101SOUND"; 34), and "NIKON" for all other pictures (e.g., "100NIKON"). Folders can hold up to 200 pictures; if a picture is taken when the current folder contains 200 pictures, a new folder will be created by adding one to the current folder number. If a picture is taken when the current folder number. If a picture is taken when the current folder number. If a picture is numbered 9999 and contains 200 pictures or a picture numbered 9999, no further pictures can be taken until the memory card or internal memory is formatted (378) or a new memory card is inserted.

When a picture is viewed on the camera, 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.

File Storage: Image File and Folder Names (Continued)

Files copied using Copy > Selected images/Selected files are copied to the current folder, where they are assigned new file numbers in ascending order starting from the largest file number in memory. Copy > All images/Copy all files 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 (235, 71).

The picture displayed when playback mode is selected is the picture with the largest file number in the folder with the largest folder number.

Refreshing Nikon EN-MH1-B2 Rechargeable NiMH Batteries

An MH-71 battery charger and rechargeable EN-MH1-B2 NiMH batteries are provided with the camera in some regions and are also available as options (28 81). NiMH batteries may suffer a temporary drop in capacity if charged after long periods of disuse or before being fully discharged. They will return to normal after being refreshed a few times as described below.

- 1 Insert both batteries into the charger (\swarrow 6).
- 2 Press the REFRESH button until the REFRESH lamp lights and close the lid. The REFRESH lamp turns off when the batteries are fully discharged. The batteries can now be removed or left in the MH-71 to recharge (86). Unplug the charger after removing the batteries.

To resume charging before the batteries are fully discharged, or to refresh the batteries once charging has begun, press the REFRESH button for about two seconds.

Batteries that retain a charge for only short periods after being refreshed have reached the end of their working life and can no longer be used.

Printing the Date and Time of Recording on Pictures

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 (18776)
- if the photo printer or print service supports Digital Print Order Format (DPOF), use the **Date** option in the **Print set** menu (W 50–51)
- transfer the pictures using PictureProject and print them using the "Print Metadata" option (see the PictureProject reference manual, on CD)

C "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

Specifications

Nikon COOLPIX S4 Digital Camera

	-
Туре	Compact digital camera
Effective pixels	6.0 million
CCD	¹ /2.5-in. CCD; total pixels: 6.4 million
Image size (pixels)	• 2,816 × 2,112 (2816 *, 2816) • 1,024 × 768 (1024)
	• 2,048 × 1,536 (2048) • 640 × 480 (640)
Lens	Zoom-Nikkor with 10×optical zoom
Focal length	F=6.3–63 mm (35-mm [135] camera-format equivalent: 38–380 mm)
f/-number	f/3.5
Construction	12 elements in 9 groups
Digital zoom	Up to 4 × (35-mm [135] camera-format equivalent: 1520 mm)
Autofocus (AF)	Contrast-detect through-the-lens (TTL) AF with AF-assist illuminator
Focus range	30 cm (12 in.)–∞
(distance from lens)	Macro mode: 4 cm (1.6 in.)–∞ (W)
Focus-area selection	Center; auto multi AF
AF-assist illuminator	Class 1 LED product (IEC60825-1 Edition 1.2 ⁻²⁰⁰¹); max. output: 1400 µW
Monitor	2.5 in., 110,000-dot, TFT LCD monitor with brightness adjustment
Approximate frame	Shooting mode: 97% horizontal and 97% vertical
coverage	Playback: 100% horizontal and 100% vertical
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^{\dagger} , and
-11 6	Digital Print Order Format (DPOF)
File formats	Compressed: JPEG-baseline-compliant
	Movies: QuickTime Sound files: WAV
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 $\frac{1}{3}$ EV)
Range	+2.7-+17.5EV
Shutter	Mechanical and charge-coupled electronic shutter
Speed	2-1/1000 S
Aperture	Electronically-controlled aperture and ND-filter selection
Range	f/3.5, f/4.0, f/5.6, f/6.8, and f/13.6
ISO Sensitivity	Approximately equivalent to ISO 50, 100, 200, 400; Auto
Self-timer	Approximately 10 seconds
Built-in flash	
Range (approx.)	0.4–3.0 m/1 ft. 4 in.–10 ft.
Sync method	Sensor flash system
* A standard widely use	d in the digital camera inductry to oncure compatibility among different makes

* A standard widely used in the digital camera industry to ensure compatibility among different makes.

+ Exchangeable Image File Format for Digital Still Cameras. Version 2.2 allows information stored with pictures to be used for optimal color reproduction when images are output on Exif-compliant printers.

I/O terminals	Audio/video out; digital IO (USB)
Interface	USB
Video output	Can be selected from NTSC and PAL
Supported languages	Chinese (Simplified and Traditional), Dutch, English, French, German, Ital- ian, Japanese, Korean, Russian, Spanish, Swedish
Power sources	 Two AA alkaline, oxy-nickel, or lithium batteries Two rechargeable EN-MH1-B2 NiMH batteries EH-62B AC adapter kit
Battery life	Approximately 160 shots with alkaline, 450 shots with lithium, or 290 shots with EN-MH1-B2 batteries *
Dimensions with lens in storage position	111.5×68.5×37mm/4.4×2.7×1.4 in. (W×H×D)
Approximate weight	205 g (7.2 oz.) without lens cap, batteries or memory card
Operating environment	
Temperature	0-+40°C (+32-104°F)
Humidity	Less than 85% (no condensation)

* Based on Camera and Imaging Products Association (CIPA) standard for measuring life of camera batteries. Measured at 25 °C (77 °F); zoom adjusted with each shot, flash fired with every other shot, image mode set to NORMAL.

Unless otherwise stated, all figures are for a camera with fully-charged EN-MH1-B2 batteries operated at an ambient temperature of $25 \,^{\circ}$ C (77 $^{\circ}$ F).

MH-71 Battery Charger (Option; Supplied with Camera in Some Regions)

-	
Rated input	AC 100–240 V, 0.11–0.065 A, 50/60 Hz
Charging output	DC 1.2 V/2000 mA
Applicable batteries	Nikon EN-MH1-B2 rechargeable Ni-MH batteries
Discharge time	Approximately 5 hours
Charging time	Approximately 2.5 hours
Operating temperature	5-+35°C (+41-95°F)
Dimensions	Approximately $70 \times 79 \times 30$ mm/2.8 × 3.1 × 1.2 in. (W × H × D)
Length of cord	Approximately 1800 mm (70.9 in.)
Weight	Approximately 110 g (3.9 oz.), excluding power cable

Specifications

Nikon will not be held liable for any errors this manual may contain. The appearance of this product and its specifications are subject to change without notice.

EN-MH1-B2 NiMH Batteries

The capacity of NiMH batteries will drop if they are charged repeatedly without first being fully discharged. The batteries will return to normal once fully discharged. Note that NiMH batteries gradually lose their charge when not in use; refresh the batteries immediately before use.

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