

CE



The Nikon Guide to Digital Photography with the

COOLPIX 7600

DIGITAL CAMERA



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For Your Safety

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

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



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

WARNINGS



Turn off immediately in the event of malfunction

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



Do not use in the presence of flammable gas

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



Observe caution when using the camera strap

Never place the strap around the neck of an infant or child.



Do not disassemble

Touching the product's internal parts could result in injury. In the event of malfunction, the product should be repaired only by a qualified technician. Should the product break open as the result of a fall or other accident, take the product to a Nikonauthorized service center for inspection after unplugging the AC adapter and removing the batteries.



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 camera off and make sure the power-on lamp has gone out. If you are using an AC adapter, be sure it is unplugged.
- Use a pair of rechargeable Nikon EN-MH1 NiMH batteries, two ZR6 (AA) nickel manganese batteries, LR6 (AA) alkaline batteries, or two FR6/L91 (AA) lithium batteries. Do not use other types of battery. Do not mix batteries of different types.
- When inserting batteries, do not attempt to insert them upside down or backwards.
- Do not short or disassemble batteries.

- Do not expose batteries to flame or to excessive heat.
- Do not immerse in or expose to water.
- 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.
- When the battery is not in use, at tach the terminal cover and store in a cool place.
- Immediately after use, or when the product is used on battery power for an extended period, the batteries may become hot. Before removing the batteries, turn the camera off and allow the batteries to cool.
- Discontinue use immediately should you notice any changes in the batteries, such as discoloration or deformation.



Use appropriate cables

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



Keep out of reach of children

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



Removing memory cards

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



CD-ROMs

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



Observe caution when operating the flash

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



Avoid contact with liquid crystal

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

Cautions

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



Keep dry

The device will be damaged if immersed in water or subjected to high levels of moisture.

V

Handle the lens and all moving parts with care

Do not apply force to the lens or lens cover, or to the connector, card slot, or battery chamber covers. These parts are especially susceptible to damage.

Turn the product off before removing or disconnecting the power source

> Do not unplug the product or remove the batteries while the product is on, or while images are being recorded or deleted. Forcibly cutting power in these circumstances could result in loss of data or in damage to product memory or internal circuitry. To prevent an accidental interruption of power, avoid carrying the product from one place to another while the AC adapter (available separately) is connected.

Do not drop

 \boldsymbol{V}

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

Keep away from strong magnetic fields

Do not use or store this device in the vicinity of equipment that generates strong electromagnetic radiation or magnetic fields. Strong static charges or the magnetic fields produced by equipment such as radio transmitters could interfere with the monitor, damage data stored on the memory card, or affect the product's internal circuitry.

 \boldsymbol{V}

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.

 \boldsymbol{V}

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.

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.

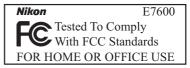
Notice for customers in the U.S.A.

- 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).

Federal Communications Commission (FCC) Radio Frequency Interference Statement

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

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.



• Consult the dealer or an experienced radio/ television technician for help.

CAUTIONS Modifications

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

Interface Cables

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

Notice for customers in the State of California

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

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

Notice for customers in Canada

CAUTION

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

ATTENTION

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

Notice Concerning Prohibition of Copying or Reproduction

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

• Items prohibited by law from being copied or reproduced

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

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

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

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

• 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.

Before Taking Important Pictures

Before taking pictures on important occasions (such as at weddings or before taking the camera with you 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.

Use Only Nikon Brand Electronic Accessories

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

The use of NON-Nikon electronic accessories could damage your camera and may void your Nikon Warranty.

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

The AF-Assist Illuminator LED

The light-emitting diode (LED) used in the AFassist illuminator conforms to the following IEC standard:



Design Rule for Camera File System (DCF)

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

Exif Version 2.2

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

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Before You Begin

Introduction

Thank you for your purchase of a Nikon COOLPIX 7600 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 handy when using the product.

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



A

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



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

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

 \mathbf{Q}

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

Illustrations and on-screen text in this manual may differ from the actual display.

Internal Memory and SD Memory Card

This camera uses both an internal memory and an SD memory card for storing pictures. If you insert a card into the camera, pictures will automatically be stored on the card instead of in the memory. To store, view or delete pictures in the memory or to format the memory, remove the memory card first.



Life-Long Learning

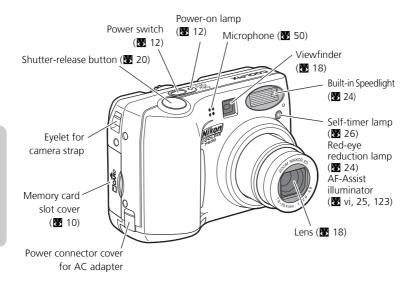
As part of Nikon's "Life-Long Learning" commitment to ongoing product support and education, continually-updated information is available on-line at the following sites:

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

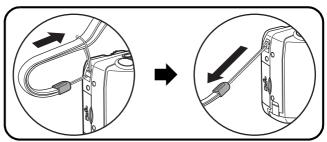
Visit these sites to keep up-to-date with the latest product information, tips, answers to frequently-asked questions (FAQs), and general advice on digital imaging and photography. Additional information may be available from the Nikon representative in your area. See the URL below for contact information:

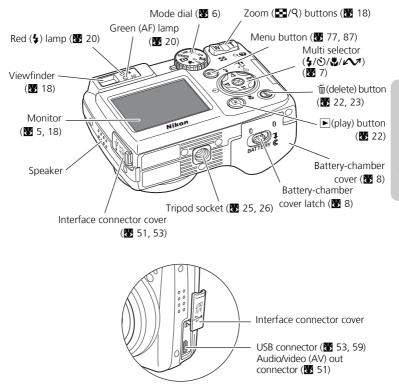
http://nikonimaging.com/

Parts of the Camera



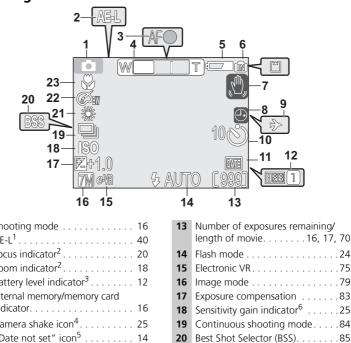
Attaching the Camera Strap





The Monitor

Shooting



1	Shooting mode
2	AE-L ¹
3	Focus indicator ²
4	Zoom indicator ²
5	Battery level indicator ³
6	Internal memory/memory indicator.
7	Camera shake icon ⁴
8	"Date not set" icon ⁵
9	Time zone
10	Self-timer indicator
11	Date imprint indicator
12	Date counter/
	stored date number

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

6 Indicates that camera has raised sensitivity automatically.

See page 42 and 44 for the monitor indicators during voice recording and voice playback.

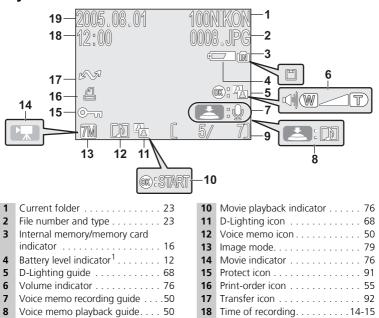
23

. 99 26

. 101

. . . . 102





- 9 Current frame number/total number of frames/length of movie....23, 76
 - 1 Appears when batteries are running low.

Controlling the Monitor

To hide or display indicators in the monitor, select the **Photo info** option in the MONITOR SET-TINGS menu. (18) 100)



Monitor shows current settings and view through lens



Monitor shows view through lens only

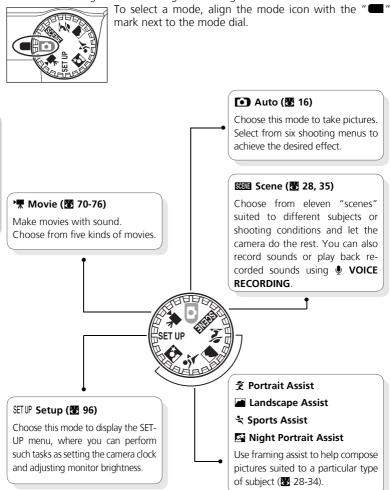


Monitor off

Monitor turns off while flash is charging (20).

The Mode Dial

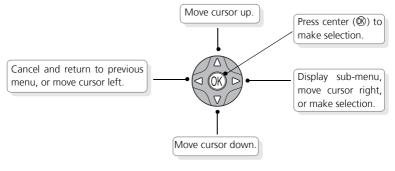
Using the mode dial, you can select from seven shooting modes and setup mode. Choose a shooting mode according to shooting conditions.



Before You Begin

Navigating the Menus

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



Displaying the Help

The COOLPIX 7600 displays explanations about modes and menus of the camera in the monitor.

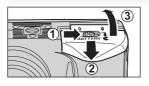
Pressing Q (T) button when displaying the SHOOTING MENU (S 77), MOVIE menu (S 70), PLAYBACK MENU (S 87) or SET-UP menu (S 96) displays the help for the selected item. Pressing (while displaying the help performs the function.





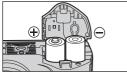
First Steps

Inserting Batteries



Open the battery-chamber cover

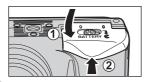
• Slide the battery-chamber cover latch as illustrated (①), pull the battery-chamber cover (②) and open (③).



7 Insert the batteries

• Insert the batteries as shown in the label inside the battery chamber.

AA batteries



Close the battery-chamber cover

• Close the battery-chamber cover (①) and slide it in until it latches (②). Be sure that the battery-chamber cover is properly latched.

Your camera uses:

- LR6 (AA) alkaline batteries (×2), or
- Nikon EN-MH1 rechargeable nickel-metal hydride (NiMH) batteries (×2), or
- ZR6 (AA) nickel manganese batteries (×2), or
- FR6/L91 (AA) lithium batteries (×2)
- *Do not mix batteries of different types.

[IMPORTANT] Battery Type

To improve battery performance, select the type of battery currently inserted in the camera in the SET-UP menu. The default setting is the type of the included batteries. For cameras purchased in Europe, if included batteries are alkaline, change the default setting to **Alkaline**. When any other type of battery is used, turn the camera on and change the setting (**X** 111).

Replacing Batteries

Turn the camera off and make sure that the power-on lamp has gone out before removing or inserting batteries.

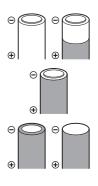
Read Battery Warnings

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

Damaged Batteries

The following batteries can not be used:

- Batteries with peeling or damaged insulation. Using batteries with damaged insulation could result in leakage, overheating, or rupture. Note that due to manufacturing defects even new batteries may have faulty insulation.
- Batteries with insulation that covers only the sides of the battery and not the area around the negative terminal.
- Batteries with a flat negative terminal. Do not use such batteries even if the insulation adequately covers the area around the negative terminal.



Alkaline Batteries

Performance of alkaline batteries may vary greatly depending on the manufacturer. Choose a reliable brand.



EN-MH1 Batteries

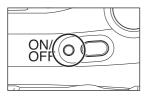
Using an MH-71 battery charger, charge EN-MH1 batteries before first use. Charge each pair of batteries at the same time — do not charge batteries one at a time or mix batteries with different charges. Note that EN-MH1 batteries may discharge guickly immediately after purchase or after the batteries have been left unused for an extended period. This is normal, and the batteries will retain a charge for longer periods after being used and recharged several times. For more information on charging batteries, see the documentation provided with the MH-71.

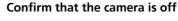
Alternative Power Sources

To power the camera continuously for extended periods, use an EH-62B AC adapter (😿 113). 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 or sounds can be stored in the camera's internal memory (about 14 MB) or on Secure Digital (SD) memory card. If no memory card has been inserted in the camera, pictures or sounds will be stored in the memory, and if the camera contains a memory card, then they will automatically be stored on the card.

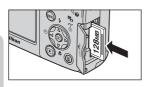




• The power-on lamp should be off.



Open the memory card slot cover



Terminals

Front

Insert the memory card

• Insert the memory card in the direction of the arrow as shown. Insert straight without bending.

Inserting Memory Cards

Insert the memory card terminals first.

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

L Close the memory card slot cover

Directio

of insertion

Formatting Memory Cards

Memory cards must be formatted before first use. For information on formatting memory cards, see "The SET-UP Menu: Format memory/card" (😈 106, 107).



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 memory card to partially eject the card. The card can then be removed by hand.



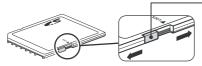
Memory Cards

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

Ø

The Write Protect Switch

SD cards are equipped with a write protect switch to prevent accidental loss of data. When this switch is in the "lock" position, pictures or sounds can not be recorded, deleted, or edited, and the card can not be formatted. Do not lock the card when recording, deleting, or editing pictures or sounds.



Write protect switch

When card is locked, pictures or sounds can be played back but can not be recorded, deleted, edited, or transferred using the camera ($\checkmark \checkmark$) button.

Checking the Battery Level



Turn the camera on

• Press the power switch. The power-on lamp will light. Rotate the mode dial to a setting other than SETUP.



2 Check the battery level in the monitor

- Before checking the battery level, select the appropriate **Battery type** option in the SET-UP menu (**W** 111).

Display	Meaning	
NO ICON	Batteries fully charged.	
Low battery.		
WARNING!! BATTERY EXHAUSTED	Batteries exhausted. Replace with new or fully charged batteries.	

The red (**5**) and green (AF) lamps will blink when the "BATTERY EXHAUSTED" warning is displayed.

💽 The 🕨 Button

The camera can also be turned on by pressing the \blacktriangleright button for about a second. Your most recent picture will be displayed in the monitor (B 22).

Turning the Camera Off

To turn the camera off, press the power switch when the power-on lamp is lit. Do not remove the batteries or disconnect the EH-62B AC adapter until the power-on lamp has gone out.

The Power-on Lamp

When the power on lamp is	The camera is
On	On
Blinking	In standby mode
Off	Off

Auto Power Off (Standby Mode)

If no operations are performed for one minute (default setting), the monitor will turn off automatically and the camera will enter standby mode to reduce the drain on the batteries. While the camera is in standby mode, the power-on lamp will blink. If no operations are performed for three minutes after the camera enters standby mode, the camera will turn off automatically and the power-on lamp will go out. The camera will be reactivated from standby mode when you:

- Press the power switch
- Press the shutter-release button halfway
- Press the 🕨 button to view the last picture taken
- Press
 button to display the menu for the current mode
- Rotate the mode dial to select a new mode

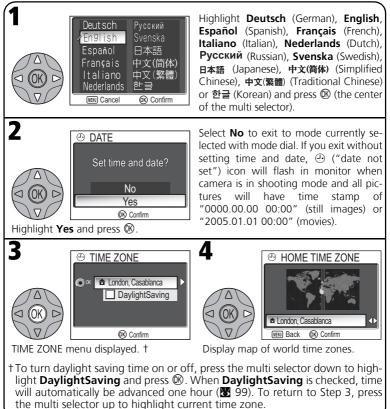
The length of time before the camera enters standby mode can be changed using the **Auto** off option in the SET-UP menu (**W** 105). However, when a menu or the SET-UP menu is displayed, the monitor will turn off after three minutes, and when pictures are being shown in a non-stop slide show (**W** 88) or when the camera is powered by an AC adapter, the monitor will turn off after thirty minutes.

💽 Sleep Mode

Turning sleep mode on will cause the camera to enter standby mode when there is no change in the brightness of the subject, even before the time selected in the AUTO OFF menu has elapsed (¥ 105).

Basic Setup

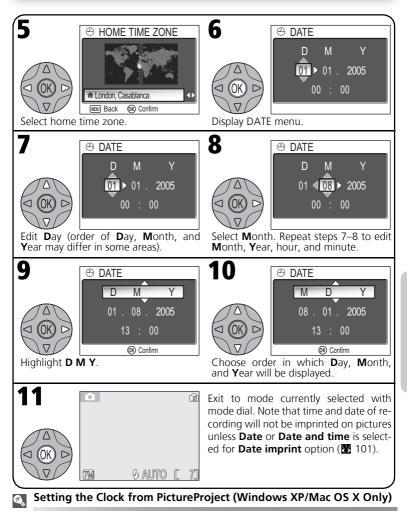
The first time the camera is turned on, a language-selection dialog will be displayed in the monitor. Follow the steps below to choose a language and set the time and date.





When the main batteries are installed or the camera is powered by an AC adapter, the clock battery will charge in about ten hours. When fully charged, the clock battery can provide several days of back-up power.

Basic Setup

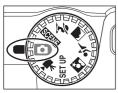


If the camera is connected with the USB option set to PTP (15 52), PictureProject (included) can be used to set the camera clock to the same time and date as the computer. See the PictureProject Reference Manual for details.

Basic Photography

Step 1 - Select 💽 Mode

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



Rotate the mode dial to **O**



creative intent (W 24). The de-

fault setting is \$ ANTO (auto).

Turn the camera on

• The power-on lamp will light and the monitor will display a welcome screen (👿 97). The camera is ready to shoot when the monitor shows the view through the camera lens.

Memory/memory card

When the camera contains a

memory card, 1 is displayed, Shooting mode/scene mode and when there is no card in indicates auto mode the camera, **m** is displayed. Image mode ณ์ม . Choose from six options depending on how you plan to use the picture (87 79). The default setting is 77. 5 AUTO (7M) Flash mode Number of exposures remaining Choose from five modes depending on lighting and your

The number of pictures that can be stored depends on the capacity of the memory or memory card and the option chosen for **Image mode** (**W** 79).

Basic Photography



Number of Exposures Remaining

If the number of exposures remaining is zero, the message "OUT OF MEMORY" will be displayed in the monitor. No further pictures can be taken until you:

- choose a lower Image mode setting (W 79)
- insert a new memory card (8 10)
- delete some pictures (8 22-23, 89-90)

Shooting Menu C.

Pressing 🐵 button in 🚺 (auto) mode displays the SHOOTING MENU (🐰 77). Using the SHOOT-ING MENU, Image mode (279), White balance (281), Exp. +/- (283), Continuous (284), BSS (1885) or Color options (18886) options are available for your shooting purpose.

Step 2 - Frame the Picture









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



Ready the camera

Hold the camera steadily in both hands. Photographs can be framed in the monitor or the viewfinder.

Don't Block the Shot

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

Frame your subject

Your Nikon digital 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 $3 \times$, and digital zoom, in which digital processing is used to further magnify the image up to $4 \times$, for a total of $12 \times$. Use the zoom buttons to frame your subject in the center of the monitor:

- Press the 💽 (**W**) button to zoom out from your subject, increasing the area visible in the frame.
- Press the Q (T) button to zoom in on your subject so that it fills a larger area of the frame.

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. Note that the effects of digital zoom are not visible in the viewfinder - use the monitor when framing pictures with digital zoom. Digital zoom is not available when the monitor is off or when **Multi-shot 16** is selected in the CONTINUOUS menu (**W** 84).

When Lighting Is Poor

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

Monitor or Viewfinder?

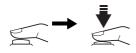
Use the monitor to confirm camera settings at a glance while at the same time viewing an image that shows how the final picture will appear. This is particularly useful when the image in the view-finder does not accurately reflect what will appear in the final picture, for example when:

- your subject is less than a meter (3'3") from the camera
- digital zoom is in effect

Use the viewfinder when you want to save power by turning the monitor off (**W** 5), or when bright ambient lighting makes it difficult to see the display in the monitor.

Step 3 - Focus and Shoot









Green (AF) lamp

Focus indicator





Focus

Press the shutter-release button halfway to set focus and exposure. In • 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 focus and flash. Focus is indicated by the green AF (autofocus) lamp next to the viewfinder and by the focus indicator in the monitor. Flash status is indicated by the red \clubsuit (flashready) lamp next to the viewfinder.

Red (‡) lamp		Flash will fire when picture is taken.
		Flash charging. Wait until lamp comes on.
q	Off	Flash off or not required.
On Green (AF) lamp/ focus indicator		Subject in focus.
		Camera unable to focus on sub- ject at center of frame. Using focus lock, focus on another subject at same distance, then recompose picture and shoot.

Monitor turns off while flash is charging.

2 Take the picture

Press the shutter-release button the rest of the way down to take the picture. The shutter sound is played when the shutter-release button is pressed (default setting 103). To prevent blur, press the shutter-release button down smoothly. You can choose whether or not to display the camera shake warning (25).

During Recording

While pictures are being recorded to the memory or memory card, the green (AF) lamp blinks, and the $\underline{\mathbb{F}}$ icon lights or the memory icon $\mathbb{I}/[-]$ blinks. You can continue to take pictures until the $\underline{\mathbb{F}}$ icon is displayed. **Do not turn the camera off, eject the memory card, or remove or disconnect the power source while pictures are being recorded.** Cutting power or removing the memory card in these circumstances could result in loss of data or in damage to the camera or card.

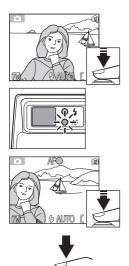
Ø Getting Good Results with Autofocus

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



Focusing on Off-Center Subjects: Focus Lock

If your subject is not at the center of the frame when the shutter-release button is pressed halfway, your picture may be out of focus. To focus on an off-center subject:



Focus

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

Check the green (AF) lamp and focus indicator With the shutter-release button pressed halfway, check that the green (AF) lamp and focus indicator glow steadily, indicating that the subject is in focus. Focus and exposure will remain locked while the shutter-release button is pressed halfway.

Recompose the picture

Keeping the shutter-release button pressed halfway, recompose your picture. Do not change the distance between the camera and your subject while focus lock is in effect. If your subject moves, remove your finger from the shutter-release button and focus again at the new distance.

O Take the picture

Press the shutter-release button the rest of the way down to shoot.

Step 4 - View the Results (Full-screen Playback Mode)



2005.08.01 13:00 0001::PG 0001::PG 0001::PG 0:°T 0:°T 0:°T 0:°T 0:°T 11 0:°T 11 0:°T 0:°T 11 0 0:°T 11 0:°T 11 0 0 0 0 0





Press the 🕨 button

2 View pictures in the monitor

To view additional pictures, press the multi selector down or right to view pictures in the order recorded, up or left to view pictures in reverse order. To scroll quickly to a particular frame number without viewing the intervening pictures, press and hold the multi selector. \blacksquare : \P (voice memo recording guide) is displayed.

To cancel full-screen playback and return to shooting mode, press the \blacktriangleright button again.



Deleting Unwanted Pictures

To delete the picture displayed in the monitor, press the m button. A confirmation dialog will be displayed. Press the multi selector up or down to highlight **Yes** and then press the center of the multi selector. To exit without deleting the picture, high-light **No** and press (R) (the center of the multi selector).

Deleting Your Last Shot

At any time during shooting, you can press the \tilde{m} button to delete the last picture taken. The confirmation dialog shown at right will be displayed. Delete the picture as described opposite under "Deleting Unwanted Pictures."



/ Image File and Folder Names

In the memory or on the memory card, pictures and voice recordings 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")

Picture type		Identifier	Extension	₩
Original	Still picture	DSCN	.JPG	22
Original	Movie	DSCN	.MOV	76
	Cropped copy	RSCN	.JPG	66
Сору	Copy created with the D-Lighting function	FSCN	.JPG	67
	Small copy	SSCN	.JPG	69
	Voice recording	DSCN	.WAV	42
Audio file	Voice memo	DSCN, SSCN, RSCN, FSCN	.WAV	50

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

Pictures or voice recordings are stored in folders created automatically by the camera and named with a three-digit folder number followed by "NIKON" (e.g., "100NIKON") or "SOUND" (e.g., "101SOUND"). Folders can hold up to 200 pictures; if you take a picture when the current folder contains 200 pictures, a new folder will be created by adding one to the current folder number. If you take a picture when the current folder contains a picture numbered 9999, a new folder will be created and file numbering will begin again from 0001. If the number of files reaches 200 or file numbering reaches 9999 when the memory or memory card contains a folder numbered 999, no further pictures can be taken until the memory or memory card has been formatted (**W** 106) or a new memory card inserted.

💽 Playback Tip

The first and last pictures in memory are linked. Pressing the multi selector up or left when the first picture in memory is displayed will take you to the last picture. Pressing the multi selector down or right when the last picture is displayed takes you to the first picture.

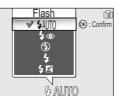
When Lighting Is Poor: Using the Flash

The following flash modes are available:

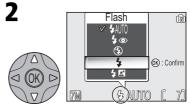
	Mode	How it works	When to use it	
l	\$ AUTO Auto	Flash fires when lighting is poor.	Best choice in most situations.	
	⊊ ⊛ Auto with red-eye reduction	Red-eye reduction lamp fires before main flash, reducing "red-eye."		
	ণ্ডু Flash Cancel (off)	Flash will not fire even when lighting is poor.	Use to capture 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.	
	부덕 (Slow sync)	Auto flash combined with slow shutter speeds.	Use to capture both subject and back- ground at night or under dim light.	

To select the flash mode:





Display Flash menu.



Highlight desired mode (to exit without changing mode, wait for a while), and press M (the center of the multi selector). Flash mode shown by icon at bottom of monitor.

🖉 Flash Range

Flash range varies with zoom position. The range at minimum zoom is 0.4 - 3.3m (1'4'' - 10'10'') and 0.4 - 3.4m (1'4'' - 11'2'') at maximum zoom.

Red-Eye Reduction

The COOLPIX 7600 Red-eye reduction flash function uses an advanced red-eye reduction method. Red-eye reduction lamp fires before the main flash to reduce "red-eye." In addition, if red-eye is detected, the camera will automatically correct it when storing the picture ("In-Camera Red-Eye Fix"). When using this function, there is a slight delay before you can press the shutter-release button again for the next shot. Depending on the situation, red-eye reduction may not always produce the desired results. In some rare cases, other picture areas may be affected. Choose another flash mode and try again.

The 🖞 (Camera Shake) icon and the ISO (Sensitivity) icon

When lighting is poor and the flash is off (\mathfrak{G}), the \mathfrak{A} (camera shake) icon or the **ISO** (sensitivity) icon will appear in the monitor.

When the a icon is displayed, use of a tripod or support is recommended (noise may appear in the picture taken).

The ISO (sensitivity) icon is displayed when the camera automatically increases sensitivity from the normal sensitivity (roughly equivalent to film

with an ISO 50 rating) to minimize blur caused by slow shutter speed. The picture taken when the **ISO** (sensitivity) icon is displayed may be slightly mottled.

Close-Ups

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

Flash Mode Selection

In (auto) mode, the camera "remembers" the current flash mode setting even when the camera is turned off. The most recent setting will automatically be restored whenever the mode dial is set to (a) unless the **Reset all** option in the SET-UP menu is used to restore the default setting ((1991)). Depending on the shooting mode selected, the flash mode may change automatically when you choose a new shooting mode ((1992)) 28-41).

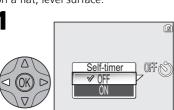
The AF-Assist Illuminator

The COOLPIX 7600 is equipped with an 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. When the camera is zoomed all the way out, the AF-assist illuminator has a range of 0.4 - 2.0 m (1'4'' - 6'7''). The range at maximum zoom is 0.4 - 1.4 m (1'4'' - 4'7''). In scene mode (B 28-41), the AF-assist illuminator is only available in C (Portrait) and G (Night Portrait) modes without the framing assist option (B 29-34), and in C (Party/ Indoor), G (Back VSnow), M (Banchurson), assist modes.



Taking a Self-Portrait: Using the Self-Timer

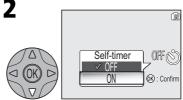
When the self-timer is on, pictures are taken ten seconds after the shutter-release button is pressed. This can be used to allow you to appear in your own pictures or to prevent close-up or low-light shots from being blurred by the camera movement that occurs when the shutter-release button is pressed. When using this option, you should either mount the camera on a tripod (recommended) or rest it on a flat, level surface.



Display Self-timer menu.



Exit menu. Self-timer icon is displayed in monitor.



Highlight **ON** (to exit without changing mode, wait for a while).



Frame picture and start timer. Countdown timer shows number of seconds remaining until picture is taken.

Focus and exposure lock when the shutter-release button is pressed. 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.



Stopping the Self-Timer

To stop the timer before the picture is taken, press the shutter-release button.

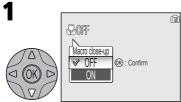


The Self-Timer

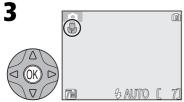
The self-timer is not available in some shooting modes (8 28-41).

Easy Close-ups: Macro Close-up Mode

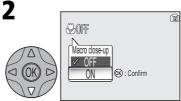
Macro close-up mode is used for taking close-up shots of small objects at very short distances (minimum 4 cm/1.6").



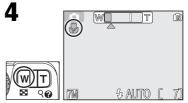
Display Macro close-up menu.



Exit menu. 🕷 icon appears in monitor when camera is in macro close-up.



Highlight **ON** (to exit without changing setting, wait for a while or press multi selector to left).



Frame picture. If zoom indicator and **S** icon are displayed in green, camera can focus at a distance of 4 cm/1.6".

Macro Close-up Mode

At short ranges, the viewfinder does not show the image that will appear in the final picture. Use the monitor for close-ups.

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

Macro close-up is not available in some shooting modes (8 28-41).

Your Nikon digital camera offers a choice of four "assist" and twelve "scene" modes. In these modes, camera settings are automatically optimized for the selected subject type, sparing you the necessity of adjusting settings one-by-one.

Assist Modes

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

	Mode	Description	×
1	Portrait assist	Use for portraits in which the main subject stands out clearly while background details are softened.	30
	Landscape assist	Use to enhance outlines, colors, and contrast in sky- scapes, forests, and other landscape shots, or to take portraits that feature a landmark in the background.	32
*	Sports assist	Use for sports shots that freeze motion in rapidly-moving subjects.	33
<u>o</u> t	Night portrait assist	Use for portraits taken against a dimly-lit backdrop.	34

Scene Modes

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

Mode	Description	X
🗮 PARTY/INDOOR	Use to capture background details or the effects of can- dlelight and other indoor lighting.	36
BEACH/SNOW	Use for bright subjects such as snowfields, beaches, and sunlit expanses of water.	36
🚢 SUNSET	Use to preserve the deep hues seen in sunsets and sunrises.	36
🛎 DUSK/DAWN	Use to preserve the colors seen in the weak natural light before sunrise and after sunset.	37
🖬 NIGHT LANDSCAPE	Use when taking landscape shots at night.	37
CLOSE UP	Use to capture vivid colors in close-up shots of flowers, insects, and other small objects.	37
🟛 MUSEUM	Use where flash photography is prohibited.	38
SIREWORKS SHOW	Use to capture the expanding burst of light from a firework.	38
COPY	Use to copy text and line drawings.	38
BACK LIGHT	Use when light is coming from behind your subject, throwing their features into shadow.	39
🖂 PANORAMA ASSIST	Use when taking a series of pictures that will later be joined to form a single scene.	40
VOICE RECORDING	Use when recording sound only.	42
Assist and Scone	Vedec	

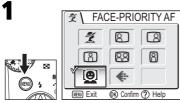
Assist and Scene Modes

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

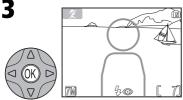
Framing Assist

The four assist modes offer a selection of framing assist options that allow you to compose pictures with the help of framing guides displayed in the monitor. To use framing assist, rotate the mode dial to the desired mode and follow the steps below.

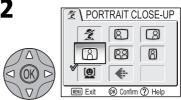
* When the mode dial is rotated to \mathcal{Z} (portrait assist), the screen of the Face-priority AF (\mathbb{W} 31) is displayed in the default setting.



After selecting mode, display framing assist menu.



Make selection to return to shooting mode. Framing guide appears in monitor.



Choose composition type. Current selection shown by large icon and caption.



When taking pictures, position subject or subjects in framing guide as described on following pages.

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.*



Image Mode

The Image mode option is available in the assist mode menu.





💈 Portrait Assist

focus on subject in framing guide.

will focus on subject in framing guide.

PORTRAIT

PORTRAIT | FFT

R PORTRAIT RIGHT

8 PORTRAIT CLOSE-UP

PORTRAIT COUPLE













-

focus on closest subject.

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

frame. Camera will focus on face area in framing guide.





FACE-PRIORITY AF

This function is optimum for photographing portraits (from the waist up) of up to three people. When the camera recognizes human faces, the square focus area is displayed and the subject is in focus. When the shutter-release button is pressed halfway, focus area is locked and the camera focuses (**W** 31).

No guides are displayed in monitor. Camera focuses on subject in center of

Use to compose shot with subject centered in left half of frame. Camera will

Use to compose shot with subject centered in right half of frame. Camera

Use to compose shot with your subject's face positioned in top half of

Use to compose shot with two subjects positioned side-by-side. Camera will

frame: focus lock can be used to focus on off-center subjects.





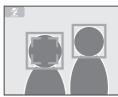
To use the Face-priority AF, follow the steps below.

7



Rotate the mode dial to $\mathbf{\mathcal{Z}}$. $\mathbf{\mathfrak{S}}$ blinks in the center of the monitor (default setting).

- 😇 indicates the size of a subject's face that the camera can recognize.
- If a different framing assist menu is selected, press (a) button and select (2).



When the subject's face becomes almost the same size as B, the camera recognizes it and is framed with $\fbox{}$ (yellow).

- When the camera recognizes more than one face, the closest and largest is framed with (I) (yellow) and the others with (yellow). The camera can recognize up to three faces.
- If the frame (□ or □) disappears because the subject moves, the camera goes back to the screen in step 1.



Face-priority AF

Press the shutter-release button halfway to lock the focus on the face framed with (yellow). When focus is locked, the color changes from yellow to green. Press the shutter-release button the rest of the way down to take the picture.

- The camera focuses continuously, until the camera recognizes a subject's face.
- When the camera does not recognize a face, the object at the center of the frame is focused.
- Optical zoom is available in the Face-priority AF, but digital zoom does not work.
- The face selected for focusing by the camera varies depending upon a number of conditions including the direction in which each person is facing.
- The camera is unable to recognize human faces in the following situations:
 - The subject is wearing sunglasses or part of face is obstructed in some other way.
 - The subject is facing sideways.
 - The face portion is too big because the subject is too close to the camera.
 - The face portion is too small because the subject is too far away from the camera.



Landscape Assist

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





LANDSCAPE

No guides are displayed in monitor. Use to focus on distant objects through foreground objects such as windows or a screen of branches. Focus is fixed at infinity.



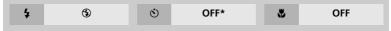
SCENIC VIEW

Use to compose landscapes with sky in top third of frame, distant objects in middle third, and closer objects in bottom third. Match top of skyline with wavy yellow guide.

= \	ARCHITECTURE
es Ext	🛞 Confirm 🕐 Help

ARCHITECTURE

Use to photograph buildings. A grid is displayed in the monitor to help keep verticals and horizontals aligned with the frame.





GROUP RIGHT

Use to compose portraits with portrait subjects to right and landmark or other object in background at left of frame. Focus/exposure is set for the portrait subject.

<u>ا ا ا</u>	GROUP LEFT
EN Ext	🛞 Confirm 🕐 Help

🗃 GROUP LEFT

Use to compose portraits with portrait subjects to left and landmark or other object in background at right of frame. Focus/exposure is set for the portrait subject.

		075+	 055
\$ 🗲 AUTO *	O	OFF*	 OFF



💐 Sports Assist

 $rac{1}{4}$ (sports assist) mode is used for dynamic action shots that capture moving objects. The assist menu lets you freeze the action in a single shot or record motion in a series of pictures.





💐 SPORTS

While shutter-release button is held down, pictures are recorded at rate of about four frames every three seconds (rate of shooting will slow when \mathbb{F} icon is displayed). Camera records 14 shots when image mode is set to **TM Normal (3072)**. Focus, exposure, and white balance are determined by first shot in each series. Camera focuses continuously, even when shutter-release button is not pressed.



Y SPORT SPECTATOR

Sport spectator is ideal for capturing those instants when you have no time to compose the picture. Use at ranges of 3 m to infinity.

A series of shots can be taken by holding the shutter-release button down. Number of shots that can be taken is the same as for ২ (Sports) mode.



BORT COMPOSITE

When the shutter-release button is pressed, the camera takes 16 shots in about two seconds and arranges them in four rows to form a single picture. The picture is 1600×1200 pixels in size and the compression ratio is approximately 1:8. Focus, exposure, and white balance are determined by first shot in each series.

5 ③ OFF 🔮 OFF		4	۲	٢	OFF	*	OFF
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Sports Assist

In **SPORTS** or **B** SPORT COMPOSITE mode, the focus is constantly reset until it is locked by pressing the shutter-release button halfway.



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 improve quality, slightly increasing processing time; to prevent blurring, mount the camera on a tripod or rest it on a flat, stable surface. For



more information on framing assist options, see 💈 Portrait Assist (🐮 30), but 🖳 Face-priority AF is not available.



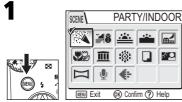
* Other modes can be selected.

📝 Flash Mode Selection in 🖾 Mode

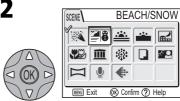
Flash mode is automatically set to \$ (auto with red-eye reduction).

SCENE (scene) mode offers a menu of twelve "scenes," each corresponding to a common situation, such as a backlit subject, sunset, or interior shot. Camera settings are automatically adjusted to suit the selected scene, sparing you the necessity of adjusting each setting separately. You can also record only the sound with voice recording mode (😽 42).

To take pictures in scene mode, rotate the mode dial to **SCENE** and follow the steps below.



Display scene menu.



Choose scene. Current selection shown by large icon and caption.

Make selection to return to shooting mode. Selected scene shown by icon at top left corner of monitor.

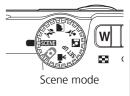
Image Mode

The Image Mode option is available in the scene mode menu.

35



More on Photography







The following scenes are available:

			-	ound, or to capture :kground lighting.
4 4 ⊚*	Š	OFF*	3	OFF
	beaches, or sunl	the brightness of	r. Flash mod	ects as snowfields, de automatically set
\$ \$ AUTO *	ف	OFF*	۳	OFF
	SUNSET Preserves the dee	p hues seen in sunse	ts and sunri	5es. **
4 ③*	ڻ	OFF*	*	OFF

* Other modes can be selected.

The 🙏 (Camera Shake) Icon

When the A icon appears in the monitor, pictures may be blurred. In this section, the precautions that you can take to avoid blur are indicated by stars:

hold camera in both hands and brace elbows against your body.

 \Rightarrow use a tripod or rest the camera on a flat, level surface.

More on Photography



DUSK/DAWN

Preserves the colors seen in the weak natural light before sunrise or after sunset. Focus is fixed at infinity.

☆

Pictures taken at slow shutter speeds are processed to improve quality, slightly increasing time before pictures are saved to memory or memory card.



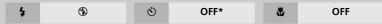


RIGHT LANDSCAPE

A slow shutter speed is used to produce stunning night land-scapes. Focus is fixed at infinity.

☆☆

Pictures taken at slow shutter speeds are processed to improve quality, slightly increasing time before pictures are saved to memory or memory card.





CLOSE UP

Use to capture vivid colors in close-up shots of flowers, insects, and other small objects, with the background artistically blurred. Flash mode automatically set to **\frac{1}{2}AUTO**; other modes can be selected.

Camera focuses continuously, even when shutter-release button is not pressed halfway. Minimum focus distance varies with zoom position. To focus on objects as close as 4 cm/1.6" to the lens, adjust zoom until the macro close-up icon () in monitor turns green.

ない ない ない ない ない ない	OFF*	*	ON
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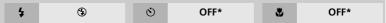
MUSEUM

Flash turns off (③) automatically. Use this mode indoors where flash photography is prohibited (for example, in museums and art galleries) or in other indoor settings in which you do not want to use the flash.

삷

OFF

- The Best Shot Selector (BSS; 88 85) turns on automatically, reducing the effects of inadvertent camera movement.
- Macro close-up turns off automatically; other modes can be selected.
- Photography may be prohibited altogether in some settings. Be sure to obtain permission first.





FIREWORKS SHOW

Slow shutter speeds are used to capture the expanding burst of light from a firework. The camera responds more rapidly to the shutter-release button, ensuring that you can capture the start of the burst. $\Rightarrow \Rightarrow$

- Focus is fixed at infinity.
- Follow the firework as it ascends and press the shutter-release button all the way down at the start of the burst.

OFF



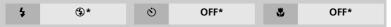
Provides clear pictures of text or drawings on a white board or in printed matter such as a business card.

Ψ

- Flash and macro close-up turn off automatically; other modes can be selected.
- Colored text and drawings may not show up well in the final picture.

(*)

• If flash does not fire, the Best Shot Selector (BSS; 85) turns on automatically, reducing the effects of inadvertent camera movement.





BACK LIGHT

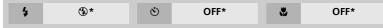
Use when light is coming from behind your subject, throwing their features into shadow, or when your subject is in the shade but the background is brightly lit. The flash will fire automatically to "fill in" (illuminate) shadows.

4	4	٢	OFF*	۳	OFF



PANORAMA ASSIST

Use to take a series of photographs that you will later join to form a single scene (for example, a panorama or 360° virtual-reality image).

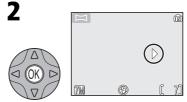


* Other modes can be selected.

To use panorama assist, follow the steps below.

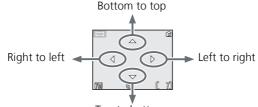


Highlight 🖂 (PANORAMA ASSIST).



Pan direction displayed in greenish yellow.

3



Top to bottom

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



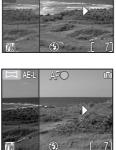


Make selection (to change selected pan direction, press center of multi selector and repeat steps 3–4). Pan direction displayed in white.

4

5





Compose the next shot to overlap with the previous picture.

Take first picture. About one third of picture is shown superimposed on view through lens (if pan direction is left to right, picture will appear on left side of monitor).





Take the next picture. Repeat steps 6 and 7 until all shots in series have been taken.



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



Panorama Assist

The pan direction, flash mode, macro close-up mode, and exposure compensation can not be changed after the first picture is taken. To change the pan direction, press in button to end shooting and repeat steps 1–3.



Using a Tripod

Using a tripod makes it easier to compose shots so that they overlap.

Storage Locations for Panoramas

Each series of pictures taken at Panorama assist is stored in a separate folder with a name consisting of "P" preceded by a three-digit folder number and followed by a three-digit sequence number (e.g., "101P 002").



Joining Panorama Pictures

Transfer the pictures taken with Panorama Assist to your computer (👿 52) and use the Panorama Maker function in PictureProject to join them into a single scene. For further information, see the PictureProject Reference Manual (on CD-ROM).

VOICE RECORDING

Voice recordings of about 29 minutes in the memory or up to five hours on the memory card (256 MB or more) can be recorded.

Making a Voice Recording





Highlight ${\bf \Psi}$ (VOICE RECORDING) in the scene menu.



The monitor will show a \P icon and the length of the voice recording (hr:min.:sec.) that can be made.



Press the shutter-release button to start recording.

While recording is in progress, the AF lamp will light and the following indicators will be displayed in the monitor:



To pause (\blacksquare) or resume recording, press B (the center of the multi selector). While recording is paused, the AF lamp and self-timer lamp will blink.



Press the shutter-release button again to end recording. Recording will end automatically when no more memory is available or after five hours.

Sound Files

Voice recordings are stored in folders with names consisting of a three-digit folder number followed by "SOUND" (e.g., "101SOUND"). File names consist of "DSCN" followed by a four-digit file number (assigned by adding one to the largest file number in the current folder) and the extension ".WAV" (e.g., "DSCN0001.WAV").

Ø

Copying Voice Recordings to a Computer

Voice recordings can not be copied to a computer using PictureProject. Set the **USB** option in the SET-UP menu **Interface** to **Mass Storage** (**1** 52) and copy the files directly from the camera. Once copied to a computer, voice recordings can be played back with a player that supports WAV format files (such as QuickTime). Indexes added during recording work only when playing back on the camera.

Making a Voice Recording

Sound can not be recorded when less than ten seconds of recording time remain in the memory or on the memory card, or the battery is exhausted. Before recording, record a test sample and play it back to determine whether conditions are suitable for audio recording. During recording, do not touch the built-in microphone. Use an EH-62B AC adapter for extended periods of use.

💽 Adding an Index

An index can be added by pressing the multi selector up, down, left or right during recording. The camera can locate the index during playback and begin playback from this point. The start is assigned an index of one; other indices are assigned in ascending order, to a maximum of 99. The current index number is shown in the monitor.

VOICE RECORDING
REC
001 2005.08.01 13:00
00:05:00/00:24:29
🖘 Index: 0 2

Monitor During Voice Recordings

If no operations are performed for five seconds, the monitor will turn off automatically to reduce the drain on the batteries.

The following operations are available when the monitor is turned off.

- Press multi selector up, down, left or right to add index.
- \bullet Press \circledast to pause voice recording.
- Press the shutter-release button to end voice recording.

Press the shutter-release button halfway, or any button on the camera to display the monitor for about five seconds.

See Scene Mode

Playing Voice Recordings

More on Photography

1



Highlight \P (VOICE RECORDING) in the scene menu.



The monitor will show a \P icon and the length of the voice recording (hr:min.:sec.) that can be made.







Select a voice recording.



Begin playback. While playback is in progress, the following indicators will be displayed in the monitor:



The controls of the voice recording playback are displayed at the top of the monitor; press the multi selector left or right to highlight a control, and press W to perform the selected operation.

То	Press	Description
Pause playback	11	Use multi selector to select II icon, then press center of multi selector to pause playback.
Resume play- back	►	When playback is paused, use multi selector to select \blacktriangleright icon, then press center of multi selector.
Rewind		Use multi selector to select <i>icon</i> , then press and hold center of multi selector.
Fast forward	**	Use multi selector to select → icon, then press and hold center of multi selector.
Index return		Use multi selector to select I ◀◀ icon, then press center of multi selector to return to start of current index.
Index skip	₩I	Use multi selector to select ▶ icon, then press center of multi selector to skip to next index.
Stop playback		Use multi selector to select \blacksquare icon, then press center of multi selector to return to voice recording list.

Playback Volume

The zoom buttons control volume during playback. Press \mathbf{E} (**W**) to decrease volume, \mathbf{Q} (**T**) to increase.

Ending Playback

To return to voice recording mode, press the 🕨 button while the voice recording list is displayed.

Deleting Voice Recordings

To delete a voice recording, press the \tilde{m} button while the recording is highlighted in the voice recording list or the playback screen is displayed. A confirmation dialog will be displayed; press the multi selector up or down to highlight an option, then press \mathfrak{W} .

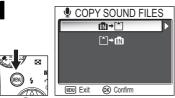
- Yes: delete recording and return to voice recording list
- No: exit to voice recording list without deleting recording

Copying Voice Recordings

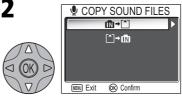
This option is used to transfer voice recordings from the camera's internal memory to the memory card, or vice versa.

This option is displayed only when the memory card is inserted.

When copying voice recordings, first perform steps 1 - 3 on page 44 and switch to voice recording playback mode.



Press in the voice recording playback mode to display copy screen.

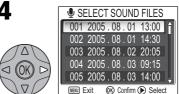


Highlight $n \rightarrow \uparrow$ (memory \rightarrow memory card) or $\uparrow \rightarrow \uparrow$ (memory card \rightarrow memory), press the multi selector to right.



Highlight Selected files.

• To copy all voice recordings, highlight **Copy all files** and press the multi selector to right. Then go to step 7 (**W** 47).



Voice recordings in the memory or on the memory card are displayed. (Based on when $\mathbf{m} \rightarrow \mathbf{\uparrow}$ is selected in step 2)



Highlight voice recording.





Select highlighted voice recording. Selected voice recordings are marked by ✓ icon. Repeat steps 5 and 6 to select additional voice recordings. To deselect voice recording, highlight and press multi selector left or right.



Confirmation dialog displayed. Select **Yes** to copy voice recordings or **No** to exit without copying voice recordings, and press N.

• When **Copy all files** is selected in step 3 (**3** 46), the message "All files will be copied. OK?" is displayed.



- Copying of voice recordings taken with another make of camera is not guaranteed by Nikon.

More on Playback

Viewing Pictures on the Camera

Viewing Multiple Pictures: Thumbnail Playback

Pressing the **(W)** button in full-screen playback displays the pictures in the memory or on the memory card in "contact sheets" of four thumbnail images. The following operations can be performed while thumbnails are displayed:



То	Press	Description
Highlight pictures		Press multi selector up, down, left or right to highlight pictures. Press \textcircled{B} (the center of the multi selector) to return to full-screen playback.
Change number of pictures displayed	₩)/q (T)	With four thumbnails displayed, press \blacksquare (W) button once to view nine thumbnails. Press \P (T) to "zoom in" from nine thumbnails to four-thumbnail view, or, when four thumbnails are displayed, to return to full-screen playback.
Cancel thumbnail playback		Cancel thumbnail playback and return to full-screen playback.
Delete highlighted picture	Ť	Confirmation dialog will be displayed. Press the multi selector up or down to highlight option, and press 🛞 to select.

Taking a Closer Look: Playback Zoom

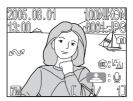
Use the Q (**T**) button to zoom in on still images displayed in full-screen playback. While the picture is zoomed in, you can save a cropped copy of the picture that contains only the portion of the image visible in the monitor. Playback zoom and cropping are not available when the current picture is a movie or a copy created using the small picture option (**X** 76, 69). Cropped copies can not be further cropped.



То	Press	Description	
Zoom in	9 (T)	Zoom increases each time button is pressed, to a maxi- mum 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		Use the multi selector to scroll to areas of picture not vis- ible in monitor. To use the multi selector to view other pictures, cancel zoom.	
Zoom out	W)	Zoom decreases each time 🔄 (W) button is pressed. To cancel zoom, zoom picture out until entire picture is displayed.	
Cancel zoom		Cancel zoom and return to full-screen playback.	
Crop picture	↓	Only portion of picture visible in monitor can be cropped.	
Delete picture	Ō	Confirmation dialog will be displayed. Press multi selector up or down to highlight option, press the center of the multi selector to select.	

Voice Memos: Recording and Playback

Using the camera's microphone, you can record a voice memo by pressing the shutter-release button while a picture with the 🛃 🖳 (voice memo recording guide) is displayed in full-screen playback (👿 22). Do not touch the microphone during recording. Voice memos cannot be recorded or played back for movies (👿 70) or during thumbnail playback (👿 48) or playback zoom (😿 49).



If a voice memo already exists for the current picture, [h] (voice memo icon) and \blacksquare : [h] (voice memo playback guide) are displayed and a new voice memo can not be recorded

То	Press	Description	
Record voice memo	► M	If \blacksquare :	
Play voice memo	₹ J	Pictures for which voice memo exists are marked by icon. Press shutter-release button to play voice memo. Playback ends when voice memo ends or shutter-release button is pressed again.	
Change volume	≅ (₩)/ ৭ (T)	Zoom buttons control volume during playback. Press \square (W) to lower volume, \P (T) to increase. Volume can also be adjusted using Sound settings > Volume option in the SET-UP menu (W 103).	
Delete picture or voice memo	Ē	Confirmation dialog will be displayed. Press multi selector up or down to highlight option, press (the center of the multi selector) to select. • Select No to exit without deleting picture or voice memo. • Select [♪] to delete voice memo only. • Select Yes to delete both picture and voice memo.	



Voice Memos

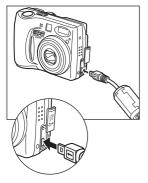
Voice memo file names consist of an identifier ("DSCN" for memos appended to original pictures, "SND_" for memos appended to copies), a four-digit file number copied from the associated picture, and the extension ".WAV" (e.g., "DSCN0015.WAV").

Viewing Pictures on TV

Using the EG-CP14 audio/video (AV) cable included with your camera, you can connect the camera to a television or video-cassette recorder (VCR).

Choosing a Video Mode

The Video mode item in the Interface option of the SET-UP menu offers a choice of NTSC and PAL standards (🕷 108). Be sure that the standard selected matches that used in the device.

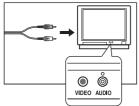


Turn the camera off

• Turn the camera off before connecting or disconnecting the AV cable.

Connect the AV cable to the camera

• Open the interface connector cover and insert the black plug into the camera's interface connector.



Connect the AV cable to the television or VCR

• Insert the yellow plug on the AV cable into the video-in jack on the television or VCR and the white plug into the audio-in jack.

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 display the image normally shown in the monitor. If the camera is connected to a VCR, images can be recorded to video tape.

Viewing Pictures on a Computer

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

Before Connecting the Camera

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

- Pressing the 🛞 (🖍) button on the camera (👹 92)
- 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 SET-UP menu of the camera. After consulting the following table, select the appropriate option using the **USB** item in the SET-UP menu of the camera. The default option is **Mass storage**.



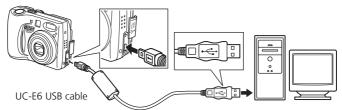
	Pictures transferred using:		
Operating system	Camera ୕ (≁∕⁄) button*	PictureProject Transfer button	
Windows XP Home Edition Windows XP Professional	Choose Mass storage or PTP.		
Windows 2000 Professional Windows Millennium Edition (Me) Windows 98 Second Edition (SE)	Choose Mass storage.		
Mac OS X 10.1.5 or later	Choose PTP .	Choose Mass storage or PTP .	

* The camera 0 (\checkmark) button can not be used to transfer pictures in the following cases. Use the **Transfer** button in PictureProject.

- When transferring pictures from the camera memory and **Mass storage** is selected for the **USB** option
- When the memory card write-protect switch is in the "lock" position. Unlock by sliding the switch to the "write" position before transferring pictures.

Connecting the USB Cable

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



You can now turn the camera on and transfer pictures as described in the Quick Start Guide.

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

Do NOT select **PTP** when connecting the camera to a computer running one of the above operating systems. If you have connected the camera to a computer running one of the above operating systems with **PTP** selected in the USB menu, disconnect the camera as described below. Be sure to select **Mass storage** before reconnecting the camera.

Windows 2000 Professional

A dialog will be displayed welcoming you to the Found New Hardware Wizard.

Click **Cancel** to close the dialog, and then disconnect the camera.

Windows Millennium Edition (Me)

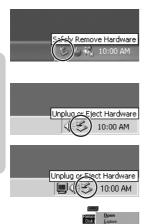
After displaying a message stating that the hardware information database is being updated, the computer will start the Add New Hardware Wizard. Click **Cancel** to exit the wizard, and then disconnect the camera.

Windows 98 Second Edition (SE)

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

Disconnecting the Camera

If **PTP** is selected in the USB menu, you can turn the camera off and disconnect the USB cable once transfer is complete. If you have not changed the **USB** option in the camera SET-UP 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.



Mac OS X

Mac OS X

Drag the "NO_NAME" camera volume into the Trash.

More on Playback

Pictures stored in the memory or on the memory card can be printed in the same way as pictures taken with a film camera. Using the **Print set** option in the PLAY-BACK MENU, you can specify the pictures to be printed, the number of prints, and the information to be included with each print.

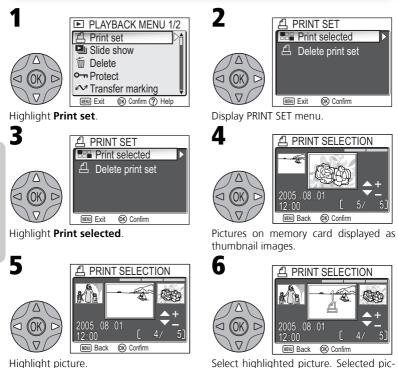
Printing pictures

Pictures can be printed as follows.

Printing method	Memory card	Internal camera memory	8
Digital photo lab	Bring the memory card containing pictures to a digital photo lab. If a print order* has been created, the photo lab must support DPOF to use the settings.	Copy pictures in the internal memory to a memory card, then print them by following the procedure described at left. Print order* must be created on the mem- ory card. Pictures in the internal memory can be printed directly from the camera depending on the photo lab.	56, 94
Printer with a memory card slot	Insert a memory card containing pictures into the memory card slot on the printer. If a print order* has been created, the printer must support DPOF to use the settings.		56, 94
Printer that sup- ports PictBridge	Connect the camera to a printer that supports PictBridge. Print order* data can be used.		56, 59
Transferring pic- tures to a PC and print them	See the PictureProject Reference Manual.		

* If a print order has not been created, each pictures in the memory or on the memory card is printed.

Printing Pictures



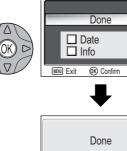
Select highlighted picture. Selected pictures marked by $\underline{\mathbb{A}}$ icon.

"Delete print set"

To cancel the current print order, highlight **Delete print set** in the PRINT SET menu and press the multi selector to the right. Print marking will be removed from all pictures in the current print order; the pictures themselves will not be deleted.

More on Playback





PRINT SELECTION

PRINT SET

Use the multi selector to specify number of prints (up to 9). To deselect picture. press the multi selector down until icon disappears. Repeat steps 5-7 to select additional pictures. To exit without altering print order, press 📾 button.

Complete print order and display menu of print options.

- To print date of recording on all pictures in print order, highlight **Date** and press **(**). Check will appear in box next to item.
- To print shutter speed and aperture on all pictures in print order, highlight Info and press 🕅.

Check will appear in box next to item.

- To deselect checked item, highlight and press 🕅.
- To exit without altering print order, press button
- To complete print order and return to playback, highlight **Done** and press **(B)**. **Done** is displayed and the screen returns to the PLAYBACK MENU. Press is button to return to full-screen playback.

Printing Pictures



Print Set

If you display the PRINT SET menu after creating a print order, the **Date** and **Info** options will be reset.



"Date"

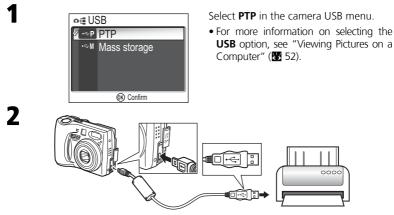
If **Date** is selected, the date of recording will appear on pictures printed using DPOF. The date is based on the photo information recorded with the picture, and will not be correct if the camera clock was set incorrectly when the picture was taken (**X** 14-15). The date will not be printed if the print system does not support the DPOF date function.

The date stamp recorded when **Date** or **Date and time** is selected for **Date imprint** (**1**01) forms a permanent part of the image and will appear whenever the pictures are printed, even if the printer does not support the DPOF date function. **Print set** can not be used to print the time and date of recording on pictures recorded when **Date** or **Date and time** is selected for **Date imprint**.



Printing Via Direct USB Connection

Your camera allows pictures to be printed directly from the camera using PictBridge. If the UC-E6 USB cable is used to connect the camera to a printer that supports PictBridge, pictures can be printed directly from the memory or memory card without having to be transferred to a computer.



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

You can now turn the camera and printer on.

Before Printing

Before printing via direct USB connection, make sure that the printer supports PictBridge or USB Direct and check printer settings. See the printer manual for details.



Use a Reliable Power Source

When printing pictures via direct USB connection, be sure the battery is fully charged. If in doubt, recharge the battery before printing or use the optional EH-62B AC adapter.



PictBridge

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



The opening screen and a recorded image are displayed in full-screen when the camera has recognized the printer.

- Press (W) button to display six thumbnail images. Press (T) button with six thumbnails displayed to return to full-screen playback.
- The picture displayed in full-screen can be printed (88 64).

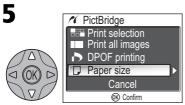


Display the PictBridge menu.

• Press is button again to go back to the screen on the right in step 3.

Option	Description	
Print selection	Select picture and specify number of prints.	
Print all images	All pictures in internal memory or on memory card are printed.	
DPOF printing	DPOF printing Pictures for which print order has been created are printe accordingly.	
Paper size	The size of paper for printing can be set.	

Printing Via Direct USB Connection



Highlight Paper size.



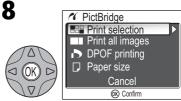
Select paper size.

- Select **Default** to print according to the paper settings of the printer.
- Following size options can be selected:
 3.5" × 5" (89mm × 127mm), 5" × 7" (127mm × 178mm), Postcard, 100mm × 150mm, 4" × 6" (102mm × 152mm), 8" × 10" (203mm × 254mm), Letter (216mm × 279mm), A3, and A4 (210mm × 297mm)

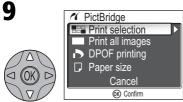
Selectable size options may vary depending on the printer.



Display PAPER SIZE menu.



Display the PictBridge menu.



Highlight Print selection.*

* To print one copy of all pictures in the memory or on memory card, highlight Print all images and press multi selector to right.

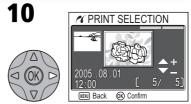


Scroll through pictures. Current picture shown at bottom of display.

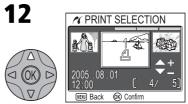
13

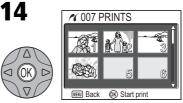


Use the multi selector to specify number of prints (up to 9). To deselect picture, press the multi selector down when number of prints is 1. Repeat steps 11– 13 to select additional pictures.



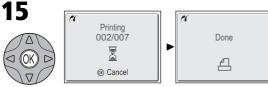
Display PRINT SELECTION dialog.





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

Printing Via Direct USB Connection

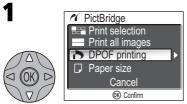


Start printing.

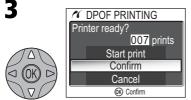
• To interrupt printing, press 🛞 (Cancel).

Message shown above at right is displayed when printing is complete. Turn camera off and disconnect USB cable. If no operations are performed for a while, the screen returns to the PRINT SELECTION dialog or the PictBridge screen (when **Print all images** was selected).

To print the current print order:



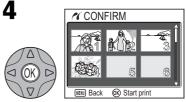
Highlight **DPOF printing** after selecting the paper size.



Highlight **Confirm**. To exit without printing pictures, highlight **Cancel** and press \bigotimes .



Display options.



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







Start printing.

• To interrupt printing, press 🛞 (Cancel).

Message shown above at right is displayed when printing is complete. Turn camera off and disconnect USB cable. If no operations are performed for a while, the screen returns to the PictBridge screen.

DPOF Printing

The DPOF printing option is only available if a print order has been created.

Error Messages

If an error message is displayed, an error has occurred. After checking the printer and resolving any problems as directed in the printer manual, highlight **Resume** and press 🛞 to resume printing. Select **Cancel** to exit without printing the remaining images.



Printing Displayed Picture

Connect the camera to the printer. Press ® with the picture displayed to display the Print menu. To print a single picture according to the printer paper size settings, press multi selector up or down to select **Start print** and press ®.

To change the number of prints or paper size, press multi selector up or down and select **Copies** or **Paper size**.



Picture Editing

Available Picture Editing

The COOLPIX 7600 can edit a picture using the following editing functions and store it as a separate file.

Edited copies are identified by identifiers corresponding to the editing function and file numbers assigned automatically by the camera (👿 23).

Editing function	Description	Purpose	ldenti- fier
Crop	Crops part of a picture.	To enlarge a subject or retouch the composition.	RSCN
D-Lighting	Adjusts the picture tone automatically.	To brighten a picture which is dark due to backlight or insufficient flash light volume.	FSCN
Small Picture	Creates a small copy of the picture.	To display pictures on web pages, or send as e-mail attachment.	SSCN

Restrictions for editing pictures

Editing copies that have already been edited have restrictions as follows.

1st editing	2nd editing			
istearing	Crop	D-Lighting	Small Picture	
Crop	Not available*1	Not available *2	Not available	
D-Lighting	Available	Not available * ²	Available	
Small Picture	Not available	Not available *2	Not available	

*1 Attempting the second editing displays the message "IMAGE CANNOT BE SAVED" (117).

*2 Attempting the second editing displays the message "Image has already been modified. D-Lighting cannot be used." (W 117).



Picture Editing

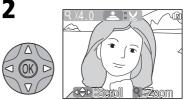
- The COOLPIX 7600 editing functions may not be available for pictures taken with non-COOLPIX 7600 digital cameras.
- If a copy created using the COOLPIX 7600 is viewed on a different digital camera, the picture may not be displayed or may not be transferred to a computer.
- Copies created with editing functions are not deleted if the original pictures are deleted. The original pictures are not deleted if copies created with editing functions are deleted.
- Editing functions are not available when there is not enough free space in the memory or on the memory card.
- Edited copies are stored with the same recording date and time as the original.

Cropping Pictures: Crop

This option lets you crop part of a picture and save it as a separate file.



Zoom picture in and out.



Scroll picture. Repeat steps 1 and 2 until desired portion of image is displayed in monitor.

To view the new, cropped copy, press the multi selector down until the copy is displayed.



Confirmation dialog displayed. Select **Yes** to create cropped copy or **No** to exit without creating copy, and press B (the center of the multi selector).

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, 2,288 × 1,712, 2,048 × 1,536, 1,600 × 1,200, 1,280 × 960, 1,024 × 768, 640 × 480, 320 × 240, or 160 × 120 pixels in size. Cropped pictures are stored as JPEG files (compression ratio 1 : 8).

Adjusting a picture tone: D-Lighting

The tone adjusted picture is created automatically as a separate picture. This function is called D-Lighting. Using D-Lighting, backlit or insufficient flash light volumes can be adjusted brightly.

D-Lighting Samples



After





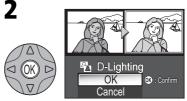


Adjusting a picture tone: D-Lighting



Display the picture to adjust the tone in full-screen playback.

• 🛞: 🔁 (D-Lighting guide) is displayed for pictures that can be adjusted automatically.



The original picture is displayed at the top left and the tone adjusted picture is displayed at the top right.



Highlight **OK**.

• To exit without creating the adjusted picture, highlight **Cancel** and press **(**).



Save the automatically adjusted picture.

• 🖪 (D-Lighting icon) is displayed when images created with D-Lighting are played back.



D-Lighting

- The Auto transfer option set to the original pictures is applied to copies created with D-Lighting.
- The Print set option and Protect set to the original pictures are not applied to copies created with D-Lighting.

Resizing a picture: Small picture

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

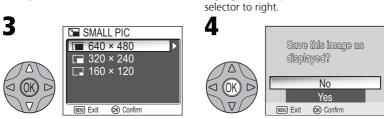
Option	Size (pixels)	Description
640 × 480 (default option)	640 × 480	Copy can be displayed full-screen on television or 13" monitor with no drop in quality.
	320 × 240 Suited to display on web pages. Small file size reduces time needed to display picture in web browser.	
□ 160 × 120	160 × 120	Copy can be sent and received quickly as e-mail attach- ment. Where application supports display of JPEG images, picture can be viewed in message window.

2

(0k)



Display the PLAYBACK MENU.



Highlight option.

Confirmation dialog displayed. Select **Yes** to create resized copy or **No** to exit without creating copy, and press M.

PLAYBACK MENU 2/2

(K) Confirm (?) Help

Small pic.

Copy

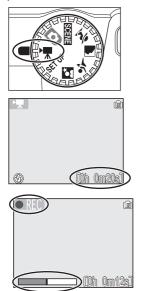
(MENU) Exit

Highlight Small pic. and press the multi

To view the new, resized copy, press the multi selector down until the copy is displayed. The copy will be displayed after the last picture recorded (in thumbnail playback, small pictures are indicated by a gray border). To reduce file size, copies are stored in the memory or on the memory card as BASIC-quality JPEG files (compression ratio 1 : 16).

P Recording Movies

Movies can be recorded with sound recorded via the camera's built-in microphone.



Rotate the mode dial to 🐂

Turn the camera on

The monitor shows the length of the movie that can be recorded.

Start recording

Press the shutter-release button all the way down to start recording. During recording, the **\bulletREC** icon blinks and progress is shown by the indicator at the bottom of the monitor.

• Recording will end automatically when no more memory is available in the memory or on the memory card.

Notes on Movies A

Depending on the make of memory card used, recording may end before the memory card is full (18 117). During recording, do not touch the built-in microphone. To prevent the sound of the camera focusing from interfering with recording, select a focus mode of Single AF.

Flash Mode Selection in 🐂 Mode

The flash turns off (③) automatically when movie mode is selected.



Digital Zoom

Digital zoom can not be used while recording is in progress.



Macro Close-up Mode in 🐂 Mode

Macro close-up turns off automatically when focus mode is set to **Continuous AF**. If using Macro close-up, set focus mode to Single AF.



Movies

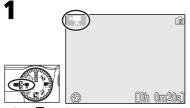
Movies are recorded as QuickTime movie files with the extension ".MOV" and can be played back on a computer after transfer.

		Lenc	th of mov	vie ^{*1}
Туре	Description	Memory		
		14 MB	128 MB	256 MB
TV movie 640∗ फ्रिन्∨	Movies are recorded at 30 frames per second. Each frame is 640 × 480 pixels in size. Less flicker, smoother motion than TV movie 640 .	Approx. 12 s	Approx. 1 m 50 s	Approx. 3 m 40 s ^{*2}
TV movie 640 रिफ्र™	Movies are recorded at 15 frames per second. Each frame is 640 × 480 pixels in size.	Approx. 24 s	Approx. 3 m 40 s	Approx. 7 m 20 s
Small size 320∗	Movies are recorded at 30 frames per second. Each frame is 320 × 240 pixels in size. Less flicker, smoother motion than Small size 320 .	Approx. 24 s	Approx. 3 m 40 s	Approx. 7 m 20 s
Small size 320	Movies are recorded at 15 frames per second. Each frame is 320 × 240 pixels in size.	Approx. 49 s	Approx. 7 m 10 s	Approx. 14 m 40 s
Smaller size 160	Movies are recorded at 15 frames per second. Each frame is 160 × 120 pixels in size. Small size allows longer movies to be recorded.	Approx. 2 m 42 s	Approx. 24 m	Approx. 48 m 20 s

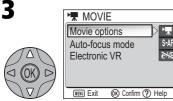
The type of movie recorded can be selected from the following options:

*1 Total recording time shown is approximate. Time may vary depending on type of memory card used. *2 To prevent **TV movie 640*** from ending unexpectedly, use card rated for 10 MB/s.

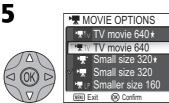
To select a movie mode:



Select 🐂 Mode.

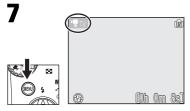


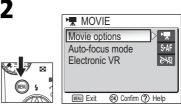
Highlight Movie options.



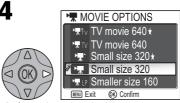
Highlight mode.*

* To exit without changing mode, press 🐵 button.

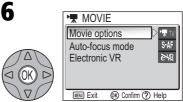




Display MOVIE menu.



Display MOVIE OPTIONS menu.



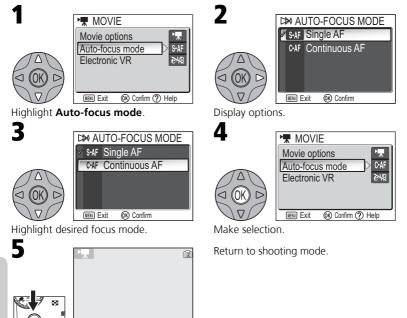
Make selection to return to the MOVIE menu.

Return to shooting mode. Selected movie mode shown in monitor.

The MOVIE menu includes the following focus options:

Focus mode	Description
Single AF S-AF (default option)	Camera focuses when shutter-release button is pressed halfway. Focus locks when focus operation is complete.
Continuous AF C·AF	Camera adjusts focus when necessary.

To choose a focus option from the MOVIE menu:



[[0h 0m20s]

Movies

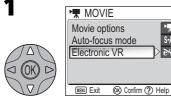
The MOVIE menu also includes the following vibration reduction options:

Option	Description	
<i>e</i> ⋅VR On	Reduces effects of camera shake.	
≧₩ Off (default option)	Vibration reduction off.	

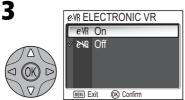
To choose a vibration reduction option from the MOVIE menu:

S-AF

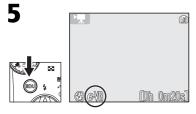
è-XB

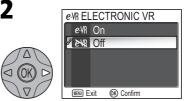


Highlight Electronic VR.

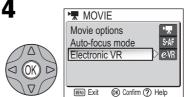


Highlight option.





Display options.



Make selection.

Return to shooting mode.

• When electronic VR is on, an *e*-VR icon appears in the monitor.

Viewing Movies

In full-screen playback mode (2 22), movies can be played with sound. Movies are indicated by a 2 icon and can be viewed by pressing 2 (the center of the multi selector). Playback controls are displayed at the top of the monitor; press the multi selector to left or right to highlight a control, then press 2 to perform the selected operation.



То	Press	Description	
Rewind		While movie is in progress, use multi selector to select	
Fast forward	••	Use multi selector to select \blacktriangleright icon, then press and hold center of multi selector. Playback ends at the last frame; once playback has ended, the first frame of movie will be displayed.	
Pause playback	II	Use multi selector to select II icon, then press center of multi selector to pause display.	
Rewind movie one frame	▲	When movie is paused, use multi selector to select 4II icon, then press center of multi selector.	
Advance movie one frame	▶	When movie is paused, use multi selector to select II icon, then press center of multi selector.	
Resume play- back	►	When movie is paused, use multi selector to select icon, then press center of multi selector.	
Stop playback		Use multi selector to select ■ icon, then press center of multi selector to return to full-screen playback.	

Ø,

Playback Volume

The zoom buttons control volume during playback. Press \mathbf{E} (**W**) to decrease volume, \mathbf{Q} (**T**) to increase.

Movies

Deleting Movies

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

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

Using the Shooting Menu

In (auto) mode, the following settings can be adjusted from the SHOOTING MENU:

Option	Description		
Image mode	Choose image size and quality.		
White balance	Match white balance to your light source.		
Exp. +/-	Adjust exposure for very bright, very dark, or high- contrast subjects.	83	
Continuous	Take pictures one at a time or in a sequence.		
BSS	Turn the Best Shot Selector (BSS) on or off.		
Color Options	Choose a standard color, vivid color, black-and-white, sepia, or cyanotype effect for your pictures.	86	

In \fbox (auto) mode, the SHOOTING MENU is displayed when \circledast button is pressed.

To display the SHOOTING MENU:



Display the SHOOTING MENU.

• Using the **Menus** option of the SET-UP menu switches the menu display between **Text** and **Icons** (**W** 112).

Using the Shooting Menu

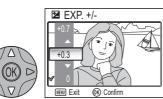
To make a selection from the SHOOTING MENU:

3

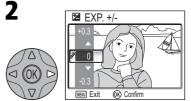
1



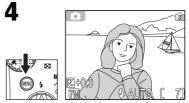
Highlight menu item.



Highlight option and press B. To return to previous step, press the multi selector to left.



Display options.



To exit menu and return to shooting mode, press $\textcircled{\mbox{\scriptsize es}}$ button.

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 in the memory or on the memory card, depends on the size and quality of the images. Before shooting, choose image guality and size according to how you plan to use the picture.

Option	Size (pixels)	Quality*	Description	(cm)
₩* (3072*)	3,072 ×	1:4	High quality, suitable for enlarge- ments or high-quality prints.	26 × 19.5
(default option)	2,304	1:8	Best choice in most situations.	(10.2" × 7.7")
团 (2592)	2,592 × 1,944	1:8	Better choice in most situations.	22 × 16.5 (8.6" × 6.5")
EM (2048)	2,048 × 1,536	1:8	Smaller size allows more pictures to be stored on memory card.	17 × 13 (7" × 5")
PC screen (1024)	1,024 × 768	1:8	Suited to display on computer moni- tors 17" or larger.	9 × 7 (3.5″ × 2.5″)
TV screen (640)	640 × 480	1:8 television or 13" monitor. Suited to (2		5 × 4 (2" × 1.5")

* To reduce the amount of memory each shot occupies, pictures are compressed as they are saved to the memory or memory card. 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 appropriate compression ratio for each setting.

† All figures are approximate. Dimensions in "Description" column assume a printer resolution of approximately 200 dpi, dimensions in "Print size" column a resolution of approximately 300 dpi.

If in doubt, choose **M Normal (3072)**. Pictures can be reduced or cropped when played back in the monitor after shooting (\bigotimes 66, 69).



Drint city

ۥIN	IAGE MODE 1/2
	High(3072 *)
🖉 7M	Normal(3072)
5M	Normal(2592)
	Normal(2048)
PC	PC screen(1024)

MENU > (Image mode

Image Mode

The following table shows the approximate number of pictures that can be stored in the memory or on 128- and 256-megabyte memory cards at different image mode settings.

Image mode	Memory	Memory card	
mage mode	14 MB	128 MB	256 MB
High (3072∗)	Approx. 4	Approx. 35	Approx. 70
Normal (3072)	Approx. 7	Approx. 70	Approx. 140
Normal (2592)	Approx. 10	Approx. 95	Approx. 195
Normal (2048)	Approx. 17	Approx. 155	Approx. 305
PC screen (1024)	Approx. 57	Approx. 510	Approx. 1,025
TV screen (640)	Approx. 123	Approx. 1,095	Approx. 2,200

All figures are approximate. File size of pictures depends on scene recorded, producing wide variations in number of images that can be stored.

Image Mode and Number of Exposures Remaining \square

The figure shown in the monitor for the number of exposures remaining is only an approximation. The file size of compressed images varies with the scene recorded, producing wide variations in the number of pictures that can be stored.



Image Size

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



Print Size

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



Image Mode

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



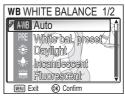
Ontion

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

- If you cannot achieve the desired white balance with Auto (AWB) or you want to lock the white balance for a specific light source or shooting conditions, choose a setting other than Auto (AWB).
- When the white balance setting is changed, the new setting is reflected in the picture in the monitor.

Description

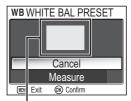
option	Description		
Auto White balance automatically adjusted to suit lighting co (default option) tions. Best choice in most situations.			
PRE White bal. preset	Gray object used as reference to set white balance under unusual lighting conditions.		
💥 Daylight	White balance adjusted for direct sunlight.		
्रीहरू Incandescent	Use under incandescent lighting.		
Fluorescent	Use under most types of fluorescent lighting.		
്ര Cloudy	Use when taking pictures under overcast skies.		
다. Speedlight	Use with the flash.		



MENU > WB White balance

Preset White Balance

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



White balance measuring window

770

S AUTO C

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

White Balance

At settings other than Auto, white balance is shown by an icon in the mon-	i	ſ
itor.	0	

Exp. +/-

The EXP. +/- (exposure compensation) menu is used to alter exposure from the value suggested by the camera, making pictures brighter or darker. Exposure can be adjusted in the range -2.0 to +2.0 EV.

• When the exposure compensation is altered, the new setting is reflected in the picture in the monitor.



Exp. +/-

Choosing an Exposure Compensation Value

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

Exposure Compensation

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



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.



Continuous

Option	Description	
S Single (default option)	Camera takes one picture each time shutter-release button is pressed.	
Comera takes pictures continuously while shutter-releases held down. Pictures are recorded at a rate of about the every three seconds. Camera records 14 pictures with mode is set to I Normal (3072).		
囲 Multi-shot 16	When shutter-release button is pressed all the way, camera takes sixteen consecutive images at a rate of about three frames every two seconds. The sixteen images are arranged in four rows of four images and saved as a single picture. Image mode is fixed at M Normal (3072).	

Restrictions on Camera Settings A

At settings other than Single, the flash (22) turns off automatically and focus (20), exposure (18 83), and auto white balance (18 81) for all photos are determined by the first picture in each series. When Multi-shot 16 is selected, digital zoom (🔠 18) can not be used. Multi-shot 16 can not be selected when digital zoom is in effect. BSS (88 85) is available only at a setting of Single.

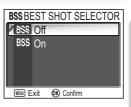


Continuous

At settings other than Single, the current Continuous setting is indicated by an icon in the monitor.



When the "Best Shot Selector" (BSS) is on, the camera takes pictures as long as the shutter-release button is held down, to a maximum of ten. These images are then compared and the sharpest picture (the picture with highest level of detail) is saved to the memory or memory card. BSS is recommended for situations in which inadvertent camera movement can produce blurred pictures, for example when:



MENU BSS BSS

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

Option	Description
(default option)	BSS off; camera functions normally.
BSS On	BSS on. Flash turns off automatically and focus, exposure, and auto white balance for all photos are determined by the first picture in each series.



Notes on BSS

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



"Continuous" and BSS

CONTINUOUS is automatically set to **Single** when BSS is on. Choosing another option for CON-TINUOUS cancels BSS.



The Self-Timer

BSS will not take effect when the self-timer is on, even if **On** is selected in the BEST SHOT SELEC-TOR menu.



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



Color Options

Use the options in this menu to add special effects to your pictures. There are five special effects to choose from

• The effect you choose is reflected in the picture displayed in the monitor.

Option 🕱 Standard co (default option ⊘ Vivid color ∰ Black-and-white Picture appears in black and white. ⊘s Sepia Picture appears in sepia tones. Picture appears with blue cast. උ Cyanotype

White Balance A

When Black-and-white, Sepia or Cyanotype is selected, the White balance option is not available in the SHOOTING MENU

Color Options Indicator

When an option other than Standard color is chosen, the selected mode indicator is displayed in the monitor.

	Coc Cyanotypa En Exit @ Confirm
	Description
olor on)	Picture appears with natural colors.
	Picture appears in sharp colors.

Ø COLOR OPTIONS Standard color Vivid color/\ Black-and-white





Using the Playback Menu

The PLAYBACK MENU contains the following options:

Option	Description	
Print set	Print setSelect pictures for printing on a DPOF-compatible device; specify number of copies and information to be included on prints.	
Slide show	Slide show View pictures in the memory or on the memory card in an automatic slide show.	
Delete	Delete Delete all or selected pictures.	
Protect	Protect Protect selected pictures from accidental deletion.	
Transfer marking	maint an of selected pictures for transfer to a computer, tam	
Small pic.	Small pic. Create small copies of pictures.	
Copy Transfer pictures from internal memory to memory card or vice versa. (This option is displayed only when the memory card is inserted.)		94-95

To display the PLAYBACK MENU:



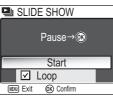


Display the PLAYBACK MENU.

• Using the **Menus** option of the SET-UP menu switches the menu display between **Text** and **Icons** (**W** 112).

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







Highlight Start.

The following operations can be performed during the show:

То	Press	Description	
Pause slide show		Menu shown right will be displayed. Highlight Restart and press (b) (the center of the multi selector) to resume show. Highlight End and press (b) to end show.	
Skip to next frame		Press the multi selector to right or down to skip to next slide. Hold the multi selector down to fast forward through show.	
Return to previous frame		Press the multi selector to left or up to return to previous slide. Hold the multi selector down to rewind through show.	
End slide show	MENU	End slide show and return to playback.	

🔍 "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 **(**). A check mark next to **Loop** indicates that the **Loop** option is selected.



🖉 Auto Off

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

Small Pictures and Movies

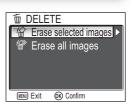
Copies created with the small picture option (🕑 69) are not displayed during slide shows. Movies are displayed as still images showing the movie's first frame.

The DELETE menu contains the following options:

If no memory card is inserted in the camera, pictures in the internal memory will be deleted.

If the camera contains a memory card, pictures on the card will be deleted.

To delete pictures in the internal memory, remove the memory card.



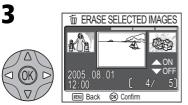
而 ERASE SELECTED IMAGES

(MENU)) To Delete

Deleting Selected Pictures



Highlight Erase selected images.



Highlight picture.

Pictures in the memory or on the memory card displayed as thumbnail images.

MENU Back (K) Confirm

12.00



Select highlighted picture. Selected pictures marked by $\widehat{\blacksquare}$ icon.

5

Repeat steps 3 and 4 to select additional pictures. To deselect picture, highlight and press the multi selector down. To exit without deleting pictures, press 📾 button.

7



Confirmation dialog displayed. Select **Yes** to delete pictures or **No** to exit without deleting pictures, and press M.

Deleting All Pictures

To delete all unprotected pictures in the memory or on the memory card:



Highlight Erase all images.



Confirmation dialog displayed. Select **Yes** to delete pictures or **No** to exit without deleting pictures, and press \mathfrak{W} .

Before Deletion

Once deleted, pictures can not be recovered. Be sure that any pictures you would like to keep have been transferred to a computer (**W** 52-54).



Protected Pictures

Pictures marked with a O-n icon are protected and can not be deleted (8991).

Protect

This option is used to protect pictures from accidental deletion. Protected files can not be deleted by pressing the \underline{m} button or using the options in the DELETE menu. Note, however, that protected pictures will be deleted when the memory or memory card is formatted.

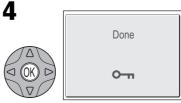


Highlight picture.

3 Repeat steps 1 and 2 to select additional pictures. To deselect picture, highlight and press multi selector down. To exit without changing protected status of pictures, press e button.



Select highlighted picture. Selected pictures marked by **O-n** icon.



Complete operation and return to the PLAYBACK MENU.

Notes on Protecting Pictures

Protected pictures cannot be deleted using the Delete button or menu. However, all pictures, including protected files, will be deleted when the memory or memory card is formatted.



The Protect Icon

During playback, a O-n icon appears on all protected pictures.



This option is used to mark stored pictures for transfer to a computer.



(MENU) Menu Transfer marking

Option	Description
🖍 All on	All pictures in the memory or on the memory card are marked for transfer.
All off Remove transfer marking from all pictures in the m or on the memory card.	
Select image(s)	Mark selected pictures for transfer.

// Transferring More than 999 Pictures

No more than 999 pictures can be marked for transfer. If more than 999 pictures are marked, use PictureProject to transfer the pictures. See the *PictureProject Reference Manual* (on CD) for details.

Hidden Pictures

Some Nikon digital cameras allow you to hide pictures during playback. Hidden pictures can be viewed on the COOLPIX 7600 but can not be selected for transfer.

🐧 The 🛷 Icon

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



Full-screen playback



Thumbnail playback

When you connect the camera to a computer via the UC-E6 USB cable and press W (the center of the multi selector) to transfer pictures, only pictures marked with a \swarrow icon will be transferred (W 52).

As the default setting of the Auto Transfer option is On (\boxtimes 109), all pictures taken are set to be transferred and the \swarrow icon is added when displayed.

Marking Selected Pictures for Transfer



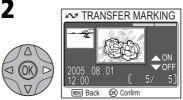
Highlight Select image(s).



Highlight picture.

Ŵ

5 Repeat steps 3 and 4 to select additional pictures. To deselect picture, highlight and press the multi selector down. To exit without changing transfer status of pictures, press ⊛ button.



Pictures in the memory or on the memory card displayed as thumbnail images.



The Playback Menu

Select highlighted picture. Selected pictures marked by \checkmark icon.



Complete operation.

Marking Pictures for Transfer with Other Cameras

Pictures selected for transfer with another model of Nikon camera can not be transferred when the memory card is inserted in the COOLPIX 7600. Use the COOLPIX 7600 to reselect the pictures.

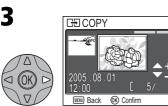
Сору

This option is used to transfer pictures from the camera's internal memory to the memory card, or vice versa.

This option is displayed only when the memory card is inserted.



Highlight $(m \rightarrow f^{-})$ (memory \rightarrow memory card) or $[-]\rightarrow m$ (memory card \rightarrow memory), press the multi selector to right.



Pictures in the memory or on the memory card are displayed. (Based on when $n \rightarrow 1$ is selected in step 1)



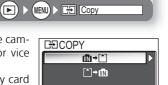
(MENU) Exit

Highlight Selected images.

• To copy all pictures, highlight **All images** and press the multi selector to right. Then go to step 6 (**W** 95).

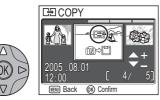


Highlight picture.



(K) Confirm

5



Select highlighted picture. Selected pictures marked by 🕞 icon. Repeat steps 4 and 5 to select additional pictures. To deselect picture, highlight and press the multi selector down.



Confirmation dialog displayed. Select Yes to copy pictures or No to exit without copying pictures, and press \mathfrak{W} .

• When **All images** is selected in step 2 (94), the message "All images will be copied. OK?" is displayed.

Copy

• If there is not enough space in the memory or on the memory card to receive the copy, the message "IMAGE CANNOT BE SAVED" will be displayed (8 117). Delete unwanted pictures or voice recordings, or insert a new memory card (if using a memory card) before trving again.

6

 Copying of pictures taken with another make of camera or retouched on a computer is not guaranteed by Nikon.



File Number

- When pictures are copied using the All images option, all the pictures in the folder are copied with the same file numbers. The newly copied folder is assigned the lowest available number
- When pictures are copied using the Selected images option, the newly copied pictures are numbered consecutively from the largest number existing between the two memory sources.
- Ex: when the last number in the source memory is 32 (DSCN0032.JPG) and the last number in the destination memory is 15 (DSCN0015.JPG)

The copied pictures are assigned numbers starting from DSCN0033.

After that, numbering will continue from the lowest number after the number of the last file that was copied.



Print Set

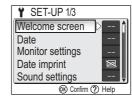
If a print order has been created, the print order data will not be copied with the picture.

Using the Set-up Menu

The SET-UP menu contains the following options:

Option	Description	8
Welcome screen	Choose the welcome screen displayed when the camera is turned on.	
Date	Set the camera clock.	
Monitor settings	Hide or display the monitor indicators and set the monitor brightness.	100
Date imprint	Imprint pictures with the date and/or time of recording.	101
Sound settings	ound settings Adjust volume of button, shutter and start-up sounds.	
Blur warning	choose whether or not to perform a camera shake check.	
Auto off	Auto off Choose how long the monitor will remain on before turning off automatically to save power.	
Format memory/ card	mory/ Format internal memory or memory cards for use in the camera.	
Language	Language Choose a language for camera menus and messages.	
Interface Set USB mode or the video mode.		52, 108
Auto transfer Choose whether or not to set Transfer marl option to the picture taken.		109
Reset all	Restore camera settings to default values.	109
Battery type	Choose the type of batteries inserted in the camera.	111
Menus	Choose a type of the camera menu.	112
Firmware version Display the current firmware version.		112





• Using **Menus** option of the SET-UP menu switches the menu display between **Text** and **Icons** (**W** 112).

To clear the SET-UP menu from the monitor, rotate the mode dial to another setting or press the \blacktriangleright button.

Welcome Screen

Option

Disable welcome

This option is used to choose the welcome screen displayed when the camera is turned on.

Nikon	Image shown at right is displayed when camera is turned on.	Nikon COOLPIX
Animation (default option)	Short animation is displayed when camera is turned on.	COOLPIX
Select an image	 You can choose the welcome screen from pictures currently stored in the memory or on the memory card. 1 The SELECT IMAGE screen is displayed. Highlight a picture using the multi selector. 2 Press (1) (the center of the multi selector). To select a picture stored in the camera memory, remove the memory card. 	2005.08.01 (3/ 5) 12.00 (3/ 5)

Small Pictures and Cropped Copies

Resized copies created with the small picture and cropping options can only be selected for the welcome screen if they are (\square) 640 × 480 pixels or larger.

"Select an Image" ©,

When **Select an image** is selected, the chosen picture will appear at startup even when the memory card containing the image is removed from the camera. If you select Select an image after choosing a custom welcome screen, the confirmation dialog shown at right will be displayed. Select Yes to choose a new picture for the welcome screen, No to exit leaving the welcome screen unchanged.





Welcome screen

SET UP

Description

No welcome screen is displayed when camera is turned on.

This option is used to set the camera clock.

This option is available after you have set the camera clock when using your camera for the first time. For more information on setting the camera clock, see "First Steps: Basic Setup" (**W** 14).

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.

Option	Description	
Date	Set the date and time (🔀 14).	
	Select the time zone. The normal time zone setting is	O TIME ZONE 2005 08: 01. 13:00
Time zone	 light a or → , then press (the center of the multi selector). Press the multi selector down to highlight DaylightSaving and press E. The icon is displayed. Selecting daylight saving time automatically advances the time one hour. To cancel daylight saving time, press again. Press the multi selector right to display the time zone screen. Press the multi selector left or right to highlight a time zone (region), then press . 	The London Casablanca



Date

→ (Travel Destination Time Zone)

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



DaylightSaving (Daylight Saving Time)

To turn daylight saving time on or off, highlight **DaylightSaving** and press **(B)**. Selecting daylight saving time automatically advances the time one hour.

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

The camera supports the following time zones:

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

🖉 Time Zones

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

Time zone increments of less than one hour are not supported. When travelling to or from destinations at half- or quarter-hour increments from Greenwich Mean Time (GMT), such as Afghanistan, Central Australia, India, Iran, Nepal, or Newfoundland, set the camera clock to local time (**W** 14).

SET UP 🕨 🗖

Monitor settings

This option is used to set the monitor display.

Monitor Settings



Photo Info

Select this option to hide or display the monitor indicators, or turn the monitor off.



Option	Description
Show info (default option)	Display current settings in monitor when taking or viewing pictures.
Hide info	Current settings are hidden.
Monitor off Turn the monitor off (Monitor off).	

Brightness

Press the multi selector up or down to increase or decrease the brightness of the monitor by moving the indicator on the left of the display up or down. Press 🕲 (the center of the multi selector) to make a selection. To return to the SET-UP menu, press the multi selector to the left.



The Set-up Menu

Date Imprint

Option

(default option)

Date and time

Date counter

Date

😿 Off

DATE

DATE

123

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

Image Mode

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

Time and date do not appear on pictures.

tures taken while this option is in effect.

while this option is in effect.

Date is imprinted at bottom right corner of all pictures taken

Date and time are imprinted at bottom right corner of all pic-

Number of days from stored date until date of recording is imprinted at bottom right corner of all pictures taken while this

Date Imprint

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

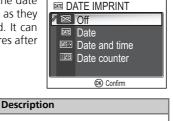
option is in effect.

The date is recorded in the order selected in the DATE menu. You will not be able to select **Date imprint** if the camera clock has not been set.

When shooting with the following, **Date Imprint** is automatically canceled. BSS, Continuous in the Continuous menu, 💐 SPORTS and 💐 SPORT SPECTATOR in assist modes, **MUSEUM**, **COPY** (if flash does not fire) and **COPA** PANORAMA ASSIST in scene modes, and 🐙 (Movie)

Print Set Ø,

The Print set option can be used to print the date and time of recording on images taken with Off selected in the DATE IMPRINT menu.









Date imprint SET UP

Date counter

This option is used to store the date and imprint the number of days from that date until the date of recording on pictures. To imprint the number of days that have elapsed, set the day count option by selecting **Date counter** in the DATE IMPRINT menu.

If the stored date is earlier than the date of recording, the number of days that have elapsed is imprinted on pictures.



If the stored date is later than the date of recording, \blacktriangle followed by the number of days until the date of storage is imprinted on pictures.

1	Option	Description	
	Characteristics	Up to 3 dates can be stored. Press the multi selector up or down to highlight option in STORED DATES menu, then press the multi selector to right. Enter date. Follow steps described in Basic Setup (W 14).	Image: Stored Dates Image: Contemport of the store of th
	Stored dates	Dates between 1 January 1910 and 31 December 2037 can be stored.	E DATE D M Y 400 10 08 . 2005 10 Back ⊕ Confrm
	Display options	Press the multi selector up or down to highlight Display options , then press (b) (the center of the multi selector).	DISPLAY OPTIONS Number of days Years and days Yrs, mnths, days © contim

The Set-up Menu

Date counter

When a date that has been stored in the date counter is selected and the date imprint option is set to **Date counter**, the date counter indicator and stored date number are displayed in the monitor.



The Set-up Menu

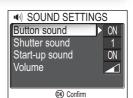
Sound Settings

Option

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

Button sound	 functions: When the mode dial is set. When the mode is changed (shooting ↔ playback). When menu settings are made. When an error occurs. 	Off On On
Shutter sound	There are three shutter sounds to choose from. Press the multi selector up or down to highlight option, and press 🕲 (the center of the multi selector) to select.	SHUTTER SOUND
Start-up sound	Adjust volume of sound played when camera is turned on.	START-UP SOUND Off On On Ocolumn Ocolumn
Volume	Adjust volume of voice memos, movies, and shut- ter and start-up sounds. Choose volume for built- in speaker from Loud and Normal . Choosing Off mutes shutter and start-up sounds, and plays voice memos and movies at lowest volume.	VOLUME VOLUME Loud Off Confm

Control the sounds that alert you to camera's



BUTTON SOUND

Sound settings

SET UP

Description



Shutter sound

Regardless of setting chosen, no sound is played when ⅔ (sports assist) is selected in assist modes (♥ 33), Continuous settings other than **Single** (♥ 84) are set, or **BSS BSS** is on (♥ 85).

Blur Warning

This option is used to display or hide the camera shake warning after you have taken a picture.

Selecting **On** displays the warning only if inadvertent camera movement has caused the picture you have just taken to be blurred.

Select Yes to keep the picture or No to delete it.

Shooting modes where the Blur Warning does not function

In the shooting modes shown below, the blur warning is not available even if **Blur warning** option is set to **On**: 旦 **Continuous** (營 84), 믤 **Multi-shot 16** (營 84), and **BSS BSS** (營 85) modes, as well as 弐 (sports assist) (營 33) of assist mode, Ⅲ **MUSEUM** (營 38), 戀 **FIREWORKS SHOW** (營 38), and **□ PANORAMA ASSIST** (營 40) of scene mode. Additionally, the **Blur warning** option is not available when solf timer is on

Additionally, the **Blur warning** option is not available when self-timer is on.



If you want to check how blurred the picture is before deciding whether to delete it or not, select **Yes** to save the picture and then press \blacktriangleright .



SET UP 🕨 🗶 Blur warning

The Set-up Menu

ower, the camera will enter stan

To save battery power, the camera will enter standby mode if no operations are performed for a preset length of time.

Auto Off

Option

Auto Off	Choose how long monitor will remain on before turning off automatically. Choose from thirty seconds (30s), one minute (1m) default setting, five minutes (5m) and thirty minutes (30m). Regardless of option chosen in the AUTO OFF menu, monitor will remain on for three minutes when menus are dis- played. When powered by AC adapter, cam- era will enter standby mode if no operations are performed for thirty minutes.	AUTO OFF 30s 1m 5m 30m 0contm
Sleep mode	If On is selected, camera will enter standby mode when there is no change in brightness of subject, even before time selected in AUTO OFF menu has elapsed. The camera will enter sleep mode after thirty seconds of non-operation when Auto off is set to thirty seconds (30s) or one minute (1m), and after one minute when Auto off is set to five minutes (5m) or thirty minutes (30m).	SLEEP MODE Off On On O Confm



SET UP 🕨 🕘

Description

P 🕨 🕘 Auto off

3

((OK <

Format memory/card

This option is used when you need to format the camera's internal memory or a memory card.

If no memory card is inserted in the camera, the internal memory will be formatted, and if the camera contains a memory card, the card will be formatted.

To format the internal memory, remove the memory card.

MEMORY CARD FORMAT

Quick format

FORMATTING

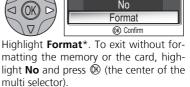
2



exit without formatting the memory or the card, press the multi selector left to return to the SFT-UP menu

* When the internal memory is formatted, start the operation from step 2.

Begin formatting. While formatting is in progress, the message shown above will be displayed.



* When the memory card is not inserted, the FORMAT MEMORY screen is displayed.

MEMORY CARD FORMAT Quick format Format (K) Confirm

Format card

2

Format memory



TAT MEMORY CARD FORMAT

All images will be deleted!

WARNING!

Formatting Memory/Card

- When formatting memory cards, use the Format card option of the camera. The camera
 may be unable to access memory cards formatted using a computer or other device.
- Do not turn the camera off or remove the batteries or memory card when the message "FORMATTING" is displayed on the monitor.
- When memory or memory cards are formatted, all data in the memory or the memory cards is deleted. Before formatting transfer the pictures you wish to save to a computer.

Quick format and Format

- When **Quick format** is selected in the MEMORY CARD FORMAT menu, only the data recorded on the card is formatted. This option is used for formatting memory cards that have been formatted with the COOLPIX 7600.
- When Format is selected in the MEMORY CARD FORMAT menu, the entire card is formatted. This option is used for formatting memory cards not formatted with the COOLPIX 7600.
- New memory cards must be formatted with Format before use.
- Using **Format** regularly for memory cards is recommended to maintain the performance of memory cards.
- Format requires more time than Quick format.
- Format is not available when 🖅 (🕈 12) is displayed.

Language

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

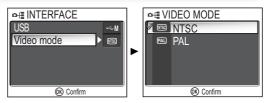
Deut sch	Русский
√En9lish	Svenska
Español	日本語
Français	中文(简体)
Italiano	中文(繁體)
Nederlands	한글
WENN Back OK	Confirm

▶ 🕶 🗄 Interface

SET UP > N Language

Interface

Set USB mode or the video mode. After choosing USB or Video mode from the SET-UP menu, choose PTP or Mass storage for the USB option, or choose NTSC or PAL for the Video mode option.



SET UP

	Item Option		Description
	USB	РТР	Select this option when operating system of the USB connected computer supports only PTP (👿 52). Select this option when printing via direct USB connection (👿 59).
		Mass storage (default option)	Select this option when connecting via USB other than the above.
	Video mode*	NTSC	Select this option when connecting the camera to NTSC devices.
	video illoue	PAL	Select this option when connecting the camera to PAL devices.

* The default option depends on the area, country or region where the camera was purchased.

Auto Transfer

When you connect the camera to a computer with Picture-Project installed via the UC-E6 USB cable and press $\textcircled{0}{0}$ (the center of the multi selector) to transfer pictures, only pictures marked with a \swarrow icon will be transferred (W 52).

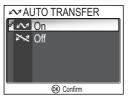
Option	Description
Image: Work on (default option) Select this option to set pictures or movies to be transferred matically when they are taken or recorded. Image: Work off Select this option to set pictures or movies to not be transferred automatically when they are taken or recorded.	

Set a A icon to stored pictures

The \checkmark icon can be added or removed from stored pictures using the Transfer marking option in the PLAYBACK MENU (S 92).



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



Auto transfer

The following settings are affected:

Setting	Default
🔮 Portrait assist	FACE-PRIORITY AF
Landscape assist	LANDSCAPE
💐 Sports assist	SPORTS
🖾 Night portrait assist	NIGHT PORTRAIT
SCENE Scene	PARTY/INDOOR
Movie Movie	Small size 320, Single AF, Electronic VR: off
Speedlight	\$ AUTO
Self-timer	Off
Macro close-up	Off
Image mode	🕅 Normal (3072)
White balance	Auto
Exp. +/-	±0
Continuous	Single
Best Shot Selector	Off
Color options	Standard color
Welcome screen	Animation
Photo info	Show info
Brightness	3
Date imprint	Off
Button sound	On
Shutter sound	1
Start-up sound	On
Volume	Normal
Blur warning	On
Auto Off	1m
Sleep mode	Off
Auto transfer	On
Menus	Text

Choosing **Reset** also clears the current file number (**2** 23) from memory. Numbering will continue from the lowest number available in the memory or on the memory card. All other settings are unaffected.

Resetting File Numbering to 0001

To reset file numbering (**B** 23) to 0001, select **Reset All** after either deleting all pictures (**B** 90) or formatting the memory card (**B** 106).

Battery Type

This option is used to choose the type of batteries inserted in the camera.

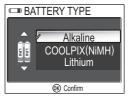
Select the correct option when the type of batteries used is changed.

The default option depends on the area, country or region where the camera was purchased.

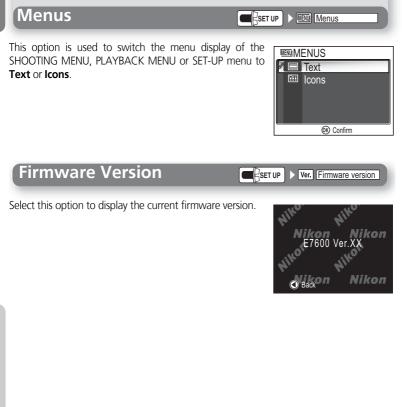
Option	Description	
Alkaline	Alkaline (AA) batteries	
COOLPIX (NiMH) Rechargeable EN-MH1 (AA) nickel-metal hydride batteries		
Lithium	Lithium (AA) batteries or nickel-manganese (AA) batteries	

Backup Battery R

If the backup battery (88 14) is not charged sufficiently, the battery type setting may revert to the default setting.



SET UP > D Battery type



Technical Notes

Optional Accessories

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

Rechargeable battery	Additional EN-MH1 NiMH batteries are available from your retailer or local Nikon representative.
Battery charger	MH-71, MH-70 battery charger for EN-MH1 batteries
AC adapter	EH-62B AC adapter
Carrying case	CS-CP18 soft case ^{*1}

*¹Not available in U.S.

Approved Memory Cards

The following memory cards have been tested and approved for use with your Nikon digital camera:

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

* High speed type of 10 MB/s

Cleaning

Lens

One key to cleaning the lens is to not touch it with your fingers. Remove dust or lint with a blower (typically a small device with a rubber bulb attached to one end that you pump 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.

Monitor

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

Avoid contact with liquid crystal

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

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 monitors, 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 monitor. 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 backlit. Should the monitor begin to dim or flicker, contact your Nikon service representative.

Storage

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

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

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

Store the batteries in a cool, dry place.

Ø Batteries

- When turning the camera on, check that the batteries are charged. The monitor will display a warning when batteries are low.
- On cold days, the capacity of batteries tends to decrease. Be sure that the batteries are fully charged before heading outside to take pictures in cold weather. Keep spare batteries in a warm place and exchange as necessary. Once warmed, a cold battery may recover some of its charge.
- If the battery terminals are dirty, wipe them off with a clean, dry cloth before use.

- Repeatedly recharging NiMH batteries before they are fully exhausted may result in a "memory" effect, causing the batteries to lose their charge quickly. The batteries will return to normal after being fully discharged and recharged.
- NiMH batteries gradually lose their charge when left unused. We recommend that you charge NiMH batteries immediately before use.
- Used batteries are a valuable resource. Please recycle used batteries in accordance with local regulations.



Error Messages

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

Display	Problem	Solution	X
(Flashes)	Clock not set.	Set clock to current date and time.	14
WARNING!! BATTERY EXHAUSTED	Batteries exhausted.	Turn camera off and replace batteries.	8
AF● (●flashes red)	Camera cannot focus.	Use focus lock to focus on another subject at same dis- tance, then recompose picture.	21
ಪ್ರಿ	Slow shutter speed. Pictures may be blurred.	Use flash, or steady camera using tripod, by placing cam- era on level surface, or by holding camera in both hands with elbows against torso.	18, 24-25
CC M PICTURE IS BUURRED. SPICE PICTURE? NO Yes & Section	Recorded picture may be blurred.	Select Yes to keep picture, No to delete. Camera shake warning can be hidden.	104
WARNING ! ! PLEASE WAIT FOR THE CAM- ERA TO FINISH RECORDING	Camera turned off or > but- ton pressed during recording. The mode dial was rotated during recording.	Message clears from display automatically when recording is complete.	21
MEMORY CARD IS WRITE PROTECTED	Write-protect switch is in "lock" position.	Slide write-protect to "write" position.	11
CARD IS NOT FORMATTED [*] Format No	Memory card has not been formatted for use in camera.	Press multi selector up to highlight Format and press to format card, or turn camera off and replace card.	106, 10-11

Display	Problem	Solution	X	
THIS CARD CANNOT BE USED S WARNING ! ! THIS CARD CAN- NOT BE READ	Error accessing memory card.	 Use approved card. Check that connectors are clean. 	113 -	
OUT OF MEMORY	Camera in shooting mode: Insufficient memory to record pictures at current settings.	 Choose lower image quality/ size. Delete pictures or voice recordings. Insert new memory card. 	79-80 45, 89, 10	
	Camera connected to com- puter. Not enough space on memory card to record infor- mation needed for transfer.	Disconnect camera, delete unwanted pictures or voice recordings, and try again.	45, 89	
IMAGE CANNOT BE SAVED	 Memory card has not been formatted for use in cam- era, or error occurred while saving picture. Camera has run out of file numbers. Camera can not copy pic- ture using crop options. 	 Reformat memory card. Insert new memory card or delete pictures or voice recordings. Images can only be adjusted using D-Lighting one time. Further adjustments can not be made. 	106 10, 45, 89 65	
Image has already been modified. D- Lighting cannot be used.	Image can not be adjusted using D-Lighting.	Copies from D-Lighting, crop or small picture option can not be adjusted using D- Lighting	65	
SOUND FILE CANNOT BE SAVED	Camera has run out of file numbers.	Insert new memory card or delete pictures or voice recordings.	10,45, 89	
 Memory card has not been formatted for use in camera. Error occurred while saving movie. Camera has run out of file numbers. Takes long time to save movie on memory card. 		 Reformat memory card. Insert new memory card or delete pictures or voice recordings. Insert memory card with faster processing speed. 	106 10, 45, 89, 71 113	

Display	Problem	Solution	8
MEMORY CONTAINS NO IMAGES	No pictures in the memory or on the memory card that can be viewed on the camera.	Press 🕨 button to return to	22
ALL IMAGES ARE HIDDEN	No pictures in the memory or on the memory card that can be viewed on the camera.	shooting mode.	
NO SOUND FILE	No voice recordings in the memory or on the memory card.	Press ► button to return to voice recording mode.	42
FILE CONTAINS NO IMAGE DATA	File and the second second		
This file can- Not be played Back	File created by computer or different make of camera.	View file on computer or cor- rect make of camera.	-
WARNING! MODE DIAL IS NOT IN THE PROPER POSITION	Mode dial is positioned between two modes.	Adjust mode dial to select desired mode.	6
THIS IMAGE CAN- NOT BE DELETED	Attempt to delete protected picture.	Remove protection before deleting picture.	91
COMMUNICA- TIONS ERROR	USB cable disconnected or memory card removed while pictures are being transferred to computer.	If error appears in computer monitor, click OK to exit Picture- Project. Turn camera off, recon- nect cable or replace memory card, then turn camera on and transfer pictures.	13, 52-54
	USB option set incorrectly.	Turn camera off and discon- nect cable, then choose new USB setting in the SET-UP menu of the camera and reconnect camera. If error per- sists, use PictureProject Trans- fer button to transfer pictures.	52
NO IMAGES ARE MARKED FOR TRANSFER No pictures selected for trans- fer when (1) () () button pressed to transfer pictures to computer.		Disconnect camera and select at least one picture for trans- fer, then begin transfer again.	54, 92-93

Display	Problem	Solution	X
TRANSFER ERROR	Error occurred when pictures were transferred to computer.	Check that camera is con- nected and that batteries are fully charged.	12, 53
THERE ARE NO MORE INDEX POINTS	No index points available when I≪ or ▶►I selected.	Index points can be inserted during recording.	43
NEW CITY IS IN THE CURRENT TIME ZONE	Travel destination is in same time zone as home location.	No need to specify new time zone if travel destination is in same time zone as home location.	99
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.	13
PRINTER ERROR CHECK PRINTER STATUS	Error occurred when printing was attempted.	Check the printer. After fix- ing the error, press multi selector up or down to select Resume and press (1) resume printing. Select Can- cel to abort printing. If you cannot select Resume because of the error, select Cancel .	-
SYSTEM ERROR	Error has occurred in camera's internal circuitry.	Turn camera off, unplug optional AC adapter (if using), remove and reinsert batteries, and turn camera on. If error persists, contact retailer or Nikon representa- tive.	8-9, 12

Troubleshooting

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

// Electronically-Controlled Cameras

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

Problem	Possible cause	S
	 Camera is off. Batteries are not correctly inserted or battery-chamber cover is not properly latched. 	13 8
	Batteries are exhausted.	12
Monitor is blank	 EH-62B AC adapter (available separately) is not prop- erly connected. 	-
	Camera is in sleep mode. Press shutter-release button halfway.	13
	Monitor is off.	5
	USB cable is connected.AV cable is connected.	-
Camera turns off	Batteries are low.	12
without warning	Batteries are cold.	115
No indicators appear in monitor	• Indicators are hidden. Select Show info for Photo info option in the Monitor settings menu.	100
Monitor is hard to	 Ambient lighting is too bright: move to a darker loca- tion or use viewfinder. 	19
read	 Monitor brightness needs adjustment. 	100
	Monitor is dirty: clean monitor.	114

Technical Notes

Problem	Possible cause	X
	Camera is in playback mode.	22
	Batteries are exhausted.	12
	• Red (\$) lamp flickers: flash is charging.	20
No picture is taken when shutter-	Green (AF) lamp flickers: camera unable to focus.	20
release button is	 Message "CARD IS NOT FORMATTED" appears in monitor: memory card is not formatted for use in your 	10-11, 106
pressed	camera.	100
pressed	 Message "OUT OF MEMORY" appears in monitor: 	79
	insufficient memory to record picture at current Image	
	mode setting.	
	• Flash is off.	24
Pictures are too dark	 Flash window is blocked. 	18
(underexposed)	 Subject is outside range of flash. 	24
	• Exposure compensation is too low.	83
Pictures are too	• Exposure compensation is too high.	83
bright (overexposed)	- Cubiest was not in forward when shutter relates	20
Pictures are out of	 Subject was not in focus area when shutter-release button was pressed halfway. 	20
focus	• Green (AF) lamp flickers: camera unable to focus.	20
	Camera shook during shot. Blurring caused by camera	
	shake can be reduced by:	
Pictures are blurred	• Using the flash	24
	 Using the Best Shot Selector (BSS) 	85
	 Using the self-timer with a tripod 	26
Randomly-spaced	Shutter speed too slow. Noise can be reduced by:	
bright pixels	 Using the flash 	24
("noise") appear in	 Main (night portrait assist) mode is selected or <i>iii</i> DUSK/ 	34,
image	DAWN or E NIGHT LANDSCAPE is selected in s	37
	White balance does not match light source.	81
Colors are unnatural	• Color options is not set to Standard color.	86
	• Flash is off. Note that flash turns off automatically	24
Flash does not fire	when;	
	• The mode dial is set to 🖬 (landscape assist),	32,
	★ (sports assist), or ★ (movie), or to SEE (scene)	33,
	mode with any of 🛎 SUNSET, 🛎 DUSK/DAWN, 🖃 NIGHT LANDSCAPE. 🏾 🏛 MUSEUM.	70, 36-37
	IGHT LANDSCAPE, Ⅲ MUSEUM, SIGHT LANDSCAPE, Ⅲ MUSEUM, SIGHT SHOW, or □ COPY selected in	50-37
	scene menu.	

Troubleshooting

Problem	Possible cause	S
Picture or voice recording can not be played back	• Picture or voice recording has been overwritten or renamed by computer or other make of camera.	-
Copy can not be cre- ated using small pic- ture, crop, or D- Lighting option	 Picture is a movie. Picture was created with small picture, crop, or D-Lighting option. There is not enough free space in the memory or on the memory card to store new copy. 	76 66,67, 69
Can not zoom in on picture	 Picture is a movie. Picture was created with small picture option. Picture has been cropped to size less than 320 × 240. 	76 69 66
PictureProject does not start when cam- era is connected or memory card inserted in card reader or card slot	 Camera is off. EH-62B AC adapter (available separately) is not properly connected, or batteries are exhausted. UC-E6 USB cable is not correctly connected, or card not properly inserted in card reader or card slot. USB item in INTERFACE menu is set to PTP when camera is connected to a computer running Windows 2000 Professional, Windows 98 Second Edition (SE) 	

Specifications

Туре		E7600 digital camera
Effective pixels		7.1 million
CCD		1/1.8" high-density CCD; total pixels: 7.41 million
	Image size (pixels)	3,072 × 2,304 (3072) 2,592 × 1,944 (2592) 2,048 × 1,536 (2048) 1,024 × 768 (1024)
		640 × 480 (640)
Lens		3 × Zoom Nikkor ED lens
	Focal length	F=7.8 - 23.4 mm (35-mm [135] camera-format equivalent: 38 - 114 mm)
	f/-number	f/2.8 - f/4.9
	Construction	7 elements in 6 groups (includes 1 glass-molded ED lens ele- ment)
Digital zoon	n	4 × (35-mm [135] camera-format equivalent: 456 mm)
Autofocus (AF)	Contrast-detect through the lens (TTL) AF, with AF-assist illu- minator
	Focus range	30 cm (1') - ∞; macro mode 4 cm/1.6" (W) - ∞
	Focus-area selection	Center with five-area selection in frame assist mode
	AF-assist illuminator	CLASS 1 LED PRODUCT (IEC60825-1 Edition 1.2 ⁻²⁰⁰¹) Maximum output: 1,100 µW
Viewfinder	•	Real-image zoom viewfinder with LED indication
	Magnification	0.31 - 0.77 ×
	Frame coverage	Approximately 80% horizontal and 80% vertical
Monitor		1.8", 85,000-dot, amorphous silicon TFT LCD monitor
	Frame coverage (shooting mode)	Approximately 97% horizontal and 97% vertical
Storage Me	dia	Internal memory (14 MB)/SD memory cards
	File system	Compliant with Design Rule for Camera File System (DCF), Exif 2.2, and Digital Print Order Format (DPOF)
	File formats	Compressed: JPEG-baseline-compliant, Movies: QuickTime
	Metering	256-segment matrix metering (linked to five AF area selection in frame assist mode)
Exposure	Exposure control	Programmed auto exposure with exposure compensation (-2.0 - +2.0 EV in steps of 1/3 EV)
	Range	W: +1.0 - +16.4 EV T: +2.6 - +18.1 EV
Shutter		Mechanical and charge-coupled electronic shutter
Speed		4 - 1/2,000 s
Aperture		Electronically-controlled preset aperture
	Range	Two steps (f/2.8 and f/4.8 [W])
Sensitivity		Approximately equivalent to ISO 50 (auto gain of two to four times) (up to equivalent of ISO 200)

Specifications

Self-timer		Ten-second duration
Built-in	Range (approx.)	W: 0.4 - 3.4 m/14" - 11'2" T: 0.4 - 2.0 m/1'4" - 6'7"
Speedlight	Flash control	Sensor flash system
) (-:	File format	WAVE
Voice recording	Max. recording time	Approximately 5 hours with a SD memory card (256 MB or more)
Interface		USB
Video output		Can be selected from NTSC and PAL
I/O terminals		A/V out/digital I/O
Power sources		 Two rechargeable Nikon EN-MH1 NiMH batteries Two LR6 (AA) alkaline batteries Two ZR6 (AA) nickel manganese batteries Two FR6/L91 (AA) lithium batteries EH-62B AC adapter
Number of frames taken in succession		Approximately 100 frames (alkaline batteries) Approximately 250 frames (EN-MH1) Approximately 400 frames (lithium batteries) Measured at standard temperature (25°C/77°F) with fully charged batteries based on CIPA standard: zoom adjusted with each shot, flash used in approximately one half of shots, image type set to Normal.
Dimensions (W \times H \times D)		85 × 60 × 39 mm (3.3" × 2.4" × 1.5")
Approximate weight		145 g (5.2 oz) without battery or memory card
Operating	Temperature	0 - 40 °C (32 - 104 °F)
environment	Humidity	Less than 85% (no condensation)

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