



The Nikon Guide to Digital Photography with the **COOLPIX 5600 4600**

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 Nikon-authorized 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 subjected to strong shocks or vibration.

Keep away from strong magnetic fields

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

 \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

Notices/For Your Safety

- 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.

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 COOLPIX5600 (E5600)/COOLPIX4600 (E4600) 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 (FAOs), 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/



Attaching the Camera Strap





The Monitor

Shooting



1	Shooting mode 16		
2	AE-L ¹		
3	Focus indicator ²		
4	Zoom indicator ²		
5	Battery level indicator ³ 12		
6	Internal memory/memory card indicator		
7	Camera shake icon ⁴ 25		
8	"Date not set" icon ⁵ 14		
9	Time zone 91		
10	Self-timer indicator		
11	Date imprint indicator 93		
1	Appears when taking pictures with Panorama		
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.

12	Number of exposures remaining/ length of movie16, 17, 60
13	Flash mode
14	Image mode
15	Exposure compensation71
16	Sensitivity gain indicator 6 25
17	Continuous shooting mode 72
18	Best Shot Selector (BSS) 73
19	White balance
20	Color options
21	Macro close-up mode

5 Appears when camera clock has not been set.

6 Indicates that camera has raised sensitivity automatically.

Playback



2 E5600 only.

1

6

7

Controlling the Monitor

To hide or display indicators in the monitor, select the Photo info option in the MONITOR SET-TINGS menu. (8 92)



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.



Navigating the Menus

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



The Shutter-Release Button

Your camera has a two stage shutter-release button. The camera sets focus and exposure when the button is pressed halfway. The green (AF) lamp next to the viewfinder will light when the focus operation is complete. Focus and exposure will remain locked while the shutter-release button is pressed halfway. To take the picture, press the shutter-release button the rest of the way down.



First Steps

Inserting Batteries

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)



Open the battery-chamber cover

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



Insert the batteries

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

AA batteries



3 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.

[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. When any other type of battery is used, turn the camera on and change the setting (**X** 102).

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 (😿 105). 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 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 will be stored in the memory, and if the camera contains a memory card, then pictures will automatically be stored on the card.

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



Confirm that the camera is off

• The power-on lamp should be off.



7 Open the memory card slot cover

1284a

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.



Directio

of insertio

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" (😈 97, 98).



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.



ß

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.

The Write Protect Switch

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



Write protect switch

When card is locked, pictures can be played back but can not be recorded, deleted, edited, or transferred using the camera $((\checkmark))$ 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** 102).

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 (**2** 96). 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 (**2** 77) 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 (**W** 96).

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.



The Clock Battery

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 49), 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



Turn the camera on

• The power-on lamp will light and the monitor will display a welcome screen (88 89). 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, and when there is no card in

Flash mode

Choose from five modes depending on lighting and your creative intent (W 24). The default setting is \$ ANTO (auto).

Number of exposures remaining

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 (8 67).



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 (👿 67)
- insert a new memory card (👿 10)
- delete some pictures (👿 22-23, 78-79)

Shooting Menu

Pressing e button in (auto) mode displays the SHOOTING MENU (18 65). Using the SHOOT-ING MENU, Image mode (18 67), White balance (18 69), Exp. +/- (18 71), Continuous (18 72), BSS (18 73) or Color options (18 74) 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 (E5600 only).

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.
- When the camera is zoomed in to maximum magnification, holding the Q (**T**) button down for about one second will trigger digital zoom. The zoom indicator will turn yellow, and the green (AF) lamp next to the viewfinder will blink. Use the Q (**T**) and \blacksquare (**W**) buttons to adjust zoom in the digital zoom range. To cancel digital zoom, press \blacksquare (**W**) until the zoom indicator turns white.

Digital Zoom

In digital zoom, data from the camera's image sensor are processed digitally, enlarging the center portion of the picture to fill the frame. Unlike optical zoom, digital zoom does not increase the amount of detail visible in the picture. Instead, details visible at maximum optical zoom are simply enlarged, producing a slightly "grainy" image. 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** 72).

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.

A

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 c (flashready) lamp next to the viewfinder.

Red	On	Flash will fire when picture is taken.	
(\$) larr	Blinks	Flash charging. Wait until lamp comes on.	
q	Off	Flash off or not required.	
رت ع	On	Subject in focus.	
een(AF)lamp/ ocus indicator	Flashes	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.

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 ♥ 94). 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 picture 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:



D 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)







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. 2: \P (voice memo recording guide) is displayed (E5600 only).

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, highlight **No** and press (1) (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."



💽 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.

Image File and Folder Names

In the memory or on the memory card, pictures are identified by file names with three parts: a fourletter 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	V
Original	Still picture	DSCN	.JPG	22
Original	Movie	DSCN	.MOV	64
	Small copy	SSCN	.JPG	83
Conv	Cropped copy	RSCN	.JPG	44
2005	Copy created with the D-Lighting function	FSCN	.JPG	45
Voice memo appended to still picture (E5600 only)	Voice memo	DSCN SSCN RSCN FSCN	.WAV	47

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

Pictures are stored in folders created automatically by the camera and named with a three-digit folder number followed by "NIKON" (e.g., "100NIKON"). Folders can hold up to 200 pictures; if you take a picture when the current folder contains 200 pictures, a new folder will be created by adding one to the current folder number. 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** 97) or a new memory card inserted.

When Lighting Is Poor: Using the Flash

The following flash modes are available:

Mode	How it works	When to use it	
\$ AUTO Auto	Flash fires when lighting is poor.	Best choice in most situations.	
\$⊛ Auto with red-eye reduction	Flash fires before main flash, reducing "red-eye."	Use for portraits (works best when sub- ject is well within range of flash and looking at pre-flash). When using this mode, the red-eye reduction function will also work automatically for the pic- ture recorded. Not recommended when quick shutter response is required.	
্টু Flash Cancel (off)	Flash will not fire even when lighting is poor.	Use to capture natural lighting under dim light or where use of flash is prohib- ited. If & (camera shake) icon appears, care should be taken to avoid blurring.	
4 Anytime Flash (fill flash)	Flash fires whenever picture is taken.	Use to "fill-in" (illuminate) shadows and back-lit subjects.	
(Slow sync) Auto flash combined with slow shutter speeds.		Use to capture both subject and back- ground at night or under dim light.	

To select the flash mode:





Display Flash menu.



Highlight desired mode (to exit without changing mode, wait for a while or press the multi selector to left).

Auto with Red-eye Reduction

The E5600/E4600 Auto with red-eye reduction flash function uses an advanced red-eye reduction method. Several pre-flashes are fired 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.

Exit menu. Flash mode shown by icon at bottom of monitor.

Sensitivity (ISO Equivalency)

"Sensitivity" is a measure of how quickly the camera responds to light. Your Nikon digital camera normally has a sensitivity roughly equivalent to film with an ISO 50 rating. When lighting is poor and the flash is off (\mathfrak{G}), the camera will automatically increase sensitivity, permitting faster exposures and minimizing blur caused by inadvertent camera movement (camera shake). An **ISO** icon will appear in the monitor to warn that the picture may be slightly mottled.

The \land (Camera Shake) Icon

When lighting is poor and the flash is off (\mathfrak{G}), shutter speeds will slow and pictures may be blurred. If the shutter speed required for exposure is very slow, a \mathfrak{A} (camera shake) warning will appear in the monitor. Use of a tripod or support is recommended.

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 - 2.0 m (1'4'' - 6'7'') at maximum zoom.

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 ((100)). Depending on the shooting mode selected, the flash mode may change automatically when you choose a new shooting mode ((100)) 28-41).







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 or press multi selector to left).



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.

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The Self-Timer

The self-timer is not available in some shooting modes (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.



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



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



Frame picture. If zoom indicator and ♥ 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).

More on Photography

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	X
ĩ	Portrait assist	Use for portraits in which the main subject stands out clearly while background details are softened.	31
	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 subjec		33
<u>o</u> ×	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
2	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
<u>.:<u>ג:</u></u>	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
щ.	NIGHT LANDSCAPE	Use when taking landscape shots at night.	37
. B	CLOSE UP	Use to capture vivid colors in close-up shots of flowers, insects, and other small objects.	37
血 MUSEUM		Use where flash photography is prohibited.	38
::::	FIREWORKS SHOW	Use to capture the expanding burst of light from a firework.	38
	COPY	Use to copy text and line drawings.	38
<u>ہ،</u>	BACK LIGHT	Use when light is coming from behind your subject, throwing their features into shadow.	39
۲	UNDERWATER	Use when taking underwater photographs using the water-proof case (WP-CP3).	39
Ц	PANORAMA ASSIST	Use when taking a series of pictures that will later be joined to form a single scene.	40



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.



Image Mode

The Image mode option is available in the assist mode and scene mode menu (W 67).





Assist and Scene Modes Help

Pressing Q(T) button when displaying the assist or scene menu displays the help for the selected assist or scene.



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.



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.*



💈 Portrait Assist

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











2 PORTRAIT

No guides are displayed in monitor. Camera focuses on subject in center of frame; focus lock can be used to focus on off-center subjects.

PORTRAIT LEFT

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

PORTRAIT RIGHT

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

B PORTRAIT CLOSE-UP

Use to compose shot with your subject's face positioned in top half of frame. Camera will focus on face area in framing guide.



PORTRAIT FIGUR

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PORTRAIT COUPLE

Use to compose shot with two subjects positioned side-by-side. Camera will focus on closest subject.

PORTRAIT FIGURE

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.







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.





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.

[m]	ARCHIT	ECTURE
		×
		(F
EN:Ext	(8:Set	():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. Both portrait subject and background object will be in focus.



🗃 GROUP LEFT

Use to compose portraits with portrait subjects to left and landmark or other object in background at right of frame. Both portrait subject and background object will be in focus.

4	🗲 AUTO *	٢	OFF*	٢	OFF	
---	----------	---	------	---	-----	--



💐 Sports Assist

 $rac{4}{3}$ (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 3 frames every 2 seconds (rate of shooting will slow when a icon is displayed). With E5600, camera records eleven shots when image mode is set to Mormal (2592). With E4600, camera records eight shots when image mode is set to Mormal (2288). 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 $\stackrel{\scriptstyle \star}{\prec}$ (Sports) mode.



BORT COMPOSITE

Each time shutter-release button is pressed, camera takes 16 shots in about three seconds and arranges them in four rows to form a single 20 Economy (1600) picture. Focus, exposure, and white balance are determined by first shot in each series.

|--|



In Sports or Sports composite mode, the focus is constantly reset until it is locked by pressing the shutter-release button halfway.



More on Photography

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 (🐻 31).



* Other modes can be selected.

📝 Flash Mode Selection in 🖾 Mode

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

SEE Scene Mode



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



Scene mode





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.

The following scenes are available:

	Use for shots that the effects of ca	at include details of t ndlelight and other	he backgro indoor back	und, or to capture ground lighting.
4 4 ⊚*	ی	OFF*	*	OFF
\$ \$ AUTO *	Vividly captures beaches, or sunli to \$AUTO ; other	SNOW the brightness of it expanses of water. er modes can be sele OFF*	such subjec Flash mode ected.	cts as snowfields, e automatically set OFF
	SUNSET Preserves the dee	p hues seen in sunset	s and sunrise	25. A
4 3 *	ঙ	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.

OFF



DUSK/DAWN

before pictures are saved to memory or memory card.

3

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

More on Photography

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4

RIGHT LANDSCAPE

3

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

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☆☆

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

Pictures taken at slow shutter speeds are processed to improve guality, slightly increasing time

OFF*





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 \clubsuit 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.

|--|--|



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

- •The Best Shot Selector (BSS; 87 73) 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.

4	٩	٢	OFF	*	OFF	



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

- 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.



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	Ki

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	ঙ	OFF*	*	OFF
		Se when takir ase (WP-CP3).	VATER ng underwater phot	ographs us	sing the water-proof
4	🕏 AUTO *	ڻ	OFF*	*	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.





Press (1) (the center of the multi selector). Pan direction displayed in greenish yellow.





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

(M)



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

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).

6

5



Compose the next shot to overlap with the previous picture.



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 🐵 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.

Ø

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 (**W** 49) 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).

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 🔄 (W) button once to view nine thumbnails. Press Q (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 rest 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** 64, 83). Cropped copies can not be further cropped.



То	Press	Description
Zoom in	ବ (T)	Zoom increases each time button is pressed, to a maximum of 10x. While image is zoomed in, 9 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	E (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	面	Confirmation dialog will be displayed. Press multi selector up or down to highlight option, press the center of the multi selector to select.

Cropping Pictures

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, No to exit without creating copy, then press ® (the center of the multi selector).

No Yes

Cropped pictures are stored as JPEG files (compression ratio 1 : 8). Depending on the size of the original and the zoom ratio at the time the copy was created, copies will be 2,592 × 1,944 (E5600 only) 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. Copies are stored in separate files in the memory or on the memory card with names in the form "RSCNnnnn.JPG." "nnnn" is a four-digit number assigned automatically by the camera.

Ø

Photo Trim

- Cropped pictures are stored with the same recording date and time as the original.
- Resized copies and cropped copies can not be cropped.
- If a cropped copy created using the E5600/E4600 is viewed on a different digital camera, the picture may not be displayed or may not be transferred to a computer.

Adjusting a picture tone automatically

Press W (the center of the multi selector) in full-screen playback. The tone adjusted picture is created automatically as a separate picture. This function is called D-Lighting in the E5600/E4600. Using D-Lighting, backlit or insufficient flash light volumes can be adjusted brightly. Please see the D-Lighting samples on the next page.





Select picture in full-screen playback.



played.
Select **Yes** to save the a copy, **No** to exit without creating copy, then press [®].

D-Lighting

- Copies created with D-Lighting are stored in a separate file.
- Copies created with D-Lighting are not deleted if the original pictures are deleted. The original pictures are not deleted if copies created with D-Lighting are deleted.
- 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.
- Copies created with D-Lighting are stored with names in the form "FSCNnnnn.JPG." "nnnn" is a four-digit number assigned automatically by the camera.
- Copies created with D-Lighting are stored with the same recording date and time as the original.
- Movies, small pictures, cropped copies and copies created with D-Lighting can not be tone adjusted with D-Lighting.
- The D-Lighting function is not available when there is not enough free space in the memory or on the memory card.
- If a copy created with D-Lighting using the E5600/E4600 is viewed on a different digital camera, the picture may not be displayed or may not be transferred to a computer.
- D-Lighting function may not be available for the pictures taken with non-E5600/E4600 digital cameras.

Viewing Pictures on the Camera

D-Lighting Samples

Before







After







Voice Memos: Recording and Playback (E5600 only)

Using the camera's microphone, you can record a voice memo by pressing the shutter-release button while a picture with the s: icon is displayed in full-screen playback (s 22). Do not touch the microphone during recording. Voice memos cannot be recorded or played back for movies (s 60) or during thumbnail playback (s 42) or playback zoom (s 43). If a voice memo already exists for the current picture, $[\r{h}]$ (voice memo icon) and $\textcircled{s}: [\r{h}]$ (voice memo can not be recorded.



То	Press	Description	
Record voice memo	► M	If E i ♀ icon is displayed on current picture, memo will be recorded while shutter-release button is held down. During recording, ●REC icon blinks. Recording ends after about 20s or when shutter-release button is released. Do not touch microphone during recording.	
Play voice memo	₹ L	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 \blacksquare (W) to lower volume, \P (T) to increase. Volume can also be adjusted using Sound settings > Volume option in the SET-UP menu (W 94).	
Delete picture or voice memo	Ť	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 (E5600) or EG-CP11 video cable (E4600) 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 (😻 99). 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/video cable.

Connect the AV/video cable to the camera

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



Connect the AV/video cable to the television or VCR

- [E5600] 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.
- [E4600] Insert the yellow plug on the video cable into the video-in jack on the television or VCR.

Turn the camera on

• Press the ▶ button for about a second to turn the camera on. The camera monitor will remain off and the television will 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 (🐰 81)
- Clicking the 🔊 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	
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 (\mathbf{M}, \mathbf{M}) button can not be used to transfer pictures in the following cases. Use the PictureProject with button.

- 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.









Mac OS X

Mac OS X Drag the Trash

Windows XP Home Edition/Windows XP Professional

Click the "Safely Remove Hardware" icon (5) 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.

95 X

Drag the "NO_NAME" camera volume into the Trash.

Printing Pictures

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.

- By printer or at a photo lab Pictures can be printed by inserting a memory card containing pictures into a printer or having prints made at a digital photo lab. If a print order has been created, the printer or photo lab must support DPOF. Pictures stored in the camera memory can be printed. They must be copied to the memory card (🗷 84). Copy the pictures before creating a print order.
- By a printer that supports PictBridge (👿 56) Connect the camera to a printer that supports PictBridge to print pictures. Print order data can be used.
- By transferring pictures to a PC and printing them For more information, see the *PictureProject Reference Manual*.



tures marked by 凸 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.







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 e button.

Press ® (the center of the multi selector) to complete print order and display menu of print options.

- To print date of recording on all pictures in print order, highlight **Date** and press [®]. 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.

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

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 (3** 93) 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 Pict-Bridge. 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.



Select **PTP** in the camera USB menu.

• For more information on selecting the **USB** option, see "Viewing Pictures on a Computer" (**¥** 49).

 \square



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.

3

More on Playback



The opening screen and the PictBridge menu is displayed when the camera has recognized the printer.

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	Pictures for which print order has been created are printed accordingly.		



Highlight Print selection.*

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



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



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 6–8 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. PRINT SELECTION

Start print

Back Cancel

@ :Set

007 prints

Printer ready?

10







Display confirmation dialog. Press the multi selector up or down to highlight option, and press \circledast (the center of the multi selector) to select.

- \bullet Select Start print to start printing. To interrupt printing, press \circledast , then turn camera off and disconnect USB cable.
- Select **Back** to return to print selection dialog shown in Step 5.
- Select **Cancel** to exit without printing pictures.
- Select Resume to return to Step 3.

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

To print the current print order:

printing pictures, highlight **Cancel** and press ®.



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



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

- Select **Start print** to start printing. To interrupt printing, press (18), then turn camera off and disconnect USB cable.
- Select **Cancel** to exit without printing pictures.

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

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

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.

Ŋ

DPOF Printing

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

Ø

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.



PictBridge

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

Movies

Recording Movies

Movies can be recorded with sound recorded via the camera's built-in microphone, using the E5600, or silent movies using the E4600:



Movies

Length of movie *1*2 Description Туре Memory Memory card 14 MB 128 MB 256 MB Movies are recorded at a rate of 15 frames TV movie 640 Approx. per second. Vertical interlacing is used to Approx. Approx. achieve a size of 640×480 pixels, suitable 24 s 3 m 40 s 7 m 23 s P. TV for television playback. Small size 320 Movies are recorded at a rate of 15 frames Approx. Approx. Approx. per second. Each frame has a size of 320 x 7 m 21 s 14 m 47 s 49 s 240 pixels. (default option) Movies are recorded at a rate of 15 frames per Approx. Smaller size 160 second. Approx. Approx. 1 h Each frame has a size of 160 × 120 pixels. 3 m 43 s 33 m 7 s P. IP 6 m 34 s Small size allows longer movies to be recorded.

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} Total recording time is shorter with E5600 because movie is recorded with sound.

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**.



Notes on Movies

Depending on the make of memory card used, recording may end before the memory card is full (**1** 109). During recording with E5600, 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**.



Movies

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



Movie Menu Help

Pressing ${\bf Q}~({\bf T})$ button when displaying the MOVIE menu displays the help for the selected item.

Recording Movies

To select a movie mode:



10h 0m 8s

Movies
	<u> </u>
Focus mode	Description
Single AF S-AF	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.

The MOVIE menu also includes the following focus options:

To choose a focus option from the MOVIE menu:



Viewing Movies

In full-screen playback mode (2 22), movies can be played with sound (E5600 only). Movies are indicated by a 2 icon and can be viewed by pressing 3 (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 3 to perform the selected operation.



То	Press	Description	
Rewind		While movie is in progress, use multi selector to select ◀ icon, then press and hold center of multi selector.	
Fast forward	**	Use multi selector to select ► 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 4 II 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.	

Playback Volume (E5600 only)

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



Deleting Movies

To delete a movie, press the \tilde{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

The Shooting Menu

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.	67-68
White balance	Match white balance to your light source.	69
Exp. +/-	Adjust exposure for very bright, very dark, or high- contrast subjects.	71
Continuous	Take pictures one at a time or in a sequence.	72
BSS	Turn the Best Shot Selector (BSS) on or off.	73
Color Options	Choose a standard color, vivid color, black-and-white, sepia, or cyanotype effect for your pictures.	74

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

To display the SHOOTING MENU:



💽 Icon Type Display

Using the **Menus** option of the SET-UP menu switches the menu display between **Text** and **Icons (1**03).



To make a selection from the SHOOTING MENU:



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





Make selection. To exit menu and return to shooting mode, press e button.

(?)

WDI):Exit

Image mode 5M

(?):Back

Set image quality and size.

Shooting Menu Help

Pressing ${\bf Q}({\bf T})$ button when displaying the SHOOTING MENU displays the help for the selected item.



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.

•
500* High(2592 *)
5M Normal(2592)
3M Normal(2048)
PC PC screen(1024)
TV screen(640)
INENU:Exit OK:Set

▲•IMAGE MODE

Option	Size (pixels)	Quality*	Description	Print size (cm)†
50* (2592*) (E5600 only)	2,592 × 1,944	1 · 4	High quality, suitable for enlarge- ments or high-quality prints.	22 × 16.5 (8.6" × 6.5")
(E4600 only)	2,288 × 1,712	1.4		19 × 14 (7.5″ × 5.5″)
5 (2592) (E5600 only)	2,592 × 1,944	1 · 8	Best choice in most situations	22 × 16.5 (8.6″ × 6.5″)
(E4600 only)	2,288 × 1,712			19 × 14 (7.5″ × 5.5″)
EM (2048) (E5600 only)	2,048 × 1,536	Smaller size allows more pictures		17 × 13 (7″ × 5″)
2 (1600) (E4600 only)	1,600 × 1,200	1.0	be stored on memory card.	13 × 10 (5" × 4")
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	Can be displayed full-screen on a television or 13" monitor. Suited to distribution by e-mail or the web.	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 💷 Normal (2592) or 🖾 Normal (2288). Pictures can be reduced or cropped when played back in the monitor after shooting (88 44, 83).

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.

Imaga moda	Memory	Memory card	
inage node	14 MB	128 MB	256 MB
High (2592*) (E5600 only)	Approx. 5	Approx. 49	Approx. 99
High (2288*) (E4600 only)	Approx. 7	Approx. 64	Approx. 129
Normal (2592) (E5600 only)	Approx. 10	Approx. 97	Approx. 195
Normal (2288) (E4600 only)	Approx. 14	Approx. 125	Approx. 252
Normal (2048) (E5600 only)	Approx. 17	Approx. 153	Approx. 308
Normal (1600) (E4600 only)	Approx. 27	Approx. 239	Approx. 482
PC screen (1024)	Approx. 57	Approx. 511	Approx. 1028
TV screen (640)	Approx. 123	Approx. 1096	Approx. 2203

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

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.



White Balance

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



MENU > WB White balance

- 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.

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

The Shooting Menu

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

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 monitor.

			Ŵ
0			
634	4 M 170	ſ	ากก

Éxp. +/-

▶ (MENU) > 😢 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.



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.



The Shooting Menu

At settings other than Single, the flash (W 24) turns off automatically and focus (W 20), exposure (图 71), and auto white balance (图 69) 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 (W 73) is available only at a setting of Single.

Restrictions on Camera Settings

Continuous

⊞ Multi-shot 16

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

	UENU:Exit @K:Set
Option	Description
S Single	Camera takes one picture each time shutter-release button is pressed.
ᄆ Continuous	Camera takes pictures continuously while shutter-release button is held down. Pictures are recorded at a rate of about three frames every two seconds. With E5600, camera records eleven pictures when image mode is set to M Normal (2592). With E4600, camera records eight pictures when image mode is set to M

Normal (2288).

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



LÓI I		Ŵ
9		
60	(\mathfrak{g})	r 101

MENU > Continuous

When shutter-release button is pressed all the way, camera takes sixteen consecutive images at a rate of about four 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 5 Normal (2592) with E5600 and 4 Normal (2288) with E4600.

Best Shot Selector

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) 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
Diff 256	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.



White Balance Ŋ

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

Color Options

Ontion

played in the monitor.

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 dis-

option	Description
🕱 Standard color	Picture appears with natural colors.
_{ଔଏ} Vivid color	Picture appears in sharp colors.
ø Black-and-white	Picture appears in black and white.
တ္ထ _೫ Sepia	Picture appears in sepia tones.
ළු _c Cyanotype	Picture appears with blue cast.

Ø COLOR OPTIONS Standard color vid color \ Black-and-white Secia Vanotivoe MENU: Exit (K):Set Description

â



Color Options Indicator

When an option other than Standard color is chosen, the selected mode indicator is displayed in the monitor. Ćŧ S AUTTO E SM

Color Options

Using the Playback Menu

The PLAYBACK MENU contains the following options:

Option	Description	8
Print set	Select pictures for printing on a DPOF-compatible device; specify number of copies and information to be included on prints.	52-55
Slide show	View pictures in the memory or on the memory card in an automatic slide show.	77
Delete	Delete all or selected pictures.	78-79
Protect	Protect selected pictures from accidental deletion.	80
Transfer marking	Mark all or selected pictures for transfer to a computer; turn auto transfer marking on or off.	81-82
Small pic.	Create small copies of pictures.	83
Сору	Transfer pictures from internal memory to memory card or vice versa. (This option is displayed only when the memory card is inserted.)	84-86

To display the PLAYBACK MENU:



Display the PLAYBACK MENU.

Using the Playback Menu

💽 Icon Type Display

Using the **Menus** option of the SET-UP menu switches the menu display between **Text** and **Icons** (**W** 103).

Print set

💽 Playback Menu Help

Pressing Q(T) button when displaying the PLAYBACK MENU displays the help for the selected item.



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



SLIDE SHOW
Pause→®
Start
Loop
INENU:Exit (K):Set
Highlight Start .





Begin slide show.

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 (1) (the center of the multi selector) to resume show. Highlight End and press (1) 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 (🕑 83) are not displayed during slide shows. Movies are displayed as still images showing the movie's first frame.

Delete

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.

Deleting Selected Pictures





前 ERASE SELECTED IMAGES

Highlight Erase selected images.

iki na

2005.05.01

Highlight picture.

WENU:Back OK:Set



(MENU)) To Delete

Pictures in memory or memory card displayed as thumbnail images.



Select highlighted picture. Selected pictures marked by **m** 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 e button.

Delete

The Playback Menu



Confirmation dialog displayed. Select **Yes** to delete pictures, **No** to exit without deleting pictures.

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, No to exit without deleting pictures.



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** 49-51).



Protected Pictures

Pictures marked with a Om icon are protected and can not be deleted (88 80).

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.

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 ebutton.



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 protect icon appears on all protected pictures.



Transfer Marking

This option is used to mark pictures for transfer to a computer and to turn automatic transfer marking on and off

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

Option

(default option)

Select image(s)

All on

M All off

Some Nikon digital cameras allow you to hide pictures during playback. Hidden pictures can be viewed on the E5600/E4600 but can not be selected for transfer

The M Icon

Pictures that have been selected for transfer are identified by a \mathcal{M} icon.

transfer

on memory card.



15.05.0



Thumbnail playback

When you connect the camera to a computer via the UC-E6 USB cable and press ® (the center of the multi selector) to transfer pictures, only pictures marked with a \mathcal{N} icon will be transferred (W 49).



► ► MENU ► MENU



Transfer Marking

Marking Selected Pictures for Transfer



Highlight Select image(s).



Highlight picture.

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 memory or on memory card displayed as thumbnail images.



Select highlighted picture. Selected pictures marked by 🖍 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 E5600/E4600. Use the E5600/E4600 to reselect the pictures.

▶ MENU ▶ 🔚 Small pic.

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

Option	Size (pixels)	Description
■ 640 × 480	640 × 480	Copy can be displayed full-screen on television or 13" monitor with no drop in quality.
⊡ 320 × 240	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.





Confirmation dialog displayed. Select Yes to create resized copy, No to exit without creating copy.

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). Copies are stored in separate files with names in the form "SSCNnnnn.JPG." "nnnn" is a four-digit number assigned automatically by the camera.

Copies can not be viewed or cropped using playback zoom.

Small Picture

Small pictures can not be created from resized copies or cropped copies.

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

 ${\rm I}\!{\rm th}$ indicates the camera's internal memory and ${\rm [\ref{th}]}$ the memory card.

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



Copying Selected Pictures



3



Highlight $\square \rightarrow []$ (memory \rightarrow memory card) or $[] \rightarrow \square$ (memory card \rightarrow memory), press the multi selector to right.



► ► MENU ► E Copy

Highlight Selected images.



Pictures in memory or on memory card are displayed. (Based on when
→^ is selected in step 1)



The Playback Menu

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, No to exit without copying pictures.

Copying All Pictures

To copy all pictures in the memory or on the memory card:



Highlight (m→) (memory → memory card) or ()→(memory card → memory), press multi selector to right.



Confirmation dialog displayed. Select Yes to copy pictures, No to exit without copying pictures.



Highlight All images.

Copy



Copy A

- 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 (W 109). Delete unwanted pictures or insert a new memory card (if using a memory card) before trying again.
- 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.	90-91		
Monitor settings	Hide or display the monitor indicators and set the monitor brightness.	92		
Date imprint	Imprint pictures with the date and/or time of recording.	93		
Sound settings	Adjust volume of button, shutter and start-up sounds.	94		
Blur warning	Choose whether or not to perform a camera shake check.	95		
Auto off	Choose how long the monitor will remain on before turning off automatically to save power.	96		
Format memory/ card	Format internal memory or memory cards for use in the camera.	97		
Language	Choose a language for camera menus and messages.	99		
Interface	Set USB mode or the video mode.	49, 99		
Auto transfer	Choose whether or not to set Transfer marking option to the picture taken.	100		
Reset all	Restore camera settings to default values.	100		
Battery type	Choose the type of batteries inserted in the camera.	102		
Menus	Choose a type of the camera menu.	103		
Firmware version	Display the current firmware version.	104		





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

Using the Set-up Menu

Icon Type Display

Using **Menus** option of the SET-UP menu switches the menu display between **Text** and **Icons** (**W** 103).



💽 Set-up Menu Help

Pressing $\mathsf{Q}(\mathbf{T})$ button when displaying the SET-UP menu displays the help for the selected item.



The Set-up Menu

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 05 01 3/ Image: Constraint of the second

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.





SET UP

Description

No welcome screen is displayed when camera is turned on.

UP 🕨 🔤 Welcome screen

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.





SET UP Date

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

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 (**14**).

Μ	onit	tor	Sei	ttin	as

This option is used to set the monitor display.

Photo Info

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

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

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 W (the center of the multi selector) to make a selection. To return to the SET-UP menu, press the multi selector to the left.



(K):Set



Show info Hide info Monitor off

(K):Set

SET UP > [C] Monitor settings

PHOTO INFO

Date Imprint

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

Image Mode A

Option

Off

Date

Date and time

DATE

DATE

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

Time and date do not appear on pictures.

tures taken while this option is in effect.

while this option is in effect.



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

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

When shooting with the following, **Date imprint** is automatically canceled.

E5600: X PANORAMA ASSIST (X 40) and Movie (X 60)

E4600: BSS BSS (🕷 73), 🖳 Continuous in the CONTINUOUS menu (🕲 72), 💐 SPORTS and 🔧 SPORTS SPECTATOR in the 💐 (Sports assist) mode (💹 33), PANORAMA ASSIST (**W** 40) and Movie.



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.









Description

Date is imprinted at bottom right corner of all pictures taken

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

Option

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

With E4600, sound settings can only be set **On** or **Off**. Choosing **Off** mutes button, shutter and start-up sounds. Tone and volume cannot be adjusted.

Button sound (E5600 only)	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 O:Set
Shutter sound (E5600 only)	There are three shutter sounds to choose from. Press the multi selector up or down to highlight option, and press (1) (the center of the multi selector) to select.	SHUTTER SOUND 2 3 Off @:Set
Start-up sound (E5600 only)	Adjust volume of sound played when camera is turned on.	 ◆ START-UP SOUND Off ✓ On Ø:Set
Volume (E5600 only)	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

Control the sounds that alert you to camera's

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** (♥ 72) are set, or **BSS BSS** is on (♥ 73).



BUTTON SOUND

Sound settings

Description

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.

Ø 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: 🖳 Continuous (👿 72), 🗒 Multi-shot 16 (👿 72), and BSS BSS (👿 73) modes, as well as 💐 (sports assist) (👿 33) of assist mode, 🏛 MUSEUM (👿 38), 🌸 FIREWORKS SHOW (**1** 38), and **1 PANORAMA ASSIST** (**1** 40) of scene mode.

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



Blur Check

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 **>**.



Blur warning

SET UP

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 (b) Sat
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).	C SLEEP MODE



Description

Auto off

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



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

FORMATTING





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





Format memory

Format card

SET UP



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 E5600/E4600.
- 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 E5600/ E4600.
- 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.
Choose the language for camera menus and messages from **Deutsch** (German), **English**, **Español** (Spanish), **Français** (French), **Italiano** (Italian), **Nederlands** (Dutch), **Svenska** (Swedish), 日本語 (Japanese), 中文(简体) (Simplified Chinese), 中文(繁麗) (Traditional Chinese) or 한글 (Korean).

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.

Video mode

PAL

)	ore INTERFACE]	≏≞V
•	USB 🛹 M		VISC
	Video mode > 📧		PAL
)			
1			
<u>)</u>			
)	00:Set		

DBs	ET UP 🕨 🏊 Interface]
_		
	Press VIDEO MODE	
÷M	NTSC	
ISC	PAL PAL	

00:Set

The Set-up Menu

		0	0	
node option.				
Item	Option	Description		
USB	РТР	Select this option when a connected computer sup Select this option when nection (W 56).	pperating system of the USB ports only PTP (B 49). printing via direct USB con-	
	Mass storage	Select this option when than the above.	connecting via USB other	
	NTSC	Select this option when NTSC devices.	connecting the camera to	

PAL devices.



Select this option when connecting the camera to

Choose whether or not to set Transfer marking option to the picture taken.

When the Auto transfer option is set to On, all pictures taken are set to be transferred and \mathcal{M} icon is added when displayed.

Select this option to restore the settings listed on the next page to their original state.

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

matically when they are taken or recorded.

automatically when they are taken or recorded.

Reset All

Option

₩ On

M Off

C RESETALL

SET UP



Reset all



Description

Select this option to set pictures or movies to be transferred auto-

Select this option to set pictures or movies to not be transferred

The following settings are affected:

Setting	Default
🔮 Portrait assist	Portrait
Landscape assist	Landscape
💐 Sports assist	Sports
🛃 Night portrait assist	Night Portrait
SCENE Scene	PARTY/INDOOR
🐂 Movie	Small size 320, Single AF
Speedlight	\$ AUTO
Self-timer	Off
Macro close-up	Off
Image mode	E5600: Normal (2592), E4600: Normal (2288)
White balance	Auto
Exp. +/-	±0
Continuous	Single
Best Shot Selector	Off
Color options	Standard color
Transfer marking	All on
Welcome screen	Animation
Photo info	Show info
Brightness	3
Date imprint	Off
Button sound (E5600 only)	On
Shutter sound	1 (E5600), On (E4600)
Start-up sound (E5600 only)	On
Volume (E5600 only)	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 (**18** 23) to 0001, select **Reset All** after either deleting all pictures (**18** 79) or formatting the memory card (**18** 97).

SET UP Battery type

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



Option	Description	
Alkaline	Select this option when you have inserted alkaline (AA) batteries.	
COOLPIX (NiMH)	Select this option when you have inserted rechargeable EN-MH1 (AA) nickel-metal hydride batteries.	
Lithium	Select this option when you have inserted lithium (AA) batteries or nickel-manganese batteries.	

Backup Battery Ø

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

Menus	
This option is used to switch the menu display of SHOOTING MENU, PLAYBACK MENU or SET-UP mer Text or Icons .	www.MENUS

LIPMUACORO	Vorcion
FILLIWALE	VEISIUII

SET UP Ver. Firmware version

Select this option to display the current firmware version.



Technical Notes

Optional Accessories

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

Rechargeable battery	Additional EN-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}
Water-proof Case	WP-CP3 ^{*2}

*¹Not available in U.S.

*² Not available in some areas.

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 or over

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

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

Notes on the Monitor

- 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.

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	8
④ (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 distance, then recompose picture.	21
<i>Å</i> ,	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
CONTRACTOR IN CONTRACT. SAME PICTURE? NO Yes (2)-Set	Recorded picture may be blurred.	Select Yes to keep picture, No to delete. Camera shake warning can be hidden.	95
WARNING ! ! PLEASE WAIT FOR THE CAM- ERA TO FINISH RECORDING	Camera turned off or b 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 right to format card, or turn camera off and replace card.	97, 10-11

Technical Notes

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. 	105 -
OUT OF	Camera in shooting mode: Insufficient memory to record pictures at current settings.	 Choose lower image quality/ size. Delete pictures. Insert new memory card. 	67-68 78-79 10
	Camera connected to com- puter: Not enough space on memory card to record infor- mation need for transfer.	Disconnect camera, delete unwanted pictures, and try again.	78-79
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 small picture, or crop options. Image can not be adjusted using D-Lighting. 	 Reformat memory card. Insert new memory card or delete pictures. Copies can not be created from movies or from other copies. Images can only be adjusted using D-Lighting one time. Further adjustments can not be made. 	97 10, 78-79 44,45, 83 46
CANNOT RECORD MOVIE	 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 movies. Insert memory card with faster processing speed. 	97 10, 78-79 61, 105
MEMORY CONTAINS NO IMAGES	No pictures on memory card or in memory.	Press b button to return to	22
ALL IMAGES ARE HIDDEN	No pictures on memory card that can be viewed on E5600/ E4600.	shouling mode.	
FILE CONTAINS	File created by computer or different make of camera.	View file on computer or cor- rect make of camera.	-

Display	Problem	Solution	8
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.	80
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 49-51
	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 values.	49
NO IMAGES ARE MARKED FOR TRANSFER	No pictures selected for transfer when $\textcircled{B}(\swarrow)$ button pressed to transfer pictures to computer.	Disconnect camera and select at least one picture for trans- fer, then begin transfer again.	51, 81-82
TRANSFER ERROR	Error occurred when pictures were transferred to computer.	Check that camera is con- nected and that batteries are fully charged.	12 50
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.	91
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
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 at the time the problem occurred. Data already recorded to the memory or memory card will not be affected.

Problem	Possible cause	S
Monitor is blank	 Camera is off. Batteries are not correctly inserted or battery-chamber cover is not properly latched. 	13 8
	 Batteries are exhausted. EH-62B AC adapter (available separately) is not prop- orly connected. 	12 -
	Camera is in sleep mode. Press shutter-release button halfway.	13
	Monitor is off.	5
	AV/Video cable is connected.	-
Camera turns off without warning	Batteries are low. Batteries are cold.	
No indicators appear in monitor	Indicators are hidden. Select Show info for Photo info option in the Monitor settings menu.	
Monitor is hard to	 Ambient lighting is too bright: move to a darker loca- tion or use viewfinder. 	19
read	 Monitor brightness needs adjustment. Monitor is dirty: clean monitor. 	92 106

Troubleshooting

Problem	Possible cause	X
No picture is taken when shutter- release button is pressed	 Camera is in playback mode. Batteries are exhausted. Red (\$) lamp flickers: flash is charging. Green (AF) lamp flickers: camera unable to focus. Message "CARD IS NOT FORMATTED" appears in monitor: memory card is not formatted for use in your camera. Message "OUT OF MEMORY" appears in monitor: insufficient memory to record picture at current Image mode setting. 	22 12 20 20 10-11, 97 67
Pictures are too dark (underexposed)	 Flash is off. Flash window is blocked. Subject is outside range of flash. Exposure compensation is too low. 	24 18 25 71
Pictures are too bright (overexposed)	• Exposure compensation is too high.	71
Pictures are out of focus	 Subject was not in focus area when shutter-release button was pressed halfway. Green (AF) lamp flickers: camera unable to focus. 	20 20
Pictures are blurred	 Camera shook during shot. Blurring caused by camera shake can be reduced by: Using the flash Using the Best Shot Selector (BSS) Using the self-timer with a tripod 	24 73 26
Randomly-spaced bright pixels ("noise") appear in image	 Shutter speed too slow. Noise can be reduced by: Using the flash Image: Selected (E5600 only) or Image: USK/DAWN or Image: NIGHT LANDSCAPE are selected in Image: (scene) mode. 	34 37
Colors are unnatural	 White balance does not match light source. Color options is not set to Standard color. 	69
Flash does not fire	 Flash is off. Note that flash turns off automatically when; The mode dial is set to ▲ (landscape assist), ২ (sports assist), or [*]√ (movie), or to SSUB (scene) mode with any of ▲ SUNSET, ▲ NIGHT LAND-SCAPE, Ⅲ MUSEUM, ※ FIREWORKS SHOW, or ▲ DUSK/DAWN selected in scene menu. 	24 32, 33, 60, 36-37
Picture can not be played back	• Picture has been overwritten or renamed by computer or other make of camera.	-

Technical Notes

Problem	Possible cause	6
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. 	64 44, 45, 83
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. 	64 83 44
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 Millennium Edition (Me), or Windows 98 Second Edition (SE). Camera is not registered in Device Manager (Windows only). See PictureProject Reference Manual (on CD) for further information. 	12 9, 12 10-11, 50 49

Туре		E5600/E4600 digital camera
Effective pixels		5.1 million (E5600); 4.0 million (E4600)
CCD		E5600 1/2.5" high-density CCD; total pixels: 5.36 million
		E4600 1/2.5" high-density CCD; total pixels: 4.23 million
		2,592 × 1,944 (2592) (E5600 only)
		2,288 × 1,712 (2288) (E4600 only)
		2,048 × 1,536 (2048) (E5600 only)
	image size (pixels)	1,600 × 1,200 (1600) (E4600 only)
		1,024 × 768 (1024)
		640 × 480 (640)
Lens		3 × Zoom Nikkor
		E5600: F=5.7 - 17.1 mm
	Es sel la sette	(35-mm [135] camera-format equivalent: 35 - 105 mm)
	Focal length	E4600: F=5.7 - 17.1 mm
		(35-mm [135] camera-format equivalent: 34 - 102 mm)
	f/-number	f/2.9 - f/4.9
	Construction	Seven elements in six groups
Disital		4 × (35-mm [135] camera-format equivalent:
Digital zoom		420 mm [E5600]/408 mm [E4600])
Autofocus (Al	-)	Contrast-detect through the lens (TTL) AF
	Focus range	30 cm (1') - ∞; macro mode 4 cm/1.6" (M) - ∞
	Focus-area selection	Center with five-area selection in frame assist mode
Viewfinder		Real-image zoom viewfinder with LED indication
	Magnification	0.3 - 0.76 ×
	Frame coverage	Approximately 82% horizontal and 82% vertical
Monitor		1.8", 80,000-dot, amorphous silicon TFT LCD monitor
	Frame coverage (shooting mode)	Approximately 97% horizontal and 97% vertical
Storage Media	a	Internal memory (14 MB)/SD memory cards
	Filo system	Compliant with Design Rule for Camera File System
	File system	(DCF), Exif 2.2, and Digital Print Order Format (DPOF)
	File formats	Compressed: JPEG-baseline-compliant, Movies: QuickTime
Exposure	Metering	256-segment matrix metering linked to AF area
		(when frame is displayed in frame-assisted scene mode)
	Exposure control	Programmed auto exposure with exposure compensation (-2.0 - +2.0 EV in steps of 1/3 EV)
	Range	W: +1.1 - +17.1 EV T: +2.6 - +18.6 EV
Shutter		Mechanical and charge-coupled electronic shutter
	Speed	4 - 1/3,000 s
Aperture		Electronically-controlled preset aperture
	Range	Two steps (f/2.9 and f/4.9 [W])

Sensitivity		Approximately equivalent to ISO 50
Self-timer		Ten-second duration
Built-in	Range (approx.)	W: 0.4 - 3.3 m/1'4" - 10'10" T: 0.4 - 2.0 m/1'4" - 6'7"
Speedlight	Flash control	Sensor flash system
Interface		USB
Video output		Can be selected from NTSC and PAL
I/O terminals		A/V out/digital I/O (E5600); Video out/digital I/O (E4600);
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		E5600: 220 frames (alkaline batteries) 340 frames (EN-MH1) 600 frames (lithium batteries) E4600: 230 frames (alkaline batteries) 360 frames (EN-MH1) 630 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 × 35 mm (3.3" × 2.4" × 1.3")
Approximate weight		130 g (4.6 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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