Nikon

The Nikon Guide to Digital Photography with the

COOLPIX
7900
5900

DIGITAL CAMERA

$C \, \epsilon$

Trademark Information

For Your Safety

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

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

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

WARNINGS

⚠️ **Do not look at the sun through the viewfinder**
Viewing the sun or other strong light source through the viewfinder could cause permanent visual impairment.

⚠️ **Turn off immediately in the event of malfunction**
Should you notice smoke or an unusual smell coming from the camera, battery charger, or AC adapter (available separately), unplug the battery charger or AC adapter and remove the battery immediately, taking care to avoid burns. Continued operation could result in injury. After removing or disconnecting the power source, take the equipment to a Nikon-authorized service representative for inspection.

⚠️ **Do not 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.

⚠️ **Do not place strap around the neck of an infant or child**
Placing the camera strap around the neck of an infant or child could result in strangulation.

⚠️ **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.

⚠️ **Do not disassemble**
Touching the internal parts of the camera or battery charger could result in injury. Repairs should be performed only by qualified technicians. Should the camera or battery charger break open as the result of a fall or other accident, take the product to a Nikon-authorized service representative for inspection after unplugging the product and/or removing the battery.

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

- Do not handle the plug or battery charger with wet hands. Failure to observe this precaution could result in electric shock.

⚠ **Observe proper precautions when handling batteries**

Batteries may leak or explode if improperly handled. Observe the following precautions when handling a battery for use in this product:
- Before replacing the battery, turn the product off and make sure the Power-on Lamp has gone out. If you are using an AC adapter, be sure it is unplugged.
- Before replacing the battery, turn the product off. If you are using an AC adapter, be sure it is unplugged.
- Use only rechargeable Nikon EN-EL5 lithium-ion batteries (supplied) or CP1 lithium batteries (available separately).
- When inserting the battery, do not attempt to insert it upside down or backwards.
- Do not short or disassemble batteries.
- Do not expose batteries to flame or to excessive heat.
- Do not immerse in or expose to water.
- Replace the terminal cover when transporting the battery. Do not transport or store with metal objects such as necklaces or hairpins.
- Batteries are prone to leakage when fully discharged. To avoid damage to the product, be sure to remove the battery when no charge remains.
- Immediately after use, or when the product is used on battery power for an extended period, the battery may become hot. Before removing the battery, turn the camera off and allow the battery to cool.
- Discontinue use immediately should you notice any change in the battery, such as discoloration or deformation.

⚠ **Use appropriate cables, batteries, battery chargers, and AC adapters**

Use only the cables, batteries, battery chargers, and AC adapters provided or sold by Nikon for the purpose, to maintain compliance with product regulations.

⚠ **Removing memory cards**

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

⚠ **Handle moving parts with care**

Be careful that your fingers or other objects are not pinched by the lens or other moving parts.

⚠ **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.

⚠ **Do not fire the unit while the flash head is touching a person or object**

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

⚠ **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.

⚠ **Keep dry**

Do not immerse in or exposure to water. Continuing to use the product under such circumstances may cause fire or an electric shock.

Notices

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

Notice for customers in the U.S.A.

Federal Communications Commission (FCC) Radio Frequency Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/television technician for help.

Nikon E7900/E5900
FC Tested To Comply With FCC Standards
FOR HOME OR OFFICE USE
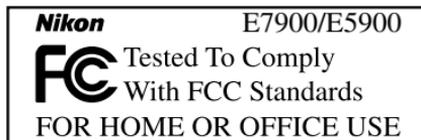
CAUTIONS
Modifications
The FCC requires the user to be notified that any changes or modifications made to this device that are not expressly approved by Nikon Corporation may void the user's authority to operate the equipment.

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

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

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

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

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

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⚠ Use Only Nikon Brand Electronic Accessories

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

THE USE OF NON-NIKON ELECTRONIC ACCESSORIES COULD DAMAGE THE CAMERA AND MAY VOID YOUR NIKON WARRANTY. The use of third-party rechargeable Li-ion batteries not approved by Nikon could interfere with normal operation of the camera or result in the batteries overheating, igniting, rupturing, or leaking.

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

🖉 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.

🔍 Life-Long Learning

As part of Nikon's "Life-Long Learning" commitment to ongoing product support and education, continually-updated information is available on-line at the following sites:
• For users in the U.S.A.: *http://www.nikonusa.com/*
• For users in Europe: *http://www.europe-nikon.com/support*
• For users in Asia, Oceania, the Middle East, and Africa: *http://www.nikon-asia.com/*
Visit these sites to keep up-to-date with the latest product information, tips, answers to frequently-asked questions (FAQs), and general advice on digital imaging and photography. Additional information may be available from the Nikon representative in your area. See the URL below for contact information:

http://nikonimaging.com/

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Introduction

Thank you for your purchase of a Nikon COOLPIX 7900 (E7900)/COOLPIX 5900 (E5900) 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.

Symbols Used in this Manual

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

> **☑** This icon marks cautions, information that should be read before use to prevent damage to your camera.

> **✐** This icon marks notes, information that should be read before using your camera.

> **☉** This icon marks tips, additional information that may be helpful when using your camera.

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

Before You Begin

First Steps

Basic Photography

Scene Mode

More on Photography

Movies

More on Playback

The Shooting Menu

The Playback Menu

The Setup Menu

Technical Notes

1

Before You Begin

Parts of the Camera

Shutter-release Button (⊗7)

Self-timer Lamp (⊗46)/
AF-Assist Illuminator (LED; ⊗24, 138, 148)

Viewfinder

Mode Dial (⊗6)

Power-on Lamp
(⊗14)

Built-in Speedlight
(⊗44)

Power Switch
(⊗14)

Microphone
(⊗62)

Eyelet for
camera strap

Lens
(⊗21)

Memory card
slot Cover
(⊗12)

Power Connector Cover (for
AC adapter kit ⊗137)

Lens not extended

Lens Cover
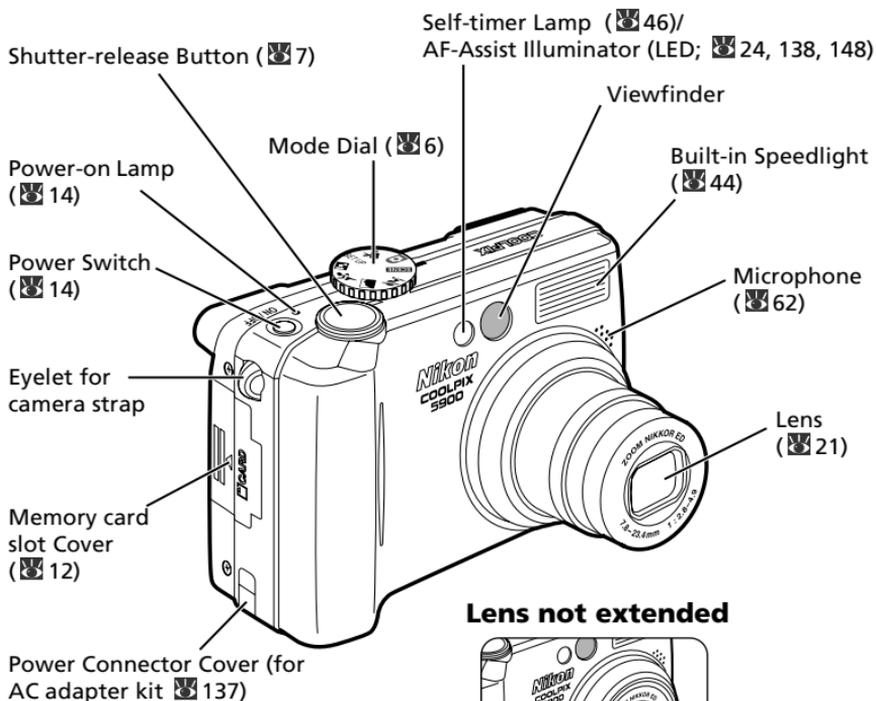
Attaching the Camera Strap

Zoom (▣/❷ᴼ) Buttons (⮕21)

Delete 🗑 Button (⮕26)

Green (AF) Lamp (⮕23)

Red (⚡) Lamp (⮕23)

Speaker

MENU Button (⮕81, 103)

Play ▶ Button

Viewfinder (⮕21)

⊛ (center)/
ↄ (transfer)/
🅱 (D-Lighting) (⮕7, 65)

Multi Selector
(⚡/⟳/♣/☑) (⮕7)

Monitor (⮕4, 5)

Interface connector Cover

Battery-chamber Cover (⮕10)

Tripod Socket (⮕43, 46)

Power Connector Cover (for AC adapter kit ⮕137)

USB (⮕67)/
Audio/Video (A/V) out (⮕64) Connector

Battery Latch (⮕10)

Interface connector Cover

Battery-chamber Cover (⮕10)

3

The Monitor
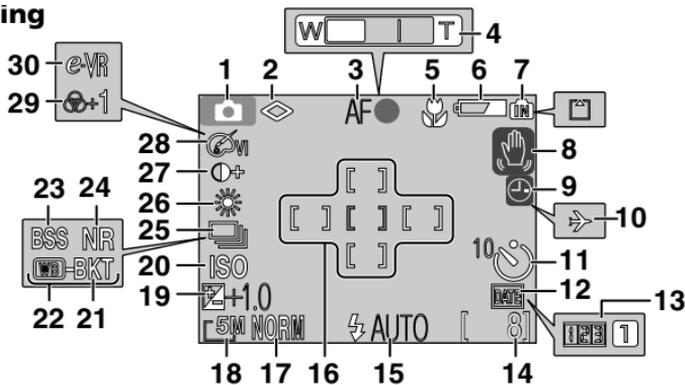
Shooting

Icons displayed vary with camera settings.

1	Shooting mode 19, 28, 53	**20**	Sensitivity (ISO equivalency) . 95
2	Image sharpening 94	**21**	Bracketing[8] 96
3	Focus indicator[1] 23	**22**	White balance bracketing[9] . 96
4	Zoom indicator[2] 21	**23**	Best Shot Selector (BSS) 91
5	Macro close-up mode 48	**24**	Noise reduction 102
6	Battery level indicator[3] 14	**25**	Continuous shooting mode . . . 89
7	Internal memory/memory card indicator 19	**26**	White balance 86
8	Camera shake icon[4] . . 45, 141	**27**	Image adjustment 93
9	"Date not set" icon[5] 18	**28**	Color options. 92
10	Time zone indicator[6] 120	**29**	Saturation control 97
11	Self-timer indicator 46	**30**	Electronic VR 54
12	Date imprint indicator 124		
13	Date counter/ stored date number 125		

1) Appears when the Shutter-release Button is pressed halfway.

2) Appears when the Zoom Buttons are pressed.

3) Appears when the battery is running low.

4) Blinks at slow shutter speeds to warn that pictures may be blurred.

5) Blinks when the camera clock has not been set.

6) Appears when the new city time zone has been set.

7) Displays the focus area when the Shutter-release Button is pressed halfway if **AF area mode** has been set to ▣ **Auto**.

8) Appears when **Auto bracketing** has been set to **On**.

9) Appears when **WB** (white balance) **bracketing** has been set.

14	Number of exposures remaining/ length of movie. . . . 19, 20, 55
15	Flash mode 44
16	Focus area[7] 23, 98
17	Image quality 83
18	Image size. 84
19	Exposure compensation 49

4
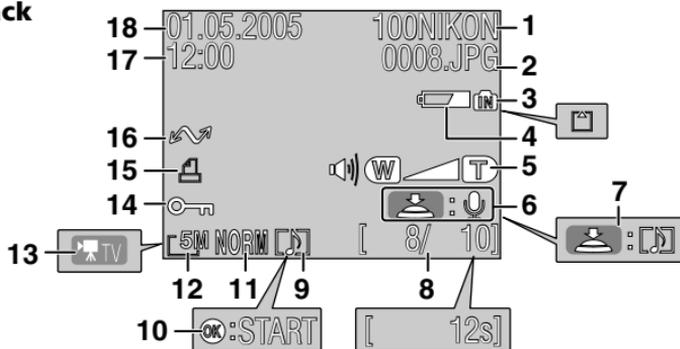
Playback

Icons displayed vary with camera settings.

1	Current folder 27	9	Voice memo icon 62
2	File number and type 27	10	Movie playback icon 56
3	Internal memory/memory card	11	Image quality 83
	indicator 19	12	Image size 84
4	Battery level indicator* 14	13	Movie indicator 55
5	Volume indicator. 127	14	Protect icon 108
6	Voice memo recording guide . . 62	15	Print-order icon 71
7	Voice memo playback guide. . . 62	16	Transfer icon 110
8	Current frame number/total	17	Time of recording 16
	number of frames/length of	18	Date of recording. 16
	movie 25, 55		

* Appears when the battery is running low.

Display in the Monitor
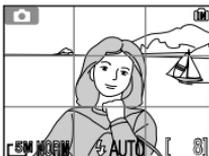
Use **Photo info** in **Monitor settings** of the Set-up menu to switch to display or hide information for shooting or playback (122).

Monitor shows current settings and view through lens

Monitor shows view through lens only

Framing grid
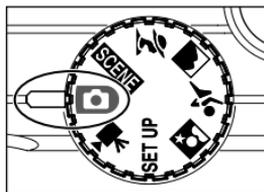

Monitor off

If the battery level indicator appears, the monitor will turn off temporarily while the flash is charging (14, 24).

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The Mode Dial

Using the Mode Dial, you can select from seven Shooting modes and the Set-up mode. Choose a Shooting mode according to shooting conditions.

To select a mode, align the mode icon with the " ⊂⊃ " mark next to the Mode Dial.

Before You Begin

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Navigating the Menus

The Multi Selector is used to navigate through the camera menus.

(Move cursor up.)

(Press ⓞⓚ to make selection.)

(Return to previous menu, or move cursor left.)

Display sub-menu, move cursor right, or make selection.

(Move cursor down.)
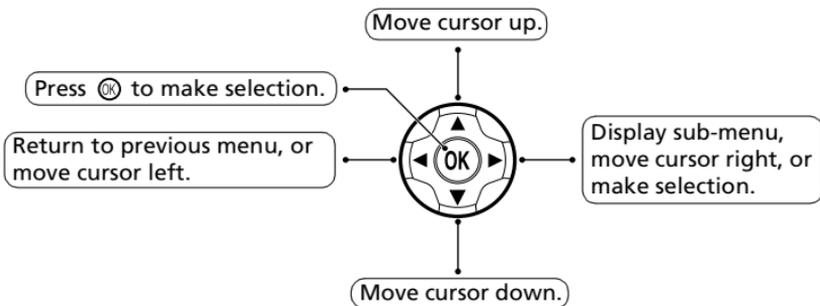
The Shutter-Release Button

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 and the focus indicator in the monitor 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.

Press the button halfway.

Press the button the rest of the way down.

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First Steps
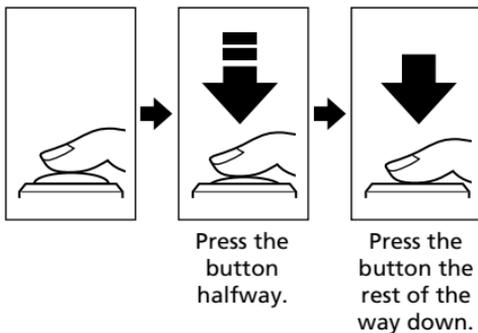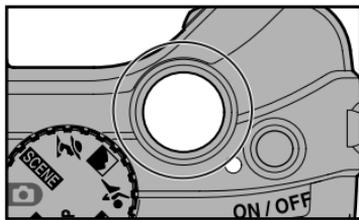
Charging the Battery

The camera uses a rechargeable Nikon EN-EL5 lithium-ion battery (supplied). Charge the battery before first use or when the battery is running low.

1 Connect the power cable

Connect the power cable to the supplied MH-61 battery charger (①) and insert the wall plug into a power outlet (②). The CHARGE lamp will light to show that the charger is on (③).
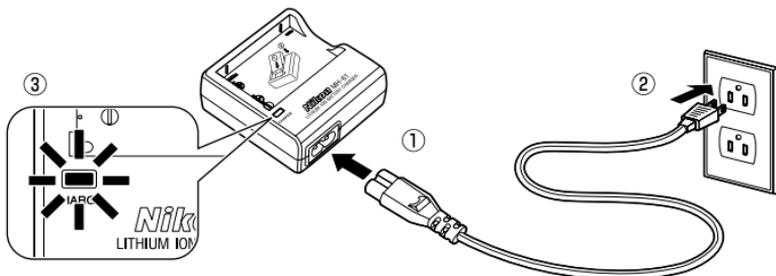
2 Charge the battery

Remove the terminal cover from EN-EL5 and insert the battery into the MH-61, making sure that the small projection on the battery is inserted into the matching pit on the charger.

About two hours are required to charge a fully depleted battery.
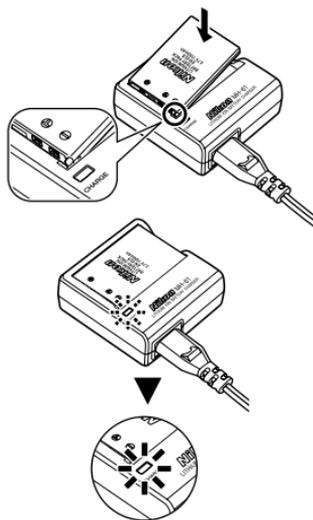
CHARGE lamp	Description
Blinks	Battery charging.
On	Battery fully charged.
Flickers	Battery error. If ambient temperature is not 5–35 °C (41–95 °F), wait until temperature is in this range before charging. Otherwise unplug charger and remove battery immediately and take both devices to retailer or Nikon-authorized service representative.

CHARGE lamp starts blinking when battery is inserted. Charging is complete when lamp stops blinking.

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3 **Unplug the charger**
  Remove the battery and unplug the charger.

✅ The MH-61 Battery Charger

Before using the MH-61, read and follow the warnings and notices on pages i–v of this manual.

The MH-61 is for use with EN-EL5 batteries. Do not use with non-compatible batteries. The supplied power cable is intended solely for use with the MH-61 and is for domestic use only. It may be necessary to purchase another cable for use abroad; consult with a local Nikon-authorized retailer or service representative.

✅ EN-EL5 Batteries

Before using the EN-EL5, read and follow the warnings and notices on pages i–v and 140 of this manual.

Do not use the battery at ambient temperatures below 0 °C (32 °F) or above 40 °C (104 °F). During charging, the temperature should be in the vicinity of 5–35 °C (41–95 °F). Note that the battery may become hot during use; wait for the battery to cool before charging. Failure to observe these precautions could damage the battery, impair its performance, or prevent it from charging normally.

✅ When the Battery Is Not in Use

When the battery is not in use, remove it from the camera or battery charger and replace the terminal cover. The camera and battery charger draw minute amounts of current even when off; if left in place, the battery could be drained to the point that it no longer functions.

🔄 Recycle Used Batteries

Used batteries are a valuable resource. Please recycle used batteries in accordance with local regulations.

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Inserting Batteries

Insert an EN-EL5 battery that has been fully-charged using the supplied MH-61 battery charger into your camera.
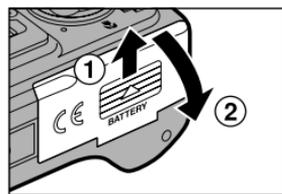
1 **Open the Battery-chamber Cover**
Slide the cover in the direction shown in (①) until it stops and open the cover (②).
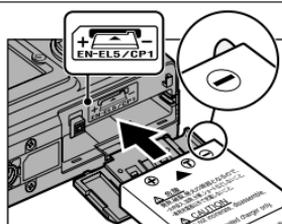
2 **Insert the battery**
Insert the battery as shown in the label at the entrance to the battery chamber, making sure the positive "+" and negative "−" terminals are in the correct orientation. The small projection on the battery is on the same side as the negative terminal.

⚠ Inserting Batteries

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

The orange battery latch is pushed aside as the battery is inserted. The latch will close when the battery is fully inserted.

Battery Latch

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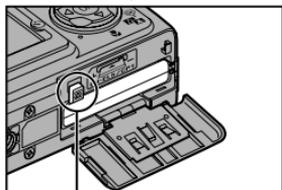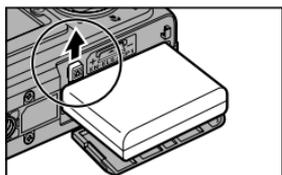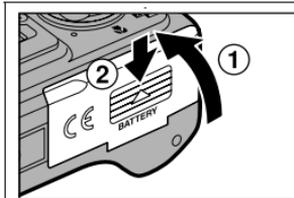
3 **Close the Battery-chamber Cover**
Close the cover (①) and slide it in until it latches (②).
Ensure the cover is closed firmly.

☑ Replacing Batteries

Turn the camera off and make sure that the Power-on Lamp has gone out before opening the Battery-chamber Cover.
Slide the Battery Latch in the direction indicated to eject the battery, which can then be removed using your fingers.

• Note that the battery may become hot during use. Observe due caution when removing the battery.
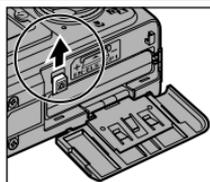
🔍 CP1

Your camera also uses a non-rechargeable CP1 lithium batteries (×1).
Make sure the orientation and the positive/negative terminals are correct, and then insert the battery in the same way as EN-EL5.

Terminals
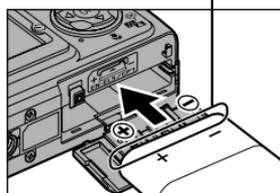
🔍 Alternative Power Sources

To power the camera continuously for extended periods, use an optional EH-62A AC adapter. **Do not, under any circumstances, use another make or model of AC adapter kit.** Failure to observe this precaution could result in overheating or in damage to the camera.

For more information on attaching instructions for EH-62A AC adapter kit, see "Connecting the EH-62A AC Adapter Kit" (🔆 137).

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Inserting Memory Cards

Pictures can be stored in the camera's internal memory (about 13.5 MB) or on Secure Digital (SD) memory card. If no memory card has been inserted in the camera, pictures will be stored in the camera's internal 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.
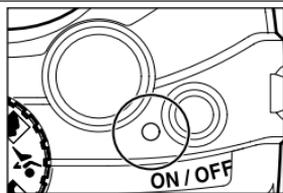
1 **Confirm that the camera is off**
The Power-on Lamp should be off.
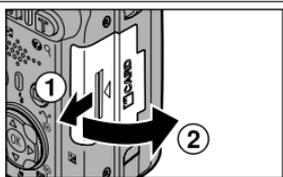
2 **Open the Memory card slot Cover**
Slide the cover in the direction shown in (①) until it stops, and the cover will open automatically (②).
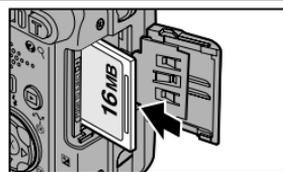
3 **Insert the memory card**
Insert the memory card in the direction of the arrow shown on the label at the entrance to the memory card slot until it stops.

Direction of insertion

Terminals

Front

Inserting Memory Cards

Insert the memory card terminals first. Inserting the card upside down or backwards could damage the camera or the card. Check to be sure the card is in the correct orientation.
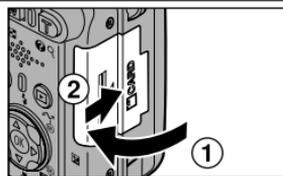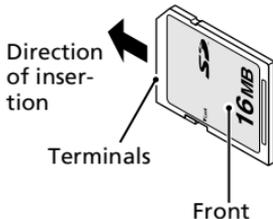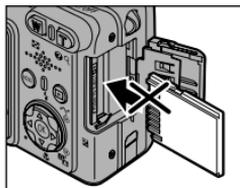
4 **Close the Memory card slot Cover**
Close the cover (①) and slide it until it latches (②).
Ensure the cover is closed firmly.

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✐ The Write Protect Switch

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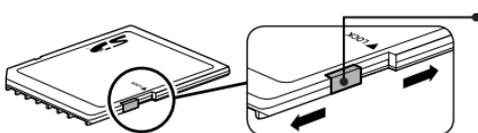
Write protect switch

When the memory card is locked, pictures can be played back but can not be recorded, deleted, edited, or transferred using the ⓒⓚ (⌒✔) Button on the camera, and the card can not be formatted.

✐ Formatting Memory Cards

When using the memory cards formatted by the device other than E7900/E5900, format them using the E7900/E5900 before first use. For information on formatting memory cards, see Format Memory/Card (🔲 130) in the Set-up menu.

✐ Removing Memory Cards

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

• Memory cards may become hot during use; observe due caution when removing memory cards.
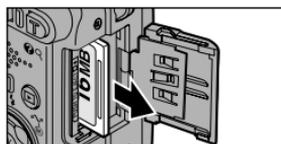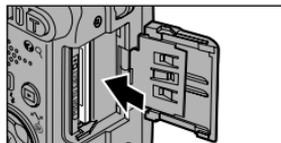
✐ Memory Cards

• 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.

Checking the Battery Level
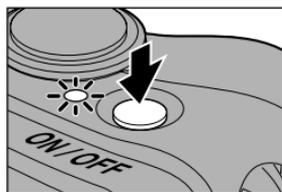
1 **Turn the camera on**
   • Press the Power Switch.
   • The Power-on Lamp lights when the camera is on.
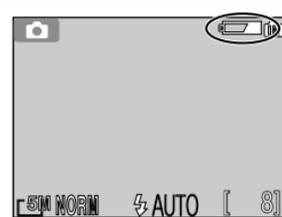
2 **Check the battery level in the monitor**
   When the camera is turned on for the first time, a language-selection dialog will be displayed. Choose the desired language and press ⓞ. See "Basic Setup" (💾 16).

Battery Level

Display	Meaning
NO ICON	Battery fully charged.
▭ (lights)	Low battery. If flash fires, monitor turns off while Speedlight recharges.
WARNING!! BATTERY EXHAUSTED	Battery exhausted. Replace with new or fully charged battery.

The Red (⚡) and Green (AF) Lamps will blink when the "WARNING!! BATTERY EXHAUSTED" warning is displayed.

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⚠ Turning the Camera Off

To turn the camera off when the Power-on Lamp is lit, press the Power Switch.
• Do not remove the battery or disconnect the EH-62A AC adapter kit (optional) until the power-on lamp has gone out.

🔍 The ▶ Button

The camera can also be turned on by pressing the ▶ Button for about two seconds. The monitor will show full-screen playback (🖥 57).

🔍 The Power-On Lamp

The power-on lamp indicates the following:

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 battery. 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 power 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 the MENU 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 (🖥 129). However, when a menu is displayed, the monitor will turn off after three minutes, and when pictures are being shown in a slide show (🖥 105) or when the camera is powered by an AC adapter kit, the monitor will turn off after thirty minutes.
When connecting the camera to a computer or printer with a USB cable, Auto power off function does not work.

🔍 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** option has elapsed (🖥 129).

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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.

1

Deutsch	Svenska
✓English	日本語
Español	中文(简体)
Français	中文(繁體)
Italiano	한글
Nederlands	

MENU Cancel ⓄK Confirm

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

2

🕐 DATE

Set time and date?

No
Yes

ⓄK Confirm

Confirmation dialog displayed. Highlight **Yes**.

3

🕐 TIME ZONE

⦿ ᴼᴷ ⌂ London, Casablanca ▶
☐ DaylightSaving

ⓄK Confirm

Time zone menu displayed.*

* To turn daylight saving time on or off, press ▼ to highlight **DaylightSaving** and press ⓄK. When **DaylightSaving** is checked, time will automatically be advanced one hour (🖥121). To return to Step 3, press ▲ to highlight current time zone.

4

🕐 HOME TIME ZONE

⌂ London, Casablanca ◀▶

MENU Back ⓄK Confirm

Display map of world time zones.

5

🕐 HOME TIME ZONE

⌂ London, Casablanca ◀▶

MENU Back ⓄK Confirm

Select home time zone.

6	⊕ DATE D M Y [01] ▸ 01 . 2005 00 : 00
Display date menu.	

7	⊕ DATE D M Y [01] ▸ 01 . 2005 00 : 00
Edit **D**ay (order of **D**ay, **M**onth, and **Y**ear may differ in some areas).	

8	⊕ DATE D M Y 01 ◂ [01] ▸ 2005 00 : 00
Select **M**onth. Repeat steps 7 - 8 to edit **M**onth, **Y**ear, hour, and minute.	

9	⊕ DATE D M Y 01 03 . 2005 10 : 00 ⊛ Confirm
Highlight **D M Y**.	

10	⊕ DATE M D Y 03 01 . 2005 10 : 00 ⊛ Confirm
Choose order in which **D**ay, **M**onth, and **Y**ear will be displayed.	

11	◻ 🔳 ╭5M NORM ⚡AUTO [10]
Exit to mode currently selected with the Mode Dial. Note that time and date of recording will not be imprinted on pictures unless **Date** or **Date and time** is selected for **Date imprint** (🖼124).	

First Steps

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🖊 Date not Set

If you exit without setting time and date, the ⊕ ("date not set") icon will flash in the monitor when the camera is in shooting mode and all pictures will have time stamp of "0000.00.00 00:00" (still images) or "2005.01.01 00:00" (movies).

🖊 The Clock Battery

When the main battery is installed or the camera is powered by an EH-62A AC adapter (optional), the clock battery will charge in about ten hours. When fully charged, the clock battery can provide a few days of back-up power.

🖊 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.

🖊 Time Zones

The local time or daylight saving time can be set when traveling abroad. See **Date** (🖾 120) in the Set-up menu for details.

🔍 Setting the Clock from PictureProject (Windows XP/Mac OS X Only)

If the camera is connected with the **USB** option set to **PTP** (🖾 65) in the **Interface** menu of the Set-up menu, PictureProject (provided) can be used to set the camera clock to the same time and date as the computer. See the *PictureProject Reference Manual* (on CD) for details.

Basic Photography

Step 1–Select ☐ Mode

This section details the basic steps involved in taking pictures in ☐ (Auto shooting 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.
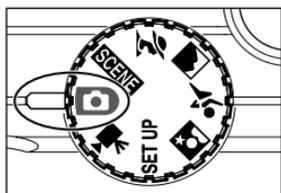
1 Rotate the Mode Dial to ☐
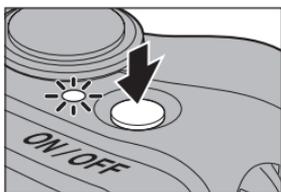
2 Turn the camera on
The Power-on Lamp will light and the monitor will display a welcome screen (🖬 118). The camera is ready to shoot when the monitor shows the view through the camera lens.

Shooting mode
☐ indicates Auto shooting mode.

Internal memory/memory card
When the camera contains a memory card, ☐ is displayed, and when there is no memory card in the camera, ⓜ is displayed.

Image size
Choose from five options depending on how you plan to use the picture (🖬 84). The default setting is E7900: **7M (3072 × 2304)**, E5900: **5M (2592 × 1944)**.

Number of exposures remaining
The number of pictures that can be stored on the internal memory or a memory card depends on the capacity of the memory or memory card and the option chosen for **Image mode** (**Image quality** and **Image size**) (🖬 85).

Image quality
Choose from three options depending on how you plan to use the picture (🖬 83). The default setting is **NORMAL**.

Flash mode
Choose from five modes depending on lighting and your creative intent (🖬 44).

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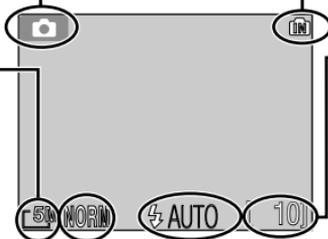
🖉 **Number of Exposures Remaining**

If the number of exposures remaining is zero, the message "OUT OF MEMORY" will be displayed in the monitor and no further pictures can be taken until you:
- Choose a lower image quality or image size setting (🕮 83) (depending on the condition, no further pictures may be taken even if you change the setting).
- Insert a new memory card (🕮 12).
- Remove the memory card so that pictures will be recorded in the internal memory (🕮 13) (pictures can be taken only when the internal memory has space).
- Delete some pictures in the internal memory or on a memory card.

🔍 **Available Functions in Auto Shooting Mode**

In ⦿ (Auto shooting) mode, the Flash (🕮 44), Self-timer (🕮 46), Macro close-up (🕮 48), and Exposure compensation (🕮 49) can be set. Also, ⦿ (Auto shooting) mode provides fourteen shooting menu options such as **White balance**, **Image sharpening** and **Continuous**. See "Using the Shooting Menu" (🕮 80).

Step 2–Frame the Picture
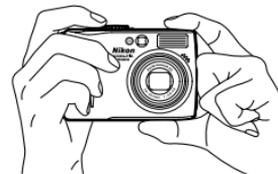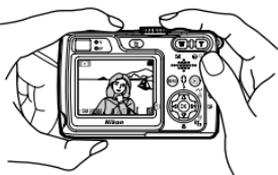
1 Ready the camera

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, AF-assist Illuminator, and microphone.

Zoom out   Zoom in

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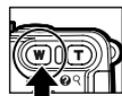
Digital zoom

2 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 ×, and digital zoom, in which digital processing is used to further magnify the image up to 4 ×, for a total of 12 ×. 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 more than two seconds 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 ▣▣ (**W**) Buttons to adjust zoom in the digital zoom range. To cancel digital zoom, press ▣▣ (**W**) until the zoom indicator turns white.

🖉 Digital Zoom

- In digital zoom, data from the camera's image sensor are processed digitally, enlarging the center area 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 an assist mode (except for **SPORTS** and **SPORTS SPECTATOR**) is selected, or when **5 shot buffer** (🖪 89) is set in the Shooting menu.
- When digital zoom is working, the focus area is fixed in the center of the frame (🖪 98).
- When digital zoom is working, **Metering** is set to just like **Center-weighted** (🖪 88).

🖉 When Lighting Is Poor

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

🔍 Monitor or Viewfinder?

- *Use the monitor* to confirm camera settings at a glance while at the same time viewing an image that shows how the final picture will appear. This is particularly useful when the image in the viewfinder does not accurately reflect what will appear in the final picture, for example when:
  – your subject is less than 1.5 meters (4'11") from the camera
  – digital zoom is in effect
- *Use the viewfinder* when you want to save power by turning the monitor off (🖪 122), or when bright ambient lighting makes it difficult to see the display in the monitor.
- When taking pictures continuously using the sports assist or continuous option, etc., they are displayed on the monitor later than actual shooting. We recommend you to take pictures continuously using the viewfinder.

Basic Photography

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Step 3–Focus and Shoot

1 **Focus**
Press the Shutter-release Button halfway to set focus and exposure.

- Focus and exposure will lock while the Shutter-release Button is pressed halfway (🐼 7).
- In 🔲 mode, the camera automatically selects focus area containing the subject closest to camera from five focus areas (default setting in auto shooting mode).
- When subject is in focus, the selected AF area turns green.

When the Shutter-release Button is pressed halfway, the Green AF (Autofocus) Lamp and the Red 🔆 (flash-ready) Lamp are shown as follows.

Focus area
Red (🔆) Lamp

Green (AF) Lamp
Focus indicator

Red (🔆) Lamp	
On	Flash will fire when picture is taken.
Blinks	Flash charging.
Off	Flash off or not required.

Green (AF) Lamp/ focus area and focus indicator	
On green/ green	Subject in focus.
Blinks green/ red	Camera unable to focus on subject. Recompose the picture and try again.

2 **Take the picture**
- *Press the Shutter-release Button the rest of the way down* to take the picture.
- To prevent blur, press the Shutter-release Button down smoothly.

Basic Photography

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⚠ During Recording

- While pictures are being recorded to the memory or memory card, the Green (AF) Lamp will blink, and at the same time, a ⏳ (wait) icon will be displayed in the monitor or the memory icon (📷 or 🗎) will blink. *Do not turn the camera off, eject the memory card, or remove or disconnect the power source while pictures are being recorded.* Cutting power or removing the memory card in these circumstances could result in loss of data or in damage to the camera, internal memory, or card.

✐ 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).

✐ Sensitivity (ISO Equivalency)

Sensitivity is a measure of how sensitive the camera responds to light. Your Nikon digital camera normally has a sensitivity roughly equivalent to film with an ISO 50 (E7900) or ISO 64 (E5900) rating. When lighting is poor and **Sensitivity** (🖂95) is **Auto**, 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.
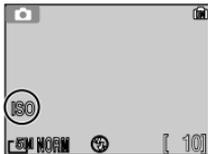
✐ Low Battery

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

🔍 AF-Assist Illuminator

E7900/E5900 is equipped with an AF-assist Illuminator. If lighting is poor, the built-in AF-assist Illuminator will light when the Shutter-release Button is pressed halfway, allowing the camera to focus even when the subject is poorly lit. For more information on AF-assist Illuminator, see "AF Assist" in the Set-up menu (🖂126).

🔍 Autofocus

The E7900/E5900 has two modes that allow control of the Autofocus; **AF area mode** (🖂98) and **Auto-focus mode** (🖂101).

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Step 4–View the Results (Full-screen Playback)
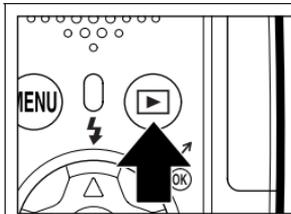
1 Press the ▶ Button

2 View pictures in the monitor
- This mode is called "Full-screen playback."
- To view additional pictures, press ▼ or ▶ to view pictures in the order recorded, ▲ or ◀ to view pictures in reverse order.

To cancel Full-screen playback and return to the Auto shooting mode, press the ▶ Button again.

01.03.2005 100NIKON
12:00   0002.JPG

Basic Photography

Playback Tip

Pictures are displayed briefly at low resolution while being read from the memory or a memory card. This makes it possible to scroll rapidly through the pictures in the memory or a memory card without waiting for each image to be displayed at full resolution.

The ▶ Button

Pressing the ▶ Button for about two seconds will turn the camera on. Press again to return to the mode selected with the Mode Dial.

More About Playback

For more information on playback, see "More on Playback" (🖪57 - 79).

Deleting Unwanted Pictures

To delete the picture currently displayed in the monitor:

1		**2**	
	🗑 Erase 1 image(s)? No **Yes** ⊛ Confirm		🗑 Erase 1 image(s)? No **Yes** ⊛ Confirm
A confirmation dialog displayed.		Highlight **Yes**. • To exit without deleting picture, highlight **No** and press ⊛.	
3		Delete picture and return to playback.	
	Done 🗑		
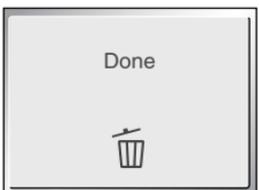
🔍 Deleting Your Last Shot

At any time during shooting, you can press the 🗑 Button to delete the last picture taken. The confirmation dialog will be displayed. Press ▲ or ▼ to highlight **Yes** or **No**, and press ⊛.

🗑 Erase 1 image(s)?

No
Yes
⊛ Confirm

▶

Done

🗑

🔍 Image File and Folder Names

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

Picture type		Identifier	Extension	👋
Original	Still picture	DSCN	.JPG	25
	Movie	DSCN	.MOV	55
Copy	Copy created using **Small pic.**	SSCN	.JPG	112
	Cropped copy	RSCN	.JPG	60
	Copy created using D-Lighting	FSCN	.JPG	61
Audio file	Voice memo (appended to original still)	DSCN	.WAV	62
	Voice memo (appended to cropped copy)	RSCN	.WAV	62
	Voice memo (appended to Small pic. copy)	SSCN	.WAV	62
	Voice memo (appended to D-Lighting copy)	FSCN	.WAV	62

- Pictures are stored in a folder created automatically by the camera. The folder name includes a three-digit folder number (e.g., 100NIKON).
- Folders can hold up to 200 pictures; if a picture is taken when the current folder contains 200 pictures, a new folder will be created by adding one to the largest folder number (e.g., 100NIKON → 101NIKON).
- Each time you take pictures in Panorama assist mode, a "P_xxx" folder (e.g., "101P_001") is automatically created, and a series of pictures starting with "DSCN0001" are stored in the folder.
- When you take pictures after switching the mode from Panorama assist mode, newly taken pictures are stored in the largest numbered folder except the Panorama assist folder.
- 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 file number reaches 200 or picture number reaches 9999 when the memory or the memory card contains a folder numbered 999, no further pictures can be taken, even if there is still memory capacity. Replace the memory card, or transfer all pictures to a computer (🖥65) and then format the memory or the memory card (🖥130).
- When the ▶ Button is pressed in Shooting mode except the Panorama assist mode, the picture with the largest number stored in the largest numbered folder except the Panorama assist folder is displayed.
- When the ▶ Button is pressed in Panorama assist mode, the picture with the largest number stored in the largest numbered folder of the Panorama assist folder is displayed.

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Assist and Scene Modes

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	🔾
泫 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 skyscapes, forests, and other landscape shots, or to take portraits that feature a landmark in the background.	33
🏃 Sports assist	Use for sports shots that freeze motion in rapidly-moving subjects.	34
🌃 Night portrait assist	Use for portraits taken against a dimly-lit backdrop.	35

Scene Modes

Scene modes are selected by rotating the Mode Dial to **SCENE** and pressing the **MENU** Button.

Mode	Description	🔾
🎉 PARTY/INDOOR	Use to capture background details or the effects of candlelight and other indoor lighting.	37
🏖 BEACH/SNOW	Use for bright subjects such as snowfields, beaches, and sunlit expanses of water.	37
🌅 SUNSET	Use to preserve the deep hues seen in sunsets and sunrises.	37
🌆 DUSK/DAWN	Use to preserve the colors seen in the weak natural light before sunrise and after sunset.	38
🌃 NIGHT LAND-SCAPE	Use when taking landscape shots at night.	38
🌷 CLOSE UP	Use to capture vivid colors in close-up shots of flowers, insects, and other small objects.	39
🏛 MUSEUM	Use where flash photography is prohibited.	39
🎆 FIREWORKS SHOW	Use to capture the expanding burst of light from a firework.	40
❏ COPY	Use to copy text and line drawings.	40
🌅 BACK LIGHT	Use when light is coming from behind your subject, throwing their features into shadow.	40
⊐ PANORAMA ASSIST	Use when taking a series of pictures that will later be joined to form a single scene.	41
🐠 UNDERWATER	Use when taking underwater photographs using the water-proof case (WP-CP4).	41

🖉 Assist and Scene Modes

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

🔍 Assist and Scene Modes Help

When the assist or scene menu is displayed, pressing ❷९ (**T**) Button displays the help for the selected assist or scene.
- Pressing ▲ or ▼ displays the help for another assist or scene.
- To select the assist or scene while its help is displayed, press ⓞⓚ. The camera will return to Shooting mode.
- To return to the Assist or Scene menu, press ❷९ (**T**) Button.
- To return to the Shooting mode without selecting the assist or scene, press MENU Button.

```
🌆 \              PORTRAIT
🌄  Use for portrait
    pictures, create soft
skin tone effects.

MENU Exit   OK Confirm  ? Back
```

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.
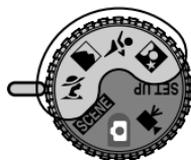
Assist modes

1

Display Framing assist menu.

PORTRAIT
MENU Exit (OK) Confirm (?) Help

2

Choose composition type. Current selection highlighted and caption displayed.

PORTRAIT CLOSE-UP
MENU Exit (OK) Confirm (?) Help

3

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

4

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

✐ Using the Guides

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

🔍 Image Quality and Image Size

It is possible to change **Image quality** (🖐 83) and **Image size** (🖐 84) from this menu. Select an icon of **Image quality** or **Image size** shown on the right, and press 🆗 to change them.

Image quality (▥) Image size (▦)

Portrait Assist

(Portrait assist) mode helps you frame portraits in which the main subject stands out clearly while background details are softened. This lends 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.

Rotate the Mode Dial to and press the MENU Button (30).
The following Portrait assist modes are available:

PORTRAIT
No guides are displayed in monitor. Camera focuses on subject in the center of frame.
• Focus lock can be used to focus on off-center subjects (99).

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.

PORTRAIT CLOSE-UP
Use to compose shot with your subject's face positioned in top half of frame.
• Camera will focus on subject in framing guide.

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

Scene Mode

⬚ 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 subject in framing guide.

⬚ FACE-PRIORITY AF

AF area

This function is optimum for photographing portraits (from the
waist up) of up to three people. When the camera recognizes
human faces, the square focus area is displayed and the subject is
in focus.

• When the Shutter-release Button is pressed halfway, focus area
is locked and the camera focuses.

↯	↯ ⊚ (changeable)	⟳	**OFF** (changeable)	❀	**OFF**
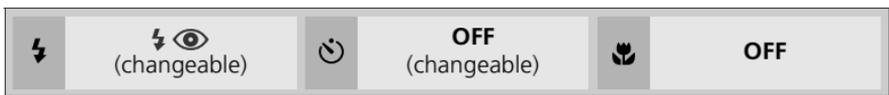
🔍 Face-Priority AF

• When photographing two or three people, the subject closest to the camera is in focus and the
focus area turns red. The face selected for focusing by the camera varies depending upon a num-
ber of conditions including the direction in which each person is facing.
• The camera focuses continuously, until the camera recognizes the face of subjects.
• When the camera do not recognize the face, the subject at the center of the frame is focused.
• The camera is unable to recognize human faces in the following situations:
  - The subject is wearing sunglasses or part of face is in some other way obstructed.
  - The face portion is too big because the subject is too close to the camera.
  - The face portion is too small because the subject is too far away from the camera.

🔍 Settings for Assist Modes

The settings for ↯ Flash, ⟳ Self-timer, ❀ Macro close-up in Portrait assist, Landscape
assist, Sports assist, and Night portrait assist modes are shown on the table respectively.

![Landscape icon] Landscape Assist

![Landscape icon] (Landscape assist) mode helps you frame vivid landscape shots that enhance outlines, colors, and contrast. GROUP RIGHT or GROUP LEFT helps you frame portrait shots featuring a landmark in the background.

Rotate the Mode Dial to ![icon] and press the **MENU** Button (🖼 30).

The following Landscape assist modes are available:

![icon] LANDSCAPE

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

• Focus is fixed at infinity.

![icon] 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.

![icon] ARCHITECTURE

Use to photograph buildings.

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

![icon] GROUP RIGHT

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

• Portrait subject will be in focus.

![icon] GROUP LEFT

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

• Portrait subject will be in focus.

![flash icon]	⊕*	![timer icon]	**OFF** (changeable)	![macro icon]	**OFF**

* When you select **GROUP RIGHT** or **GROUP LEFT**, Flash mode is set to ⚡AUTO (changeable).

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⚡ Sports Assist

⚡ (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.

Rotate the Mode Dial to ⚡ and press the MENU Button (📷 30).

The following Sports assist modes are available:

⚡ SPORTS

While Shutter-release Button is held down, pictures are recorded at rate of up to about 1.7 frames per second (E7900)/2 frames per second (E5900). With E7900, camera takes about 29 shots in a series when **Image quality** is **NORMAL** and **Image size** is **7M** (3072 × 2304). With E5900, camera takes about 9 shots in a series when **Image quality** is **NORMAL** and **Image size** is **5M** (2592 × 1944).

• Focus, exposure, and white balance are determined by first shot in each series.

⚡ SPORT SPECTATOR

Sport spectator is ideal for capturing those instants when you have no time to compose the picture. Use at ranges of about 4 m - ∞.

• While Shutter-release Button is held down, pictures are recorded at rate of up to about 1.7 frames per second (E7900)/2 frames per second (E5900). Number of shots that can be taken is the same as for ⚡ (Sports) mode.

⊞ SPORT COMPOSITE

Each time Shutter-release Button is pressed, camera takes sixteen consecutive shots in about 2 seconds. Camera arranges pictures in four rows (one shot: 400 × 300) to form a single picture (**2M**: 1600 × 1400). Focus, exposure, and white balance are determined by first shot in each series.

🔆	🚫	⏱	OFF	🌷	OFF

📖 Sports Assist

In ⚡ (Sports) or ⊞ (Sport composite) mode, **Auto-focus mode** is locked to CAF **Continuous AF** (📷 101) and focus area is locked in the center of the frame. The camera focuses continuously, until AF lock is set by pressing the Shutter-release Button halfway.

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![icon] Night Portrait Assist

![icon] (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. A framing menu helps you frame off-center subjects and compose your shots. Pictures taken at slow shutter speeds are adjusted to improve quality, slightly increasing processing time.

- Functions for Night portrait assist mode are the same as for Portrait mode (![icon]31), but **FACE-PRIORITY AF** is not available.
- To prevent blurring, mount the camera on a tripod or rest it on a flat, stable surface.
- Noise reduction turns on automatically at slow shutter speeds (![icon]102). It takes more time than usual to store the picture.

![flash icon]	Fires for every shooting using the red-eye reduction and slow sync functions.	![timer icon]	**OFF** (changeable)	![macro icon]	**OFF**

SCENE **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:
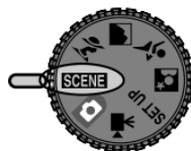
Scene mode

1 Display Scene menu.	**SCENE PARTY/INDOOR** MENU Exit OK Confirm ? Help	**2** Choose scene. Current selection highlighted and caption displayed.	**SCENE BEACH/SNOW** MENU Exit OK Confirm ? Help

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

Image Quality and Image Size

It is possible to change **Image quality** (🖥83) and **Image size** (🖥84) from this menu. Select an icon of **Image quality** or **Image size** shown on the right, and press ⓞ to change them.

Image quality (📑)   Image size (🏢)

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The following scenes are available:

PARTY/INDOOR
Use for shots that include details of the background, or to capture the effects of candlelight and other indoor background lighting.
•Blur level: ★

| ⚡ | ⚡👁 (changeable) | ⏱ | **OFF** (changeable) | 🌷 | **OFF** | 📷 | [■] |

BEACH/SNOW
Vividly captures the brightness of such subjects as snow-fields, beaches, or sunlit expanses of water.

| ⚡ | ⚡AUTO (changeable) | ⏱ | **OFF** (changeable) | 🌷 | **OFF** | 📷 | [■] |

SUNSET
Preserves the deep hues seen in sunsets and sunrises.
•Blur level: ★

| ⚡ | ⚡ (changeable) | ⏱ | **OFF** (changeable) | 🌷 | **OFF** | 📷 | [■] |

Settings for Scene Modes

- ⚡, ⏱, and 🌷 indicate Flash, Self-timer, and Macro close-up respectively.
- 📷 indicates that **Metering** is 📷 **Matrix** (88).
- [■] indicates **AF area mode** is set to [■] **Off** (98). Center focus area is used. AF lock can be used to take pictures of off-center subjects (99).

The 📳 (Camera Shake) Icon

When the 📳 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 the camera in both hands and brace elbows against your body
- ★ ★ use a tripod or rest the camera on a flat, level surface.

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

- Camera focuses at infinity.
- Noise reduction turns on automatically at slow shutter speeds. It takes more time than usual to store the picture.
- An AF-assist illuminator does not light even if for a dark subject.
- Blur level: ★

𝟒	⌀	⟳	**OFF** (changeable)	⚘	**OFF**	▣	[▪]

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

- Focus is fixed at infinity. Focus indicator lights whenever Shutter-release Button is pressed halfway.
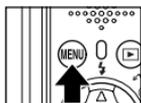- Noise reduction turns on automatically at slow shutter speeds. It takes more time than usual to store the picture.
- An AF-assist illuminator does not light even if for a dark subject.
- Blur level: ★ ★

𝟒	⌀	⟳	**OFF** (changeable)	⚘	**OFF**	▣	–

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❀❀ CLOSE UP
Use to capture vivid colors in close-up shots of flowers, insects, and other small objects, with the background artistically blurred.

- 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.
- Minimum focus distance varies with zoom position.
- The camera focuses continuously, until AF lock is set by pressing the Shutter-release Button halfway.
- Blur level: ★

🔆	✦ AUTO (changeable)	⟳	OFF (changeable)	❀	ON	🎯	[▪]

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

- The Best Shot Selector (BSS; 🗒91) turns on automatically, reducing the effects of inadvertent camera movement.
- Photography may be prohibited altogether in some locations. Be sure to obtain permission first.
- An AF-assist illuminator does not light even if for a dark subject.
- Blur level: ★

🔆	🚫	⟳	OFF (changeable)	❀	OFF (changeable)	🎯	[▪]

Scene Mode

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☀ FIREWORKS SHOW
Slow shutter speeds are used to capture the burst of light from a firework.

- Focus is fixed at infinity. Focus indicator lights whenever Shutter-release Button is pressed halfway.
- Exposure compensation can not be used.
- An AF-assist illuminator does not light even if for a dark subject.
- Blur level: ★ ★

4	⑭	⏱	**OFF**	❀	**OFF**	–	–

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

Colored text and drawings may not show up well in the final picture.

4	⑭ (changeable)	⏱	**OFF** (changeable)	❀	**OFF** (changeable)	▦	[■]

⛱ 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.
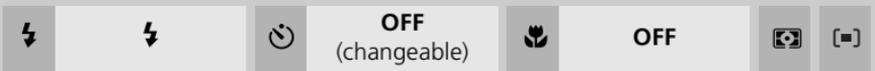
4	4	⏱	**OFF** (changeable)	❀	**OFF**	▦	[■]

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

Flash, self-timer, macro, and exposure modes are fixed at settings for the first shot in a series. Zoom is also fixed at the adjustment for the first shot in a series.

![flash]	⚜ (changeable)	![timer]	**OFF** (changeable)	![macro]	**OFF** (changeable)	![exposure]	![icon]

UNDERWATER
Use when taking underwater photographs using the water-proof case (WP-CP4).

![flash]	⚡ AUTO (changeable)	![timer]	**OFF** (changeable)	![macro]	**OFF** (changeable)	![exposure]	![icon]

Scene Mode

✎ Joining Panorama Pictures

Transfer the pictures taken with **PANORAMA ASSIST** to your computer (🖥65) 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).

🖼 Taking Pictures for a Panorama

1
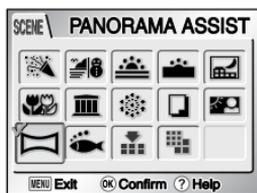
Select 🖼 (PANORAMA ASSIST) in Scene menu.

SCENE	PANORAMA ASSIST

MENU Exit ⓄK Confirm ? Help

2

Pan direction (▷) displayed in yellow.

5M NORM [8]

3

Bottom to top

Right to left ◁ ▷ Left to right

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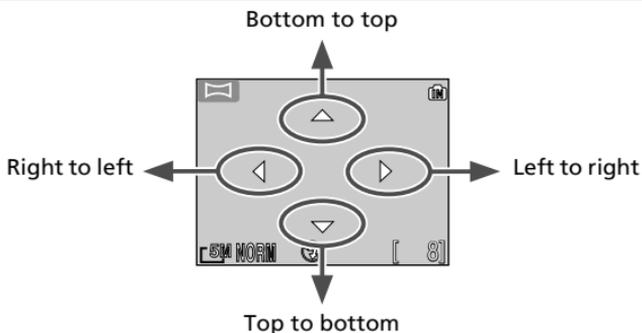
Select how pictures will be joined together in completed panorama. This is the direction in which to pan the camera after each shot.

4

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

5M NORM [8]

5

Take first picture. **AE-L** icon is displayed, and **White balance** and **Exposure compensation** are locked. 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).

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6	Compose the next shot to overlap with the previous picture.

7	Take next shot. Repeat steps 6 - 7 until all shots in series have been taken.	8	End series. • Shooting will also end if changing mode using the Mode Dial or entering standby mode.

Scene Mode

✐ Panorama Assist

The pan direction, Flash mode, Self-timer mode, Macro close-up mode, and Exposure compensation can not be changed after the first picture is taken. To change the pan direction, press the MENU Button to end shooting and repeat steps 1 - 3.

✐ Full-Screen Playback

When you press the ▶ Button after starting shooting, Panorama assist mode is terminated and the most recent picture will be displayed in the monitor.

✐ Use a Tripod

Using a tripod makes it easier to compose overlapping shots.

✐ Panorama Assist Folder

Each time you take pictures in Panorama assist mode, a "P_xxx" folder (e.g., "101P_001") is automatically created, and a series of pictures are stored in the folder.

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⚡ When Lighting Is Poor: Using the Flash

The following five 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	Pre flash is used before the main flash fires to reduce "red-eye." If "red-eye" is detected after an image is taken, the camera will correct "red-eye" when storing the picture.	Use for portraits (works best when subject is well within range of flash and looking at pre-flash). Not recommended when quick shutter response is required.
🚫⚡ Flash Cancel (off)	Flash will not fire even when lighting is poor.	Use to capture natural lighting under dim light or where use of flash is prohibited. If 📳 (camera shake) icon appears, care should be taken to avoid blurring.
⚡ Anytime Flash (fill flash)	Flash fires whenever picture is taken.	Use to "fill-in" (illuminate) shadows and back-lit subjects.
⚡🌃 Slow sync	Auto flash combined with slow shutter speeds.	Use to capture both subject and background at night or under dim light. Care should be taken to avoid blurring.

To select the flash mode:
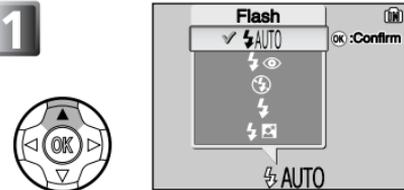
1	Display Flash menu.	**2**	Highlight desired mode and press ⓞ. Flash mode is displayed in monitor (to exit without changing mode, wait two seconds without pressing ⓞ Button).

🖉 Flash Range

- Flash range varies with zoom position. When the camera is zoomed all the way out, the flash has a range of approx. 0.3 - 4.5 m/1' - 14'8". When the camera is zoomed all the way in, the flash has a range of approx. 0.3 - 3.5 m/1' - 11'5" with **Auto** in **Sensitivity**.
- The flash may not be able to light the entire subject at distances of less than 30 cm (1'). When taking close-ups, play each picture back after shooting to check the results.

🖉 Selecting Flash Mode While Displaying Focus Area Selection Guide

When **AF area mode** (🖩98) is set to [ᐧ] **Manual** (🖩100) and focus area selection guide is displayed in the monitor, press ⑳ to hide focus area selection guide and select the Flash mode.
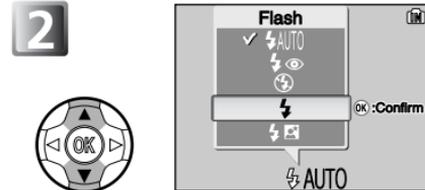
🖉 The 🖐 (Camera Shake) Icon

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

🖉 Using the Built-In Speedlight

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

🖉 Flash Mode Selection

Flash mode is not available in the following cases:
- **Continuous** is set to 🖵 **Continuous**, 🗗 **5 shot buffer** or 🖽 **Multi-shot 16**.
- **BSS** is set to **On**.
- **Auto bracketing** is set to **On**.
- Taking a picture in some assist modes (🖩30 - 35) or scene modes (🖩36 - 41).

🖉 Red-Eye Reduction

The "Red-eye reduction" flash function of the E7900/E5900 uses an advanced red-eye reduction method. Several pre-flashes are fired before the main flash fires to reduce "red-eye." In addition to this function, if "red-eye" is detected the camera will automatically correct it when storing the picture ("In-Camera Red-Eye Fix"). Using this function there is slight delay before you can press the shutter release 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 as well as the "red-eye" area. In this case, choose another flash mode and try again.

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⟳ **Taking a Self-Portrait: Using the Self-Timer**

When the self-timer is on, pictures are taken ten or three 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 the Self-timer, you should either mount the camera on a tripod (recommended) or rest it on a flat, level surface.

1 Display Self-timer menu.	**2** Highlight **ON**.
3 Exit menu. Self-timer icon is displayed in monitor (to exit without setting the self-timer, wait two seconds without pressing ⊛ Button).	**4** Frame picture and press Shutter-release Button halfway to set focus and exposure.
5	Start timer. Press once for delay of about ten seconds, twice for delay of about three seconds. • Countdown timer in monitor shows number of seconds remaining until shutter is released.
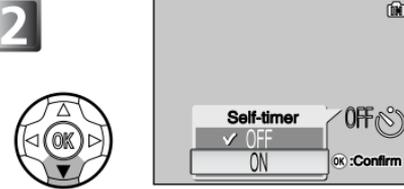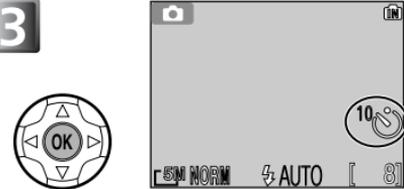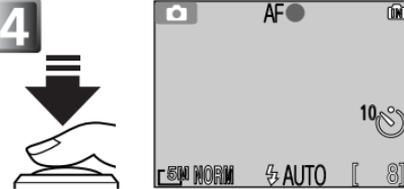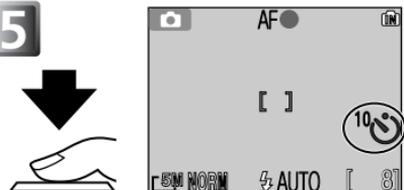
More on Photography

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.

Press once for 10s delay

Press twice for 3s delay

↓ ☺
Start

1s remaining   Shutter released

Blinks   Stays lit
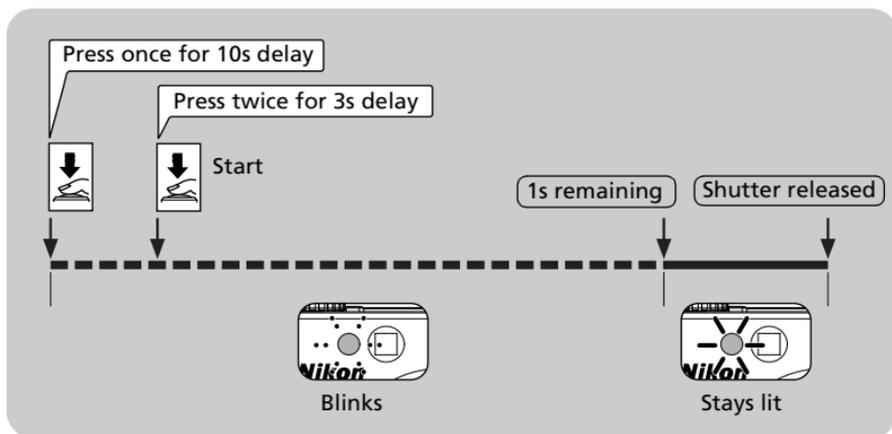
✐ Selecting Self-Timer While Displaying Focus Area Selection Guide

When **AF area mode** (🐾98) is set to [□] **Manual** (🐾100) and focus area selection guide is displayed in the monitor, press ⓒ to hide focus area selection guide and select the Self-timer mode.

✐ Stopping the Self-Timer

To stop the self-timer before picture is taken, press the Shutter-release Button twice for a ten-seconds delay, or once for a three-seconds delay.

🔍 The Self-Timer

- When using the self-timer, mount the camera on a tripod (recommended) or rest it on a flat, level surface.
- The self-timer is not available in some Assist modes (🐾28 - 35) or Scene modes (🐾36 - 41).
- When shooting pictures using the self-timer, 🖵**Continuous**, 🗇**5 shot buffer**, 🖽**Multi-shot 16**, **BSS** and **Auto bracketing** are not available. 🖵**Continuous**, 🗇**5 shot buffer** or 🖽**Multi-shot 16** is automatically set to Ⓢ **Single**.
- When **BSS** or **Auto bracketing** is set, the setting will be automatically **OFF** while the self-timer is ON.

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❀ 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").

1

Display Macro close-up menu.

2

Highlight **ON**.

3

Exit menu. ❀ icon appears in monitor when camera is in Macro close-up (to exit without setting Macro close-up mode, wait two seconds without pressing ⓘ Button).
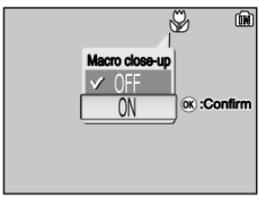
4
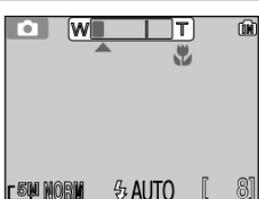
Frame picture.
• If camera is zoomed out until ❀ icon turns green, camera can focus at distance of 4 cm (1.6").

⬛ Selecting Macro Close-Up Mode While Displaying Focus Area Selection Guide

When **AF area mode** (🔲98) is set to [⧉] **Manual** (🔲100) and focus area selection guide is displayed in the monitor, press ⓘ to hide focus area selection guide and select the Macro close-up mode.

⬛ Macro Close-Up Mode

• At short ranges, the viewfinder does not show the exact image area that will appear in the final picture. Use the monitor for close-ups.
• Macro close-up is not available in Assist modes (🔲 28 - 35) or some Scene modes (🔲 36 - 41).

▧ Controlling Exposure: Exposure Compensation

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

1	Exposure comp. +0.3 ✓ ▧0 ⊛:Confirm ▧0 -0.3 — Histogram Display Exposure comp. menu and a histogram.
2	Exposure comp. +1.3 ▧+1.0 ⊛:Confirm ▧0 +0.7 Highlight desired value.
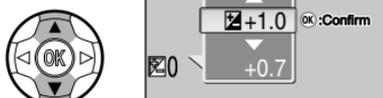
3

Exit menu. ▧ icon and a value for exposure compensation are displayed in monitor at settings other than 0 (to exit without changing setting, wait two seconds without pressing ⊛ Button).

▧+1.0

More on Photography

✐ Selecting Exposure Comp. While Displaying Focus Area Selection Guide

When **AF area mode** (🅿98) is set to [▣] **Manual** (🅿100) and focus area selection guide is displayed on the monitor, press ⊛ to hide focus area selection guide and select the Exposure compensation.

✐ Cancelling Exposure Compensation

To cancel exposure compensation, select a value of 0. In ▣ (Auto shooting) mode, a selected value remains even if the camera is turned off. In another shooting mode, exposure compensation returns to the default value for the selected mode when the camera is turned off or the Mode Dial is rotated.

✐ Exposure Compensation

Exposure compensation is not available when ✸ **FIREWORKS SHOW** (🅿40) is selected in the scene mode.

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Histogram

A histogram shows distribution of tones in image; horizontal axis corresponds to pixel brightness, with dark tones to left and bright tones to right, while vertical axis shows number of pixels of each brightness in the image.
The scale of an axis is determined by the maximum number of pixels of a picture.

🔍 Choosing a Value for Exposure Compensation

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

More on Photography

Movies

Setting the Movie Recording (Movie Menu)

Movies will be recorded with sound recorded via the camera's built-in microphone.
You can set the options for the movie recording as follows:

1
Rotate Mode Dial to 🎥.

2
Display Movie menu. (**Electronic VR** is displayed with E7900.)
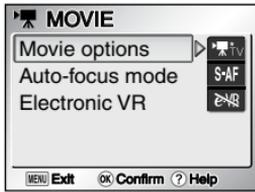
3
Highlight option.

4
Display option menu.

5
Highlight item.
To return to the Movie menu, press ◀.
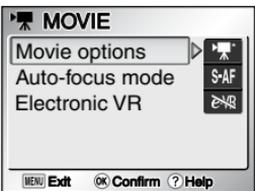
6
Make selection to return to Movie menu.
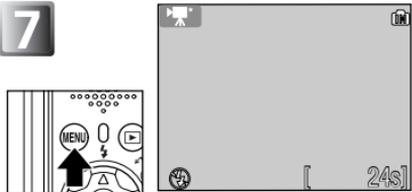
7
Return to the Movie shooting mode.

Movies

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✐ 🎥 Mode

- Only optical zoom can be used before recording, and only digital zoom (up to 2 ×) can be used while recording.
- In the Movie shooting mode, the following options will be fixed:
  - Flash mode (44) is ⊕ **Flash Cancel**.
  - Self-timer (46) is **OFF**.
  - Exposure compensation (49) can not be set.
  - **White balance** (86) is A·WB **AUTO**.
  - **Metering** (88) is **Matrix**.

🔍 Icon Type Display

Using the **Menus** options in the Set-up menu switches the menu display between **Text** and **Icons** (135). (**Electronic VR** is displayed with E7900.)

Text   Icons
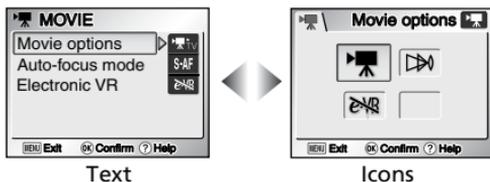
🔍 Playback Menu Help

When the Movie menu is displayed, pressing ❷🔍 (**T**) Button displays the help for the selected item.

- To return to the Movie menu, press the ❷🔍 (**T**) Button.
- To return to the Movie shooting mode, press the MENU Button.

Movies

52
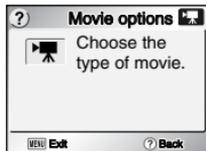
Selecting Movie Options

In Movie Options, you can select the type of movie depending on how you plan to use the movie.

Option	Description	Max. recording time*	
		Memory	**Memory card**
		Approx. 13.5MB	256MB
📹 📺 **TV movie 640 ★** (default setting)	Movies are recorded at 30 frames per second. Each frame is 640 × 480 pixels.	12s	Approx. 3m40s**
📹 📺 **TV movie 640**	Movies are recorded at 15 frames per second. Each frame is 640 × 480 pixels.	24s	Approx. 7m20s
📹 **Small size 320 ★**	Movies are recorded at 30 frames per second. Each frame is 320 × 240 pixels.	24s	Approx. 7m20s
📹 📺 **Smaller size 160 ★**	Movies are recorded at 30 frames per second. Each frame is 160 × 120 pixels. Small size allows longer movies to be recorded.	1m23s	Approx. 25m

* Approximate maximum total recording time for the memory card is indicated as a guide. Actual total recording time varies depending on the make of memory cards even when they have the same memory capacity.

** To prevent **TV movie 640 ★** from ending unexpectedly, use memory card rated for 10MB/s or more.

Movies

🖉 Movies

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

Selecting Auto-Focus Mode

The auto-focus mode for movie recording can be set. Select **Auto-focus mode** in the Movie menu (🎬 51), and choose from the following two modes.

Option	Description
S-AF **Single AF** (default setting)	Camera focuses when Shutter-release Button is pressed halfway. Focus locks when focus operation is complete.
C-AF **Continuous AF**	Camera adjusts focus continuously. To prevent the sound of the camera focusing from interfering with recording, select **Single AF**.

Setting Electronic VR (E7900 only)

The vibration reduction for movie recording can be set. Select **Electronic VR** in the Movie menu (🎬 51), and select On or Off.

Option	Description
e-VR **On**	Reduces effects of camera shake.
≈-VR **Off** (default setting)	Vibration reduction off.

Movies

🔎 Electronic VR

When **Electronic VR** is set to **On**, an e-VR icon appears in the monitor.

🎥 Recording Movies
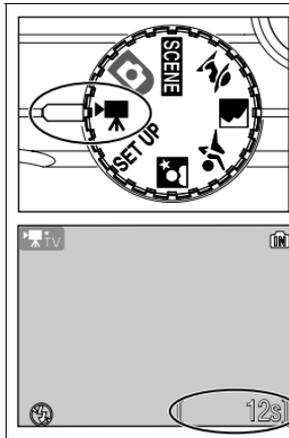
	1 **Rotate the Mode Dial to** 🎥 The monitor shows the available recording time.

🎥 tv   🔲

⑭   12s
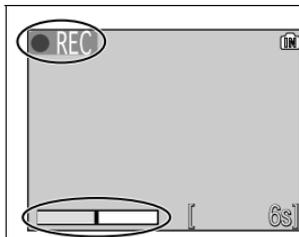
	2 **Start recording** Press the Shutter-release Button all the way down to start recording. • Camera focuses on subject in the center of the frame (🐾 54). • During recording, a ●REC icon blinks and progress will be shown by the indicator at the bottom of the monitor. • To finish recording, press the Shutter-release Button again. • Recording will end automatically when no more space is available in the memory or on the memory card.

●REC   🔲

6s

Movies

✅ Notes on Movies

- Depending on the make of memory card used, recording may end before the memory card is full. If this happens, "CANNOT RECORD MOVIE" will be displayed, but the recording until that time is stored as a movie.
- During recording, do not touch the built-in microphone.

55

Viewing Movies

In the full-screen playback mode (🔲25), movies can be played with sound. Movies are indicated by 🎬 icon and can be viewed by pressing ⓞ of the multi selector. Playback controls are displayed at the top of the monitor; press ◀ or ▶ of the Multi Selector to highlight a control, then press ⓞ to perform the selected operation.
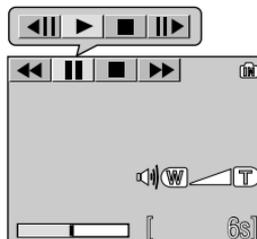
Control	Button	Description
Rewind	◀◀	While movie is in progress, use multi selector to select ◀◀, then press and hold ⓞ.
Advance	▶▶	Use multi selector to select ▶▶, then press and hold ⓞ. Playback ends at the last frame.
Pause	❚❚	Use multi selector to select ❚❚, then press ⓞ to pause display.
Rewind movie by one frame	◀❚❚	When movie is paused, use multi selector to select ◀❚❚, then press ⓞ.
Advance movie by one frame	❚❚▶	When movie is paused, use multi selector to select ❚❚▶, then press ⓞ.
Resume	▶	When movie is paused, use multi selector to select ▶, then press ⓞ.
Stop	■	Use multi selector to select ■, then press ⓞ to return to playback mode.

🔍 Playback Volume

The zoom Buttons control volume during playback. Press the 🔲 (**W**) Button to decrease volume, the 🔍 (**T**) Button to increase.

🔍 Deleting Movies

To delete a movie, press the 🗑 Button. The confirmation dialog will be displayed; press ▲ or ▼ of the multi selector to highlight an option, then press ⓞ.
• **Yes**: delete the movie and return to playback mode
• **No**: exit to playback mode without deleting the movie

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Movies

Viewing Pictures on the Camera

Viewing Pictures: Full-Screen Playback

Pressing the ▶ Button in the Shooting mode will display recorded pictures full-screen in the monitor (**Full-screen playback mode**).

• Pressing the ▶ Button while the camera is in the Playback mode, returns to the screen selected on the Mode Dial.

Viewing Multiple Pictures: Thumbnail Playback

Pressing the ⊞ (**W**) Button in Full-screen Playback mode displays the pictures in the memory or on the memory card in "contact sheets" of four thumbnail images.

To	Press	Description
Highlight pictures	(multi-selector)	Press ▲, ▼, ◀ or ▶ to highlight pictures.
Change number of pictures displayed	⊞(**W**)/ Q(**T**)	With four thumbnails displayed, press ⊞ (**W**) Button once to view nine thumbnails. Press Q (**T**) Button to "zoom in" from nine thumbnails to four-thumbnail view or, when four thumbnails are displayed, to return to full-screen playback mode.
Delete highlighted picture	🗑	The confirmation dialog will be displayed. Press ▼ to highlight **Yes**, and press ⓞ to delete the picture. • **No**: Return to playback mode without deleting a picture. • [♪]: Delete only the voice memo recorded with a picture (🔌62). [♪] is displayed when selecting a picture with the voice memo.
Cancel thumbnail playback	(multi-selector)	A selected picture is displayed in Full-screen playback mode.
Exit to current mode	▶	Exit to mode selected with Mode Dial

Images in the Memory

The pictures in the memory and on the memory card can not be displayed simultaneously. To display pictures stored in the memory, select either of the following:
• Remove the memory card from the camera, and display the pictures.
• Copy pictures stored in the memory to a memory card (🔣 113), and display the pictures.

Shooting Information

The shooting conditions displayed in the full-screen playback mode or shooting mode can be specified. See **Monitor settings** (🔣 122) in the Set-up menu.

More on Playback

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Taking a Closer Look: Playback Zoom

Use the Q (**T**) Button to zoom in on still images displayed in Full-screen playback mode.

To	Press	Description
Zoom in	Q (**T**)	Zoom increases each time button is pressed, to a maximum of 10×. While image is zoomed in, Q icon and zoom ratio are displayed in top left corner of monitor.
View other areas of picture	⬅⬆⬇➡	Use multi selector to scroll to areas of picture not visible in monitor. To use multi selector to view other pictures, cancel zoom.
Zoom out	⊞ (**W**)	Zoom decreases each time button is pressed in playback zoom. To cancel zoom, zoom picture out until entire picture is displayed. To view the previous or next picture, cancel the playback zoom before using the Multi Selector.
Cancel zoom	⊛ (OK)	Cancel zoom and return to full-screen playback.
Crop picture	Shutter-release Button	Only portion of picture visible in monitor can be cropped (🔊60).
Delete picture	🗑	The confirmation dialog will be displayed, when you press 🗑 Button. Press ▼ on the multi selector to highlight **Yes**, and press ⊛ to delete the picture. • **No**: Return to full-screen playback without deleting the picture. • [♪]: Delete only the voice memo recorded with a picture (🔊62). [♪] is displayed when selecting a picture with the voice memo.

📖 Playback Zoom

Playback zoom is not available with movies (🔊55), copies created using the **Small pic.** option (🔊112), or cropped copies (320 × 420 pixels or smaller) (🔊60).

More on Playback

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Cropping Pictures

When a picture is displayed in the playback zoom mode (🔍59), you can crop part of a picture and save it as a separate file.

1 Zoom picture in and out. Press ▲, ▼, ◀ or ▶ to scroll picture until desired portion of image is displayed in monitor.	**2** Save this image as displayed? **No** **Yes** The confirmation dialog displayed. Press ▼ to highlight **Yes**, and press ⓒ to create cropped copy. • To exit without creating copy, highlight **No** and press ⓒ.

- Cropped pictures are stored in JPEG format (compression ratio 1: 8) as separate pictures from the original pictures.
- 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 5M (E7900 only), 2,288×1,712 4M, 2,048×1,536 3M, 1,600×1,200 2M, 1,280×960 1M, 1,024×768 PC, 640×480 TV, 320×240 ▣, or 160×120 ▢ pixels in size.
- Copies are stored in separate files in the memory or on the memory card with names of the form "RSCN*nnnn*.JPG," where "nnnn" is a four-digit number assigned automatically by the camera.
- Cropped copies have the same recording time and date as the original picture.

🖉 Photo Trim

- Copies can not be created from cropped copies, or copies created with the D-lighting (🔍61) or **Small pic.** (🔍112).
- Cropped copies can only be created if sufficient space is available in the memory or on the memory card.
- Copies may not display or transfer correctly when viewed on other models of Nikon digital camera.

More on Playback

Adjusting a Picture Tone Automatically (D-Lighting)

Press ⊛ (the center of the multi selector) in Full-screen playback mode. The tone adjusted picture is created automatically as a separate picture. Using D-Lighting, backlit or insufficient flash light volumes can be adjusted brightly.

1

01.05.2005 100NIKON
12:00   0001.JPG

Select picture in Full-screen playback mode.

2

Save this image
as displayed?

No
Yes

⊛ Confirm

The tone adjusted picture is displayed.
• Select **Yes** to save the a copy, **No** to exit without creating copy, then press ⊛.

More on Playback

🖉 Copies

Copies are stored as files with names of the form "FSCN*nnnn*.JPG" (D-lighting) where "*nnnn*" is a four-digit number assigned automatically by the camera. Copies are independent of the originals: deleting the copy has no effect on the original, deleting the original no effect on the copy. Copies are created with the same transfer marking and date and time of recording as the original, but any subsequent changes to transfer marking or to protect, and print attributes must be made separately.

Copies may not display or transfer correctly when viewed on other models of Nikon digital camera. Copies can not be created from cropped copies (🖼60), or copies created with the **Small pic.** option (🖼112). D-Lighting is not available with D-Lighting copies. Copies can only be created if sufficient space is available in the memory or on the memory card.

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Voice Memos: Recording and Playback

A voice memo can be recorded using the built-in microphone and appended to any picture marked with ▤:🎤 (voice memo recording guide) icon shown in full-screen playback (🌑25).

To	Press	Description
Record voice memo	Shutter-release Button	If ▤:🎤 icon is displayed on current picture, memo will be recorded when Shutter-release Button is held down. During recording, ●REC icon blinks. Recording ends after about 20s or when Shutter-release Button is released.
Play voice memo	Shutter-release Button	Pictures with voice memos are marked by ▤:🔊 icon and 🔊 icon displayed in the Full-screen playback mode. Press Shutter-release Button to play voice memo. Playback ends when voice memo ends or Shutter-release Button is pressed again.
Change volume	▤ (**W**)/ Q (**T**)	Zoom Buttons control volume during playback. Press ▤ (**W**) Button to lower volume, Q (**T**) Button to increase.
Delete voice memo	🗑	The confirmation dialog will be displayed. Press ▼ on the multi selector to highlight 🔊, and press ⓞ. Only a voice memo will be deleted. • **No**: Exit without deleting picture or voice memo • **Yes**: Delete both picture and voice memo

More on Playback

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⌀ Storage

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

⌀ Notes on Voice Memos

- Voice memos can not be recorded or played during thumbnail playback (🔖 57) and playback zoom (🔖 59).
- Voice memos can not be recorded for movies.
- If a voice memo already exists for the current picture, it must be deleted before a new memo can be recorded.
- Do not touch the microphone during recording.

Viewing Pictures on TV

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

🖉 Choosing Video Mode

Video mode in the **Interface** option of the camera Set-up menu offers a choice of **NTSC** and **PAL** standards (🔲 132). Be sure that the standard selected matches that used in the device.
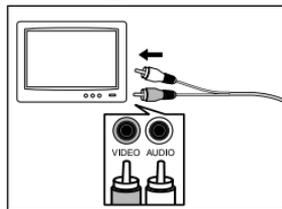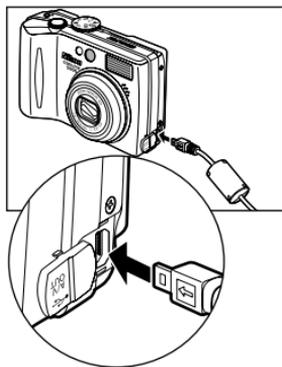
1 **Turn the camera off**
Turn the camera off before connecting or disconnecting the A/V cable.

2 **Connect the A/V cable to the camera**
Open the Interface connector Cover and insert the black plug of the A/V cable into the camera's Audio/Video (A/V) out Connector. **Check to be sure the connector is in the correct orientation and insert the plug straight. Do not insert or disconnect it forcibly.**

3 **Connect the A/V cable to the television or VCR**
Insert the yellow plug of the A/V cable into the video-in jack on your television or VCR and the white plug into the audio-in jack.

4 **Tune the television to the video channel**
For more information, see the manual for your television or VCR.

5 **Turn the camera on**
Press the ▶ Button for at least two seconds to turn the camera on. The camera monitor will turn off and the television will display the image normally shown in the monitor.

Viewing Pictures on a Computer

Using the UC-E6 USB cable and PictureProject software provided with your camera, you can transfer photographs and movies to a computer and view them. Before pictures can be transferred (copied) to your computer, Picture-Project must be installed. For information on installing PictureProject, see the *Quick Start Guide* and the *PictureProject Reference Manual* (on CD).

Setting the USB Option on the Camera

Before connecting the camera to a computer, set the **USB** option according to the method for transfer.

Pictures can be copied from the camera to the computer by:
- Pressing the ⑩ (Transfer ◯▲) Button on the camera
- Clicking the Transfer button in PictureProject

Which method you will use depends on your computer's operating system and the **USB** option selected in the Set-up menu of the camera. Set the **USB** option by referring to the table (🔲 65) and the procedure (🔲 66).

⑩ (Transfer ◯▲) Button

Operating system	Pictures transferred using:	
	Camera ⑩ (Transfer ◯▲) Button*	PictureProject Transfer button
Windows XP Home Edition Windows XP Professional	Choose **Mass storage** or **PTP**.	Choose **Mass storage** or **PTP**.
Windows 2000 Professional Windows Millennium Edition (Me) Windows 98 Second Edition (SE)	Choose **Mass storage****.	Choose **Mass storage**.
Mac OS X (10.1.5 or later)	Choose **PTP**.	Choose **Mass storage** or **PTP**.

* The camera ⑩ (Transfer ◯▲) Button can not be used when the memory card write protect switch is in the lock position.
   Slide the switch to "write" position when transferring pictures (🔲 13).
**Pictures stored in the memory cannot be transferred with the camera ⑩ (Transfer ◯▲) Button. Use the Transfer button in PictureProject, or copy the pictures in the memory to the memory card (🔲 113) and then transfer the pictures to the computer.

More on Playback

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To Set the USB Option

1

🅈 **SET-UP 1/3**
Welcome screen ▶
Date
Monitor Settings
Date imprint
AF assist

ⓄⓀ Confirm ⓋHelp
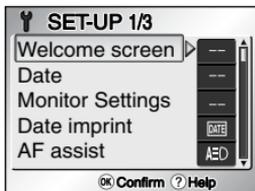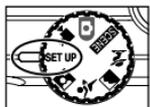
Rotate the Mode Dial to SET UP and turn the camera on. The Set-up menu* will be displayed in the monitor.

2

🅈 **SET-UP 3/3**
Interface
Auto transfer
Reset all
Menus
Firmware version

ⓄⓀ Confirm ⓋHelp

Highlight **Interface** and press ▶.

3

◻ᒪ **INTERFACE**
USB
Video mode

ⓄⓀ Confirm

Highlight **USB** and press ▶.

4

◻ᒪ **USB**
⊷P PTP
⊷M Mass storage
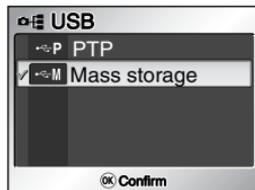
ⓄⓀ Confirm

Select **PTP** or **Mass storage**.

5

◻ᒪ **INTERFACE**
USB
Video mode

ⓄⓀ Confirm

Make a selection.

* For more information on the Set-up menu, see "Using the Set-up Menu" (🐾116).

More on Playback

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 (provided with your camera) as shown below. **Check to be sure the connector is in the correct orientation and insert the plug straight. Do not insert or disconnect it forcibly.** Connect the camera directly to the computer; do not connect the cable via a USB hub or keyboard.

UC-E6 USB cable
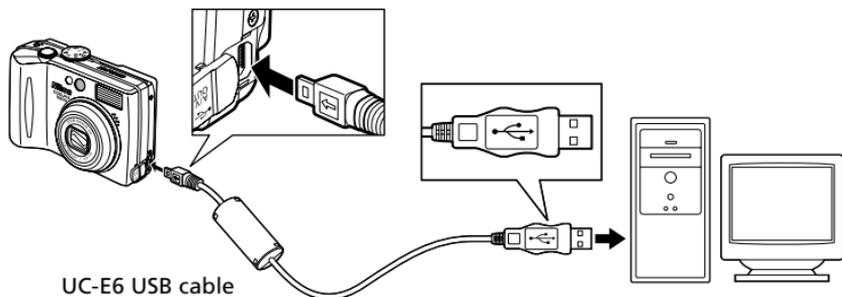
You can now turn the camera on. The lens will extend when the camera is turned on.

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

Do not select **PTP** when connecting the camera to a computer running one of the above operating systems. If you have connected the camera to a computer running one of the above operating systems with **PTP** selected in **USB**, 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.

Transferring Pictures

When the PictureProject Transfer is displayed in the computer monitor, pressing the ⓞ (Transfer 〜) Button on the camera or clicking the Transfer button in PictureProject will transfer pictures to the computer. For information on using PictureProject, see the *Quick Start Guide* or the *PictureProject Reference Manual* (on CD).

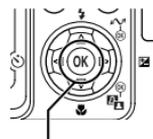## To Transfer Pictures Using ⓞ (Transfer 〜) Button

When the PictureProject Transfer is displayed in the computer monitor, press the ⓞ (Transfer 〜) Button on the camera.
Pictures marked with an 〜 icon (🎦110, 133) will be transferred.
When the ⓞ (Transfer 〜) Button is pressed, the transfer will start and the following messages will be displayed in the camera monitor.

PREPARING TO TRANSFER 〜	TRANSFERRING IMAGES TO COMPUTER 〜	TRANSFER COMPLETED 〜

⚠ During Transfer

While transfer is in progress, do not:
• Disconnect the USB cable
• Turn the camera off
• Remove the battery or the memory card
• Disconnect the AC adapter kit
Failure to observe this precaution could interfere with normal functioning of both the camera and the computer.

⚠ Transferring Pictures Stored in the Memory

• Remove the memory card from the camera before connecting the camera to the computer.
• When transferring pictures with the camera ⓞ (Transfer 〜) Button, note the following.
  – For Windows XP or Mac OS X (10.1.5 or later), set the **USB** option in the Set-up menu to **PTP**.
  – For Windows 2000, Windows Me or Windows 98SE, the camera ⓞ (Transfer 〜) Button cannot be used. Use the Transfer button in PictureProject, or copy the pictures in the memory to the memory card (🎦113) and then transfer the pictures to the computer.
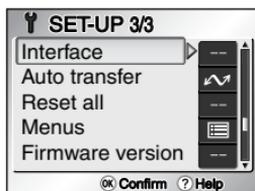
✎ Using Mac OS X (10.1.5 or Later)

Before using the ⓞ (Transfer 〜) Button on the camera to transfer pictures, set the **USB** option in the Set-up menu to **PTP**. When the **USB** option is set to **Mass Storage**, the pictures can not be transferred.

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More on Playback

Disconnecting the Camera

When **PTP** Is Selected in **USB**:
You can turn the camera off and disconnect the USB cable once transfer is complete.

When **Mass Storage** (default setting) Is Selected in **USB**:
You must remove the camera from the system as shown below before turning the camera off and disconnecting the cable.

Windows XP Home Edition/Windows XP Professional
Click the (Safely Remove Hardware) icon in the taskbar and select **Safely remove USB Mass storage Device** from the menu that appears.

Safely Remove Hardware
10:00 AM

Windows 2000 Professional
Click the (Unplug or Eject Hardware) icon in the taskbar and select **Stop USB Mass storage Device** from the menu that appears.

Unplug or Eject Hardware
10:00 AM

Windows Millennium Edition (Me)
Click the (Unplug or Eject Hardware) icon in the taskbar and select **Stop USB Disk** from the menu that appears.

Unplug or Eject Hardware
10:00 AM

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.

Removable Disk
Open
Explore
Find...
Copy Disk...
Sharing...
Format...
Eject

Mac OS X
Drag the "NO_NAME" camera volume into the Trash.

NO_NAME

Mac OS X

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Printing Pictures

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

Printing Pictures

Stored pictures in the internal memory or on the memory card can be printed as follows:

How to print	Memory card	The memory	🌙
Take the memory card to a digital photo lab.	Take the memory card containing pictures for which DPOF (Digital Print Order Format) is created using **Print set*** to a digital photo lab, and ask for them to be printed.	Copy (🖪 113) the pictures to the memory card, and print as described on the left. Depending on the digital photo lab, take the camera and ask for printing.	71
Use a printer equipped with a card slot.	Insert the memory card containing pictures for which DPOF (Digital Print Order Format) is created using **Print set*** into a printer equipped with a card slot, and print them.		71
Use a printer that supports PictBridge.	Connect the camera to a printer that supports PictBridge, and print pictures.		74
Transfer the pictures to a computer and print them.	For more information, see the *PictureProject Reference Manual* (on CD).		–

* If **Print set** is not set, one copy of all pictures is printed.

🖉 Printing the Date and Time of Recording on Pictures

The date of recording can be printed by performing one of the following procedures:
- Before taking pictures set the **Date imprint** option in the Set-up menu (🖪 73, 124).
- If the printer or print service supports Digital Print Order Format (DPOF), use the **Date** option in the **Print set** in the playback menu (🖪 71, 73).
- Transfer the pictures to a computer using PictureProject and print them using PictureProject print settings. For more information, see the *PictureProject Reference Manual* (on CD).

More on Playback

凸 **Print Set**

Print set in the playback menu is used to create digital "print orders" listing the pictures to be printed, the number of prints, and the information to be included on each print. This print order is stored on the memory card in Digital Print Order Format (DPOF). Once a print order has been created, pictures can be printed directly from the memory card by inserting it in a DPOF-compatible device. Alternatively, you could take the memory card to a digital photo lab which supports DPOF. Pictures can also be printed using **Print set** settings, by connecting the camera to a printer supporting PictBridge (🖳74).

<table>
<tr>
<td>

1

</td>
<td>

▶ **PLAYBACK MENU 1/2**
凸 Print set ▷
🖳 Slide show
🗑 Delete
🔒 Protect
🔀 Transfer marking

MENU Exit OK Confirm ? Help

Pressing MENU Button in the Playback mode displays the Playback menu.
Highlight **Print set** and press ▶.

</td>
<td>

2

</td>
<td>

凸 **PRINT SET**
▣▣ Print selected ▷
凸 Delete print set

MENU Exit OK Confirm

Highlight **Print selected** and press ▶.
• To cancel all print settings, highlight **Delete print set** and press OK.

</td>
</tr>
<tr>
<td>

3

</td>
<td>

凸 **PRINT SELECTION**

01.05.2005
12:00   [3/ 4]

MENU Back OK Confirm

Scroll through pictures.

</td>
<td>

4

</td>
<td>

凸 **PRINT SELECTION**

01.05.2005
12:00   [3/ 4]

MENU Back OK Confirm

Select current picture. 1 (number of prints) and 凸 icon are marked on the selected picture.

</td>
</tr>
</table>
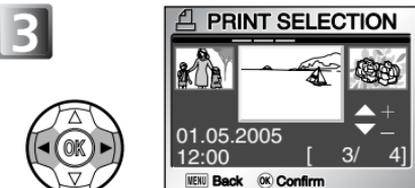
More on Playback

🔍 **DPOF**

DPOF (Digital Print Order Format) is a recording format that stores the print order, such as pictures or quantity to be printed and recording date, and the shooting information, on the memory card. Before using this option, check that the digital photo lab or printer supports DPOF.

71

5	PRINT SELECTION 01.05.2005 12:00　　　[　3/　4] MENU Back　OK Confirm	Use ▲ (+) or ▼ (–) to specify number of prints (up to 9). • To deselect picture, press ▼ (–) down when number of print is 1. • Repeat steps 3 - 5 to select additional pictures. • To exit without setting print order and return to the Playback menu, press MENU Button.
6	PRINT SET Done ☑ Date ☑ Info MENU Exit　OK Confirm ▼ Done	Menu of print options displayed. • To print date of recording on all pictures in print order, highlight **Date** and press ⊛. ✔ will appear in box next to item. • To print shutter speed and aperture on all pictures in print order, highlight **Info** and press ⊛. ✔ will appear in box next to item. • To turn selected item off, highlight and press ⊛. • To complete print order and return to playback, highlight **Done** and press ⊛. **Done** is displayed and the screen returns to the Playback menu. Press MENU Button to return to playback. • To exit without setting print order and return to the Playback menu, press MENU Button.
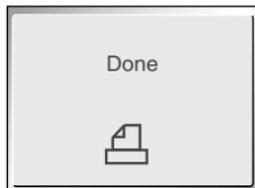
More on Playback

72

🖉 Print Set

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

🔦 Difference Between Date Imprint and Date

There are differences between **Print set** in the Playback menu and **Date imprint** (📇 124) in the Set-up menu as follows:

- Setting **Date** in the **Print set** option:
  - A date set in **Print set** can be printed only with a printer that supports date-print configuration for DPOF (📇 71).
  - You can set after taking pictures.
  - A date is not imprinted on the images, but recorded in the DPOF setting files. When printing, a date on the picture can be printed as if it is imprinted on the image. The position of the date depends on the printer.
- Setting **Date imprint**:
  - A date can be printed without any other setting because it is imprinted on the images.
  - You need to make setting before taking pictures.
  - A date is imprinted on the images and the position of the date is fixed at the bottom right corner of the images.
  - Once a date is imprinted, it can not be deleted from the image.
- When both **Print set** and **Date imprint** are set, the date of **Date imprint** option will be printed even if using a printer that supports DPOF.

🔦 Date

If Date is selected, the date of recording will appear on pictures printed using DPOF. The date to be printed will remain unchanged even if **Date** in the Set-up menu is changed after shooting pictures. If a picture is taken without setting date, it will not be printed even if the ✔ icon is added to the date in the Print set menu.

🔦 Notes on Print Set

No more than 999 pictures can be selected for **Print set**.

🔦 The Print-Order Icon

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

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 the memory card without having to be transferred to a computer.

1 Choosing PTP in the USB option

Set the USB option to **PTP** in the Interface menu of the Set-up menu before connecting the camera to a printer (🔀66).
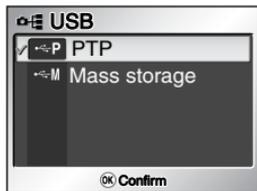
2 Connecting the USB Cable

After turning the camera off, connect the camera to the printer with the UC-E6 USB cable (provided with your camera) as shown below. **Check to be sure the connector is in the correct orientation and insert the plug straight. Do not insert or disconnect it forcibly.**
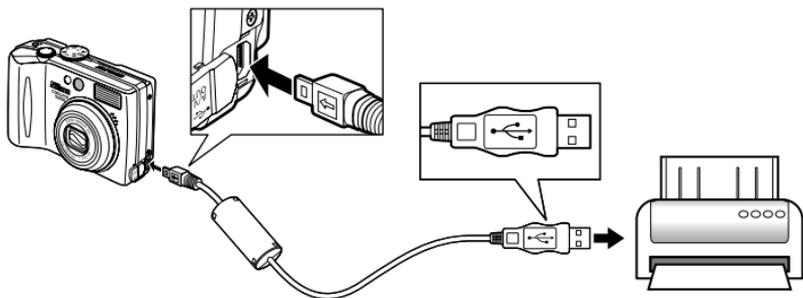
🖋 Before Printing

Before printing via a direct USB connection, make sure that the printer supports Pict-Bridge.

🖋 Use a Reliable Power Source

When printing pictures via a direct USB connection, be sure the battery is fully charged. If in doubt, recharge the battery before printing or use the optional EH-62A AC adapter kit (🔀137).

🔍 PictBridge

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

More on Playback

3 Turning the Camera and Printer on

The lens will extend and the PictBridge dialog will be displayed after the opening screen.
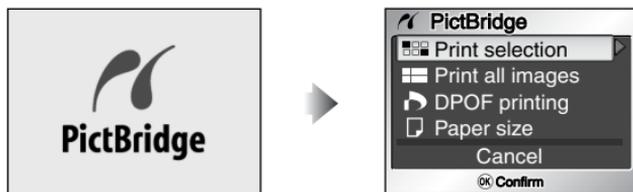
Option	Description
Print selection	Select pictures and specify number of prints.
Print all images	All pictures in the memory or the memory card are printed.
DPOF printing	Pictures for which print order has been created are printed accordingly (🐼79).
Paper size	The size of paper for printing can be set.

4 Confirming the Settings on the Printer

Before printing, confirm the settings on the printer by following the instructions supplied with the printer. Be sure to perform the paper settings before selecting **Print selection**, **Print all images**, or **DPOF printing**.

To Set the Size of Paper on the Camera

When printing according to the size of paper that can be set on the camera, select the **Paper size** option in the **PictBridge** dialog.

1	**2**
PictBridge	**PAPER SIZE 1/2**
Print selection	Default
Print all images	3.5"X5"
DPOF printing	5"X7"
Paper size	Postcard
Cancel	100mmX150mm
Confirm	Confirm
Highlight **Paper size** and press ▶.	Press ▲ or ▼ to select size of paper and press ⓞ.
	• Select **Default** to print according to the paper settings of the printer.
	• Following size options can be selected: 3.5" × 5" (89mm × 127mm), 5" × 7" (127mm × 178mm), Postcard, 100mm × 150mm (3.9" × 5.9"), 4" × 6" (102mm × 152mm), 8" × 10" (203mm × 254mm), Letter (8.5" × 11") (216mm × 279mm), A3 (11.7" × 16.5") (297mm × 420mm), and A4 (8.3" × 11.7") (210mm × 297mm) Selectable size options may vary depending on the printer.
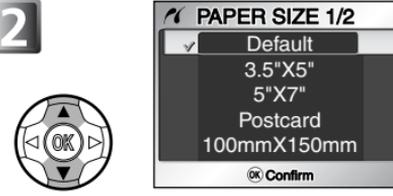
More on Playback

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5 Selecting Pictures to Print

1

PictBridge
- 🖼 Print selection ▶
- ☐ Print all images
- 🔁 DPOF printing
- 🗋 Paper size
- Cancel
- ◯K Confirm

Highlight **Print selection** and press ▶.
- To print one copy of all pictures in the memory or on the memory card, highlight **Print all images** and press ◯.

2

PRINT SELECTION

01.05.2005
12:00 [3/ 4]
MENU Back ◯K Confirm

Scroll through pictures.

3

PRINT SELECTION

01.05.2005
12:00 [3/ 4]
MENU Back ◯K Confirm

Select current picture. 1 (number of prints) and 🖶 icon are marked on the selected picture.

4

PRINT SELECTION

01.05.2005
12:00 [3/ 4]
MENU Back ◯K Confirm

Use ▲ (+) or ▼ (–) to specify number of prints (up to 9) and press ◯.
- To deselect picture, press ▼ (–) down when number of print is 1.
- Repeat steps 2 - 4 to select additional pictures.
- To exit without printing and return to the PictBridge dialog, press MENU Button.

5

005prints
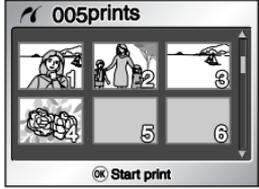
◯K Start print

View selected pictures. Press ▲ or ▼ to view pictures not visible in display.
- To return to the PRINT SELECTION screen, press MENU Button.

77
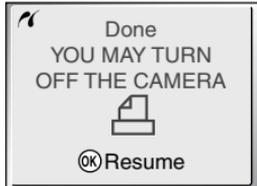
6	Printing 002/005 ⌛ ⊛ Cancel	**7**	Done YOU MAY TURN OFF THE CAMERA ⊛ Resume
Start printing. • To interrupt printing, press ⊛, then turn camera off and disconnect USB cable.		Message shown on the left is displayed when printing is complete. Turn camera off and disconnect USB cable. • To print continuously press ⊛. The display returns to the PictBrigde dialog (🔖 75).	

🖉 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.

Resume may not be selected depending on the type of error. If this happens, select **Cancel**.

PRINTER ERROR
CHECK PRINTER
STATUS
Resume
Cancel

78
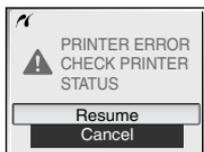
To Directly Print the Pictures Specified in a Print Set

The pictures stored in the memory or on the memory card are printed directly, according to the print order specified in **Print set** (🖼71).

If selecting **DPOF printing** in the **PictBridge** dialog (🖼75), the DPOF printing dialog will be displayed.

1	**DPOF PRINTING** Printer ready? 005 prints Start print Confirm Cancel ⑥ Confirm	**2**	**CONFIRM** ⑥ **Start print**

Highlight **Confirm** and press ⑥.
- To start printing immediately, highlight **Start print** and press ⑥.
- To exit without printing pictures, highlight **Cancel** and press ⑥.

View selected pictures.
Press ▲ or ▼ to view pictures not visible in display.
- To return to the DPOF PRINTING menu, press MENU Button.

3	Printing 002/005 ⏳ ⑥Cancel	After confirming print order, press ⑥ to start printing. • To interrupt printing, press ⑥.
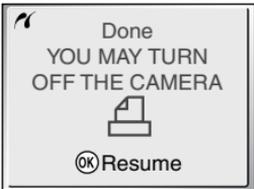
4	Done YOU MAY TURN OFF THE CAMERA ⏁ ⑥Resume	Message shown on the left is displayed when printing is complete. Turn camera off and disconnect USB cable. • To print continuously, press ⑥. The display returns to the PictBrigde dialog (🖼75).

More on Playback

🖉 DPOF Printing

- **DPOF printing** is only available if a print order has been created for the pictures stored in the memory or a memory card using **Print set**.
- When printing directly with a printer that supports PictBridge, shooting information can not be printed even if **Info** is set in **Print set**.

79

Using the Shooting Menu

In (Auto shooting) modes, the following settings can be adjusted from the Shooting menu:

Option	Description	
Image mode	Choose image quality and size.	83 - 84
White balance	Match white balance to your light source.	86 - 87
Metering	Select a metering method from **Matrix**, **Center-weighted**, **Spot**, or **Spot AF area**.	88
Continuous	Select shooting method from **Single** (one shot recorded), **Continuous**, **5 shot buffer**, and **Multi-shot 16**.	89
BSS	Turn the Best Shot Selector (BSS) on or off.	91
Color options	Control color.	92
Image adjustment	Adjust contrast of pictures.	93
Image sharpening	Control how much outlines in your pictures are sharpened.	94
Sensitivity	Help exposure compensation and minimize blur when lighting is poor and the flash is off.	95
Auto bracketing	Allow continuous shooting with gradually changing exposure or white balance.	96
Saturation control	Adjust vividness of the color of a picture.	97
AF area mode	Select an area to be focused from **Auto**, **Manual** and **Off**.	98
Auto-focus mode	Select an Auto-focus mode of **Single AF** or **Continuous AF**.	101
Noise reduction	Reduce dotted noise contained in a picture taken at low shutter speed.	102

To Display the Shooting Menu:

1 Rotate the Mode Dial to ■ (Auto shooting).	■ 5M NORM ⚡ AUTO [8]
2 Display Shooting menu.	■ SHOOTING MENU 1/3 Image mode ▷ -- White balance A·WB Metering ● Continuous S BSS BSS MENU Exit OK Confirm ? Help
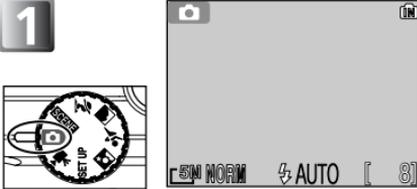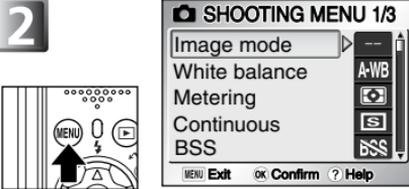
To Make a Selection from the Shooting Menu:

1 Highlight menu item.	■ SHOOTING MENU 1/3 Image mode White balance A·WB Metering ▷ ● Continuous S BSS BSS MENU Exit OK Confirm ? Help
2 Display options.	● METERING ✓ ● Matrix ◉ Center-weighted ⬚ Spot ⊞ Spot AF area MENU Exit OK Confirm
3 Highlight option and press ⊛ to make selection. • To return to the Shooting mode without changing the setting, press MENU.	● METERING ✓ ● Matrix ◉ Center-weighted ⬚ Spot ⊞ Spot AF area MENU Exit OK Confirm
4 Press MENU Button to exit menu and return to the shooting mode.	■ 5M NORM ⚡ AUTO [8]
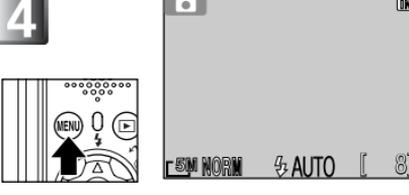
81

Icon Type Display

Using the **Menus** option of the Set-up menu switches the menu display between **Text** and **Icons** (135).

🔘 SHOOTING MENU 1/3
Image mode
White balance ▶ AWB
Metering
Continuous
BSS
MENU Exit   OK Confirm   ? Help

Text

🔘 White balance AWB
🔆 WB 📷 ▣ BSS
⊘ ◑ ◇ ISO BKT
🚫 [+] ▷ NR
MENU Exit   OK Confirm   ? Help
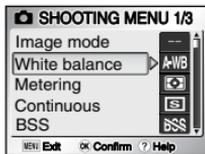
Icons

Shooting Menu Help

When the Shooting menu is displayed, pressing ❷⚲ (**T**) Button displays the help for the selected item.
• To return to the Shooting menu, press the ❷⚲ (**T**) Button.
• To return to the Shooting mode, press the MENU Button.

? White balance AWB
WB Camera's adjustment to the respective type of light source.
MENU Exit   ? Back

The Shooting Menu

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❖ Image Mode

Press MENU Button in ■ (Auto shooting) mode to select **Image mode** (🔲81), and then press ▶.

The size of the files, and with it the number of images that can be recorded on the memory or the memory card, depends on the size and quality of the images. Before shooting, choose an image quality and size according to how you plan to use the picture.

```
❖ IMAGE MODE
Image quality      ▶  NORM
Image size            5M

MENU Exit   OK Confirm
```

Image Quality

Images are compressed according to the image quality setting for storing.
Select from the following three options and press ⓞ.

Option	Format	Description	Compression
FINE **FINE**	**JPEG**	Fine image quality, suitable for enlargements or high quality prints. File size reduced to roughly 1/4 of its original size.	Low
NORM **NORMAL** (default setting)		Normal image quality, suited to most applications. File size reduced to roughly 1/8 of its original size.	
BASIC **BASIC**		Basic image quality, suitable for pictures that will be distributed by e-mail or used in web pages. File size reduced to roughly 1/16 of its original size.	High

🔍 Image Quality and Compression

The process of reducing the file size of a picture when storing it is called compression.
In this camera, pictures are compressed and recorded as JPEG files.
- The more a picture is compressed, the smaller the picture size becomes and the larger the number of pictures that can be stored in memory or on a memory card. However, the quality of the image is degraded and the reproducibility of the image's fine areas is reduced.
- The less a picture is compressed, the larger the picture size becomes and the smaller the number of pictures that can be stored in memory or on a memory card. However, it maintains the presentation of the image's fine areas and increases the image quality.

🔍 Image Quality Setting

Image quality can be also selected in the Assist modes (🔲30) or Scene modes (🔲36).

The Shooting Menu

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Image Size

Image size can be selected from the following five options according to your shooting intent:

Image size (pixels)	Print size (cm)*
⌐7M **3072 × 2304**** (E7900 only)	About 26 × 20 (10.4" × 8")
⌐5M **2592 × 1944*****	About 22 × 16 (8.6" × 6.5")
⌐3M **2048 × 1536**	About 17 × 13 (6.7" × 5.1")
⌐2M **1600 × 1200** (E5900 only)	About 14 × 10 (5.3" × 4")
⌐PC **1024 × 768**	About 9 × 7 (3.4" × 2.6")
⌐TV **640 × 480**	About 5 × 4 (2.1" × 1.6")

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

** Default setting for E7900

***Default setting for E5900

Image Size

Smaller images create smaller files suitable for transmission by e-mail or for use in web pages. When printed in larger sizes, however, small images will be rough and uneven in appearance. The size of images when printed depends on the printer resolution: the higher the resolution, the smaller the final print size.

Image Size Setting

Image size can be also selected in the Assist modes (🐾30) or Scene modes (🐾36).

Image Mode

The current image mode (image quality and size) is shown by an icon at the bottom left corner of the monitor.

⌐7M⌐5M⌐3M⌐PC⌐TV **(E7900)**

⌐5M⌐3M⌐2M⌐PC⌐TV **(E5900)**

⌐5M NORM ⚡AUTO 〔 8〕

FINE NORM BASIC
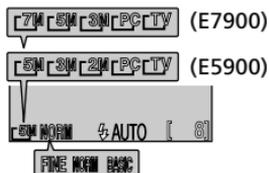
Image Quality/Size and Number of Exposures Remaining

The following table shows the approximate number of pictures that can be stored on 256-megabyte memory cards at different image modes. The number of exposures remaining varies widely, depending on the type of memory card, the nature of JPEG compression, or the content of the image.

Image mode		Memory	Memory card*
Image size	Image quality	Approx. 13.5MB	256MB
7M 3072 × 2304 (E7900 only)	FINE	4	Approx. 70
	NORMAL	7	Approx. 140
	BASIC	15	Approx. 270
5M 2592 × 1944	FINE	5	Approx. 90
	NORMAL	10	Approx. 190
	BASIC	21	Approx. 370
3M 2048 × 1536	FINE	8	Approx. 150
	NORMAL	17	Approx. 300
	BASIC	33	Approx. 590
2M 1600 × 1200 (E5900 only)	FINE	14	Approx. 250
	NORMAL	27	Approx. 480
	BASIC	50	Approx. 900
PC 1024 × 768	FINE	33	Approx. 590
	NORMAL	57	Approx. 1020
	BASIC	96	Approx. 1710
TV 640 × 480	FINE	72	Approx. 1280
	NORMAL	123	Approx. 2200
	BASIC	173	Approx. 3080

* If memory remains for more than 999 pictures, camera exposure count display will show 999.

The Shooting Menu

WB **White Balance**

Press MENU Button in ⦿ (Auto shooting) mode to select **White balance** (⬚ 81), and then press ▶.

WB WHITE BALANCE 1/2
✓A-WB Auto
PRE White bal. preset
☀ Daylight
☀ Incandescent
☼ Fluorescent
MENU Exit OK Confirm
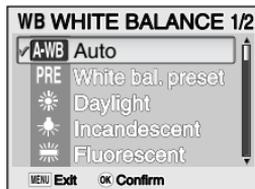
About White Balance

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 camera can mimic this adjustment by processing information from the camera's image sensor (CCD) according to the color of the light source. This process is known as a "white balance adjustment."

If **White balance** has been set to A-WB **Auto** and the results are not to your satisfaction or when shooting under the special light sources or conditions, use the following white balance settings other than A-WB **Auto**.

Select from the following nine options and press ⊛.

Option		Description
A-WB **Auto** (default setting)		White balance automatically adjusted to suit lighting conditions. Best choice in most situations.
PRE **White bal. preset**		Gray object used as reference to set white balance under unusual lighting conditions.
☀ **Daylight**		White balance adjusted for direct sunlight.
☀ **Incandescent**		Use under incandescent lighting.
☼ **Fluorescent**	FL1	Use under most types of fluorescent lighting. Press ▶, and select **FL1** (White (W)) or **FL2** (Daylight White/Natural (N)) according to the bulb types, and then press ⊛.
	FL2	
☁ **Cloudy**		Use when taking pictures under overcast skies.
⬛ **Shade**		Use under sunny skies when your subject is in the shade.
⚡ **Speedlight**		Use with the flash.

PRE Preset White Balance

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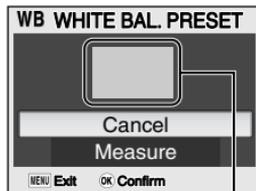
White balance measuring window

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

🖋 Preset White Balance
- The camera can not measure a value for preset white balance when the flash fires. Regardless of the Flash mode selected, the flash will not fire when selecting **Measure**.
- When **Auto bracketing** is set to WB **WB bracketing**, preset white balance can not be used.

🔎 White Balance Indicator
Unless the setting is A·WB **Auto**, White balance is shown by an icon in the monitor.

The Shooting Menu

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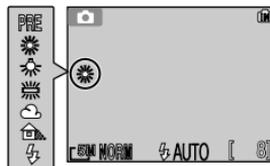
🔘 Metering

Press MENU Button in 🔘 (Auto shooting) mode to select **Metering** (🔖81), and then press ▶.
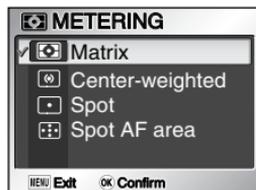
The metering menu offers a choice of three metering methods for determining how the camera sets exposure.

Select from the following four options and press ⓞ.

🔘 METERING
- ✓ 🔲 Matrix
- 🔘 Center-weighted
- 🔲 Spot
- 🔛 Spot AF area

MENU **Exit**   OK **Confirm**

Option	Description
🔲 **Matrix** (default setting)	Compares measurements from multi areas of frame with library of typical compositions to produce optimal exposure for entire image. Best choice in most situations.
🔘 **Center-weighted**	Use for portraits; adjusts exposure according to lighting at the center of the frame, but still preserves background details. Can be used with AF lock (🔖99) to meter off-center subjects.
🔲 **Spot**	Camera measures light in area shown by circle in center of monitor. Ensures that subject in metering target will be correctly exposed even when background is much brighter or darker. Can be used with AF lock (🔖99) to meter off-center subjects.
🔛 **Spot AF area**	Links spot metering to active focus area when auto or manual focus area selection is in effect (🔖98).

📝 Notes on Metering

When the digital zoom is in effect, the camera automatically switches to the setting just like **Center-weighted**. The metering target does not appear.

🔍 Metering

When 🔘 **Center-weighted** or 🔲 **Spot** is selected, the metering target is displayed in the center of the monitor.

Spot metering target
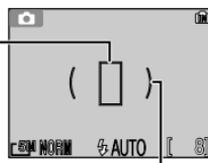
Center weighted metering target

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⬛ Continuous

Press MENU Button in 🔴 (Auto shooting) mode to se-
lect **Continuous** (🔴81), and then press ▶ .

According to the shooting condition, S **Single** or
three continuous options (⬛**Continuous**, ⬛**5
shot buffer** or ⬛**Multi-shot 16**) can be selected.

<div style="float:right">

🔲 CONTINUOUS

✓ 🔳 Single
⬛ Continuous
⬛ 5 shot buffer
⬛ Multi-shot 16

MENU Exit   OK Confirm

</div>

Option	Description
S **Single** (default setting)	Camera takes one picture each time Shutter-release Button is pressed.
⬛ **Continuous**	While Shutter-release Button is pressed and held, pictures can be recorded at rate of up to about 1.7 frames per second (E7900)/2 frames per second (E5900). With E7900, camera takes about 29 shots in a series when Image quality is **NORMAL** and Image size is **7M** (3072 × 2304). With E5900, camera takes about 9 shots in a series when **Image quality** is **NORMAL** and **Image size** is **5M** (2592 × 1944).
⬛ **5 shot buffer**	While Shutter-release Button is pressed and held, pictures can be recorded at rate of up to about 1 frame per second. When the shutter Button is released, continuous shooting will stop. Only the last five images taken during each continuous shooting burst will be recorded to the memory or memory card.
⬛ **Multi-shot 16**	Each time Shutter-release Button is pressed down, camera takes sixteen consecutive shots at rate of about 1.7 frames per second (E7900)/2 frames per second (E5900). With E7900, camera arranges pictures in four rows (one shot: 768 x 576) to form a single picture (**7M**:3072 x 2304). With E5900, camera arranges pictures in four rows (one shot: 648 x 486) to form a single picture (**5M**: 2592 × 1944).

The Shooting Menu

89

🖉 Restrictions on Camera Settings

- Autofocus, exposure, and white balance for all photos are determined by the first picture in each series.
- The flash mode is set to ⊕ automatically. **Continuous** can not be used simultaneously with **BSS** (🔀 91) or **Auto bracketing** (🔀 96). The camera takes pictures with the latest setting among those options.
- **Noise reduction** (🔀 102) has no effect even if this option is set to **On**.
- When shooting pictures using the Self-timer, **Continuous** is switched to ⑤ **Single**. 🖳 **Continuous**, ⓞ **5 shot buffer**, and 🖽 **Multi-shot 16** can not be used. The settings will return to the original after an image has been taken using the Self-timer.
- While shooting in 🖽 **Multi-shot 16**, **Sensitivity** (🔀 95) is set to **Auto**.

🔍 Continuous

Unless the setting is ⑤ **Single**, the current **Continuous** setting is indicated by an icon in the monitor.

BSS Best Shot Selector

Press MENU Button in ▣ (Auto shooting) mode to select **BSS** (🔳81), and then press ▶.

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

• the camera is zoomed in
• the camera is in Macro close-up mode
• lighting is poor and the flash can not be used

Select **BSS On** or **BSS Off** and press ⓞ.

Option	Description
BSS Off (default setting)	BSS off; camera functions normally.
BSS On	BSS on. Flash mode set to ⓕ automatically and focus, exposure, and 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.
• When shooting pictures using the Self-timer, **BSS** is switched to **Off**. **BSS** will return to **On** after an image has been taken using the Self-timer.
• When **BSS** is **On**, **Noise reduction** (🔳102) is not available even if this option is set to **On**.

🖊 Continuous, Auto Bracketing, and BSS

BSS can not be used simultaneously with **Continuous** (🔳89) or **Auto bracketing** (🔳96). The camera takes pictures with the latest setting among those options.

🔍 BSS

When **BSS** is set to **On**, a **BSS** icon appears in the monitor.

The Shooting Menu

91

⊘ Color Options

Press MENU Button in ☐ (Auto shooting) mode to select **Color options** (▧81), and then press ▶.

Use the options in this menu to change color tone of your pictures. There are five color tones to choose from.
- The color you choose is reflected in the picture displayed in the monitor.

⊘ COLOR OPTIONS
- ⊠ Standard color
- ⊘ꜰ Vivid color
- ⊘ꜰ Black-and-white
- ⊘ꜱꜱ Sepia
- ⊘꜀ Cyanotype

MENU Exit   OK Confirm

Option	Description
⊠ **Standard color** (default setting)	Picture appears with natural colors.
⊘ꜰ **Vivid color**	Picture appears in sharp colors.
⊘ꜰ **Black-and-white**	Picture appears in black and white.
⊘ꜱꜱ **Sepia**	Picture appears in sepia tones.
⊘꜀ **Cyanotype**	Picture appears with blue cast.

⊘ White Balance

Selecting ⊘ꜰ **Black-and-white**, ⊘ꜱꜱ **Sepia**, or ⊘꜀ **Cyanotype** automatically sets white balance (▧86) to **Auto**. The original white balance setting is restored when ⊠ **Standard color** or ⊘ꜰ **Vivid color** is selected.

⊘ Image Adjustment, Image Sharpening, and Saturation Control

Selecting ⊘ꜰ **Vivid color**, ⊘ꜰ **Black-and-white**, ⊘ꜱꜱ **Sepia**, and ⊘꜀ **Cyanotype** automatically sets **Image adjustment** (▧93) to **Auto**, **Image sharpening** (▧94) to **Auto**, and **Saturation control** (▧97) to **Normal**. The original settings of **Image adjustment**, **Image sharpening**, and **Saturation control** are restored when ⊠ **Standard color** is selected.

⊘ WB Bracketing

When **Bracketing** (▧96) is set to ⓌⒷ **WB Bracketing**, ⊘ꜰ **Black-and-white**, ⊘ꜱꜱ **Sepia**, or ⊘꜀ **Cyanotype** can not be selected and vice versa.

⊘ Color Options Indicator

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

The Shooting Menu

92

○ Image Adjustment

Press MENU Button in ○ (Auto shooting) mode to select **Image adjustment** (▧81), and then press ▶.

Image adjustment is used to adjust contrast automatically for optimal results before recording pictures to the memory or the memory card.

○ IMAGE ADJUSTMENT
- ✓ A○ Auto
- ○ Normal
- ○+ More contrast
- ○− Less contrast

MENU Exit   OK Confirm
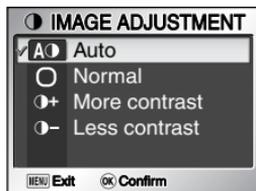
Select from the following four options and press ○K.

Option	Description
A○ **Auto** (default setting)	Camera automatically adjusts contrast according to shooting conditions.
○ **Normal**	Camera performs same standard contrast adjustment on all pictures. Suitable for a wide variety of scenes, from dark to bright.
○+ **More contrast**	Picture processed to emphasize difference between light and dark areas, enhancing contrast. Useful when shooting under overcast skies or shooting low contrast subjects such as landscapes.
○− **Less contrast**	Picture processed to decrease difference between light and dark areas, reducing contrast. Recommended when light is very bright, creating strong shadows on subject.

The Shooting Menu

🔍 Image Adjustment

Unless the setting is A○ **Auto**, the current image-adjustment setting is indicated by an icon in the monitor.

93

◇ Image Sharpening

Press MENU Button in ◘ (Auto shooting) mode to select **Image sharpening** (81), and then press ▶.

The camera automatically processes pictures to emphasize the borders between light and dark areas of the picture, making edges seem sharper.

Select from the following five options and press ⊛.

Option	Description
A◇ **Auto** (default setting)	Camera sharpens edges for optimal results; amount of sharpening varies from shot to shot.
◆ **High**	Pictures processed to increase sharpness, making edges more distinct.
◆ **Normal**	Camera performs same standard level of sharpening on all images.
◯ **Low**	Sharpening reduced below normal level.
◈ **Off**	No sharpening performed. Suitable for pictures that will later be retouched on a computer.

The Shooting Menu

🖊 Image Sharpening Effects

Can not be previewed in the monitor. You can view the results in the playback mode.

🔍 Image Sharpening

Unless the setting is A◇ **Auto**, the image-sharpening icon appears in the monitor.

94
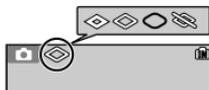
ISO Sensitivity

Press MENU Button in ● (Auto shooting) mode to select **Sensitivity** (81), and then press ▶.

Sensitivity is a measure of how sensitive the camera reacts to light. With **Auto** (default setting), ISO sensitivity automatically increases at low brightness. Setting ISO sensitivity at a high level is effective in preventing blur when Speedlight is disabled in dark settings or making the subject appear brighter. However, the image may contain "noise" or become "grainy."

ISO SENSITIVITY

- Auto
- [64]
- 100
- 200
- 400

MENU Exit   OK Confirm

50 is displayed with E7900.

Select from the following five levels and press ⊛.
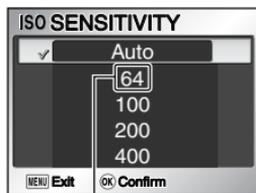
Option	Description
Auto (default setting)	Approximately equivalent to ISO 50 (E7900)/ISO 64 (E5900) under normal conditions; when lighting is poor, however, camera automatically compensates by raising sensitivity to maximum of ISO 200 equivalent.
50 (E7900 only)	Approximately equivalent to ISO 50.
64 (E5900 only)	Approximately equivalent to ISO 64.
100	Approximately equivalent to ISO 100.
200	Approximately equivalent to ISO 200.
400	Approximately equivalent to ISO 400. Intended for use with natural lighting; not recommended when using flash.

🔍 Noise Reduction
When raising sensitivity, "noise" in the form of randomly-spaced, brightly colored pixels may appear in pictures. In this case, noise in pictures taken at slow shutter speeds will be reduced automatically when **Noise reduction** (102) is **On**.

🖊 Sensitivity
Unless the setting is **Auto**, a selected ISO value is displayed in the monitor whenever sensitivity is raised. An **ISO** icon will appear at Auto setting when the camera has automatically changed sensitivity.

(E7900)
(E5900)

ISO 50 100 200 400   ISO 64 100 200 400

The Shooting Menu

95
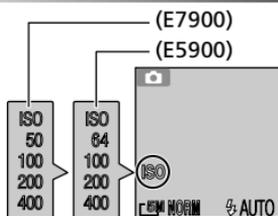
BKT Auto Bracketing

Press MENU Button in ⬤ (Auto shooting) mode to select **Auto bracketing** (81), and then press ▶.

BKT AUTO BRACKETING
- ✓ ☒ Off
- BKT On
- ⬜ WB bracketing

MENU Exit   OK Confirm

In some situations, you may find it difficult to select appropriate Exposure compensation and **White balance** settings, and yet not have time to check the results and adjust settings after each shot. Auto bracketing can be used to vary these settings automatically over a series of pictures, "bracketing" a selected exposure compensation or white balance setting.

Select from the following three options and press ⑯.

Option	Description
☒ **Off** (default setting)	Restores normal exposure and white balance.
BKT **Auto bracketing**	Each time the Shutter-release Button is fully pressed, the camera takes three shots, one shot with the current exposure, and two shots varying the exposure by values of +0.5 and -0.5 compensation.
⬜ **WB bracketing**	The camera takes three shots each time Shutter-release Button is fully pressed, bracketing current white balance setting to produce one picture with normal white balance, one picture with bluish cast, and one picture with reddish cast. Recording time roughly triples.

📖 Restrictions on Auto Bracketing

- **Auto bracketing** can not be used simultaneously with ☐ **Continuous**, ☐ **5 shot buffer**, ☐ **Multi-shot 16**, or **BSS**. The camera takes pictures with the latest setting among those options.
- While **White balance** (86) is set to **White bal. preset**, the **WB bracketing** option in **Auto bracketing** can not be used for shooting.
- If the space in the memory or on the memory card is capable of storing only a few images, only that number of images will be stored.

96

Exposure Compensation

When Exposure compensation (🐾49) and **Auto bracketing** (🐾96) are set simultaneously, exposure will be compensated at the sum of both compensation values.

Auto Bracketing

When **Auto bracketing** is in effect, a BKT (bracketing) icon is displayed in the monitor.
When **WB bracketing** is in effect, ▭-BKT icons appear in the monitor.

⊛ Saturation Control

Press MENU Button in ⬛ (Auto shooting) mode to select **Saturation control** (🐾81), and then press ▶.

Saturation control is used to heighten or reduce the vividness of colors.

Select from the following three options and press ⓞ.

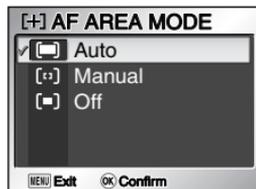| Option	Description
⊛+1 **Enhanced**	Use for vivid, photo-print effect when taking pictures that will be printed "as is," without further modification.
⊛±0 **Normal** (default setting)	Best choice in most situations.
⊛-1 **Moderate**	Use when taking pictures that will later be retouched on a computer.

Saturation Control

Unless the setting is ⊛±0 **Normal**, the current Saturation control setting is indicated by an icon in the monitor.
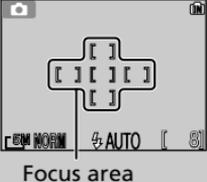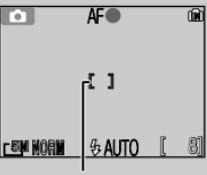
[+] AF Area Mode

Press MENU Button in ☐ (Auto shooting) mode to se-
lect **AF area mode** (🔲81), and then press ▶.

AF area mode determines how the focus area is
selected.

Select from the following three options and press
⊛.

[+] AF AREA MODE
- ✓ 🔲 Auto
- [+] Manual
- [■] Off

MENU Exit   ⊛ Confirm

Option	Description
[■] **Auto** (default setting)	Camera automatically selects focus area containing subject closest to camera. Selected focus area is displayed in green (focused) or red (not focused) when Shutter-release Button is pressed halfway. This setting is useful when your subject is moving or you have little time to check focus. Focus area
[ı] **Manual**	User selects an area from 99 focus areas manually using ▲, ▼, ◀ or ▶ of the multi selector. This option can be used instead of AF lock (🔲99) to focus on a relatively motionless subject that is not at the center of the frame. For more information see "Using [ı] Manual Option" (🔲100). Focus area Selectable area
[■] **Off**	Center focus area is used. This option can be used in combination with AF lock (🔲99) to focus on off-center subjects. Focus area

98

Focus Area Display
- When the subject is in focus, focus area will be displayed in green.
- When the subject is out of focus, focus area will blink in red.
- When **AF area mode** is **Auto**, focus area will be displayed when the Shutter-release Button is pressed halfway.

Notes on Focus Area Selection
- In assist mode (30) or scene mode (36), the camera automatically selects optimal focus area for the selected mode.
- In movie mode, camera automatically focuses on the subject using the center focus area. Focus area mode can not be used.
- While **Photo info** in the **Monitor Settings** menu (122) is **Monitor off** or digital zoom (21) is in effect, the center focus area is used. **AF area mode** can not be used.
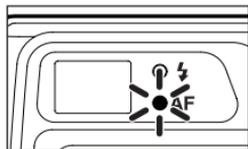
AF Lock
Focus and exposure are locked when the Shutter-release Button is pressed halfway, and remain locked while the Shutter-release Button is held in this position (AF lock). AF lock can be used to take pictures of off-center subjects or in situations in which the camera is unable to focus using autofocus.

Procedures for AF lock are described below. In this example, **AF area mode** (98) is set to **Off**.
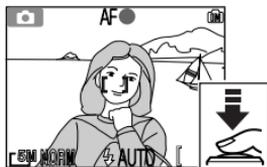
1 **Focus**
Position the subject in the center of the frame in the monitor and press the Shutter-release Button halfway.

2 **Check the Green (AF) Lamp and focus indicator**
When the subject is in focus, the green (AF) Lamp next to the viewfinder and focus indicator on the monitor are lit. Focus area shows green on the monitor.
- Focus and exposure will remain locked while the Shutter-release Button is pressed halfway.
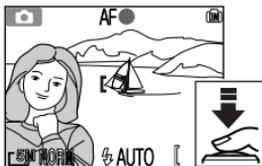
3 **Recompose the picture**
Keeping the Shutter-release Button pressed halfway, recompose your picture. Do not change the distance between the camera and your subject while AF lock is in effect. If your subject moves, remove your finger from the Shutter-release Button and focus again at the new distance.

4 **Take the picture**
Press the Shutter-release Button the rest of the way down to shoot.

99

Using [+] Manual Option

Focus area can be specified from the selectable area in the screen.

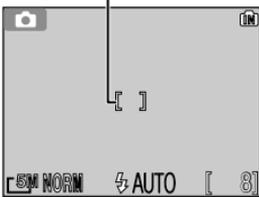|	
1 Focus area Select **Manual** in **AF area mode**. Currently selected focus area is displayed.	**2** Focus area selection guide Selectable area Focus area selection guide and selectable area are displayed.
3 Move focus area so that your subject is positioned in it in your composition. • You can move focus area to the directions displayed.	**4** AF● Press Shutter-release Button halfway. When subject is in focus, focus area is displayed in green. Press Shutter-release Button the rest of the way down to shoot.
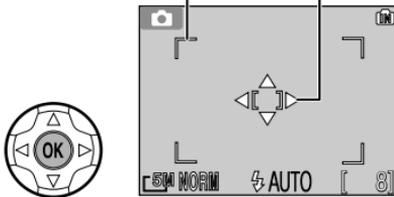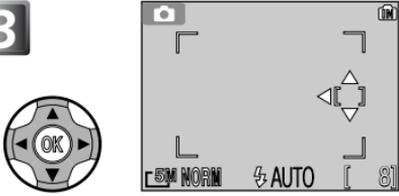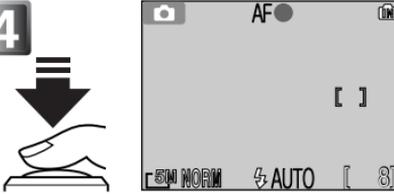
📖 Notes on Shooting in [+] Manual

Flash mode (🈴44), Exposure comp. (🈴49), Macro close-up mode (🈴48), and Self-timer mode (🈴46) can not be set while the focus area selection guide and selectable area are displayed. Press ⓞⓚ to hide the focus area selection guide before adjusting these settings. To change focus area, press ⓞⓚ again after making setting for them.
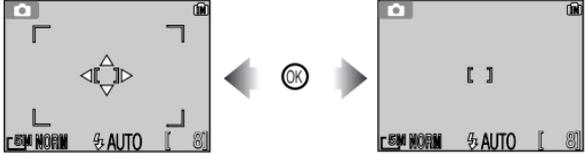
When the guide and selectable area are displayed   ⟵ ⓞⓚ ⟶   When the guide and selectable area are hidden

⏵ **Auto-focus Mode**

Press MENU Button in ● (Auto shooting) mode to se-
lect **Auto-focus mode** (🖼81), and then press ▶.
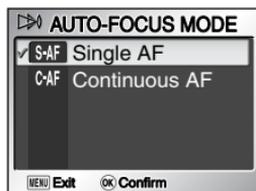
Auto-focus mode determines how the camera fo-
cuses when the monitor is on (**Single AF** is used
when the monitor is off regardless of the setting se-
lected for **Auto-focus mode**).

⏵ AUTO-FOCUS MODE
✓ S-AF Single AF
C-AF Continuous AF

MENU Exit   ⊛ Confirm

Select from the following two options and press ⊛.

Option	Description
S-AF **Single AF** (default setting)	Camera focuses only when Shutter-release Button is pressed halfway.
C-AF **Continuous AF**	Camera adjusts focus continuously until Shutter-release Button is pressed halfway, minimizing time needed to focus before picture is taken.

The Shooting Menu

🖉 **Confirming Focus**

Regardless of the option chosen, pictures can be taken even when the camera is not in focus; check the Green (AF) Lamp, AF area, or focus indicator before shooting.

🖉 **Setting Auto-focus Mode in Auto Shooting and Movie Shooting Respectively**

Auto-focus mode for the movie recording can be set in Movie menu (🖼54).

NR Noise Reduction

Press MENU Button in ● (Auto shooting) mode to se-
lect **Noise reduction** (81), and then press ▶.

NR NOISE REDUCTION
NR On
✓ 🔆 Off

MENU Exit   OK Confirm
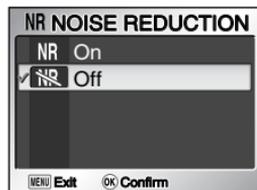
At slower shutter speeds, "noise" in the form of
randomly-spaced, brightly-colored pixels may ap-
pear in pictures, particularly in shadows. When you
take pictures in dark places, noise reduction can be
used to reduce noise at slow shutter speeds.

Select NR **On** or 🔆 **Off** and press ⓞ.

Option	Description
NR **On**	Noise reduction takes effect at slow shutter speeds which cause "noise." Time required to save pictures in the memory or on the memory card more than usual.
🔆 **Off** (default setting)	Noise reduction off; camera functions normally.

🖋 Restrictions on Noise Reduction

When shooting pictures using the following options, Noise reduction has no effect:
• **BSS** (91) is **On**.
• **Auto bracketing** is BKT **Auto bracketing** or WB **WB bracketing** (96).
• **Continuous** setting is other than S **Single** (89).

🖋 Sensitivity (ISO Equivalency)

When raising sensitivity (95), "noise" may appear in a picture.
In this case, noise in pictures taken at slow shutter speeds will be reduced automatically
when **Noise reduction** is **On**.

🔍 Noise Reduction

When **Noise reduction** is **On**, an **NR** (noise reduction) icon ap-
pears in the monitor.

NR

504 NORM 🗲 AUTO [8]

102

Using the Playback Menu

The Playback menu contains the following options:

Option	Description	℧
Print set	Select pictures for printing on a DPOF-compatible device; specify number of copies and information to be included on prints.	71 - 73
Slide show	View pictures in an automatic slide show.	105 - 106
Delete	Delete all or selected pictures.	107 - 108
Protect	Protect selected pictures from accidental deletion.	109
Transfer marking	Change transfer setting of the recorded pictures.	110 - 111
Small pic.	Create small copies of current picture.	112
Copy	Copy pictures from the memory to the memory card, or vice versa.	113

To Display the Playback Menu:

1	2
Display Playback mode.	**PLAYBACK MENU 1/2** 🖨 Print set 🖳 Slide show 🗑 Delete ⊶ Protect 〜 Transfer marking MENU Exit OK Confirm ? Help Display Playback menu. Press ▲ or ▼ to highlight menu item, and press ▶. • To exit the Playback menu and return to the Playback mode, press the MENU Button again.

The Playback Menu

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Icon Type Display

Using the **Menus** option of the Set-up menu switches the menu display between **Text** and **Icons** (135).

```
┌─────────────────────────┐
│ ▣ PLAYBACK MENU 1/2     │
│ ⏏ Print set          ▷   │
│ ▣ Slide show            │
│ 🗑 Delete               │
│ �–ⁿ Protect             │
│ ∿ Transfer marking      │
│ MENU Exit  OK Confirm ? Help │
└─────────────────────────┘
         Text
```

```
┌─────────────────────────┐
│ ▣              Print set │
│ ⏏   ▣   🗑              │
│ o–ⁿ  ∿   🖼              │
│ 🔲                      │
│ MENU Exit  OK Confirm ? Help │
└─────────────────────────┘
         Icons
```
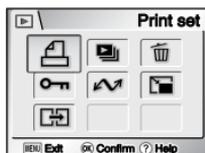
Playback Menu Help

When the Playback menu is displayed, pressing ❷🔍 (**T**) Button displays the help for the selected item.

- To return to the Playback menu, press the ❷🔍 (**T**) Button.
- To return to the Playback mode, press the **MENU** Button.
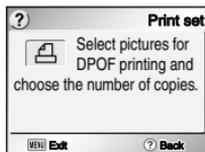
```
┌─────────────────────────┐
│ ?              Print set │
│ ⏏  Select pictures for  │
│    DPOF printing and    │
│ choose the number of copies. │
│                         │
│ MENU Exit          ? Back │
└─────────────────────────┘
```

🖭 Slide Show

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

- Pictures are played back in the order they were recorded (smallest file number to largest file number).
- The maximum playback time for a slide show is 30 minutes.

	🖭 SLIDE SHOW		
1	Pause → ⑳	**2**	
	Start		
	☐ Loop		
	MENU Exit ⑳ Confirm		
Highlight **Start**.		Begin slide show.	

The following operations can be performed during the show:

To	Press	Description
Pause		Pause slide show and menu will be displayed. Highlight **Restart** and press ⑳ to resume show. Highlight **End** and press ⑳ to end show. Pause End Restart MENU Exit ⑳ Confirm
Skip to next frame		Press ▶ to skip to next slide. Hold ▶ down to fast forward through show.
Return to previous frame		Press ◀ to return to previous slide. Hold ◀ down to rewind through show.
End slide show	MENU	End slide show and return to Playback mode.

The Playback Menu

105

Images in the Memory

The pictures in the memory and on the memory card can not be displayed simultaneously. To display pictures in the memory, select either of the following:
- Remove the memory card from the camera (❚❙ 13), and display pictures.
- Copy pictures stored in the memory to a memory card (❚❙ 113), and display the pictures.

"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.
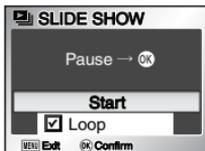
Notes on the Slide Show

- If no operations are performed for 30 minutes after the slide show is started, the monitor will turn off with **Auto off**, and the camera will turn off after three minutes.
- Movies are displayed as still images showing the movie's first frame.

🗑 Delete

Press MENU Button in Playback mode to select **Delete**
(🕮103), and then press ▶.

This option is used to delete selected pictures or all pictures stored in the memory or on the memory card.
- When the memory card is not inserted in the camera, pictures stored in the memory are deleted.
- When the memory card is inserted in the camera, pictures stored on the memory card are deleted.

The delete menu contains the following options:

Option	Description
🗑 **Erase selected images**	Delete selected pictures.
🗑 **Erase all images**	Delete all pictures stored in the memory or on the memory card.

🗑 Deleting Selected Pictures (Erase selected images)

1

🗑 **DELETE**
🗑 Erase selected images ▶
🗑 Erase all images

MENU **Exit** OK **Confirm**

Highlight **Erase selected images** and press ▶.

2

🗑 **ERASE SELECTED IMAGES**

▲ ON
▼ OFF
01.05.2005
12:00 [2/ 4]

MENU **Back** OK **Confirm**

Scroll through pictures.
- To cancel the selection, press MENU Button.

The Playback Menu

✐ **Notes on Voice Memo**

Voice memo can be deleted with **Delete** in the Playback menu. To delete only the voice memo recorded to the picture, press 🗑 in the full-screen playback mode, thumbnail playback mode, or playback zoom mode (🕮57).

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3	🗑 **ERASE SELECTED IMAGES**

△ON
▽OFF

01.05.2005
12:00   [2/ 4]

MENU Back (OK) Confirm

Use ▲ (ON) to select picture. 🗑 icon is marked on the selected picture.
• Repeat steps 2 - 3 to select additional pictures.
• To deselect picture, select and press ▼ (OFF). 🗑 icon will disappear.

4	🗑 **DELETE**

Erase 1 image(s)?

No
Yes

MENU Exit (OK) Confirm

Confirmation dialog displayed.
• Select **Yes** and press ⓞ to delete selected pictures.
• Select **No** and press ⓞ to exit without deleting pictures.

🗑 Deleting All Pictures (Erase all images)

Delete all pictures stored in the memory or on the memory card.

1	🗑 **DELETE**

🗑 Erase selected images
🗑 Erase all images ▶

MENU Exit (OK) Confirm

Highlight **Erase all images** and press ▶.

2	🗑 **DELETE**

Erasing all images
(⊶ excluded)

No
Yes

MENU Exit (OK) Confirm

Confirmation dialog displayed.
• Select **Yes** and press ⓞ to delete all pictures.
• Select **No** and press ⓞ to exit without deleting pictures.

The Playback Menu

🖉 Notes on Deletion

• **Once deleted, pictures can not be recovered.** If desired, transfer pictures to a computer before deletion.
• Pictures marked with a ⊶ icon are protected and can not be deleted (🔧 109).

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o-n Protect

Press MENU Button in Playback mode to select **Protect** (103), and then press ▶.

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

1	o-n PROTECT ▲ ON ▼ OFF 01.05.2005 12:00 [2/ 4] MENU Back OK Confirm Scroll through pictures. • To cancel **Protect** setting, press MENU Button.	**2**	o-n PROTECT ▲ ON ▼ OFF 01.05.2005 12:00 [2/ 4] MENU Back OK Confirm Use ▲ (ON) to select picture. o-n icon is marked on the selected picture. • Repeat steps 1 - 2 to select additional pictures. • To deselect picture, select and press ▼ (OFF). o-n icon will disappear.
3	Done o-n	Complete operation.	

✐ Notes on Protecting Pictures

Protected pictures can not be deleted using the ⛔ Button or the **Delete** menu. However, all pictures, including protected files, will be deleted when the memory or the memory card is formatted.

🔎 The Protect Icon

During the playback mode, a o-n icon appears on all protected pictures.

o-n
NORM   [2/ 4]

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〰 **Transfer Marking**

Press MENU Button in Playback mode to select **Transfer marking** (103), and then press ▶.

When you connect the camera to a computer running PictureProject via the UC-E6 USB cable and press the camera ⓦ (Transfer 〰) Button to transfer pictures, only pictures marked with a 〰 icon will be transferred.

This option is used to change transfer setting of the recorded pictures.

Select from the following three options and press ⓦ.

Option	Description
〰 **All on**	Mark all pictures for transfer.
〰 **All off**	Remove transfer marking from all pictures.
▦ **Select image(s)**	Select pictures for transfer.

✎ **Notes on Transfer Marking**

- No more than 999 pictures can be marked for transfer. If the memory or the memory card contains more than 999 pictures, transfer all pictures using PictureProject. See the *PictureProject Reference Manual* (on CD) for details.
- The E7900/E5900 can not be used to transfer pictures selected for transfer with another model of Nikon digital camera. Use E7900/E5900 to reselect the pictures.

✎ **The 〰 Icon**

The selected pictures are indicated by a 〰 icon in Playback mode.
When setting **On** (default setting) in **Auto transfer** of the Set-up menu, all the recorded pictures are set to transfer (133).
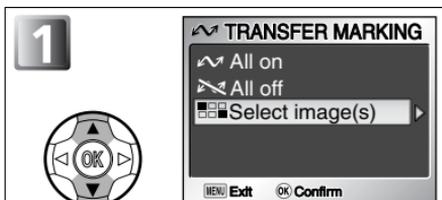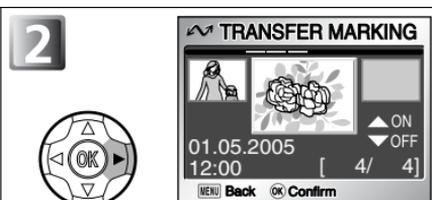
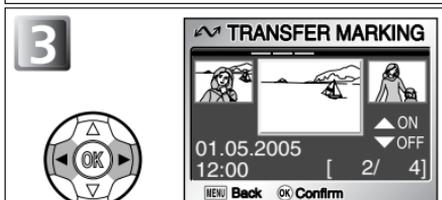Full-screen playback   Thumbnail playback

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The Playback Menu

⊞ **Marking Selected Pictures for Transfer (Selected image)**

1

⌃ TRANSFER MARKING
～ All on
～ All off
⊞ Select image(s) ▶

Ⓜ Exit ⓞⓀ Confirm

Highlight **Select image(s)**.

2

⌃ TRANSFER MARKING

▲ ON
▼ OFF
01.05.2005
12:00 [4/ 4]
Ⓜ Back ⓞⓀ Confirm

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

3

⌃ TRANSFER MARKING

▲ ON
▼ OFF
01.05.2005
12:00 [2/ 4]
Ⓜ Back ⓞⓀ Confirm

Scroll through pictures to select pictures to be transferred.

• To cancel the selection, press Ⓜ Button.

4

⌃ TRANSFER MARKING

▲ ON
▼ OFF
01.05.2005
12:00 [2/ 4]
Ⓜ Back ⓞⓀ Confirm
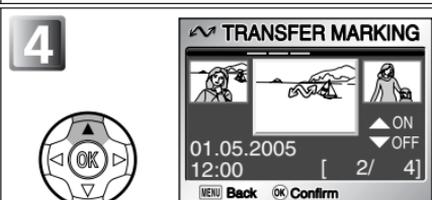
Use ▲ (ON) to select picture. A ∿ icon is marked on the selected picture.

• Repeat steps 3 - 4 to select additional pictures.
• To deselect picture, select and press ▼ (OFF). The ∿ icon will disappear.

5

Done

∿

Complete operation.

Small Pic.

Press MENU Button in Playback mode to select **Small pic.** (103), and then press ▶.

To create a small copy of a picture, select **Small pic.** after displaying the image in Full-screen playback mode. The following resize options are available:

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

1

SMALL PIC
■ 640 x 480 ▶
■ 320 x 240
▢ 160 x 120

MENU Exit OK Confirm
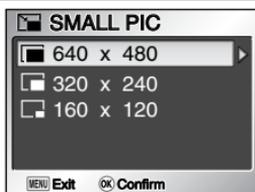
Highlight the picture size, and press ⊛. Confirmation dialog displayed.

2

Save this image as displayed?

No
Yes

MENU Exit OK Confirm

Highlight **Yes**, and press ⊛ to copy the picture.
• Select **No** and press ⊛ to exit without creating copy.

- Copies are stored on the memory as BASIC-quality JPEG files (compression ratio 1:16).
- Copies are stored in separate files in the memory or on the memory card with names of the form "SSCN*nnnn*.JPG," where "*nnnn*" is a four-digit number assigned automatically by the camera.
- In thumbnail playback, small pictures are indicated by a gray border.

🖉 Notes on Small Picture

- Small pictures can not be created from cropped copies (60), or copies created with D-Lighting (61) or **Small pic.**.
- Copies can only be created with **Small pic.** if sufficient space is available in the memory or on the memory card.
- Small pictures can not be zoomed.
- Nikon does not guarantee any operation of the small picture function for pictures taken with other models of Nikon digital camera.

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⏏ **Copy**

Press MENU Button in Playback mode to select **Copy** (103), and then press ▶.

Copy stored pictures from the internal memory to the memory card, or vice versa.

Option	Description
⏁→⏍	Copy stored pictures from the memory to the memory card. You can either choose pictures to copy, or copy all pictures in the memory to the memory card.
⏍→⏁	Copy stored pictures from the memory card to the memory. You can either choose pictures to copy, or copy all pictures on the memory card to the memory.

▦ Marking Selected Pictures for Copy (Selected images)

1	⏏ COPY ⏁→⏍ ⏍→⏁ MENU **Exit**　 ⊛ **Confirm** Highlight direction as shown above, and press ▶.	**2**	⏏ CAMERA TO CARD ▦ Selected images ☐ All images MENU **Exit**　 ⊛ **Confirm** Highlight **Selected images**, and press ▶.

113

3	**COPY** ▲ ON ▼ OFF 01.05.2005 12:00 [2/ 4] MENU Back ⓞⓚ Confirm
Scroll through pictures. • To cancel the selection, press MENU Button.	

4	**COPY** ▲ ON ▼ OFF 01.05.2005 12:00 [2/ 4] MENU Back ⓞⓚ Confirm
Use ▲ (ON) to select picture. ▣ icon is marked on the selected picture. • Repeat steps 3 - 4 to select additional pictures. • To deselect picture, select and press ▼ (OFF). The ▣ icon will disappear.	

5	**CAMERA TO CARD** Selected images will be copied. OK? No Yes MENU Exit ⓞⓚ Confirm
The confirmation dialog will be displayed.	

6	Done ▣
Highlight **Yes**, and press ⓞ to copy the pictures. • Select **No** to exit without copying pictures.	

::: Marking All Pictures for Copy (All images)

1 Highlight direction as shown on the table (🔲 113), and press ▶.

> 🔁 COPY
> 🔲→🗂
> 🗂→🔲
>
> MENU Exit   OK Confirm

2 Highlight **All images**.

> 🔁 CAMERA TO CARD
> :::Selected images
> ▪▪ All images
>
> MENU Exit   OK Confirm

3 The confirmation dialog will be displayed.

> 🔁 CAMERA TO CARD
> All images will be copied. OK?
> No
> Yes
>
> MENU Exit   OK Confirm

4 Highlight **Yes**, and press ⓞ to copy all pictures in the memory or on the memory card.
• Select **No** to exit without copying pictures.

> Done
> 🔁

🖉 Image Copy

• When **Selected images** is selected, 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.
• When **All images** is selected, all folders in the memory or on the memory card are copied. The folder name has a new folder number assigned automatically by the camera (one is added to the maximum folder number in the destination memory). If a new folder is not created, an error message will be displayed and the copying is not executed.
• If the space in the destination memory is not enough for the copy, copying is canceled and an error message is displayed.
• The available file formats for copy are JPEG, MOV and WAV. You can not copy an image file in other than these file formats.
• Copying of pictures taken with another make of camera or retouched on a computer is not guaranteed by Nikon.

🖉 Print Set (Digital Print Order Format)

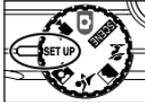Even if a print order has been created, the print order data will not be copied with the picture.

The Playback Menu

115

Using the Set-up Menu

The Set-up menu contains the following options:

Option	Description	♒
Welcome screen	Choose the welcome screen to be displayed when the camera is turned on.	118
Date	Set the camera clock.	120
Monitor settings	Set display and brightness of the monitor.	122
Date imprint	Imprint pictures with the date and/or time of recording.	124
AF assist	Choose whether the AF-assist Illuminator lights when the subject is poorly lit.	126
Sound settings	Set button sound and adjust volume of shutter and start-up sounds.	127
Blur warning	Choose whether or not to perform a camera shake check.	128
Auto off	Choose how long the monitor will remain on before turning off automatically to save power.	129
Format memory/card	Format the memory or the memory card for use in the camera.	130
Language	Choose a language for camera menus and messages.	132
Interface	Set USB mode or the video mode.	132
Auto transfer	Choose whether or not to set **Transfer marking** option to the picture taken.	133
Reset all	Restore camera settings to their default settings.	134
Menus	Choose a type of the camera menu.	135
Firmware version	Display the current camera firmware version.	135

To Display the Set-up Menu

1

Rotate Mode Dial to SET UP.
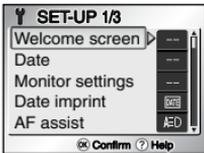• Set-up menu is displayed.

⑨ SET-UP 1/3	
Welcome screen ▶	--
Date	--
Monitor settings	--
Date imprint	DATE
AF assist	AED
⑩ Confirm ⑦ Help	

2

Highlight menu item and press ▶.
• To exit Set-up menu, rotate Mode Dial to another mode or press ▶ Button.

⑨ SET-UP 1/3	
Welcome screen	--
Date	--
Monitor settings ▶	--
Date imprint	DATE
AF assist	AED
⑩ Confirm ⑦ Help	

📖 Icon Type Display

Using **Menus** option of the Set-up menu switches the menu display between **Text** and **Icons** (🔖 135).

Text   Icons

📖 Set-Up Menu Help

When the Set-up menu is displayed, pressing ❷🔍 (**T**) Button displays the help for the selected item.
• To return to the Set-up menu, press the ❷🔍 (**T**) Button.

⑦ Welcome screen
Choose the image displayed when the camera is turned on.
⑦ Back

The Set-up Menu

117

⊡Nikon Welcome Screen

Rotate the Mode Dial to SETUP to select **Welcome screen** (🔆 117), and then press ▶.

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

Select from the following four options and press ⓞ.

Option	Description
Disable welcome	No welcome screen is displayed when camera is turned on.
Nikon	Image shown at right is displayed when camera is turned on.
Animation (default setting)	Short animation is displayed when camera is turned on.
Select an image	You can choose the welcome screen from pictures stored in the memory or on the memory card. 1 SELECT IMAGE screen is displayed. Highlight a picture using the Multi Selector. 2 Press ⓞ. To select a picture stored in the camera memory, remove the memory card.

The Set-up Menu

118

📝 Small Pictures and Cropped Copies

Resized copies created with the small picture (🔅 112) and cropping options (🔅 60) can only be selected for the welcome screen if they are 640×480 pixels or larger.

🔍 "Select an Image"

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

WELCOME IMAGE SELECT
Replace current image?
No
Yes
Confirm

⊕ Date

Rotate the Mode Dial to SET UP to select **Date** (117), and then press .

This option is used to set the camera clock and to choose home time zone and new city time zone (travel destination time zone).

⊕ DATE

01.05.2005 10:00

| Date | ► | -- |
| Time zone | | 🏠 |

Ⓞ Confirm
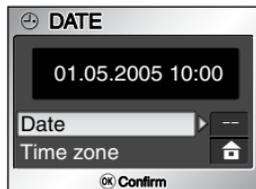
Date

Date is used to set the camera clock to the current date and time. See "First Steps: Basic Setup" (16).

Time Zone

Select the time zone. The normal time zone setting is 🏠 (home time zone). If you select ✈ (new city time zone), the time difference is automatically calculated and the date and time in the selected region are displayed.

⊕ TIME ZONE

01.05.2005 15:00

○ 🏠 London, Casablanca ►
☐ DaylightSaving
○ ✈ London, Casablanca
☐ DaylightSaving

Ⓞ Confirm

Dot marks selected option

| 1 | ⊕ TIME ZONE
01.05.2005 15:00
○ 🏠 London, Casablanca ►
☐ DaylightSaving
○ ✈ London, Casablanca
☐ DaylightSaving
Ⓞ Confirm | Select home time zone or new city time zone.
• To set the clock to the home time zone, highlight 🏠 and press Ⓞ.
• To set the clock to the new city time zone, highlight ✈ and press Ⓞ.
• To turn daylight saving time on, highlight **DaylightSaving** and press Ⓞ. The ✓ icon is displayed in ☐. |

2	⊕ HOME TIME ZONE 🏠 London, Casablanca MENU Back ㉿ Confirm	**3**	⊕ HOME TIME ZONE 🏠 London, Casablanca MENU Back ㉿ Confirm
Selected time zone is displayed.		Choose time zone, and press ㉿. Time zone is set.	

The camera supports the following time zones:

GMT +/–	Location
GMT –11	Midway, Samoa
GMT –10	Hawaii, Tahiti
GMT –9	Alaska, Anchorage
GMT –8	PST (PDT*): Los Angeles, Seattle, Vancouver
GMT –7	MST (MDT*): Denver, Phoenix, La Paz
GMT –6	CST (CDT*): Chicago, Houston, MexicoCity
GMT –5	EST (EDT*): New York, Toronto, Lima
GMT –4	Caracas, Manaus
GMT –3	BuenosAires, SaoPaulo
GMT –2	Fernando de Noronha
GMT –1	Azores

GMT +/–	Location
GMT	London, Casablanca
GMT +1	Madrid, Paris, Berlin
GMT +2	Athens, Helsinki
GMT +3	Moscow, Nairobi
GMT +4	AbuDhabi, 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	NewCaledonia
GMT +12	Auckland, Fiji

* When daylight saving time is turned on.

🖉 Time Zones

Time zone increments of less than one hour are not supported. When traveling 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 (🖪 16, 120).

🖉 Time Zone Display

When the new city time zone is selected, a ⇒ icon will be displayed in the monitor.

📺 Monitor Settings

> Rotate the Mode Dial to SETUP to select **Monitor settings** (📖117), and then press ▶.

This option is used to set the display's appearance and brightness.

```
📺 MONITOR SETTINGS
Photo info          ▸  --
Brightness             3




       ㉿Confirm
```

Photo Info

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

Option	Description	Monitor
Show info	Display current settings or operation guide in monitor when taking or viewing pictures.	
Auto info	Display current settings or operation guide in the monitor for five seconds.	
Hide info	Current settings or operation guide are hidden.	
Framing grid	Display a framing grid in the monitor in the Auto shooting mode. Current settings or operation guide are displayed in monitor (for five seconds in the shooting mode).	
Monitor off	The monitor is turned off in the Auto shooting mode only. The current settings or operation guide are displayed in other modes. • When taking pictures, use the viewfinder. **AF area mode** is set to [▪] **Off** and **Auto-focus mode** is S-AF **Single AF**. • When the monitor is turned off, the camera enters energy-saving mode. The camera focuses on the center focus area and focus response speed drops slightly.	

The Set-up Menu

122

Brightness

This option is used to adjust the monitor brightness to one of five grades.

Select **Brightness** and press ▶ to display the brightness adjustment screen. Press ▲ or ▼ of the Multi Selector to increase or decrease the brightness of the monitor by moving the indicator on the left of the display up or down, and press ⓞ.

□ BRIGHTNESS

ⓞ Confirm

⏲ Date Imprint

Rotate the Mode Dial to SETUP to select **Date imprint** (117), and then press ▶.
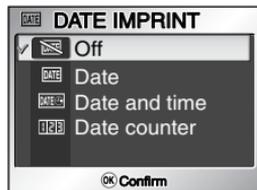
The **Date imprint** option is used to imprint the date or the date and time of recording on pictures as they are recorded to the memory or memory card. It can not be used to imprint a date stamp on pictures after recording.

⏲ DATE IMPRINT
- ✓ Off
- ⏲ Date
- ⏲⏱ Date and time
- 🔢 Date counter

OK Confirm

Option	Description
⏲ **Off** (default setting)	Time and date do not appear on pictures.
⏲ **Date**	Date is imprinted at bottom right corner of all pictures taken while this option is in effect.
⏲⏱ **Date and time**	Date and time are imprinted at bottom right corner of all pictures taken while this option is in effect.
🔢 **Date counter**	Number of days from stored date until date of recording is imprinted at bottom right corner of all pictures taken while this option is in effect.

🖉 Restrictions on Date Imprint

- Imprinted date can not be deleted.
- **Date imprint** can not be selected if the camera clock has not been set (16, 120).
- When shooting with the following, **Date imprint** is automatically canceled: **Continuous** (89), **5 shot buffer** (89), **Multi-shot 16** (89), **BSS** (91), **Auto bracketing** (96), **WB bracketing** (96) modes, **MUSEUM** (39), **PANORAMA ASSIST** (42), **SPORTS** and **SPORTS SPECTATOR** of 🏃 (sports assist) (34) mode, and the Movie mode (55).
- Date imprinted at an **Image size** (84) setting of ⌐TV **640 × 480** may be difficult to read. We recommend that Image size is ⌐PC **1024 × 768** or larger when using the **Date imprint** option.
- The date is recorded in the order selected in **Date** (16, 120).
- 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.

🔍 Date Imprint

Unless the setting is **Off**, Date imprint is shown by an icon in the monitor.

⌐5M NORM   ⚡AUTO   [🔄]

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The Set-up Menu

Date Counter

This option is used to store the date and imprint the number of days from that date until the date of recording on pictures.

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

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

Option	Description
Stored dates	In the Date counter menu, press ▲ or ▼ to select Stored dates, and press ▶ to display the Stored dates menu. Up to 3 dates can be stored. Press ▲ or ▼ to highlight option, then press ▶. Enter date. Follow steps described in Basic Setup (🖑 16). Dates between 1 January 1910 and 31 December 2037 can be stored. Select a stored date number and press ⓞ, the date will be imprinted.
Display options	In the Date counter menu, press ▲ or ▼ to select Display options, and press ▶ to display the Display options menu. The type of display can be selected. Press ▲ or ▼ to highlight option, then press ⓞ.

🖉 Date Counter

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

The Set-up Menu

125

ED AF Assist

Rotate the Mode Dial to SETUP to select **AF assist** (🐾 117), and then press ▶.
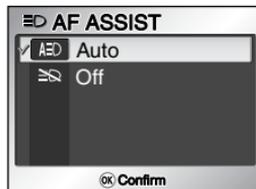
Your camera is equipped with an AF-assist Illuminator. If lighting is poor, the built-in AF-assist Illuminator will light when the shutter-release button is pressed halfway, allowing the camera to focus even when the subject is poorly lit. Select **Auto** (default setting) or **Off** and press ⊛.

Option	Description
AED **Auto** (default setting)	If lighting is poor, the AF-assist illuminator lights when the Shutter-release Button is pressed halfway, allowing the camera to focus the subject (🐾 24).
≋◯ **Off**	The AF-Assist Illuminator does not light. The AF-assist Illuminator can be turned off for shooting in situations in which the AF-assist Illuminator is too bright for human subjects or in which flash photography is prohibited. When the AF-assist Illuminator is turned off, it will not light even when the subject is poorly lit. Under these conditions, however, the camera may not be able to focus accurately.

✐ AF-Assist Illuminator Provides the Following Range
• Zoom out: a range of approx. 0.4 - 2.4 m (1'3" - 7'9")
• Zoom in: a range of approx. 0.4 - 1.5 m (1'3" - 4'9")

✐ AF-Assist Illuminator
When the **AF-assist** option is set to **Auto**, the AF-assist Illuminator will light in the following cases:
• **AF area mode** is set to [▣] **Auto** or [▪] **Off** in the shooting menu, or the focus area in the center of the frame is selected when **AF area mode** is set to [▫] **Manual**.
• Shooting in ὦ (portrait assist) mode without using a framing guide (🐾 31).
• Shooting in ◪ (night portrait assist) mode without using a framing guide (🐾 35).
• Shooting in the close-up mode.
• Shooting in the scene mode such as ❧ **PARTY/INDOOR**, 🏖 **BEACH/SNOW**, 🌆 **DASK/DAWN**, ▢ **COPY**, ⚜ **BACK LIGHT**, or ▭ **PANORAMA ASSIST**.

The Set-up Menu

126

Sound Settings

Rotate the Mode Dial to SETUP to select **Sound settings** (🔲 117), and then press ▶.

◄)) SOUND SETTINGS
Button sound ▸ ON
Shutter sound ◢
Start-up sound ◢

⊛ Confirm

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

Option	Description
Button sound	Control the sound played when buttons are pressed. The button sound is played in the following cases: • Rotating the Mode Dial to the other mode. • Pressing ▶ to displayed shooting or playback mode. • Pressing ⊛ to select option or menu. • Battery is low. • You can not take pictures because of the memory or a memory card status. • An error occurs. **◄)) BUTTON SOUND** Off ✓ On ⊛ Confirm
Shutter sound	Adjust volume of shutter sound. Press ▲ or ▼ to highlight option, press ⊛ to select. **◄)) SHUTTER SOUND** ◄)) ◢ Loud ✓ Normal Off ⊛ Confirm
Start-up sound	Adjust volume of sound played when camera is turned on. **◄)) START-UP SOUND** ◄)) ◢ Loud ✓ Normal Off ⊛ Confirm

🖉 **Shutter Sound**

Shutter sound is not produced in the following case:
• Shooting in the Movie mode (🔲 51).
• Shooting in ⚡ (sports assist) mode (🔲 34).
• **Continuous** (🔲 89) is set to ⬚ **Continuous**, ▥ **5 shot buffer**, or 🅴 **Multi-shot 16**.
• **BSS** is set to **On** (🔲 91).
• **Bracketing** is set to **On** (🔲 96).

The Set-up Menu

127

<img> **Blur Warning**

Rotate the Mode Dial to SETUP to select **Blur Warning** (117), and then press ▶.

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.

<img> **BLUR WARNING**

Off
✓ On

⊕ Confirm

🖐 PICTURE IS BLURRED. SAVE PICTURE?

No
Yes

⊕ Confirm
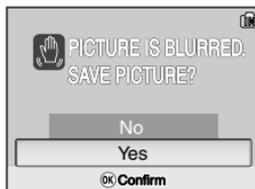
✎ Shooting Modes Where the Blur Warning Does Not Function

In the Shooting modes shown below, the blur warning is not available even if **Blur warning** option is set to **On**: 🔁**Continuous** (89), 🔳**5 shot buffer** (89), 🔳**Multishot 16** (89), and BSS **BSS** (91) modes, as well as 🏃(sports assist) (34) of assist mode, 🏛 **MUSEUM** (39), 🎆**FIREWORKS SHOW** (40), and ▭**PANORAMA ASSIST** (41) of scene mode.

✎ 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 ▶.

128

⌚ Auto Off

Rotate the Mode Dial to SETUP to select **Auto off** (🖳117), and then press ▶.

To save battery power, the camera will enter stand-by mode if no operations are performed for a pre-set length of time.

⌚ AUTO OFF

| Auto off | ▶ 1m |
| Sleep mode | OFF |

🔘 Confirm

Option	Description	
Auto Off	Choose how long monitor will remain on before turning off automatically from thirty seconds (**30s**), one minute (**1m**) default setting, five minutes (**5m**) and thirty minutes (**30m**), and press 🔘. For more details of Auto off, see 129.	⌚ AUTO OFF 30s ✓ 1m 5m 30m 🔘 Confirm
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 the auto off menu has elapsed. The camera will enter sleep mode after thirty seconds of non-operation when **Auto off** is set to thirty seconds (**30s**) or one minute (**1m**), and after one minute when **Auto off** is set to five minutes (**5m**) or thirty minutes (**30m**).	⌚ SLEEP MODE ✓ Off On 🔘 Confirm

The Set-up Menu

129

⌨/☐ Format Memory/Card

Rotate the Mode Dial to SET UP to select **Format memory** or **Format card** (🎞 117), and then press ▶.
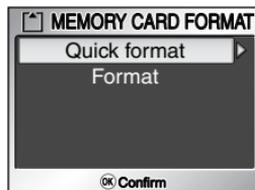
This menu allows the memory or the memory card to be formatted for use in the camera.

MEMORY CARD FORMAT
Quick format
Format
OK Confirm

- Before formatting the memory, remove the memory card from the camera. **Format memory** is displayed in the Set-up menu.
- When the memory card is inserted in the camera, the memory card will be formatted. **Format card** is displayed in the Set-up menu.

Options		Descriptions
⌨ **Format memory** (No memory card inserted)		Format the internal memory.
☐ **Format card** (Memory card inserted)	**Quick format**	• This option is used for formatting new memory cards or the cards that have been formatted with this camera. **Quick format** requires less time than **Format**. • Using **Quick format** regularly for memory cards is recommended to maintain the performance of memory cards.
	Format	• This option is used for formatting memory cards formatted with the other devices than this camera. • When it takes long time to save movie on memory card or errors occur while shooting movie in **TV movie 640 ★** (30 fps) in spite of formatting with **Quick format**, select **Format**.

The Set-up Menu

130

1

MEMORY CARD FORMAT
Quick format
Format

ⓝ Confirm

Highlight **Quick format** or **Format**. To exit without formatting the memory card, press ◀ to return to the Set-up menu.
• When formatting the memory, start the operation from step 2.

2

MEMORY CARD FORMAT
WARNING!
All images will be deleted!
No
Format

ⓝ Confirm

Highlight **Format**. To exit without formatting the memory card or memory, highlight **No** and press ⓝ (the center of the multi selector).
• When the memory card is not inserted, the FORMAT MEMORY screen is displayed.

3

FORMATTING

⌛

Begin formatting. While formatting is in progress, the message will be displayed.
• When formatting is complete, the Set-up menu is displayed.

✔ Notes on Formatting Memory/Card

• Format the memory card using the camera. If the memory card is formatted on the computer, some errors may occur when writing or reading data.
• Do not turn the camera off, or remove the battery or memory card, while the "FORMATTING" message is displayed.
• Formatting the memory or the memory card permanently deletes all data they contain, including protected pictures and any other data that may be in the memory or on the memory card. Before formatting, be sure to transfer any valued pictures to a computer (🕮 65).

✔ Quick Format and Format (for Memory Cards only)

• When **Quick format** is selected in the format menu, only the data recorded on the memory card is formatted.
• When **Format** is selected in the format menu, the entire memory card is formatted.
• **Format** is not available when ⬛ (🕮 14) is displayed.

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The Set-up Menu

 Language

Rotate the Mode Dial to SETUP to select **Language**
(📖 117), and then press ▶.

Deutsch	Svenska
√English	日本語
Español	中文(简体)
Français	中文(繁體)
Italiano	한글
Nederlands	

MENU **Back** OK **Confirm**

Choose the language for menus and messages dis-
played in the monitor from **Deutsch** (German), **En-
glish**, **Español** (Spanish), **Français** (French),
Italiano (Italian), **Nederlands** (Dutch), **Svenska**
(Swedish), 日本語 (Japanese), 中文(简体) (Simplified Chinese), 中文(繁體) (Tradi-
tional Chinese), or 한글 (Korean), and then press OK.

 Interface (USB/Video mode)

Rotate the Mode Dial to SETUP to select **Interface**
(📖 117), and then press ▶.

INTERFACE
| USB | ▶ P |
| Video mode | NTSC |

OK **Confirm**

USB

Select the USB option used when transferring pictures on a computer or
when connecting the camera to a printer supporting PictBridge. Choose **USB**
and press ▶, and select the USB option (📖 66).

Video Mode

Before connecting your camera to a video device
such as a television or VCR (📖 64), choose a video
mode that matches the video standard used in the
device. Choose **Video mode** and press ▶, and se-
lect the video mode item and press OK.
Your Nikon digital camera supports NTSC **NTSC** and
PAL **PAL** standards.

VIDEO MODE
| √ NTSC NTSC |
| PAL PAL |

OK **Confirm**

The Set-up Menu

132
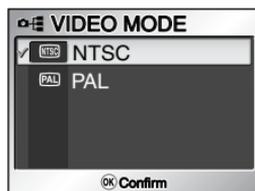
‹ Auto Transfer

Rotate the Mode Dial to SETUP to select **Auto Transfer** (117), and then press ▶.

‹ AUTO TRANSFER
- ✓‹ On
- ✗ Off

Confirm

When you connect the camera to a computer running PictureProject via the UC-E6 USB cable and press the camera ⊚ (Transfer ‹) Button to transfer pictures, only pictures marked with a ‹ icon will be transferred. When **Auto transfer** is set to **On**, all pictures to be taken will be transferred.

Option	Description
‹ **On** (default setting)	Pictures or movies are set to be transferred automatically when they are taken or recorded. ‹ icon is added when they are displayed.
✗ **Off**	Pictures or movies are set not to be transferred automatically when they are taken or recorded. ‹ icon is not added when they are displayed.

The Set-up Menu

Transfer Marking

Using **Transfer marking** in the Playback menu allows you to change the transfer setting of recorded pictures (110).

133

C Reset All

Rotate the Mode Dial to SETUP to select **Reset all** (117), and then press ▶.

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

The following settings are affected:

C RESET ALL

Reset all settings
to default values

No
Reset

OK Confirm
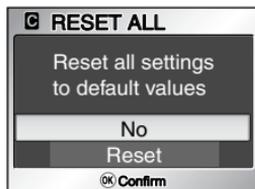
Setting	Default
🏃 Portrait assist	PORTRAIT
🏔 Landscape assist	LANDSCAPE
🏃 Sports assist	SPORTS
🌃 Night portrait assist	NIGHT PORTRAIT
SCENE Scene	PARTY/INDOOR
Movie options	TV movie 640 ★
Auto-focus mode (Movie menu)	Single AF
Electronic VR (E7900 only)	Off
Speedlight	Auto
Self-timer	Off
Macro close-up	Off
Exposure comp.	±0
Image quality	NORMAL
Image size (E7900)	7M
Image size (E5900)	5M
White balance	Auto
Metering	Matrix
Continuous	Single
BSS	Off

Setting	Default
Color options	Standard color
Image adjustment	Auto
Image sharpening	Auto
Sensitivity	Auto
Auto bracketing	Off
Saturation control	Normal
AF area mode	Auto
Auto-focus mode (Shooting menu)	Single AF
Noise reduction	Off
Welcome screen	Animation
Photo info	Show info
Brightness	3
Date imprint	Off
AF assist	Auto
Button sound	On
Shutter sound	Normal
Start-up sound	Normal
Blur warning	On
Auto off	1m
Sleep mode	Off
Auto transfer	On
Menus	Text

🖉 Resetting File Numbering to 0001

To reset file numbering (27) to 0001, select **Reset all** after either deleting all pictures (134) or formatting the memory or memory card (130).

▨▨ **Menus**

Rotate the Mode Dial to SETUP to select **Menu** (▧ 117), and then press ▶.

This option is used to switch the menu display of the Shooting menu, Movie menu, Playback menu, or Set-up menu to ▤ **Text** or ▦ **Icons**.

▨▨ **MENUS**
✓ ▤ Text
▦ Icons

▨ Confirm

Ver. **Firmware Version**

This option is used to check a firmware version for your camera. To return to the Set-up menu, press ◀.

E5900 Ver. 1.0

◖ Back

Technical Notes

Optional Accessories

The following optional accessories are available for your Nikon digital camera. Contact your local retailer.

Rechargeable battery	Additional EN-EL5 Li-ion batteries are available from your retailer or local Nikon representative.
Battery charger	MH-61 battery charger for EN-EL5 batteries
AC adapter	EH-62A AC adapter kit
Carrying case	CS-CP18 soft case (Not available in U.S.)
Waterproof case	WP-CP4 waterproof case (Not available in some areas)

Approved Memory Cards

The following cards have been tested and approved for use:

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

* Use cards rated for 10MB/s or more.

Connecting the EH-62A AC Adapter Kit

An optional EH-62A AC adapter kit can be used to provide power from a wall plug outlet to the Nikon E7900/E5900 when the camera is used for an extended period, such as connecting it with a computer or printer.
Before connecting the AC adapter kit, turn the camera off and make sure that the power-on lamp has gone out.
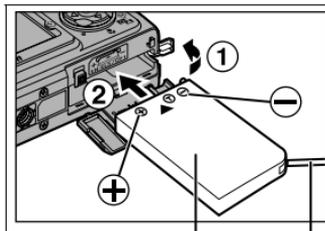
EP-62A Power connector

Power connector cord

1 **Open the Battery-chamber Cover and the Power Connector Cover (①), and then insert the EP-62A power connector (②).**
Make sure the EP-62A is oriented correctly and insert it into the battery chamber pushing aside the orange battery latch.
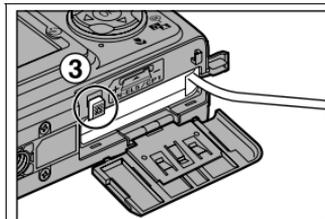
2 **Lock the power connector.**
The battery latch will be pushed out of the way as the EP-62A is inserted; the battery is fully inserted when the latch locks (**③**).
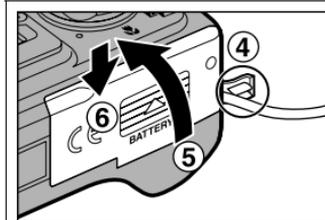
3 **Close the Battery-chamber Cover.**
Making sure the EP-62A power connector cord goes through the Power Connector Cover (**④**), close the cover (**⑤**) and slide it back into place (**⑥**).

For more information on using EH-62A AC adapter kit, see EH-62A AC adapter manual.

Disconnecting the AC Adapter Kit

Before disconnecting the AC adapter kit, turn the camera off and remove the wall plug from the power outlet. Open the battery-chamber cover and push upward the battery latch and remove the EP-62A from the camera.

Technical Notes

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Caring for Your Camera

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

✔ Keep dry

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

✔ Handle the lens and all moving parts with care

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

✔ Do not point the lens at strong light sources for extended periods

Avoid pointing the lens at the sun or other strong light sources for extended periods when using or storing the camera. Intense light may cause deterioration in the CCD image sensor, producing a white blur effect in photographs.

✔ Turn the product off before removing or disconnecting the power source

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

✔ Do not drop

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

✔ Keep away from strong magnetic fields

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

✔ Avoid sudden changes in temperature

Sudden changes in temperature, such as occur when entering or leaving a heated building on a cold day, can cause condensation inside the device.
To prevent condensation, place the device in a carrying case or a plastic bag before exposing it to sudden changes in temperature.

🖉 AF-Assist Illuminator

The light-emitting diode (LED) used in the AF-assist illuminator (🖸 126) conforms to the following IEC standard:

> **CLASS 1 LED PRODUCT**
> IEC60825-1 Edition 1.2⁻²⁰⁰¹

Technical Notes

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Cleaning

Lens/Viewfinder

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

Monitor

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

Avoid contact with liquid crystal

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

Body

Use a blower to remove dust, dirt or sand then wipe gently with a soft, dry cloth. After using the camera at the beach or seaside, wipe off any sand or salt with a dry cloth lightly dampened with fresh water, then dry thoroughly. The camera may be damaged if foreign matter gets inside the camera body. Nikon cannot accept liability for damage caused by dirt or sand.

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

Notes on the Monitor

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

Technical Notes

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Storage

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

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

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

When the battery is not in use, replace the terminal cover and store the battery in a cool, dry place. The battery should be recharged at least once a year; run the battery flat before returning it to storage.

Technical Notes

🖉 **Batteries**

- Check the battery level when taking the camera out and charge the battery if necessary (🔋 8). Do not continue charging once the battery is fully charged, as this will result in reduced battery performance. If possible, carry a fresh CP1 or a spare EN-EL5 battery when taking pictures on important occasions. Do not use CP1 batteries after their expiry date.
- On cold days, the capacity of batteries tends to decrease. Be sure that the battery is fully charged before heading outside to take pictures in cold weather. Keep spare batteries in a warm place and exchange as necessary. Once warmed, a cold battery may recover some of its charge.
- Dirt on the battery terminals can prevent the camera from functioning.
- Used batteries are a valuable resource. Please recycle used batteries in accordance with local regulations.

Error Messages

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

Display	Problem	Solution	🏶
⏰ (blinks)	Clock not set.	Set clock to current date and time.	16
WARNING!! BATTERY EXHAUSTED	Battery exhausted.	Turn camera off and replace battery.	10
[ ] AF● (flashes red)	Camera can not focus.	Use AF lock to focus on another subject at same distance, then recompose picture.	99
📷	Slow shutter speed. Pictures may be blurred.	Use flash, or steady camera using tripod, by placing camera on level surface, or by holding camera in both hands with elbows against torso.	44, 45, 21
PICTURE IS BLURRED. SAVE PICTURE? No Yes ⑧ Confirm	Recorded picture may be blurred.	Select **Yes** to keep picture, **No** to delete. Camera shake warning can be hidden.	128
Please wait ⏳ WARNING!! PLEASE WAIT FOR THE CAMERA TO FINISH RECORDING ⏳	• Camera turned off. • The ▶ Button pressed during recording pictures. • The Mode Dial rotated to another mode during recording.	Message clears from display automatically when recording is complete.	24
MEMORY CARD IS WRITE PROTECTED	Write-protect switch of the memory card is in "lock" position.	Slide write-protect switch to "write" position.	13

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Display	Problem	Solution	👓
THIS CARD CANNOT BE USED 📳	Error accessing memory card.	• Use approved card. • Check that connectors are clean.	136
WARNING!! THIS CARD CANNOT BE READ 📁		• Turn the camera off and make sure the memory card is inserted correctly.	12
📁 CARD IS NOT FORMATTED FORMAT NO ▶	Memory card has not been formatted for use in camera.	Press ▲ of Multi Selector to highlight **FORMAT** and press ⑳ to format card, or turn camera off and replace card.	130, 12
OUT OF MEMORY 📳 or 🔟	*Camera in the shooting mode*: Insufficient memory to record pictures at current settings.	• Choose lower image quality/ size.	83 - 84
		• Delete unwanted pictures.	26, 107
		• Insert new memory card.	12
	Camera connected to computer and the ⑳ (Transfer ⌁) Button pressed: Not enough space on memory to record information needed for transfer.	Disconnect camera, delete unwanted pictures, and try again.	107, 65
IMAGE CANNOT BE SAVED 🔟 or 📁 (lit)	The destination is out of memory for copying picture.	• Format destination memory (the memory or memory card).	130
		• Insert new memory card or delete unwanted pictures from the memory or memory card.	12, 26, 107
	Error occurred while saving picture.	——————	–
	Camera has run out of file numbers.	Insert new memory card or delete unwanted pictures from the memory or the memory card.	12, 26, 107
	Invalid picture chosen for creating small picture, cropped picture, or processed picture by D-Lighting.	Copies can not be created from movies or from other copies.	60, 61, 112
	Invalid picture chosen for welcome screen.	Small pictures created in sizes of 320 × 240 pixels or smaller, or cropped copies can not be selected.	119

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Display	Problem	Solution	⌕
CANNOT RECORD MOVIE	Error occurred while saving movie.	• Format memory card using **Format** option in the format menu.	130
	Takes long time to save movie on memory card.	• Insert memory card with faster processing speed.	12, 53
CARD CONTAINS NO IMAGES ▢	No pictures in the memory or the memory card.	• When this message is displayed although pictures are taken, turn the camera off and turn it on again. If error persists, contact retailer or Nikon representative. • Press ▶ Button to return to the shooting mode.	14, 15
		• To show pictures in the memory, remove memory card from camera.	13
FILE CONTAINS NO IMAGE DATA ▢	File created by computer or different make of camera.	View file on computer or correct make of camera.	–
ALL IMAGES ARE HIDDEN	No pictures in the memory or on the memory card that can be viewed on E7900/E5900.		
THIS IMAGE CANNOT BE DELETED ▢	Attempt to delete protected picture.	Remove protection before deleting picture.	109
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.	120
WARNING! MODE DIAL IS NOT IN THE PROPER POSITION	Mode dial is positioned between two modes.	Adjust Mode Dial to select desired mode correctly.	6
LENS ERROR	Error has occurred during lens operation.	Turn camera off and then on again. If error persists, contact retailer or Nikon representative.	–

Display	Problem	Solution	✍
COMMUNICATIONS ERROR 〜	USB cable disconnected or memory card removed while pictures are being transferred to computer.	If error appears on computer monitor, click **OK** to exit PictureProject. Turn camera off, reconnect cable or replace memory card, then turn camera on and transfer pictures.	65 - 69
	A computer is executing some form of processing.	If error appears on computer monitor, click **OK** and transfer pictures after the processing has completed.	–
	USB option set incorrectly to transfer pictures using camera's ® (Transfer 〜) Button.	Turn camera off and disconnect cable, then choose new USB setting in the camera Set-up menu and reconnect camera. If error persists, use Transfer button in PictureProject to transfer pictures.	65 - 69
NO IMAGES ARE MARKED FOR TRANSFER ⊠	No pictures selected for transfer when ® (Transfer 〜) Button pressed to transfer pictures to computer.	• Disconnect camera and select at least one picture for transfer, then begin transfer again. • Use Transfer button in PictureProject to transfer pictures.	110 65 - 69
TRANSFER ERROR 〜	Error occurred when pictures were transferred to computer.	• Check that camera is connected and that battery is fully charged. • Check that optional EH-62A AC adapter is firmly connected to the camera.	67, 14 137
SYSTEM ERROR	Error has occurred in camera's internal circuitry.	Turn camera off, unplug optional AC adapter (if using), remove and reinsert batteries, and turn camera on. If error persists, contact retailer or Nikon representative.	15, 10 - 11
PRINTER ERROR CHECK PRINTER STATUS	Printer error occurs on your printer.	Read printer manual and solve the problem.	–

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 battery, and turn the camera on again, or, if you are using an AC adapter (optional), disconnect and reconnect the adapter, and turn the camera on again. 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	🗄
Monitor is blank	• Camera is off.	14
	• Monitor is off.	5
	• **Photo info** is set to **Monitor off** in **Monitor settings** of the Set-up menu.	122
	• Battery is not correctly inserted or battery-chamber cover is not properly latched.	10
	• Battery is exhausted.	14
	• Optional EH-62A AC adapter kit is not properly connected.	137
	• Camera is in standby mode. Press Shutter-release Button halfway.	15
	• USB cable is connected.	67
	• Audio/video cable is connected.	64
Camera turns off without warning	• Battery is low.	14
	• Battery is cold.	140
No indicators appear in monitor	• Indicators may be hidden. Select **Show info** for **Photo info** option in the monitor settings menu.	122
Monitor is hard to read	• Ambient lighting is too bright: move to a darker location.	139
	• Monitor brightness needs adjustment.	123
	• Monitor is dirty: clean monitor.	139

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Problem	Possible cause	🕮
No picture is taken when Shutter-release Button is pressed	• Camera is in Playback mode. • Battery is exhausted. • Green (AF) lamp flickers: camera unable to focus (when the monitor is off). • Red (⚡) Lamp blinks: flash is charging. • Message "CARD IS NOT FORMATTED" appears in monitor: memory card is not formatted for use in camera. • Message "MEMORY CARD IS WRITE PROTECTED" appears in monitor: memory card is locked. • Message "OUT OF MEMORY" appears in monitor: insufficient memory to record picture at current **Image quality/size** setting.	19, 25 14 23 23 13, 130 13 85
Pictures are too dark (underexposed)	• Flash is off. • Flash window is blocked. • Subject is outside range of flash. • Exposure compensation is too low.	44 21 45 49
Pictures are too bright (overexposed)	• Exposure compensation is too high.	49
Pictures are out of focus	• Subject was not in focus area when Shutter-release Button was pressed halfway. • Green (AF) Lamp flashes: camera unable to focus. • AF-assist illuminator does not light when the lighting is poor. Select **On** in the **AF assist** option.	99 23 126
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 ◆ When recording movies, set **Electronic VR** to **On** (E7900 only).	 44 91 46 54
Randomly-spaced bright pixels ("noise") appear in image	• Shutter speed too slow. Noise can be reduced by: ◆ Using the flash ◆ Selecting 🌃 (night portrait assist) mode, or selecting SCENE (scene) mode and choosing 🌆 **DUSK/DAWN** or 🌃 **NIGHT LANDSCAPE** (In these modes, noise reduction works automatically when shutter speed is low. Select an appropriate mode according to your shooting condition.)	 44 35, 38
Bright specks in picture	• Flash is reflecting from particles in air. Turn flash off or zoom in.	21, 44

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Problem	Possible cause	🔍

Flash does not fire	• Flash is off. Note that flash turns off automatically when:
	  ◆ The Mode Dial is set to 🏔 (landscape assist; except for GROUP RIGHT and GROUP LEFT), 🏃 (sports assist), 🎬 (movie), or 🎬 (scene) mode with any of 🌅 (**SUNSET**), 🌆 (**DUSK/DAWN**), 🌃 (**NIGHT LAND-SCAPE**), 🏛 (**MUSEUM**) or 🎆 (**FIREWORKS SHOW**) selected in the scene menu
	  ◆ **Continuous** is set to option other than **Single**
	  ◆ **BSS** is **On**
	  ◆ **Auto bracketing** is set
		44
		33, 34, 55, 37 -40
		
		89
		91
		96

Colors are unnatural	• White balance does not match light source.	86
Picture or voice memo can not be played back	• Picture or voice memo has been overwritten or renamed by computer or by another make of camera.	–
Copy can not be created using small picture, crop, or D-Light-ing	• Picture is a movie. Retouched copy can be created only for still pictures. • Picture is a retouched copy. • There is not enough free space in the memory or on the memory card to store new copy. Delete unwanted pictures from the memory to make free space.	112 59, 112 107
Can not zoom in on picture	• Picture is a movie. • Picture was created with **Small pic.** option. • Picture has been cropped to sizes of 320×240 pixels or smaller.	55 112 60
PictureProject does not start when camera is connected or memory card inserted in card reader or card slot	• Camera is off. • EH-62A AC adapter kit (optional) is not properly con-nected, or battery is exhausted. • UC-E6 USB cable is not correctly connected, or card not properly inserted in card reader or card slot. • **USB** in the **Interface** menu set to **PTP** when camera connected to computer running Windows 2000 Profes-sional, 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.	14 137 67 67 –

Technical Notes

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Specifications

Type	E7900/E5900 digital camera
Effective pixels	7.1 million (E7900)/5.1 million (E5900)
CCD	1/1.8" high-density CCD; total pixels: 7.41 million (E7900)/ 5.26 million (E5900)
Image size (pixels)	• 3,072×2,304 [7M] (E7900 only) • 2,592×1,944 [5M] • 2,048×1,536 [3M] • 1,600×1,200 [2M] (E5900 only) • 1,024×768 [PC] • 640×480 [TV]
Lens	3× Zoom-Nikkor ED lens
Focal length	F=7.8 - 23.4 mm (35-mm [135] camera-format equivalent: 38 - 114 mm)
f/-number	f/2.8 - f/4.9
Construction	Seven elements in six groups (includes 1 glass-molded ED lens elements)
Digital zoom	Up to 4× (35-mm [135] camera-format equivalent: 450 mm)
Autofocus (AF)	Contrast-detect through-the-lens (TTL) AF, AF-assist illuminator
Focus range	30 cm (1') - ∞; macro mode 4 cm/1.6" (W) - ∞
Focus area selection	Auto (five-area automatic selection), Manual (99-area manual selection), Off (center focus area selection)
AF-assist illuminator	CLASS 1 LED PRODUCT (IEC60825-1 Edition 1.2^{-2001}) Maximum output: 1700μW
Viewfinder	Real-image zoom viewfinder with LED indication
Magnification	0.31 - 0.77 ×
Frame coverage	Approximately 75% holizontal and 75% vertical
Monitor	2.0", 115,000-dot, amorphous silicon TFT transflective LCD with brightness adjustment
Frame coverage (shooting mode)	Approximately 100% horizontal and 100% vertical

Storage	
Media	Internal memory (approximately 13.5MB)/SD (Secure Digital) Memory cards
File system	Compliant with **D**esign Rule for **C**amera **F**ile System (DCF), Exif 2.2, and Digital Print Order Format (DPOF)
File formats	Compressed: JPEG-baseline-compliant (1:4, 1:8, 1:16) Movies: Quick Time Sound files: WAV

Exposure	
Metering	Four mode through-the-lens (TTL) metering; • 256-segment matrix • Spot • Center-weighted • Spot AF area
Exposure control	Programmed auto exposure with exposure compensation (-2.0 – +2.0EV in steps of 1/3EV), Auto bracketing
Range	W: +1 – +16.5EV (E7900); +1 – +16.1EV (E5900) T: +2.6 – +18.1EV (E7900); +2.6 – +17.7EV (E5900) (Sensitivity: Auto)

Shutter	Mechanical and charge-coupled electronic shutter
Speed	4 – $^1/_{2,000}$s

Aperture	Electronically-controlled preset aperture
Range	Two steps (f/2.8 and f/4.8 [W])

Sensitivity	E7900: Approximately equivalent to ISO 50, 100, 200, 400; Auto (auto gain to ISO 200 equivalent) E5900: Approximately equivalent to ISO 64, 100, 200, 400; Auto (auto gain to ISO 200 equivalent)
Self-timer	Ten-second, three-second duration

Design Rule for Camera File System (DCF)

Your camera conforms to the **D**esign Rule for **C**amera **F**ile 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 (**Ex**changeable **I**mage **F**ile 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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Built-in Speedlight	
Range (approx.)	W: 0.3 - 4.5 m/1' - 14'8" T: 0.3 - 3.5 m/1' - 11'5" (Sensitivity: Auto)
Flash control	Sensor flash system
Interface	USB
Video output	Can be selected from NTSC and PAL
I/O terminals	DC in; Digital I/O (audio-visual out and USB)
Supported language	Chinese (Simplified and Traditional), Dutch, English, French, German, Italian, Japanese, Korean, Spanish, Swedish
Power sources	• One rechargeable Nikon EN-EL5 rechargeable lithium-ion battery (supplied) • One CP1 lithium battery • EH-62A AC adapter kit (available separately)
Approximate battery life	E7900: Approximately 220 shots (EN-EL5)/250 shots (CP1) E5900: Approximately 270 shots (EN-EL5)/290 shots (CP1) Based on CIPA standard*
Dimensions (W×H×D)	Approximately 88×60×36.5 mm/3.46"×2.4"×1.44" (excluding projection parts)
Approximate weight	150 g (5.3 oz) without battery or memory card
Operating environment	
Temperature	0 – 40°C (32 – 104°F)
Humidity	Less than 85% (no condensation)

* Industry standard for measuring life of camera batteries. Measured at 25 °C (77 °F); zoom adjusted with each shot, built-in Speedlight fired with every other shot, image mode set to NORM/⌐**7M** (E7900) or NORM/⌐**5M** (E5900).

MH-61 Battery Charger

Rated input	AC 100 - 240 V, 50/60 Hz, 0.12 - 0.08 A
Charging output	DC 4.2 V/950 mA
Compatible batteries	Nikon EN-EL5 rechargeable Li-ion batteries
Charging time	Approximately 2.0 hrs when no charge remains
Operating temperature	0 - 40 °C (+32 - 104 °F)
Dimensions	Approximately 67×67×26 mm/2.6"×2.6"×1.0" (W×D×H)
Length of cord	Approximately 1800 mm (70.9")
Weight	Approximately 70 g (2.5 oz), excluding power cable

EN-EL5 Rechargeable Li-ion Battery

Type	Rechargeable lithium-ion battery
Rated capacity	3.7 V/1100 mAh
Dimensions	Approximately 36×8×54 mm/1.4"×0.3"×2.1" (W×D×H, excluding projections)
Weight	Approximately 30 g (1.1 oz), excluding terminal cover

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📝 Specifications

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

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