# Nikon

**DIGITAL CAMERA** 

# COOLPIX S2600

# Reference Manual





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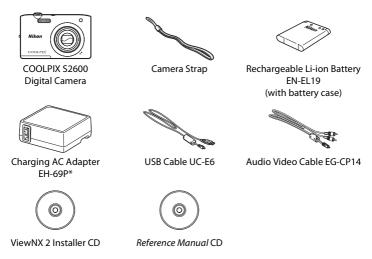
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### **Read This First**

Thank you for purchasing the Nikon COOLPIX S2600 digital camera. Before using the camera, please read the information in "For Your Safety" (\(\sumsymbol{\su}\)vi) and familiarize yourself with the information provided in this manual. After reading, please keep this manual handy and refer to it to enhance your enjoyment of your new camera.

### **Confirming the Package Contents**

In the event that any items are missing, please contact the store where you purchased the camera.



- Warranty
- \* A plug adapter is included only in countries or regions where required, and its shape varies with country or region of purchase ( $\square$ 16).

**NOTE**: A memory card is not included with the camera.

### **About This Manual**

If you want to start using the camera right away, see "Basic Steps for Shooting and Playback" ( $\square$ 13).

To learn about the parts of the camera and basic operations, see "Parts of the Camera and Basic Operation" ( $\square$ 1).

### Other Information

Symbols and Conventions
 To make it easier to find the information you need, the following symbols and conventions are used in this manual:

Symbol	Description	
V	This icon marks cautions, information that should be read before use, to prevent damage to the camera.	
0	This icon marks notes, information that should be read before using the camera.	
<b>□</b> / <b>◇</b>	These icons indicate other pages containing relevant information; 🗪: "Reference Section", ⋩: "Technical Notes and Index."	

- SD, SDHC, and SDXC memory cards are referred to as "memory cards" in this
  manual.
- The setting at the time of purchase is referred to as the "default setting."
- The names of menu items displayed in the camera monitor, and the names of buttons or messages displayed on a computer monitor appear in bold.
- In this manual, images are sometimes omitted from monitor display samples so that monitor indicators can be more clearly shown.
- Illustrations and text displays shown in this manual may differ from actual display.

### Information and Precautions

### **Life-Long Learning**

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

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

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

http://imaging.nikon.com/

### **Use Only Nikon Brand Electronic Accessories**

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

The use of non-Nikon electronic accessories could damage the camera and may void your Nikon warranty.

The use of third-party rechargeable Li-ion batteries not bearing the Nikon holographic seal 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.



### Holographic seal:

Identifies this device as an authentic Nikon product.

### **Before Taking Important Images**

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

### **About the Manuals**

- No part of the documentation 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 the documentation 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 was made to ensure that the information in the documentation 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).

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### **Disposing of Data Storage Devices**

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

Before discarding a data storage device or transferring ownership to another person, erase all data using commercial deletion software, or format the device and then completely refill it with images containing no private information (for example, images of empty sky). Be sure to also replace any images selected for the **Select an image** option in the **Welcome screen** setting (\$\subseteq\$ 22). Care should be taken to avoid injury or damage to property when physically destroying data storage devices.

### **For Your Safety**

To prevent damage to your Nikon product or injury to yourself or to others, read the following safety precautions in their entirety before using this equipment. Keep these safety instructions where all those who use the product will read them. The consequences that could result from failure to observe the precautions listed in this section are indicated by the following symbol:



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

### WARNINGS

### Turn off in the event of malfunction

Should you notice smoke or an unusual smell coming from the camera or Charging AC Adapter. unplug the Charging 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 Nikonauthorized service representative for inspection.

### ♠ Do not disassemble

Touching the internal parts of the camera or Charging AC Adapter could result in injury. Repairs should be performed only by qualified technicians. Should the camera or Charging AC Adapter 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.

### ♠ Do not use the camera or Charging AC Adapter in the presence of flammable gas

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

# ★ Handle the camera strap with

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

### ★ Keep out of reach of children

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



### ♠ Do not remain in contact with the camera, battery charger, or AC adapter for extended periods while the devices are on or in use.

Parts of the devices become hot Leaving the devices in direct contact with the skin for extended periods may result in low-temperature burns.

### ♠ Observe caution when handling the battery

The battery may leak, overheat or explode if improperly handled. Observe the following precautions when handling the battery for use in this product:

- Before replacing the battery, turn the product off. If you are using the Charging AC Adapter/AC adapter, be sure it is unplugged.
- Use only a Rechargeable Li-ion Battery EN-EL19 (included). Charge the battery by using a camera that supports battery charging. To perform this operation, use either Charging AC Adapter EH-69P (included) or the Charge by computer function. The Battery Charger MH-66 (available separately) is also available to charge the battery without using a camera
- When inserting the battery, do not attempt to insert it upside down or backwards
- Do not short or disassemble the battery or attempt to remove or break the battery insulation or casing.
- Do not expose the battery to flame or to excessive heat.
- Do not immerse in or expose to water.
- Put the battery in the battery case before transporting it. Do not transport or store with metal objects such as necklaces or hairpins.

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

### ♠ Observe the following precautions when handling the Charging AC Adapter

- 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 plug or go near the Charging AC Adapter during lightning storms. Failure to observe this precaution could result in electric shock.
- Do not damage, modify, forcibly tug or bend the USB cable, place it under heavy objects, or expose it to heat or flames. Should the insulation be damaged and the wires become exposed, take it to a Nikonauthorized service representative for inspection. Failure to observe these precautions could result in fire or electric shock.

- Do not handle the plug or Charging AC Adapter with wet hands. Failure to observe this precaution could result in electric shock.
- Do not use with travel converters or adapters designed to convert from one voltage to another or with DCto-AC inverters. Failure to observe this precaution could damage the product or cause overheating or fire.

### Use appropriate cables

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

## ★ Handle moving parts with

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

### ♠ CD-ROMs

The CD-ROMs included with this device should not be played back on audio CD equipment. Playing CD-ROMs on an audio CD player could cause hearing loss or damage the equipment.

### ♠ Observe caution when using 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 (3 ft 4 in.) from the subject.

### ♠ Do not operate the flash with the flash window touching a person or object

Failure to observe this precaution could result in burns or fire.

### Avoid contact with liquid crystal

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

### ★ Turn the power off when using inside an airplane or the hospital

Turn the power off while inside the airplane during take off or landing. Follow the instructions of the hospital when using while in a hospital. The electromagnetic waves given out by this camera may disrupt the electronic systems of the airplane or the instruments of the hospital.

# Notices for Customers in the U.S.A.

### IMPORTANT SAFETY INSTRUCTIONS— SAVE THESE INSTRUCTIONS.

### DANGER - TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, CAREFULLY FOLLOW THESE INSTRUCTIONS

For connection to a supply not in the U.S.A., use an attachment plug adapter of the proper configuration for the power outlet if needed.

The power supply unit is intended to be correctly orientated in a vertical or floor mount position.

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

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/television technician for help.



### **CAUTIONS**

### **Modifications**

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

### Interface Cables

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

### Notice for customers in the State of California

### WARNING

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

### Wash hands after handling.

Nikon Inc.

1300 Walt Whitman Road Melville, New York 11747-3064 USA

Tel: 631-547-4200

### **Notice for customers in Canada**

### CAUTION

This Class B digital apparatus complies with Canadian ICFS-003.

### **ATTENTION**

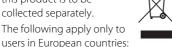
Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

### **Notices for customers in Europe**

### **CAUTIONS** RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE.

### **DISPOSE OF USED BATTERIES ACCORDING TO THE** INSTRUCTIONS.

This symbol indicates that this product is to be collected separately. The following apply only to



• For more information, contact the retailer or the local authorities in charge of waste management.

This symbol on the battery indicates that the battery is to be collected separately. The following apply only to users in European countries:

• This product is designated for

appropriate collection point. Do not

dispose of as household waste.

separate collection at an



- All batteries, whether marked with this symbol or not, are designated for separate collection at an appropriate collection point. Do not dispose of as household waste.
- For more information, contact the retailer or the local authorities in charge of waste management.

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# Parts of the Camera and Basic Operation

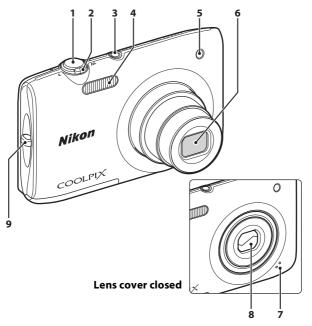
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If you want to start using the camera right away, see "Basic Steps for Shooting and Playback" ( $\square$ 13).

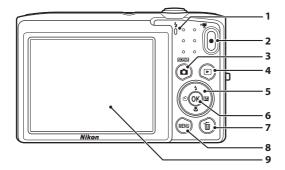
### **Parts of the Camera**

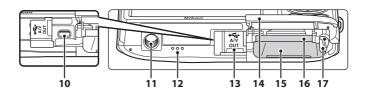
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## **Camera Controls Used in Shooting Mode**

Control	Name	Main function	Ф
<b>(a)</b>	Shooting mode button	Changes the shooting mode (displays the shooting-mode selection screen).	24
w Or × Oqe	Zoom control	Zooms in and out; rotate to <b>T</b> ( <b>Q</b> ) to zoom in, and rotate to <b>W</b> (►) to zoom out.	27
<b>√</b> (0)(0)(2) ►	Multi selector	See "Using the Multi Selector" for more information.	9, 10
MENU	Menu button	Displays and hides the menu.	10, 36, 77, 82
	Shutter-release button	When pressed halfway (i.e., if you stop pressing when you feel resistance): Sets focus and exposure. When pressed all the way: Releases the shutter.	28
	Movie-record button	Starts and stops movie recording.	74
P	Playback button	Plays back images.	30, 66, 78
Ó	Delete button	Deletes the last image that was saved.	32

## Camera Controls Used in Playback Mode

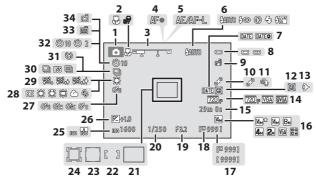
Control	Name	Main function	
Þ	Playback button	Changes the playback mode (displays the playback-mode selection screen).     When the camera is turned off, press and hold this button to turn the camera on in playback mode.	66 21
w 0 7 0 0	Zoom control	When displaying images, rotate to <b>T</b> ( <b>Q</b> ) to magnify the image, and rotate to <b>W</b> ( <b>№</b> ) to display image thumbnails or the calendar.     Adjust the volume.	79
	Multi selector	See "Using the Multi Selector" for more information.	9, 10
\$ (O) (O) (32)	Apply selection button	Switches from image thumbnail or zoomed image display to full-frame display. Adds and removes favorite pictures. Plays back movies.	31 <b>6-6</b> 4, <b>6-6</b> 5 78
MENU	Menu button	Displays and hides the menu.	10, 67, 82
Ó	Delete button	Deletes images.	32
<b>(a)</b>	Shooting mode button		-
	Shutter-release button	Switches to shooting mode.	_
•	Movie-record button		-

### The Monitor

The information that is displayed in the monitor during shooting and playback changes depending on the camera's settings and state of use. At the default setting, the indicators below are displayed when the camera is turned on or is in operation, and they disappear after a few seconds elapse (when **Photo info** is set to **Auto info** in **Monitor settings** ( 82)).

### **Shooting Mode**

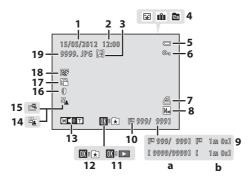
1 Claration of a state



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3	Zoom indicator	2	7, 53
4	Focus indicator		28
5	AE/AF-L indicator		<b>6–6</b> 3
6	Flash mode		50
7	Print date	82, <b>đ</b>	<b>-6</b> 55
8	Battery level indicator		20
9	Electronic VR	83, <b>đ</b>	<b>►</b> 56
10	Motion detection	83, <b>đ</b>	<b>►</b> 57
11	Wind noise reduction	77, <b>đ</b>	<b>-6</b> 48
12	"Date not set" indicator		
12	22,	<b>6−6</b> 50, <b>6</b>	<b>-6</b> 71
13	Travel destination	82, <b>6</b>	<b>►</b> 050
14	Movie options	77, <b>đ</b>	<b>-6</b> 47
15	Movie length		74
16	Image mode		57
17	Number of exposures ren	naining	
''	(still images)		
18	Internal memory indicato	r	20

19	Aperture value28
20	Shutter speed28
21	Focus area (auto)28, 38, <b>6</b>
22	Focus area (for manual or center)
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24	Focus area (subject tracking)38, 6-31
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28	White balance mode37, 6-24
29	Skin softening48, 6-34
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31	Blink proof48, 6-35
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### **Playback Mode**



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16	Filter effects icon67, 🏍	14
17	Small picture icon67, 🏍	15
18	Glamour retouch icon67, 🏍	13
19	File number and type 🏍	69

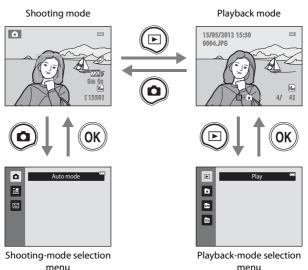
### **Basic Operations**

### Switching Between Shooting Mode and Playback Mode

The camera has two modes of operation: Shooting mode, which is used for taking pictures, and playback mode, which is used for viewing pictures.

While using shooting mode, press the [ (playback) button to switch to playback mode; while using playback mode, press the (shooting mode) button to switch to shooting mode.

• While using playback mode, you can also switch to shooting mode by pressing the shutter-release button or the ● (\*★ movie-record) button.

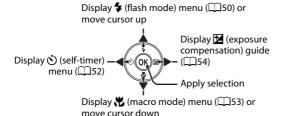


- If you press the ♠ (shooting mode) button while the shooting screen is displayed, the shooting-mode selection menu is displayed, from which you can select one of the available shooting modes (□24).

### **Using the Multi Selector**

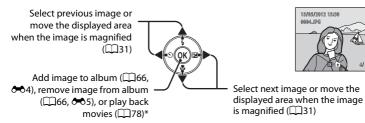
Operate by pressing the multi selector up ( $\triangle$ ), down ( $\nabla$ ), left ( $\triangleleft$ ), or right ( $\triangleright$ ), or pressing the 8 button.

### **Shooting Mode**



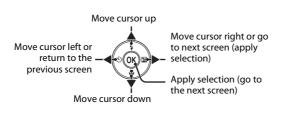


### **Playback Mode**



\* When displaying image thumbnails or when the image is magnified, this button switches the camera to full-frame display.

### Menu Screen







### Using Menus (the MENU Button)

If you press the **MENU** button while the shooting screen or playback screen is displayed, the menu for the current mode is displayed. Once the menu is displayed, you can change various settings.







### atab:

Displays the settings that can be changed for the current shooting mode (24). Depending on the current shooting mode, the tab icon that is displayed will be different.

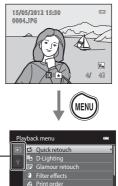
### 🔽 tab:

Displays the settings that deal with movie recording.

### Y tab:

Displays the setup menu, where you can change a number of general settings.

### Playback mode



### **▶**tab:

Tabs

Displays the settings that can be changed for the current playback mode (\$\subseteq\$66). Depending on the current playback mode, the tab icon that is displayed will be different.

### Y tab:

Displays the setup menu, where you can change a number of general settings.

### If Tabs are not Displayed

If you press the **MENU** button and the screen that allows you to change the image mode is displayed, press the multi selector  $\blacktriangleleft$  to display the tabs.



### **Switching Between Tabs**





Press the multi selector ▲ or ▼ to select a tab, and press either the ® button or ▶.

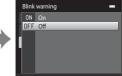


The selected menu is displayed.

### Selecting Items



Select an item with the multi selector ▲ or ▼ and press either ▶ or the № button.



Select an item with ▲ or ▼ and press the ເ button.



When you finish changing the settings, press the MENU button to exit the menu.

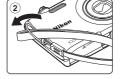
## When the Menu Contains Two or More Pages

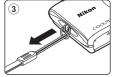
The scroll bar is displayed when all of the menu items do not fit on one screen



### **Attaching the Camera Strap**











# Basic Steps for Shooting and Playback

## **Preparation**

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### **Shooting**

Step 1 Turn the Camera On	20
Setting Display Language, Date and Time (First Use Only)	
Step 2 Select a Shooting Mode	24
Step 3 Frame a Picture	
Step 4 Focus and Shoot	28

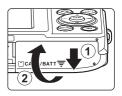


### **Playback**

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Step 6 Delete Unwanted Images	2

### **Preparation 1 Insert the Battery**

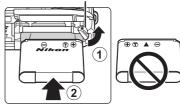
Open the battery-chamber/memory card slot cover.



### 2 Insert the included Rechargeable Li-ion Battery FN-FI 19.

- Use the battery to push the orange battery latch in the direction indicated by the arrow (1) and fully insert the battery (2).
- When the battery is properly inserted, the battery latch will lock it in place.

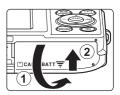
## Battery latch



## Inserting the Battery Correctly

**Inserting the battery upside down or backwards could damage the camera.** Be sure to check that the battery is in the correct orientation.

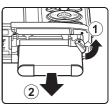
- **3** Close the battery-chamber/memory card slot cover.
  - Charge the battery before first use or when it is running low. See page 16 for more information.



### **Removing the Battery**

Be sure that the power-on lamp and the monitor have turned off and open the battery-chamber/memory card slot cover.

Push the orange battery latch in the direction indicated by the arrow (①), and then remove the battery. Pull the battery straight out of the camera (②); do not pull it at an angle.



## High Temperature Caution

The camera, battery, and memory card may be hot immediately after using the camera. Observe caution when removing the battery or memory card.

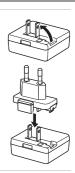


### **Preparation 2 Charge the Battery**

### **1** Prepare the included Charging AC Adapter EH-69P.

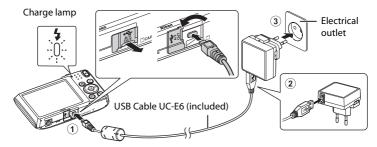
- If a plug adapter\* is included, attach the plug adapter to the plug on the Charging AC Adapter. Push the plug adapter firmly until it is securely held in place. Once the two are connected, attempting to forcibly remove the plug adapter could damage the product.
  - \* The shape of the plug adapter varies according to the country or region in which the camera was purchased.

    The Charging AC Adapter comes with the plug adapter attached in Argentina and Korea.



# Make sure the battery is installed in the camera, and then connect the camera to the Charging AC Adapter in order of ① to ③.

- Keep the camera turned off.
- When connecting the cable, be sure that the camera connector is properly oriented.
   Do not use force when connecting the cable to the camera. When disconnecting the cable, do not pull the connector at an angle.



- The charge lamp slowly flashes green to indicate that the battery is charging.
- About 2 hours and 10 minutes are required to charge a fully exhausted battery.
- When the battery has been completely charged, the charge lamp turns off.
- See "Understanding the Charge Lamp" (QQ 17) for more information.

# **3** Disconnect the Charging AC Adapter from the electrical outlet and then disconnect the USB cable.

 When the camera is connected to the electrical outlet with the EH-69P, the camera cannot be turned on.

### **Understanding the Charge Lamp**

Charge lamp	Description	
Flashes slowly (green)	Battery charging.	
Off	Battery not charging. When charging is complete, the charge lamp stops flashing green and turns off.	
Flashes quickly (green)	The ambient temperature is not suited to charging. Charge the battery indoors with an ambient temperature of 5°C to 35°C (41°F to 95°F).  The USB cable or Charging AC Adapter is not properly connected, or there is a problem with the battery. Disconnect the USB cable or unplug the Charging AC Adapter and correctly connect it again, or change the battery.	

## Note About Charging AC Adapter

Be sure to read and follow the warnings for the Charging AC Adapter on page vii and the section, "Charging AC Adapter" ( $\not$ E5) before use.

### Charging Using Computer or Battery Charger

- Connecting the COOLPIX S2600 to a computer also charges the Rechargeable Li-ion Battery EN-EL19 (□168, ◆62).
- Rechargeable Li-ion Battery EN-EL19 can also be charged using the Battery Charger MH-66 (available separately; ♣ 70).

### **AC Power Supply**

- Do not, under any circumstances, use another make or model of AC adapter other than the EH-62G. Failure to observe this precaution could result in overheating or in damage to the camera.

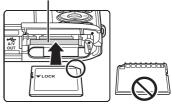
### **Preparation 3 Insert a Memory Card**

- Be sure that the power-on lamp and the monitor are off and open the batterychamber/memory card slot cover.
  - Be sure to turn off the camera before opening the cover.



- **2** Insert the memory card.
  - Slide the memory card in correctly until it clicks into place.
  - Inserting the Memory Card
    Inserting the memory card upside down or
    backwards could damage the camera or
    the memory card. Be sure to check that the
    memory card is in the correct orientation.





**3** Close the battery-chamber/memory card slot cover.

### Formatting a Memory Card

- The first time you insert a memory card that has been used in another device into this camera, be sure to format it with this camera.
- All data stored on a memory card is permanently deleted when the card is formatted. Be sure to transfer important images to a computer and save them before formatting.
- To format a memory card, insert the memory card into the camera, press the **MENU** button and select **Format card** (\$\subset\$ 84) from the setup menu (\$\subset\$ 82).

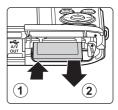
### Note About Memory Cards

Refer to the documentation included with the memory card, as well as "Memory Cards" ( 5) in "Maximizing Camera Life and Performance".

### **Removing Memory Cards**

Be sure that the power-on lamp and the monitor have turned off and open the battery-chamber/memory card slot cover.

Gently push the memory card into the camera (①) to partially eject the card, and then remove the card. Pull the memory card straight out of the camera (②); do not pull it at an angle.



### High Temperature Caution

The camera, battery, and memory card may be hot immediately after using the camera. Observe caution when removing the battery or memory card.

### **Internal Memory and Memory Cards**

Camera data, including still images and movies, can be saved in either the camera's internal memory (approximately 39 MB) or on a memory card. To use the camera's internal memory for shooting or playback, first remove the memory card.

### **Approved Memory Cards**

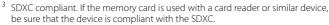
The following Secure Digital (SD) memory cards have been tested and approved for use in this camera.

 Memory cards with an SD Speed Class rating of 6 or faster are recommended for recording movies. Movie recording may stop unexpectedly when memory cards with a lower Speed Class rating are used.

	SD memory card	SDHC memory card <sup>2</sup>	SDXC memory card <sup>3</sup>
SanDisk	2 GB <sup>1</sup>	4 GB, 8 GB, 16 GB, 32 GB	64 GB
TOSHIBA	2 GB <sup>1</sup>	4 GB, 8 GB, 16 GB, 32 GB	64 GB
Panasonic	2 GB <sup>1</sup>	4 GB, 8 GB, 12 GB, 16 GB, 32 GB	48 GB, 64 GB
Lexar	_	4 GB, 8 GB, 16 GB, 32 GB	64 GB, 128 GB

If the memory card is used with a card reader or similar device, make sure that the device supports 2 GB cards.

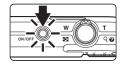
<sup>&</sup>lt;sup>2</sup> SDHC compliant. If the memory card is used with a card reader or similar device, be sure that the device is compliant with the SDHC standard.



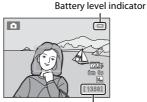
 Contact the manufacturer for details on the above cards. We cannot guarantee camera performance when using memory cards made by other manufacturers.

## Step 1 Turn the Camera On

- **1** Press the power switch to turn on the camera.
  - If you are turning the camera on for the first time, see "Setting Display Language, Date and Time" (\(\subseteq 22\)).



- The lens extends and the monitor turns on.
- 2 Check the battery level indicator and the number of exposures remaining.



Number of exposures remaining

Battery level indicator	Description	
	Battery level is high.	
	Battery level is low. Prepare to charge or replace the battery.	
Battery exhausted.  The camera cannot take pictures. Charge or replace the ba		

### **Number of Exposures Remaining**

The number of image that can be captured is displayed.

- If a memory card is not inserted, \( \bigcirc\) is displayed to indicate that images will be saved in the camera's internal memory (approximately 39 MB).
- The number of exposures remaining depends on the remaining capacity of the internal memory or memory card, and the image quality and image size (image mode) (\$\sum\_{58}\$).
- The number of exposures remaining shown in the illustrations may differ from the actual display.

### **Turning the Camera On and Off**

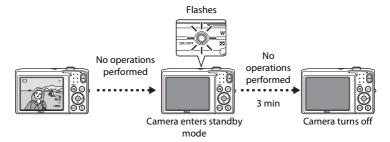
- When the camera is turned on, the power-on lamp (green) will light, and then
  the monitor will turn on (the power-on lamp turns off when the monitor turns
  on).
- To turn off the camera, press the power switch. When the camera is turned off, both the power-on lamp and the display turn off.
- To turn on the camera in playback mode, press and hold the ▶ (playback) button.

# Power Saving Function (Auto Off)

If no operations are performed for a while, the monitor will turn off, the camera will enter standby mode, and the power-on lamp will flash. If no operations are performed for approximately another three minutes, the camera will turn off automatically.

To reactivate the monitor while the power-on lamp is flashing, press any of the following buttons:

- Power switch, shutter-release button, ♠ (shooting mode) button, ▶ (playback) button, or ♠ (\*★ movie-record) button.



- The time allowed to elapse before the camera enters standby mode can be changed from the **Auto off** option (\$\subset\$83) in the setup menu (\$\subset\$82).
- By default, the camera enters standby mode in about one minute when you are using shooting mode or playback mode.
- When the AC Adapter EH-62G (available separately) is used, the camera enters standby mode after 30 minutes.

### Setting Display Language, Date and Time

A language-selection dialog is displayed the first time the camera is turned on.

Press the multi selector ▲ or ▼ to choose the desired language and press the ® button.





Press ▲ or ▼ to choose Yes and press the ® button.



- 3 Press ◀ or ▶ to select your home time zone and press the 🕅 button.
  - For information about "Daylight Saving Time", see page 23.



**4** Press the ▲ or ▼ to choose the order in which the day, month and year are displayed and press the ® button or ▶.



- **5** Press **△**, **▼**, **⊲**, or **▶** to edit the date and time and press the **®** button.
  - Select a field: Press ▶ or ◀ (the highlight switches between **D**, **M**, **Y**, hour, and minute).
  - Edit the value: Press ▲ or ▼.
  - Confirm the settings: Select the minute field and press the 

    ⊗ button or 

    .



# **6** Press **△** or **▼** to choose **Yes** and press the **®** button.

 When the settings are applied, the lens extends and the monitor display exits to shooting mode.



### **Daylight Saving Time**

If daylight saving time is in effect, press  $\triangle$  to enable the daylight saving time function while setting the region in step 3.

When the daylight saving time function is enabled,
 is displayed at the top of the monitor. To turn off the daylight saving time function, press ▼.



### Changing the Language or the Date and Time Setting

- You can change these settings using the Language and Time zone and date settings in the setup menu (\$\subset\$82).
- When the daylight saving time function is enabled in **Time zone** in **Time zone and date** in the
  setup menu, the camera clock moves forward one hour, and when it is disabled, it moves back
  one hour. When **Travel destination** (\*) is selected, the local time is automatically calculated and
  the shooting date and time of the selected region are recorded with the images.
- If you exit without setting the date and time, will flash when the shooting screen is displayed. Use the **Time zone and date** setting in the setup menu to set the date and time (\sum 82).

## The Clock Battery

- The camera clock is powered by the backup battery that is separate from the camera's main battery.
- The backup battery charges when the main battery is inserted into the camera or when the camera is connected to an optional AC adapter, and can provide several days of backup power after about ten hours of charging.

### Imprinting the Shooting Date in Printed Images

- · Set the date and time before shooting.
- You can permanently imprint the shooting date in images as they are captured by setting **Print** date in the setup menu (\subseteq \Omega 2).
- You can use the ViewNX 2 software (\$\sum\_{\text{\text{0}}}69\$) to print the shooting date in images that were
  captured without using the **Print date** option.

# **Step 2 Select a Shooting Mode**

# 1 Press the button.

 The shooting-mode selection menu which allows you to select the desired shooting mode, is displayed.



# **2** Press the multi selector ▲ or ▼ to choose a shooting mode.

• (auto) mode is used in this example. Select Auto mode.





# **3** Press the **(R)** button.

- The camera enters (auto) mode and the icon is displayed.
- See "The Monitor" ( 6) for more information about the shooting screen.
- The shooting mode setting is saved when the camera is turned off.



□36

 $\square$ 46

## **Available Shooting Modes**

#### Auto mode

Used for general shooting. Settings can be adjusted in the shooting menu (\$\Omega\$37) to suit the shooting conditions and the type of shot you want to capture.

### Scene mode Q39

Camera settings are automatically optimized for the selected scene. When using scene auto selector, the camera automatically selects the optimum scene mode when you frame a picture, making it even easier to take pictures using settings that suit the scene.

To select a scene, first display the shooting-mode selection menu and then
press the multi selector ▶. Select the desired scene by pressing ♠, ▼, ◄, or
▶. and then press the ℻ button.

#### Smart portrait

When the camera detects a smiling face, you can take a picture automatically without pressing the shutter-release button (Smile timer). The skin softening option can be used to make skin tones of human faces appear smoother.

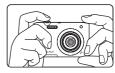
# Features That Are Available in Each Shooting Mode

- The multi selector ▲ (♣), ▼ (♣), ◄ (₺), and ▶ (₺) can be used to set the corresponding features. See "Features That Can Be Set Using the Multi Selector" (□49) for more information.
- When using shooting mode, press the **MENU** button to display the menu for the selected shooting mode. See "Shooting Features" (CCC 35) for information about the settings available in the menu for the current shooting mode.

# **Step 3 Frame a Picture**

## 1 Hold the camera steadily in both hands.

 Keep fingers and other objects away from the lens, flash, AF assist-illuminator, microphone, and speaker.



 When taking pictures in portrait ("tall") orientation, turn the camera so that the built-in flash is above the lens.



# **2** Frame the picture.

- When the camera detects a face, that face will be framed by a yellow double border (focus area) (default setting).
- Up to 12 faces can be detected. If more than one face is detected, the face closest to the camera will be framed by a double border, and the others by a single border.
- When taking pictures of subjects other than people, or framing a subject with which no face is detected, a focus area will not be displayed. Frame the picture so that the intended subject is at or pear the center of the frame.

### Shooting mode icon



# Using a Tripod

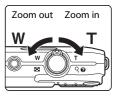
We recommend using a tripod to stabilize the camera when shooting in the following situations:

- When shooting in dim lighting or when the flash mode (\$\sum\_51\$) is set to \$\mathbb{3}\$ (**Off**).
- · When zooming in on the subject.

### Using the Zoom

Use the zoom control to activate optical zoom.

- Rotate the zoom control to T to zoom in so that the subject fills a larger area of the frame.
- Rotate the zoom control to W to zoom out, thus increasing the area visible in the frame.
- The zoom position is set at the maximum wide-angle position when the camera is turned on.
- A zoom indicator is displayed at the top of the monitor when the zoom control is rotated





### **Digital Zoom**

When the camera is zoomed in to the maximum optical zoom position, rotating and holding the zoom control at  $\mathbf{T}$  triggers digital zoom. The subject is magnified up to  $4\times$  the maximum optical zoom ratio.



• The camera focuses at the center of the frame and the focus area is not displayed when digital zoom is in effect.

# Digital Zoom and Interpolation

Unlike optical zoom, digital zoom uses a digital imaging process known as interpolation to magnify images, resulting in slight deterioration of image quality according to the image mode ( $\square$ 57) and digital zoom magnification.

Interpolation is applied at zoom positions beyond  $\triangle$  when taking still images. When zoom is increased beyond the  $\triangle$  position, interpolation is initiated and the zoom indicator turns yellow to indicate that interpolation is being applied.  $\triangle$  moves to the right as the image size becomes smaller, allowing you to confirm the zoom position that can be used to capture still images without image degradation before shooting at the current image size setting.



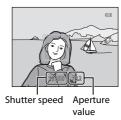
• Digital zoom can be disabled from the **Digital zoom** option ( $\square$ 83) in the setup menu ( $\square$ 82).

# **Step 4 Focus and Shoot**

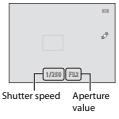
## Press the shutter-release button halfway, i.e., press the button slightly until you feel resistance.

- When you press the shutter-release button halfway, the camera sets focus and exposure (shutter speed and aperture value). Focus and exposure remain locked while the shutter-release button is pressed halfway.
- When a face is detected, it is framed by the double border indicating the active focus area. When the subject is in focus, the double border turns green.



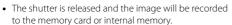


 When a face is not detected, camera automatically selects the focus area (up to nine) containing the subject closest to the camera. When the subject is in focus, the focus area that is selected glows green.



- When digital zoom is used, the focus area is not displayed and the camera focuses at the center of the frame. Once focus has been acquired, the focus indicator (\(\subseteq 6\)) will glow green.
- If the focus area or the focus indicator flashes red when the shutter-release button is
  pressed halfway, the camera is unable to focus. Modify the composition and press the
  shutter-release button halfway again.

# **2** Press the shutter-release button all the way, i.e., press the button the rest of the way down.







# Note on Recording Images and Saving Movies

The indicator showing the number of exposures remaining or the indicator showing the maximum movie length flashes while images are being recorded or while a movie is being saved. **Do not open the battery-chamber/memory card slot cover or remove the battery or memory card** while an indicator is flashing. Doing this could result in loss of data, or in damage to the camera or the memory card.

# Subjects Not Suitable for Autofocus

Autofocus may not perform as expected in the following situations. In some rare cases, the subject may not be in focus despite the fact that the focus area or the focus indicator glows green:

- Subject is very dark
- Objects of sharply differing brightness are included in the scene (e.g. the sun behind the subject makes that subject appear very dark)
- No contrast between the subject and surroundings (e.g. a portrait subject, wearing a white shirt, is standing in front of a white wall)
- Several objects are at different distances from the camera (e.g. the subject is inside a cage)
- Regular geometric patterns (e.g. window blinds or windows on a skyscraper)
- · Subject is moving rapidly

In the situations noted above, try pressing the shutter-release button halfway to refocus several times, or focus on another subject in auto mode and use focus lock ( $\square$ 64). When using focus lock, be sure that the distance between the camera and the subject with which focus was locked is the same as that for the actual subject.

### Note About Face Detection

See "Face Detection" ( $\square$ 61) for more information.

# When the Subject Is Close to the Camera

If the camera cannot focus, try shooting with macro mode ( $\square$ 53) or the **Close-up** scene mode ( $\square$ 43).

### AF-assist Illuminator and Flash

If the subject is poorly lit, the AF-assist illuminator ( $\square$ 83) may light when the shutter-release button is pressed halfway, or the flash ( $\square$ 50) may fire when the shutter-release button is pressed all the way down.

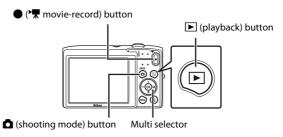
### To Make Sure You Do Not Miss a Shot

If you are concerned that you might miss a shot, press the shutter-release button all the way without first pressing it halfway.

# **Step 5 Play Back Images**

# **1** Press the **▶** (playback) button.

 The camera enters playback mode, and the last image captured is displayed in fullframe playback mode.



# 2 Use the multi selector to select an image to display.

- Press ▲ or ◀ to view the previous image.
- Press ▼ or ▶ to view the next image.
- To scroll quickly through images, press and hold the multi selector ▲, ◀, ▼, or ▶.
- To play back images that are saved in the internal memory, remove the memory card. iii is displayed in the current frame number/total number of frames area.



Current frame number/ total number of frames

# Viewing Images

- Images may be displayed briefly at low resolution while being read from the memory card or internal memory.
- If you are viewing an image that was captured using face detection (\(\sum\_{61}\)) or pet detection (\(\sum\_{45}\)), these images will be rotated and displayed automatically in full-frame playback mode, based on the orientation of the faces detected, except for images captured with **Continuous**, **BSS**, or **Multi-shot 16** (\(\sum\_{37}\)).
- The orientation of images can be changed using **Rotate image** (QQ67) in the playback menu.

# Selecting Types of Images for Playback

- See "Functions Available in Playback Mode (Playback Menu)" (\$\sum\_{67}\$) for more information.
- See "Selecting Certain Types of Images for Playback" (QQ66) for more information.

### **Changing How Images Are Displayed**

When using playback mode, you can change how images are displayed by rotating the zoom control to  $\mathbf{W}$  ( $\mathbf{\square}$ 4).



### **Playback Zoom**



- You can adjust the zoom ratio by rotating the zoom control to W (►)/T (Q). Images can be zoomed up to 10x.
- To view a different area of the image, press the multi selector  $\triangle$ ,  $\nabla$ ,  $\triangleleft$ , or  $\triangleright$ .
- If you are viewing an image that was captured using face detection (☐61) or pet detection (☐45), the camera zooms in on the face detected at the time of shooting, except for images captured with Continuous, BSS, or Multi-shot 16 (☐37). If the camera detected multiple faces when the image was captured, press ▲, ▼, ◄, or ▶ to display a different face. To zoom in on an area of the image where there are no faces, change the zoom ratio and then, press ▲, ▼, ◄, or ▶.
- You can crop the image and save the displayed area of the image as a separate file by pressing the MENU button (♣16).
- Press the button to return to full-frame playback mode.

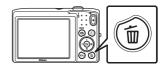
### Image Thumbnail Display/Calendar Display



- You can view several images on one screen, making it easy to find the image you want.
- You can change the number of thumbnails displayed by rotating the zoom control to W (♣) and T (Q).
- Press the multi selector ▲, ▼, ◀, or ▶ to select an image, and then press the
   ® button to display that image full-frame.
- When 16 thumbnails are displayed, rotate the zoom control to W (►) to switch to calendar display (except for list by date mode).
- While using calendar display mode, press the multi selector ▲, ▼, ◄, or ▶ to select
  a date and then press the ⋒ button to display the first image captured on that day.

# **Step 6 Delete Unwanted Images**

Press the m button to delete the image currently displayed in the monitor.



偷

- Press the multi selector ▲ or ▼ to choose the desired deletion method and press the ® button.
  - Current image: Delete the image currently displayed.
  - Erase selected images: Select multiple images and delete them. See "Operating the Erase Selected Images Screen" (CD33) for more information.
  - All images: Delete all images.
  - To exit without deleting the image, press the **MENU** button.
- **3** Press ▲ or ▼ to choose **Yes** and press the ® button.
  - · Deleted images cannot be recovered.
  - To exit without deleting the image, press ▲ or ▼ to select **No** and press the **®** button.



# Notes About Deleting Images

- Once deleted, images cannot be recovered. Transfer important images to a computer or other media before deleting them.
- Protected images cannot be deleted (QQ67).
- Deleting the Last Image Captured while in Shooting Mode

### **Operating the Erase Selected Images Screen**

- Press the multi selector 

  or 

  to choose an image to be deleted, and then press 

  to display 

  .
  - To undo the selection, press lacktriangledown to remove lacktriangledown.
  - Rotate the zoom control (□2) to T (Q) to switch back to full-frame playback or W (□2) to display thumbnails.



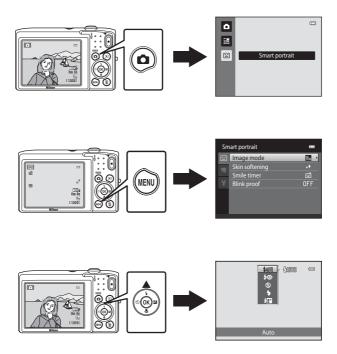
- **2** Add extstyle extsty
  - A confirmation dialog is displayed. Follow the onscreen instructions for more operations.



# **Shooting Features**

This chapter describes each of the camera's shooting modes and the features that are available when using each shooting mode.

By referring to this information, you will learn how to select different shooting modes and adjust settings according to the shooting conditions and the kind of images you want to take.



# (Auto) Mode

⚠ (auto) mode is useful for general photography, and it allows you to customize a variety of settings to suit the shooting conditions and the type of shot you want to capture (□37).



On the shooting screen  $\rightarrow \bigcirc$  (shooting mode) button  $\rightarrow \bigcirc$  (auto) mode ( $\bigcirc$ 24-25)

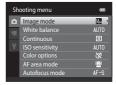
- You can change how the camera selects the area of the frame to focus on by
  pressing the MENU button, selecting the tab, and setting AF area mode. The
  default setting is Face priority.
- When **AF area mode** in the shooting menu is set to **Face priority** (default setting) the camera focuses on the subject as follows:
  - If the camera detects a human face, the camera automatically focuses on it (see "Face Detection" (2061) for more information).
  - If no faces are detected, the camera automatically selects one or more of the nine focus areas containing the subject closest to the camera. When the subject is in focus, the focus area (active focus area) lights in green (maximum of nine areas).

# Changing (Auto) Mode Settings

- Features That Can Be Set Using the Multi Selector (\$\square\$49): Flash mode (\$\square\$50), self-timer (\$\square\$52), macro mode (\$\square\$53), and exposure compensation (\$\square\$54).
- Features that can be set by pressing MENU button: Shooting Menu Options in 
   (Auto) Mode (□37).

# Shooting Menu Options in 🗖 (Auto) Mode

In **a** (auto) mode, the following options can be changed.



### On the ⚠ (Auto) mode shooting screen → MENU button

Option	Description	
Image mode	Allows you to select the combination of image size and image quality used when saving images. The default setting is 4320×3240. This setting is applied to other shooting modes.	57
White balance	Allows you to adjust the colors in the image to suit the light source, which can make colors appear as they do to the eye. Although <b>Auto</b> (default setting) can be used under most types of lighting, white balance can be adjusted to suit the sky conditions or light source and achieve more natural color tones in the image.  • Set the flash to ③ (Off) when white balance is set to any setting other than <b>Auto</b> and <b>Flash</b> .	<b>6~</b> 024
Continuous	Allows you to select from continuous settings of <b>Single</b> , <b>Continuous</b> , <b>BSS</b> ( $\square$ 43), or <b>Multi-shot 16</b> . The default setting is <b>Single</b> (i.e., only one image is captured at a time).  In <b>Continuous</b> , while the shutter-release button is held down, up to 8 images are captured at a rate of about 0.9 frames per second (fps) when image mode is set to <b>4320×3240</b> .	<b>6~</b> 026
ISO sensitivity	Higher ISO sensitivity allows you to shoot in lower light conditions and thus take pictures of darker subjects. Additionally, even with subjects of similar brightness, pictures can be taken at faster shutter speeds, and blurring caused by camera shake and subject movement can be reduced. When ISO sensitivity is set to <b>Auto</b> (default setting), the camera sets the ISO sensitivity automatically.  If <b>Auto</b> is selected and the ISO sensitivity is raised automatically, the 150 icon is displayed in the shooting screen (□6).	<b>6→</b> 28

### (Auto) Mode

Option	Description	Ш
Color options	Allows you to change the color tones of images at the time of shooting. The available settings are <b>Standard color</b> (default setting), <b>Vivid color</b> , <b>Black-and-white</b> , <b>Sepia</b> , and <b>Cyanotype</b> .	<b>6</b> €29
AF area mode	Allows you to select how the camera determines the focus area for autofocus, from <b>Face priority</b> (default setting), <b>Auto</b> , <b>Manual</b> , <b>Center</b> , or <b>Subject tracking</b> .	<b>⇔</b> 30
Autofocus mode	When <b>Single AF</b> (default setting) is selected, the camera focuses only while the shutter-release button is pressed halfway. When <b>Full-time AF</b> is selected, the camera focuses even when the shutter-release button is not pressed halfway. You may hear the sound of the camera focusing.	<b>6→</b> 33

# **Scene Mode (Shooting Suited to Scenes)**

Camera settings are automatically optimized for the selected subject type. Scene modes shown as below are available.

On the shooting screen  $\Rightarrow \bigcirc$  (shooting mode) button  $\Rightarrow$   $\bigcirc$  (second icon from the top\*)  $\Rightarrow$   $\triangleright$   $\Rightarrow$  select a scene ( $\bigcirc$ 24-25)

\* The icon for the last scene mode selected is displayed. The default setting is **(Scene auto selector)**.

Scene auto selector (QQ40)	<b>Ź</b> Portrait (□40)	Landscape (QQ40)	❖ Sports (□41)
Night portrait (Q41)	Party/indoor (\(\Omega41\)	<b>₽</b> Beach (◯◯41)	Snow (□42)
Sunset (QQ42)	<b>i</b> Dusk/dawn (□ 42)	■ Night landscape (□142)	Close-up (QQ 43)
<b>TI</b> Food (QQ43)	<u>■</u> Museum (□43)	Fireworks show (\(\Quad 44\)	Black and white copy (QQ44)
Backlighting (QQ44)	Panorama assist (\(\square\)44)	Pet portrait (\(\sum45\)	

# **☑** Displaying a Description of Each Scene Mode (Help Display)

Choose the desired scene type from the scene selection screen and rotate the zoom control ( $\square$ 2) to T(?) to view a description of that scene. To return to the original screen, rotate the zoom control to T(?) again.



## **Changing Scene Mode Settings**

- Depending on the scene, the multi selector ▲ (♣), ▼ (♣), ◄ (♠), and ► (ᢓ)can be used to set the corresponding features. See "Default Settings" (□ 55) for more information.
- Features that can be set using the MENU button: Image mode (the combination of image size and image quality) (\$\sum\_57\$).

#### Scene Mode and Features

#### Scene auto selector

The camera simplifies shooting by automatically selecting the optimum scene mode as shown below when the shot is framed.

**Z**: Portrait, **T**: Landscape, **T**: Night portrait, **I**: Night landscape, **T**: Close-up, **E**: Backlighting, **I**: Other scenes

- When the camera selects a scene mode, the shooting mode icon displayed in the shooting screen changes to that for the scene mode currently enabled.
- The area of the frame that the camera focuses on (AF area) depends on the composition
  of the picture. When the camera detects a human face, it focuses on that face (\(\subseteq \subseteq 61\)).
- · Digital zoom is not available.

### **2** Portrait

Use this mode for portraits.

- The camera detects a human face and focuses on it (QQ61).
- The camera smoothes skin tones by applying the skin softening function (\$\subseteq\$63).
- If no faces are detected, the camera focuses on the subject at the center of the frame.
- Digital zoom is not available.



### Landscape

Use this mode for vivid landscapes and cityscapes.

 When the shutter-release button is pressed halfway, focus areas or the focus indicator (□6) always glows green.



#### Sports \$

Use this mode for dynamic action shots that freeze the action in a single shot and record motion in a series of still images.

- The camera focuses at the center of the frame.
- To take images continuously, hold down the shutter-release button. Up to 8 images are captured at a rate of about 0.9 frames per second (fps) when image mode is set to

#### 4320×3240

- The camera continuously adjusts focus even when the shutter-release button is not pressed halfway. You may hear the sound of the camera focusing.
- During continuous shooting, focus, exposure, and hue are fixed at the values determined with the first image in each series.
- The frame rate with continuous shooting may vary depending upon the current image mode setting, the memory card used, or shooting condition.

#### Night portrait



Use this mode for portraits taken at sunset or at night.

- The camera detects a human face and focuses on it (\$\sum\_61\$).
- The camera smoothes skin tones by applying the skin softening function (\$\subseteq\$63).
- If no faces are detected, the camera focuses on the subject at the center of the frame.
- Digital zoom is not available.



#### XX Party/indoor

Captures the effects of candlelight and other indoor background lighting.

- The camera focuses at the center of the frame.
- Hold the camera steadily when shooting in dark surroundings. Use of a tripod is recommended.



#### **Beach**

Captures the brightness of such subjects as beaches or sunlit expanses of water.

The camera focuses at the center of the frame.



#### Scene Mode (Shooting Suited to Scenes)

#### Snow

Captures the brightness of sunlit snow.

• The camera focuses at the center of the frame.



#### **Sunset**

【】

Preserves the deep hues seen in sunsets and sunrises.

• The camera focuses at the center of the frame.



#### **ṁ** Dusk/dawn



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

 When the shutter-release button is pressed halfway, focus areas or the focus indicator (□□6) always glows green.



### ■ Night landscape



Slow shutter speeds are used to produce stunning night landscapes.

 When the shutter-release button is pressed halfway, focus areas or the focus indicator (\$\subseteq\$6 always glows green.



#### 🗱 Close-up

Photograph flowers, insects and other small objects at close range.

- Macro mode (\$\sum\_5\$3) is enabled and the camera automatically zooms to the closest position at which it can focus.
- The active focus area can be moved by pressing the ® button and then pressing the multi selector ▲, ▼, ◄, or ▶.
   Before making any of the settings below, press the ® button to cancel the focus-area selection.
  - Flash mode
  - Self-timer
  - Exposure compensation
- The camera continuously adjusts focus even when the shutter-release button is not held down halfway. You may hear the sound of the camera focusing.

#### TI Food

Use when taking pictures of food.

- Macro mode (\$\sum\_{53}\$) is enabled and the camera automatically zooms to the closest position at which it can focus.
- You can adjust the hue by pressing the multi selector ▲ and
   ▼. The selected hue adjustment setting is saved in the camera's memory even after the camera is turned off.
- - Hue
  - Self-timer
  - Exposure compensation
- The camera continuously adjusts focus even when the shutter-release button is not held down halfway. You may hear the sound of the camera focusing.





#### m Museum

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

- The camera focuses at the center of the frame.
- The camera captures a series of up to ten images while the shutter-release button is held all the way down, and the sharpest image in the series is automatically selected and saved (best shot selector).



#### Fireworks show



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

- · The camera focuses at infinity.
- When the shutter-release button is pressed halfway, focus areas or the focus indicator (\$\sum\_6\$) always glows green.



#### ■ Black and white copy

Provides clear images of text or drawings on a whiteboard or in print.

- The camera focuses at the center of the frame.
- Use with macro mode (\$\sum\_53\$) when shooting a subject at close distance.



#### **2** Backlighting

Use when light is coming from behind the subject, throwing features or details into shadow. The flash fires automatically to "fill in" (illuminate) shadows.

· The camera focuses at the center of the frame.



#### **III** Panorama assist



Takes a series of images that you can join together into a panorama on a computer.

- Select the direction in which to add images to the panorama by pressing the multi selector ▲, ▼, ◄ or ▶, and then press the ® button.
- After taking the first image, take the additional shots needed while checking how each image will connect to the next. To finish shooting, press the ® button.
- Transfer the images to a computer and use Panorama Maker 6 (\$\sum 70\$) to join them into a single panorama.
- See "Using Panorama Assist" (♣2) for more information.

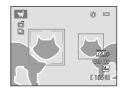
#### 🎀 Pet portrait

Use this mode for taking portraits of pets (dogs or cats). When the camera detects the face of a dog or cat, it focuses on the face and automatically releases the shutter (pet portrait auto release).



- On the screen displayed when Pet portrait is selected for scene mode, select Single or Continuous.
  - **Single**: The camera takes one image at a time.
  - Continuous (default setting): When focus is acquired on the detected face, 3 images can be captured (Continuous shooting speed: about 0.7 fps when the image mode setting is 

    4320×3240). 
    □ icon is displayed in the monitor during shooting when Continuous is selected
- A double border (focus area) is displayed around the detected face, and it turns green when the focus is acquired. Up to five faces can be detected. When the camera detects more than one face, the double border is displayed around the largest face, and single borders are displayed around the others



- When no pet faces are detected, the shutter can be released by pressing the shutter-release button.
  - The camera focuses on the subject at the center of the frame when no pet faces are detected.
  - When Continuous is selected, up to 8 images are captured at a rate of about 0.7 fps while the shutter-release button is held down (when the image mode setting is 4320×3240).
- Press the multi selector ◀ (🕲) to change auto release settings.
  - **Pet portrait auto release** (default setting): The camera automatically releases the shutter when it focuses on the detected face. While **Pet portrait auto release** is selected, the ☑ icon is displayed in the shooting screen.
  - **OFF**: The shutter is released only when the shutter-release button is pressed.
- Digital zoom is not available.
- AF-assist illuminator (□83, ♣58) does not light up. Button and shutter sounds (□83, ♣59) are disabled.
- Factors such as the distance between the pet and the camera, the orientation or brightness of the face, and the speed at which the pet is moving may prevent the camera from detecting the faces of dogs or cats or may cause the camera to display borders around faces other than those of dogs or cats.
- Pet portrait auto release turns off automatically when:
  - Five bursts have been taken.
  - Internal memory or the memory card is full.

To continue taking pictures with **Pet portrait auto release**, press the multi selector **◄** (**७**) and change the setting again.

# **Smart Portrait Mode (Capturing Images of Smiling Faces)**

When human smiles are detected, the camera automatically releases the shutter without you having to press the shutter-release button (smile timer). You can also use the skin softening option to smooth the skin tones in human faces.

On the shooting screen → **(** (shooting mode) button → **(** Smart portrait () 24-25)

## Frame a picture and wait for the subject to smile without pressing the shutter-release button.

 When the camera detects a human face, a yellow double border (focus area) is displayed around that face. When the camera has focused on that face, the double border will turn green for a moment and focus is locked.



- Up to three faces can be detected. When the camera detects more than one face, a double border is displayed around the face closest to the center of the frame, and single borders are displayed around the other faces.
- If the camera detects that the face framed by the double border is smiling, Smile timer (\(\subseteq 48\)) is activated and the shutter is automatically released.
- Each time the shutter is released, the camera again initiates face detection and smile detection operations for continuous automatic shooting.

## **2** Stop shooting.

- To stop automatic shooting of smiling faces, perform the followings.
  - Turn the camera off.
  - Set Smile timer (□□48) to Off.
  - Press the 🗖 button and select other shooting mode.

## Notes About Smart Portrait Mode

- · Digital zoom is not available.
- Under some shooting conditions, the camera may be unable to detect faces or smiles.
- See "Notes About Face Detection Function" (□162) for more information.

### Auto Off in Smile Timer Mode

When **Smile timer** is set to **On**, the auto off function ( $\square$ 83) is activated and the camera turns off when either of the situations indicated below persists and no other operations are performed.

- The camera does not detect any faces.
- The camera detected a face, but cannot detect a smile.

# Self-timer Lamp

The self-timer lamp flashes when the smile timer is enabled and the camera detects a face, and it flashes quickly immediately after the shutter is released.

# Releasing the Shutter Manually

Pictures can also be taken by pressing the shutter-release button. If no faces are detected, the camera focuses on the subject at the center of the frame.

## **Changing Smart Portrait Mode Settings**

- Features That Can Be Set Using the Multi Selector (\$\square\square\): Flash mode (\$\square\square\)50), self-timer (\$\square\square\)52), and exposure compensation (\$\square\square\)54).
- See "Smart Portrait Menu Options" ( 48) for more information about functions that can be set using the **MENU** button.

# Functions That Cannot Be Used Simultaneously

There are functions with which this setting cannot be enabled. See "Functions That Cannot Be Applied Simultaneously" ( $\square$ 59) for more information.

## **Smart Portrait Menu Options**

In smart portrait mode, the following options can be changed.

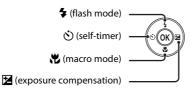


On the smart portrait mode shooting screen  $\rightarrow$  MENU button

Option	Description	Щ
Image mode	Allows you to select the combination of image size and image quality used when saving images. If you change the image mode setting, the new setting is applied to all shooting modes.	57
Skin softening	Allows you to set the skin softening effect. The camera softens facial skin tones by applying the skin softening function before saving images. You can select the amount of effect that is applied. The default setting is <b>Normal</b> .	<b>∂=0</b> 34
Smile timer	When <b>On</b> (default setting) is selected, the camera detects human faces and then automatically releases the shutter whenever a smile is detected. The self-timer cannot be used with this feature.	<b>6=6</b> 34
Blink proof	When <b>On</b> is selected, the camera automatically releases the shutter twice each time a picture is taken. Of the two shots, one in which the subject's eyes are open is saved. Flash cannot be used when <b>On</b> is selected. The default setting is <b>Off</b> .	<b>6→</b> 35

# **Features That Can Be Set Using the Multi Selector**

The following shooting functions can be set by pressing the multi selector  $\blacktriangle$  ( $\clubsuit$ ),  $\blacktriangledown$  ( $\clubsuit$ ),  $\blacktriangleleft$  ( $\diamondsuit$ ), or  $\blacktriangleright$  ( $\oiint$ ) when shooting.



# **Functions Available for Each Shooting Mode**

The functions that can be set vary depending on the shooting mode, as shown below.

 See "Default Settings" (\$\sum\_55\$) for information about each mode's default settings.

Functions	▲ Auto mode	Scene	Smart portrait
Flash mode (QQ 50)	~		<b>✓</b> <sup>2</sup>
Self-timer (QQ 52)	~		<b>✓</b> <sup>2</sup>
Macro (CC 53)	~	1	-
Exposure compensation (\$\iint_54\$)	~		~

 $<sup>^1</sup>$  Varies by the scene. See "Default Settings" (  $\ \square 55)$  for more information.

### **Using the Flash (Flash Modes)**

The flash mode can be set to match the shooting conditions.

**1** Press the multi selector ▲ (**4** flash mode).

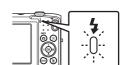


- 2 Press the multi selector ▲ or ▼ to choose the desired flash mode and press the ® button.
  - See "Available Flash Modes" (\$\square\$51) for more information.
  - If a setting is not applied by pressing the button within a few seconds, the selection will be canceled.
  - When \$AITO (Auto) is applied, \$AITO is only displayed for a few seconds, regardless of **Photo info** settings (\$\infty\$53).





- **3** Frame the subject and take a picture.
  - The flash lamp indicates flash status when the shutterrelease button is pressed halfway.
    - On: The flash will fire when you press the shutterrelease button all the way down.
    - Flashes: Flash charging. Wait a few seconds and try again.
    - Off: Flash will not fire when picture is taken.
  - If the battery is low, the monitor will turn off, and remain off, while the flash charges.



# Effective Range of the Flash

When ISO sensitivity is set to **Auto**, the flash has a range of 0.5–4.5 m (1 ft 8 in.–14 ft) at the maximum wide-angle zoom position and a range of 0.5–2.2 m (1 ft 8 in.–7 ft 2 in.) at the maximum telephoto zoom position.

#### **Available Flash Modes**

#### **£**AUTO Auto

Flash fires automatically when lighting is dim.

#### **‡** Auto with red-eye reduction

Suited to pictures of people. This option reduces the "red-eye" phenomenon that caused by the use of flash.

#### (S) Off

Flash will not fire even when lighting is dim.

We recommend using a tripod to stabilize the camera when shooting in dim lighting.

#### Fill flash

Flash fires whenever a picture is taken. Use to "fill-in" (illuminate) shadows and backlit subjects.

#### **\$** Slow sync

Auto flash mode is combined with slow shutter speed.
Suited to evening and night portraits that include background scenery.
Flash illuminates main subject; slow shutter speeds are used to capture background at night or under dim lighting.

## The Flash Mode Setting

- The default flash mode setting varies with shooting mode. See "Default Settings" (\$\omega\$55) and "Functions Available for Each Shooting Mode" (\$\omega\$49) for more information.
- Some flash settings cannot be used with other functions. See "Functions That Cannot Be Applied Simultaneously" (CDS9) for more information.
- The flash mode setting applied in (auto) mode is stored in the camera's memory even after the camera is turned off.

# Red-eye Reduction

This camera uses advanced red-eye reduction ("In-Camera Red-Eye Fix").

If the camera detects "red eye" while saving an image, the affected area will be processed to reduce red-eye before the image is saved.

Note the following when shooting:

- More time than usual is required to save images.
- Red-eye reduction may not produce the desired results in some situations.
- In extremely rare instances, areas not subject to red-eye may be affected by red-eye reduction processing; in these cases, choose another flash mode and try again.

## **Using the Self-timer**

The camera is equipped with a self-timer that releases the shutter ten seconds or two seconds after you press the shutter-release button. The self-timer is useful when you want to be in the picture you are taking, and when you want to avoid the effects of camera shake that occur when you press the shutter-release button. When using the self-timer, use of a tripod is recommended.

**1** Press the multi selector **◄** (**ఄ**) self-timer).



- 2 Press the multi selector ▲ or ▼ to choose ♦ 10s or ♦ 2s and press the ♠ button.
  - **৩10s** (ten seconds): Use on important occasions, such as weddings
  - 🖒 2s (two seconds): Use to prevent camera shake
  - If a setting is not applied by pressing the button within a few seconds, the selection will be canceled.
  - When the shooting mode is set to **Pet portrait** scene mode, **■** (Pet portrait auto release) is displayed (□,45). The self-timer settings **○10s** and **○2s** cannot be used.
- **3** Frame the picture and press the shutter-release button halfway.
  - Focus and exposure will be set.





- **4** Press the shutter-release button the rest of the way down.
  - The self-timer starts, and the number of seconds remaining before the shutter is released is displayed in the monitor. The selftimer lamp flashes while the timer is counting down. About one second before the shutter is released, the lamp stops flashing and glows steadily.
  - When the shutter is released, the self-timer will be set to OFF.
  - To stop the timer before a picture is taken, press the shutter-release button again.







## **Using Macro Mode**

When using macro mode, the camera can focus on objects as close as 10 cm (4 in.) from the front of the lens. This feature is useful when taking close-up pictures of flowers and other small subjects.

**1** Press the multi selector **▼** (**\*** macro mode).



- 2 Press the multi selector ▲ or ▼ to choose **ON** and press the **(**S) button.
  - The macro mode icon (3) is displayed.
  - If the setting is not applied by pressing the button within a few seconds, the selection will be canceled.



**3** Rotate the zoom control to set the zoom ratio to a position where ₩ and the zoom indicator glow green.



 How close you can be to the subject when shooting depends on the zoom ratio.

When the zoom ratio is set to a position where 3 and the zoom indicator glow green, the camera can focus on subjects as close as 30 cm (1 ft) from the lens. When the zoom is at the maximum wide-angle position, (at the position where  $\triangle$  is displayed), the camera can focus on subjects as close as 10 cm (4 in.) from the lens.

# Note About Using the Flash

The flash may be unable to light the entire subject at distances of less than 50 cm (1 ft 8 in.).

### Note About Autofocus

When using macro mode in the ♠ (auto) mode, you can focus without pressing the shutter-release button halfway by setting **Autofocus mode** (♠38) in the shooting menu (♠37) to **Full-time AF**. When using other shooting modes, **Full-time AF** is turned on automatically when macro mode is turned on. You may hear the sound of the camera focusing.

# The Macro Mode Setting

- Macro mode cannot be used when using certain shooting modes. See "Features That Can Be Set Using the Multi Selector" (□49) for more information.
- The macro mode setting applied in (auto) mode is stored in the camera's memory even after the camera is turned off.

## **Adjusting Brightness (Exposure Compensation)**

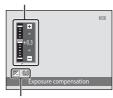
Exposure compensation is used to alter exposure from the value suggested by the camera to make images brighter or darker.

1 Press the multi selector ► ( exposure compensation).



- Press the multi selector ▲ or ▼ to select a compensation value.
  - To make the image brighter, apply positive (+) exposure compensation.
  - To make the image darker, apply negative (–) exposure compensation.

# Exposure compensation guide



Exposure compensation value

- **3** Press the **6** button to apply the compensation value.
  - If you do not press the **(M)** button within a few seconds, the menu will disappear.
  - When an exposure compensation value other than 0.0
    is applied, the value is displayed with the 

    indicator in
    the monitor.



- 4 Press the shutter-release button to take a picture.
  - To exit without altering exposure, return to step 1, change the value to **0.0** and press the button.

Exposure Compensation Value

The exposure compensation value applied in **(auto)** mode is stored in the camera's memory even after the camera is turned off.

# **Default Settings**

The default settings for each function in each shooting mode are described below.

 See the next page for information about the default settings in the scene modes.

	Flash (ДД50)	Self-timer (QQ52)	Macro (ДД53)	Exposure compensation (\$\square\$54\$)
(Auto mode)	<b>\$</b> AUTO	Off	Off	0.0
(Smart portrait)	<b>\$</b> AUTO <sup>1</sup>	Off <sup>2</sup>	Off <sup>3</sup>	0.0

<sup>&</sup>lt;sup>1</sup> Cannot be used when **Blink proof** is set to **On**.

The setting applied in (auto) mode is saved in the camera's memory even after the camera is turned off (except the self-timer setting).

<sup>&</sup>lt;sup>2</sup> Can be set when **Smile timer** is set to **Off**.

<sup>&</sup>lt;sup>3</sup> The setting cannot be changed.

#### Features That Can Be Set Using the Multi Selector

The default settings for each function in scene mode are described below.

	Flash (ДД50)	Self-timer (◯◯52)	Macro (◯◯53)	Exposure compensation (Д54)
<b>(</b> (40)	<b>\$</b> AUTO ¹	Off	Off <sup>2</sup>	0.0
<b>2</b> (Q40)	<b>\$</b> ⊚	Off	Off <sup>2</sup>	0.0
<b>4</b> 0)	<b>9</b> <sup>2</sup>	Off	Off <sup>2</sup>	0.0
<b>4</b> (Q41)	<b>9</b> <sup>2</sup>	Off <sup>2</sup>	Off <sup>2</sup>	0.0
<b>₽</b> ( <b>□</b> 41)	<b>\$⊚</b> ³	Off	Off <sup>2</sup>	0.0
<b>%</b> (QQ41)	<b>\$⊚</b> <sup>4</sup>	Off	Off <sup>2</sup>	0.0
<b>2</b> (Q41)	<b>\$</b> AUTO	Off	Off <sup>2</sup>	0.0
<b>8</b> ( <b>□</b> 42)	<b>\$</b> AUTO	Off	Off <sup>2</sup>	0.0
<b>≝</b> (◯◯42)	<b>③</b> <sup>2</sup>	Off	Off <sup>2</sup>	0.0
<b>ដ</b> (QQ42)	<b>③</b> <sup>2</sup>	Off	Off <sup>2</sup>	0.0
<b>4</b> 2)	<b>③</b> <sup>2</sup>	Off	Off <sup>2</sup>	0.0
<b>%</b> (QQ43)	<b>(9</b> )	Off	On <sup>2</sup>	0.0
<b>T1</b> (QQ43)	<b>③</b> <sup>2</sup>	Off	On <sup>2</sup>	0.0
<u></u> (QQ43)	<b>③</b> <sup>2</sup>	Off	Off	0.0
● (□44)	<b>③</b> <sup>2</sup>	Off <sup>2</sup>	Off <sup>2</sup>	$0.0^2$
<b>4</b> 4)	<b>③</b>	Off	Off	0.0
<b>4</b> 4)	<b>\$</b> <sup>2</sup>	Off	Off <sup>2</sup>	0.0
<b>(</b> ()44)	<b>③</b>	Off	Off	0.0
<b>%</b> (QQ45)	<b>9</b> <sup>2</sup>	<b>ਛ</b> ੱ⁵	Off	0.0

<sup>1 \$</sup>AUTO (Auto) or ③ (Off) can be selected. When \$AUTO (Auto) is selected, the camera automatically selects the flash mode appropriate for the scene it has been selected.

# Functions That Cannot Be Used Simultaneously

<sup>&</sup>lt;sup>2</sup> Cannot be modified.

<sup>&</sup>lt;sup>3</sup> Cannot be modified. Fixed to the fill flash with slow sync and red-eye reduction.

<sup>&</sup>lt;sup>4</sup> Slow sync with red-eye reduction flash mode may be used.

<sup>&</sup>lt;sup>5</sup> Self-timer is disabled. **Pet portrait auto release** (QQ45) can be turned on or off.

### **Changing the Image Size (Image Mode)**

On the shooting screen → MENU button → Image mode

You can use the **Image mode** setting in the shooting menu to select the combination of image size and compression ratio that is used when saving images. Choose the image mode best suited to the manner in which images will be used and the capacity of the internal memory or memory card. The higher the image mode setting, the larger the size at which it can



be printed, but limiting the number of images that can be recorded.

### Image Mode Settings (Image Size and Quality)

Option*	Description
<b>ा</b> 4320×3240	Higher quality than [44], suitable for enlargements or high-quality prints. The compression ratio is approximately 1:4.
4320×3240 (default setting)	Best choice in most situations. The compression ratio is approximately
8 <sub>M</sub> 3264×2448	1:8.
4 <sub>M</sub> 2272×1704	
<b>2</b> 1600×1200	Smaller size than [M], [SM], or [M] allows more images to be stored. The compression ratio is approximately 1:8.
<b>™</b> 640×480	Suited to full-screen display on a television with an aspect ratio of 4:3, or distribution by e-mail. The compression ratio is approximately 1:8.
<b>⊞</b> 4224×2376	Images with an aspect ratio of 16:9 are recorded. The compression ratio is approximately 1:8.

<sup>\*</sup> The total number of pixels recorded, and the number of pixels recorded horizontally and vertically.

Example: 4320×3240 = Approx. 14 megapixels, 4320 × 3240 pixels

The icon for the current setting is displayed in the monitor in shooting and playback modes ( $\square$ 6, 7).

#### Changing the Image Size (Image Mode)

#### Image Mode

- Change made to this setting applies to all shooting modes.
- There are functions with which this setting cannot be enabled. See "Functions That Cannot Be Applied Simultaneously" (2059) for more information.

### Number of Exposures Remaining

The following table lists the approximate number of images that can be stored in internal memory and on a 4 GB memory card. Note that the number of images that can be stored will differ depending on the composition of the image (due to JPEG compression). In addition, this number may vary depending on the make of memory card, even when the memory cards have the same specified capacity.

Image mode	Internal memory (approx. 39 MB)	Memory card <sup>1</sup> (4 GB)	Print size <sup>2</sup> (cm/in.)
<b>Ш</b> 4320×3240★	4	680	Approx. 36 × 27/14 × 10.5
4320×3240	8	1350	Approx. 36 × 27/14 × 10.5
8 3264×2448	14	2200	Approx. 28 × 21/11 × 8
<b>4</b> <sub>м</sub> 2272×1704	31	4550	Approx. 19 × 14/7.5 × 5.6
<b>2</b> 1600×1200	68	8590	Approx. 13 × 10/5.3 × 4
<b>№</b> 640×480	221	30500	Approx. 5 × 4/2 × 1.5
<b>⊞</b> 4224×2376	11	1880	Approx. 35 × 20/14 × 8

<sup>&</sup>lt;sup>1</sup> If the number of exposures remaining is 10,000 or more, the number of exposures remaining display shows "9999".

<sup>&</sup>lt;sup>2</sup> Print size at an output resolution of 300 dpi. Print sizes are calculated by dividing the number of pixels by printer resolution (dpi) and multiplying by 2.54 cm (1 in.). However, at the same image size, images printed at higher resolutions will print smaller than the size indicated, and those printed at lower resolutions will print larger than the size indicated.

### **Functions That Cannot Be Applied Simultaneously**

Some shooting settings cannot be used with other functions.

Restricted function	Setting	Descriptions
Flash mode	Continuous (\$\square\$37)	When <b>Continuous</b> , <b>BSS</b> , or <b>Multi-shot 16</b> is selected, flash is disabled.
Self-timer	AF area mode (\$\square\$38)	When <b>Subject tracking</b> is selected, self-timer is disabled.
Macro mode	AF area mode (\$\square\$38)	When <b>Subject tracking</b> is selected, macro mode is disabled.
	Continuous (C) 37)	When <b>Multi-shot 16</b> is selected, the <b>Image mode</b> setting is fixed at <b>5</b> (image size: 2560 × 1920 pixels).
Image mode	ISO sensitivity (□37)	When 3200 is selected, the image mode setting of only 1600×1200, or 1600×1200 and be selected. If any image mode setting other than above is selected, the image mode setting is automatically changed to 1600×1200 when 150 sensitivity is set to 3200.
White balance	Color options (C)38)	When <b>Black-and-white</b> , <b>Sepia</b> , or <b>Cyanotype</b> is selected, the <b>White balance</b> setting is fixed at <b>Auto</b> .
Continuous	Self-timer (QQ 52)	When using the self-timer, the continuous setting is fixed to <b>Single</b> .
ISO sensitivity	Continuous (C) 37)	When <b>Multi-shot 16</b> is selected, the <b>ISO sensitivity</b> setting is automatically specified according to the brightness.
AF area mode	Digital zoom (QQ 83)	When the digital zoom is in effect, focus area is fixed at <b>Center</b> .
Electronic VR	Continuous (C) 37)	When <b>Continuous</b> , <b>BSS</b> , or <b>Multi-shot 16</b> is selected, electronic vibration reduction is disabled.
	ISO sensitivity (\$\sum_37\$)	When a setting other than <b>Auto</b> is selected, electronic vibration reduction is disabled.

#### **Functions That Cannot Be Applied Simultaneously**

Restricted function	Setting	Descriptions
Motion detection	Continuous (Q37)	When Multi-shot 16 is selected, Motion detection is not enabled.
Motion detection	ISO sensitivity (QQ37)	When a setting other than <b>Auto</b> is selected, <b>Motion detection</b> is disabled.
Blink warning	Continuous (Q37)	When <b>Continuous</b> , <b>BSS</b> , or <b>Multi-shot 16</b> is selected, <b>Blink warning</b> is disabled.
Digital zoom	Continuous (Q)37)	When <b>Multi-shot 16</b> is selected, digital zoom is not available.
	AF area mode (CC) 38)	When <b>Subject tracking</b> is selected, digital zoom is disabled.

## Notes About Digital Zoom

- Digital zoom cannot be used with some settings and shooting modes (  $\ref{3}$  58).
- When digital zoom is in effect, the camera focuses at the center of the frame.

#### **Face Detection**

When the camera is pointed at a human face in the shooting modes as shown below, the camera automatically detects the face and focuses on it. When the camera detects more than one face, the double border (focus area) is displayed around the face that is focused on, and single borders around the others.



Shooting mode	Number of faces that can be detected	Focus area (double border)
When <b>AF area mode</b> (□38) is set to <b>Face priority</b> (►30) in (auto) mode	Un to 12	The face closest to the
Scene auto selector, Portrait ( 40), or Night portrait ( 41) in scene mode ( 39)	Up to 12	camera
Smart portrait mode (QQ46)	Up to 3	The face closest to the center of the frame

- When using (auto) mode, if you press the shutter-release button halfway
  while no faces are detected or while framing a shot with no faces in it, the
  camera selects the focus area (up to nine areas) containing the subject closest
  to the camera.
- When **Scene auto selector** is selected, the focus area changes depending on which scene the camera selects.
- If no faces are detected when the shutter-release button is pressed halfway in
   Portrait or Night portrait scene mode or smart portrait mode, the camera will
   focus on the subject at the center of the frame.

### Notes About Face Detection Function

- The camera's ability to detect faces depends on a variety of factors, including whether or not the subject is facing the camera. The camera may be unable to detect faces in the following situations:
  - When faces are partially hidden by sunglasses or otherwise obstructed
  - When faces take up too much or too little of the frame
- When the frame includes more than one face, the faces detected by the camera and the face on
  which the camera focuses depend upon a variety of factors, including the direction in which the
  faces are looking.
- In some rare cases, the subject may not be in focus despite the fact that the double border glows
  green (229). Should this occur, switch to (auto) mode and set AF area mode to Manual or
  Center. Try refocusing on another subject positioned at the same distance from the camera as the
  actual portrait subject (264).

### Viewing Images That Were Captured Using Face Detection

- When images in which a face was detected during shooting are played back, the images will be
  automatically rotated for playback display according to the orientation of the face detected
  except images captured using Continuous, BSS, or Multi-shot 16 (□37, ♣26).
- In full-frame playback mode, the image will be enlarged with the face detected during shooting
   (□31) at the center of the monitor when the zoom control is rotated to T (?) except images that
   were captured using Continuous, BSS, and Multi-shot 16 (□37, ♣26).

### **Skin Softening**

In the shooting modes as shown below, the camera detects up to three human faces when the shutter is released, and processes the image to soften facial skin tones before saving the image.

- Scene auto selector, Portrait (Q40) or Night portrait (Q41) scene mode
- Smart portrait mode

Editing functions such as **Skin softening** can be applied to saved images by using **Glamour retouch** ( $\square$ 67).

### Notes About the Skin Softening Function

- More time than usual may be required to save an image when shooting with skin softening function.
- In some shooting conditions, facial skin tones may not be smoothed or parts other than faces may
  be modified. If the desired results are not produced, switch the camera to other shooting mode or
  set Skin softening to Off in smart portrait mode, and shoot again.
- The skin softening level cannot be adjusted when the Scene auto selector, Portrait or Night
  portrait is selected in the scene mode.

### **Focus Lock**

Use focus lock to focus on off-center subjects when center is selected for AF area mode. To focus on off-center subjects when **Center** is selected for **AF area mode** in the shooting menu (\$\sum\_37\$) in **\lefta** (auto) mode, use focus lock as described below.

1 Position the subject in the center of the frame.



- **2** Press the shutter-release button halfway.
  - The camera focuses on the subject and the focus area glows green.
  - Focus and exposure are locked.





- **3** Continue holding down the shutter-release button halfway and recompose the picture.
  - Be sure that the distance between the camera and the subject does not change.



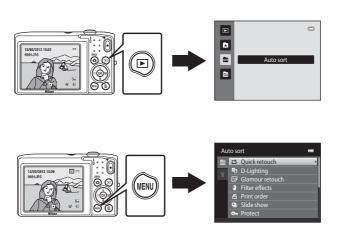
**4** Press the shutter-release button the rest of the way down to take the picture.





## **Playback Features**

This chapter describes how to select certain types of images for playback as well as some of the features available when playing back images.



### **Selecting Certain Types of Images for Playback**

You can change the playback mode according to the type of images you want to view.

#### **Available Playback Modes**

► Play

All images are played back. When you switch from shooting mode to playback mode, this mode is selected.

Favorite pictures

**6–6**4

Only images added to albums are played back. Images should be added to albums before selecting this mode ( $\square$ 5).

Auto sort

**6-6**7

 $\square$ 30

Images are automatically sorted in to categories, such as portraits, landscapes, and movies. You can play back images in a specific category only.

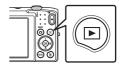
List by date

**6-6**9

Only images captured on the same date are played back.

### **Switching Between Playback Modes**

- Press the ▶ button in full-frame or thumbnail playback mode.
  - The screen used to select a playback mode (the playback-mode selection menu) is displayed.



- 2 Use the multi selector ▲ or ▼ to select a playback mode and press the ® button.
  - If you select **Play**, the playback screen is displayed.
  - When an option other than **Play** is selected, the album, category or shooting date selection screen is displayed.



- **3** Select an album, a category or a shooting date and press the ® button.
  - For 🖈 Favorite Pictures Mode, see 🗪 4.
  - For Am Auto Sort Mode, see 🗪 7.
  - For 🖆 List by Date Mode, see 🚗 9.
  - Repeat the procedure from step 1 to select an album, category or shooting date again.



Favorite pictures mode

### **Functions Available in Playback Mode (Playback Menu)**

When viewing images in full-frame playback mode or thumbnail playback mode, you can configure the menu operations listed below by pressing the **MENU** button. When using favorite pictures (\*\*), auto sort (\*\*), or list by date (\*\*) mode, the menu for the current playback mode is displayed.

Item	Description	m m
<b>Ľ</b> Quick retouch <sup>1</sup>	Easily create retouched copies in which contrast and saturation have been enhanced.	<b>6</b> €12
<b>□</b> D-Lighting <sup>1</sup>	Enhances brightness and contrast in dark portions of images.	<b>6</b> €12
Glamour retouch <sup>1</sup>	Make facial skin tone softer and make faces look smaller with larger eyes.	<b>←</b> 13
	Apply a variety of effects using digital filter. The available effects are <b>Soft</b> , <b>Selective color</b> , <b>Cross screen</b> , <b>Fisheye</b> , and <b>Miniature effect</b> .	<b>6−6</b> 14
♣ Print order <sup>2</sup>	When using a printer to print images saved on the memory card, you can use the <b>Print order</b> function to select which images are printed, and how many copies of each image are printed.	<b>6</b> →36
☑ Slide show <sup>2</sup>	View images stored in the internal memory or on a memory card in an automatic slide show.	<b>6</b> 40
<b>○</b> Protect <sup>2</sup>	Protect selected images from accidental deletion.	<b>6–6</b> 41
♣ Rotate image	Specifies the orientation in which saved images are displayed with playback.	<b>6−6</b> 43
Small picture <sup>1</sup>	Create a small copy of the current image. This feature is useful for creating copies for display on Web pages or e-mail attachments.	<b>⇔</b> 15
♣ Voice memo	Record voice memos using the camera's built-in microphone and attach them to images. Voice memo can also be played back and deleted.	<b>0−0</b> 44
<b>⊞</b> Copy <sup>3</sup>	Copy files between memory card and internal memory.	<b>6-6</b> 46

The selected image is edited, and the copy is saved with a different file name. Images captured at an image mode setting of 

### 4224×2376 (♣10) or movies cannot be edited. Once an image has been edited, some editing functions may become unavailable (♣11).

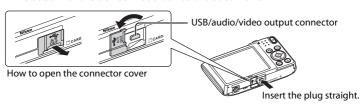
When using list by date mode, press the MENU button from the list of dates screen ( ) to apply the same function to all images captured on the selected date.

<sup>3</sup> This function is not available when using favorite pictures mode, auto sort mode, or list by date mode

### Connecting the Camera to a Television, Computer, or Printer

You can enhance your enjoyment of images and movies by connecting the camera to a TV, computer, or printer.

 Before connecting the camera to an external device, make sure the remaining battery level is sufficient and the camera is turned off. For information about the connection methods and subsequent operations, refer to the documentation included with the device in addition to this document.



#### Viewing images on a TV





You can view the camera's images and movies on a TV. Connection method: Connect the video and audio plugs of the included Audio Video Cable EG-CP14 to the TV's input jacks.

#### Viewing and organizing images on a computer

**1**69



If you transfer images to a computer, you can perform simple retouching and manage image data in addition to playing back images and movies.

Connection method: Connect the camera to the computer's USB input jack with the included USB Cable UC-E6.

- Before connecting to a computer, install ViewNX 2 on the computer using the included ViewNX 2 Installer CD-ROM. For information about using the ViewNX 2 Installer CD-ROM and transferring images to a computer, see page 71.
- If any USB devices that draw the power from the computer are connected, disconnect them from the computer before you connect the camera to it. Connecting the camera and other USB-powered devices to the same computer simultaneously may cause a camera malfunction or excessive power supply from the computer, which could damage the camera or memory card.

#### Printing images without using a computer

**6** 18



If you connect the camera to a PictBridge-compatible printer, you can print images without using a computer.

Connection method: Connect the camera directly to the printer's USB input jack with the included USB Cable UC-E6.

### **Using ViewNX 2**

ViewNX 2 is an all-in-one software package which enables you to transfer, view, edit and share images.

Install ViewNX 2 using the ViewNX 2 Installer CD-ROM.



#### **Installing ViewNX 2**

An Internet connection is required.

#### **Compatible Operating Systems**

#### Windows

- Windows 7 Home Basic/Home Premium/Professional/Enterprise/Ultimate (Service Pack 1)
- Windows Vista Home Basic/Home Premium/Business/Enterprise/Ultimate (Service Pack 2)
- Windows XP Home Edition/Professional (Service Pack 3)

#### Macintosh

• Mac OS X (version 10.5.8, 10.6.8, 10.7.2)

Refer to the Nikon website for the latest information on operating system compatibility.

- 1 Start the computer and insert the ViewNX 2 Installer CD-ROM into the CD-ROM drive.
  - Mac OS: When the **ViewNX 2** window is displayed, double-click the **Welcome** icon.

## 2 Select a language in the language selection dialog to open the installation window.

- If the desired language is not available, click Region Selection to choose a different region and then choose the desired language (the Region Selection button is not available in the European release).
- Click **Next** to display the installation window.



#### 3 Start the installer.

- We recommend clicking Installation Guide in the installation window to check the installation help information and system requirements before installing ViewNX 2.
- Click **Typical Installation (Recommended)** in the installation window.

#### **4** Download the software.

- When the Software Download screen is displayed, click I agree Begin download.
- Follow the on-screen instructions to install the software.

### **5** Exit the installer when the installation completion screen is displayed.

- Windows: Click Yes.
- Mac OS: Click OK

The following software is installed:

- ViewNX 2 (consisting of the three modules below)
  - Nikon Transfer 2: For transferring images to the computer
  - ViewNX 2: For viewing, editing, and printing transferred images
  - Nikon Movie Editor: For basic editing of transferred movies
- Panorama Maker 6 (for creating a single panorama photo using a series of images shot in panorama assist scene mode)
- QuickTime (Windows only)
- 6 Remove the ViewNX 2 Installer CD-ROM from the CD-ROM drive.

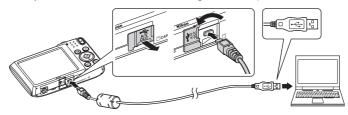
### Transferring Images to the Computer

#### Choose how images will be copied to the computer.

Choose one of the following methods:

• **Direct USB connection**: Turn the camera off and ensure that the memory card is inserted in the camera. Connect the camera to the computer using the supplied USB Cable UC-E6. The camera automatically turns on.

To transfer images that are saved in the camera's internal memory, remove the memory card from the camera before connecting it to the computer.



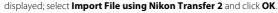
- **SD card slot**: If your computer is equipped with an SD card slot, the card can be inserted directly in the slot.
- **SD card reader**: Connect a card reader (available separately from third-party suppliers) to the computer and insert the memory card.

If a message is displayed prompting you to choose a program, select Nikon Transfer 2.

When using Windows 7

If the dialog shown at right is displayed, follow the steps helow to select Nikon Transfer 2

1 Under Import pictures and videos, click Change program. A program selection dialog will be



2 Double-click Import File.

If the memory card contains a large number of images, it may take a while for Nikon Transfer 2 to start Wait until Nikon Transfer 2 starts



#### Connecting the USB Cable

### **2** Transfer images to the computer.

- Confirm that the name of the connected camera or removable disk is displayed as the "Source" on the "Options" title bar of Nikon Transfer 2 ((1)).
- Click Start Transfer ((2)).



 At default settings, all the images on the memory card will be copied to the computer.

### **3** Terminate the connection.

 If the camera is connected to the computer, turn the camera off and disconnect the USB cable. If you are using a card reader or card slot, choose the appropriate option in the computer operating system to eject the removable disk corresponding to the memory card and then remove the card from the card reader or card slot.

### **Viewing Images**

#### Start ViewNX 2.

- Images are displayed in ViewNX 2 when transfer is complete.
- Consult online help for more information on using ViewNX 2.



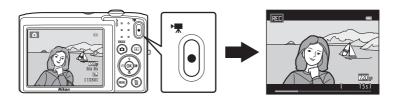
### Starting ViewNX 2 Manually

- Windows: Double-click the ViewNX 2 shortcut on the desktop.
- Mac OS: Click the ViewNX 2 icon in the Dock.

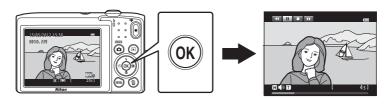


# Recording and Playing Back Movies

You can record movies by simply pressing the ● (\*\ movie-record) button.



In playback mode, press the  ${\color{orange} \textcircled{8}}$  button to play a movie.



### **Recording Movies**

You can record movies by simply pressing the  $\bigcirc$  ( $^{}$  $\overline{\phantom{a}}$  $\overline{\phantom{a}}$ movie-record) button. Hue, white balance, and other settings are the same when recording movies as they are when taking still images.

# 1 Turn on the camera and be sure that it is in shooting mode.

- The icon for the selected movie option is displayed. The default setting is 20 HD 720p (1280×720) (2277).
- \* Maximum movie length shown in the illustrations may differ from the actual display.

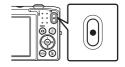
### Movie options



Maximum movie length\*

# 2 Press the ● ( T movie-record) button to start movie recording.

- The camera focuses at the center of the frame. Focus areas are not displayed during recording.
- When 720p HD 720p (1280x720) is selected for Movie options, monitor display changes to an aspect ratio of 16:9 with movie recording (the area indicated on the right is recorded).
- When the Photo info option in Monitor settings
  ( \$\sum\_{82}\$) in the setup menu is set to Movie frame+auto
  info, a frame indicating the area captured in the
  recorded movie can be displayed before recording
  starts.





- The approximate remaining movie recording time is displayed during recording. is displayed when saving movies to the camera's internal memory.
- Recording stops automatically when the maximum movie recording time has elapsed.
- 3 Press the (\* movie-record) button again to end recording.

### **▼** Note on Recording Images and Saving Movies

The indicator showing the number of exposures remaining or the indicator showing the maximum movie length flashes while images are being recorded or while a movie is being saved. **Do not open the battery-chamber/memory card slot cover or remove the battery or memory card** while an indicator is flashing. Doing this could result in loss of data, or in damage to the camera or the memory card.

### Recording Movies

- Memory cards with an SD Speed Class rating of 6 or faster are recommended when recording
  movies (Q19). Movie recording may stop unexpectedly when memory cards with a lower Speed
  Class ratings are used.
- When Electronic VR (□83) is set to Auto in the setup menu, the angle of view (the area
  captured in the recorded movie) is smaller than when taking still images.
- · Optical zoom cannot be adjusted once movie recording begins.
- Rotate the zoom control during recording to enable digital zoom. Subjects can be magnified up to 4x the optical zoom ratio applied before movie recording began.
- There is some degradation in image quality when digital zoom is used. When recording ends, digital zoom turns off.
- In some cases, movie recordings may capture the sounds of the camera, such as the sounds
  produced by the zoom control operation, the movement of the lens during autofocus, or the
  aperture control when the brightness changes.
- Smear ( 3) visible in the monitor with movie recording will be recorded with movies. Avoiding
  bright objects such as the sun, reflections of the sun, and electric lights when recording movies is
  recommended.
- When recording or playing back movies, colored stripes (interference patterns or moiré) may
  appear on subjects that have a regular, repeating grid, such as pattern of weave in cloths or
  windows in a building, depending on the shooting distance or zoom ratio. This phenomenon
  occurs when the subject's pattern interferes with the camera sensor grid, and it does not indicate
  a malfunction.

### Note About Autofocus for Movie Recording

When shooting a subject that is not suitable for autofocus ( $\square 29$ ), the camera may not be able to focus properly on the subject. Follow the procedure below if you are trying to shoot this type of subject for movies.

- Set Autofocus mode in the movie menu to AF-S Single AF (default setting) before starting movie recording.

REC

**AD30** 

### Note About Camera Temperature

- The camera temperature may increase significantly when used for an extended period of time for movie recording, etc. or when used in places with high ambient temperature.
- If the camera becomes extremely hot while recording a movie, the camera automatically terminates recording after 30 seconds. The camera monitor displays the number of seconds (\$\alpha\$30s) remaining until automatic termination is activated.
   Five seconds after movie recording is terminated, the camera

turns off. Wait until the internal temperature decreases before using it again.

#### Movie Options and Maximum Recording Time

Movie options (◯◯777)	Internal memory (approx. 39 MB)	Memory card (4 GB) <sup>2</sup>
720p HD 720p (1280×720)	_1	15 min
<u>VGA</u> VGA (640×480)	25 s	45 min
QVGA QVGA (320×240)	1 min 32 s	2 h 45 min

All figures are approximate. The maximum recording time may vary depending on the make of memory card.

- **TZOP HD 720p (1280×720)** cannot be selected when saving movies to the camera's internal memory.
- <sup>2</sup> The maximum file size for a single movie is 2 GB or the maximum recording time for a single movie is 29 minutes, even when there is sufficient free space on the memory card for longer recording. The maximum recording time that can be recorded for a single movie is displayed during recording.

### Functions Available with Movie Recording

- The exposure compensation, white balance, and color options settings for the current shooting mode are also applied with movie recording. When macro mode is enabled, movies of subjects closer to the camera can be recorded. Confirm settings before starting movie recording.
- The self-timer (□52) can be used. When the (★ movie-record) button is pressed after the self-timer is enabled, the camera starts movie recording after the specified two or ten seconds.
- . The flash will not fire.
- When **Electronic VR** (\$\sum\_83\$) in the setup menu is set to **Auto**, electronic vibration reduction is enabled and camera shake is reduced.
- Press the MENU button to select the 🐺 (movie) tab and adjust movie menu settings before starting movie recording ( $\square$ 77).

### **Changing Movie Recording Settings (The Movie Menu)**

On the shooting screen  $\rightarrow$  MENU button  $\rightarrow$   $\P$  tab ( $\square$ 10)

The following options can be adjusted.



Item	Description	ш
Movie options	The following movie types are available:  720 HD 720p (1280×720), VOA (640×480), and  WOA QVGA (320×240).  Movies with an aspect ratio of 16:9 can be recorded by selecting 20 HD 720p (1280×720).	<b>∂−6</b> 47
Autofocus mode	Select between AF-S Single AF (default setting), which locks focus when movie recording starts, and AF-F Full-time AF which focuses continuously during movie recording. When AF-F Full-time AF is selected, the sound of the camera focusing may be heard in the recorded movie. If you want to prevent the sound of the camera focusing from being recorded, select AF-S Single AF.	<b>6-6</b> 48
Wind noise reduction	Set <b>On</b> or <b>Off</b> (default setting) to select whether wind noise is reduced when recording movies.	<b>∂=</b> 048

### **Movie Playback**

- **1** Press the **▶** (playback) button to enter playback mode.
  - Press the multi selector to choose the desired movie.
  - Movies are indicated by the movie options icon (□76).

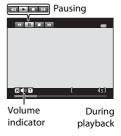


### **2** Press the **®** button.

• The movie is played back.

### **Operation during Movie Playback**

Playback controls are displayed at the top of the monitor. Press the multi selector ◀ or ▶ to choose a control. The operations described below are available.



То	Use	Description
Rewind	44	Hold down the 🕦 button to rewind movie.
Advance	<b>&gt;</b>	Hold down the 🚳 button to advance movie.
Pause	Press the  button to pause playback. The following operations can be performed while playback is paused using the controls displayed at top in the monitor.  Press the  button to rewind the movie one frame. Hold down the  button for continuous frame-by-frame	
	rewinding.  Press the ® button to advance the movie one frame. Hold down the ® button for continuous frame- by- frame advancing.	
		Press the 🔀 button to resume playback.
End		Press the 🔞 button to return to full-frame playback mode.

### **Adjusting the Volume**

Rotate the zoom control to  $\mathbf{T}$  or  $\mathbf{W}$  ( $\square$ 5) during movie playback.

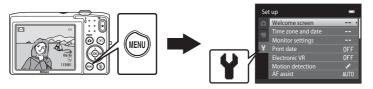
### **Deleting a Movie File**

To delete a movie, select the desired movie in full-frame playback mode ( $\square$ 30) or thumbnail playback mode ( $\square$ 31) and press the  $\mathbf{m}$  button ( $\square$ 32).




## **General Camera Setup**

This chapter describes the various settings that can be adjusted in the  $\P$  setup menu.



- See "Using Menus (the **MENU** Button)" ( $\square$ 10) for information about using the camera's menus.
- See "The Setup Menu" (��49) in Reference Section for more information.

### **The Setup Menu**

Press the MENU button → 🕯 (setup) tab (□10)

The following settings can be changed in the setup menu by selecting the  $\P$  tab.



Option	Description	TI I
Welcome screen	Allows you to select the image displayed as the welcome screen when the camera is turned on. Select <b>COOLPIX</b> to display the COOLPIX logo. Select <b>Select an image</b> to use an image captured with the camera as the welcome screen.	<b>6−0</b> 49
Time zone and date	Allows you to set settings related to the camera's date and time. The <b>Time zone</b> setting allows you to specify the time zone where the camera is mainly used and whether or not daylight saving time is in effect. When the travel destination (**) is selected, the camera automatically calculates the time difference between the travel destination and the home time zone (**a*), and saves images using the date and time of the travel destination.	<b>6</b> €50
Monitor settings	Allows you to select the kind of information that is displayed during shooting mode and playback mode. If you select <b>Framing grid+auto info</b> , a grid is displayed when shooting to help you frame the shot. The default setting is <b>Auto info</b> .  You can also change the image review setting or the monitor brightness.	<b>6</b> 53
Print date	Allows you to imprint the shooting date and time on images at the time of shooting. The default setting is <b>Off</b> .  • The date cannot be imprinted in the following situations:  - When using <b>Panorama assist</b> scene mode  - When recording movies	<b>6-6</b> 55

Option	Description	ш
Electronic VR	Allows you to reduce blurring caused by camera shake when shooting. The default setting is <b>Off</b> .	<b>≈</b> 56
Motion detection	When the camera detects camera shake or subject movement at the time of shooting, it automatically increases ISO sensitivity and shutter speed to reduce blurring. The shift indicator glows green when the camera detects camera shake and increases shutter speed. The default setting is <b>Auto</b> .  • When using certain shooting modes or settings, motion is not detected. In this case the shift indicator is not displayed.	<b>6</b> €57
AF assist	When set to <b>Auto</b> , the AF-assist illuminator ( 2) lights up when shooting in dark surroundings to help the camera focus. The default setting is <b>Auto</b> .  • The illuminator has a range of about 1.9 m (6 ft 2 in.) at the maximum wide-angle position and about 1.1 m (3 ft 7 in.) at the maximum telephoto position.  • Even if <b>Auto</b> is selected, the AF-assist illuminator may not light depending on the position of the focus area or the scene mode that is selected.	<b>6</b> 58
Digital zoom	When set to <b>On</b> , rotating the zoom control to <b>T</b> ( <b>Q</b> ) at the maximum optical zoom position triggers digital zoom feature (□27).  The default setting is <b>On</b> .	<b>∂=</b> 058
Sound settings	Allows you to turn various camera sounds on and off. The <b>Button sound</b> and <b>Shutter sound</b> settings are <b>On</b> by default.  • When using certain shooting modes or settings, the operation sound is disabled.	<b>≈</b> 59
Auto off	Allows you to set the amount of time that passes before the monitor turns off to save power. The default setting is <b>1 min</b> .	<b>∂=</b> 059

Option	Description	Ф
Format memory/ Format card	Allows you to format the internal memory (only when a memory card is not inserted) or the memory card (when a memory card is inserted).  • All data stored in the internal memory or on the memory card is deleted during formatting and cannot be restored. Be sure to transfer important images to a computer and save them before formatting.	<b>≈</b> 60
Language	Choose the language used for camera monitor display.	<b>∂=</b> 061
Video mode	Adjust video mode settings for connection to a television. Select from <b>NTSC</b> and <b>PAL</b> .	<b>∂−6</b> 61
Charge by computer	When set to <b>Auto</b> (default setting), you can charge the camera's battery by connecting the camera to a computer (provided that the computer is able to supply power).  • When charging by computer, it takes more time to charge the battery than when using the Charging AC Adapter EH-69P. Additionally, when charging by computer and transferring images to the computer, it takes more time to charge the battery.	<b>6</b> €62
Blink warning	Immediately after taking a picture using face detection (☐61) (except when using smart portrait mode), if the camera detects a subject with closed eyes, the camera displays the message <b>Did someone blink?</b> , allowing you to check the image. The default setting is <b>Off</b> .	<b>≈</b> 64
Reset all	Allows you to reset the camera's settings to their default values. Certain settings such as <b>Time zone and date</b> and <b>Language</b> are not reset.	<b>66</b> 66
Firmware version	View the current camera firmware version.	<b>6</b> 68



## **Reference Section**

The Reference Section provides detailed information and hints for using the camera.

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### **Using Panorama Assist**

Use a tripod for the best results.

On the shooting screen  $\rightarrow \bigcirc$  (shooting mode) button  $\rightarrow \bigcirc$  (second icon from the top\*)  $\rightarrow \triangleright \rightarrow \bigcirc$  Panorama assist

- \* The icon for the last scene mode selected is displayed. The default setting is **(Scene auto selector)**.
- 1 Use the multi selector to choose the direction in which images will be joined and press the button.
  - Panorama direction icons are displayed.
     Select the direction in which images will be joined in the completed panorama; right (♠), left (♠), up (♠) or down (♥).



- The yellow panorama direction icon ( ) ( ) is displayed for the current direction and the direction is fixed when is pressed. The icon changes to the white fixed direction icon.
- If necessary, apply flash mode (□50), self-timer (□52), macro mode (□53) and exposure compensation (□54) settings with this step.
- Press the 🔞 button again to choose a different direction.
- **2** Frame the first portion of the panorama scene and take the first picture.
  - The camera focuses on the subject at the center of the frame.
  - One third of the image will be displayed as translucent.





### **3** Take the next picture.

- Frame the next picture so that one third of the frame overlaps the first image, and press the shutter-release button.
- Repeat this process until the necessary number of picture has been taken to complete the scene.





• The camera returns to step 1.



#### Notes About Panorama Assist

- Flash mode, self-timer, macro mode and exposure compensation settings cannot be adjusted
  after the first picture is taken. Images cannot be deleted, nor can zoom or **Image mode** setting
  (□57) be adjusted after the first picture has been taken.
- Shooting for the panorama series is terminated if the auto off function (��59) initiates standby mode during shooting. Setting the time allowed to elapse before the auto off function is enabled to a longer setting is recommended.

### 

In **Panorama assist** scene mode, exposure, white balance, and focus for all images in a panorama are fixed at the values for the first image in each series.

When the first picture is taken, AE/AF-L is displayed to indicate that exposure, white balance, and focus are locked.



#### Panorama Creation with Panorama Maker 6

- Transfer images to a computer (\$\sum 71\$) and use Panorama Maker 6 to join them in a single panorama.
- Panorama Maker 6 can be installed on a computer using the included ViewNX 2 Installer CD (□69).
- After installation is complete, follow the procedure described below to start Panorama Maker 6.
   Windows: Choose Start menu>All Programs>ArcSoft Panorama Maker 6>Panorama Maker 6.
  - Mac OS X: Open **Applications** and double-click the **Panorama Maker 6** icon.
- For more information on using Panorama Maker 6, refer to the on-screen instructions and help information contained in Panorama Maker 6.

### **More Information**

See "Image/Sound File and Folder Names" (669) for more information.

#### **Favorite Pictures Mode**

You can sort your favorite pictures into nine albums (this option is not available for movies). Once they are added, you can choose to play back only favorite pictures by selecting favorite pictures mode.

- Categorizing albums by theme or type of subject makes it easier to find a particular picture.
- A single picture can be added to multiple albums.
- Up to 200 pictures can be added to each album.

### **Adding Images to Albums**

- 1 Select a favorite image in full-frame playback mode or in thumbnail playback mode and press the ® button.
  - In favorite pictures mode, images cannot be added to albums.



**2** Press the multi selector to choose a desired album and press the (K) button.



### Viewing Images in an Album

Press the ▶ button (playback mode) → ▶ button → ★ Favorite pictures

Use the multi-selector to select an album and then press the **®** button to play back images in the selected album

- The following operations are available from the album selection screen.
  - MENU button: Changes the albums icon (their colors and shapes) (6-66).
  - m button: Deletes all images in the selected album.
- When viewing images in full-frame playback mode or thumbnail playback mode, press the MENU button to select a feature from the favorite pictures menu  $(\Box \Box 67).$

### **Removing Images from Albums**

Press the **(N)** button in full-frame playback mode in favorite pictures mode to remove the image. A confirmation dialog is displayed.

Choose **Yes** and press the **(N)** button to remove the image from the album.



#### Note About Deleting Images in Favorite Pictures Mode

When images are added to albums, they are not physically copied to albums or moved from the folder to which they were originally recorded. Only the file names of images are added to albums. In favorite pictures mode, the images corresponding to the file names in the specified album are played back.

Deleting an image in favorite pictures mode deletes not only the image from the album, but also deletes the image file from the internal memory or memory card permanently.



### **Changing Icons Assigned to Albums**

From the album selection screen ( $\square$ 66,  $\Longrightarrow$ 5), select an album and press the MENU button to change the album's icon.

• Select a color, press the **®** button, and select an icon and press the **®** button to change the icon.



### Notes About Icons for Albums

- Choose icons for albums separately for the internal memory and for every memory card used.
- To change the icon for an album containing images stored in the internal memory, remove the memory card from the camera.
- The default setting for icons are black numbers.



#### **Auto Sort Mode**

Images are automatically sorted in to categories, such as portraits, landscapes, and movies.

Press the ▶ button (playback mode) → ▶ button → • Auto sort mode

Select a category with the multi selector, and press the w button to play back images in the selected category.

- The following operation is available while the category selection screen is displayed.
  - **t** button: Deletes all images in the selected category.



When viewing images in full-frame playback mode
or thumbnail playback mode, press the MENU button to select a feature from the
auto sort menu (2067).

#### **Auto Sort Mode Categories**

Category	Description	
<b>≅</b> Smile	Images captured in smart portrait mode (1146) with the smile timer setting set to <b>On</b> .	
Portraits	Images captured in ⚠ (auto) mode (□36) with the face detection (□61). Images captured in Portrait*, Night portrait*, Party/indoor, and Backlighting* scene mode (□39). Images captured in smart portrait mode (□46) with the smile timer setting set to Off.	
TI Food	Images captured in <b>Food</b> scene mode (CC)39).	
Landscape	Images captured in <b>Landscape</b> * scene mode ( $\square$ 39).	
Dusk to dawn	Images captured in <b>Night landscape*</b> , <b>Sunset</b> , <b>Dusk/dawn</b> and <b>Fireworks show</b> scene modes ( $\square$ 39).	
Close-ups	Images captured in ▲ (auto) mode with the macro mode setting (◯◯ 53). Images captured in <b>Close-up*</b> scene mode (◯◯ 39).	
🎀 Pet portrait	Images captured in <b>Pet portrait</b> scene mode (QQ39).	
<b>県</b> Movie	Movies (CC 74).	
☑ Retouched copies	Copies created using editing functions (🍑 10).	
Other scenes	All other images that cannot be defined by the categories described above.	

<sup>\*</sup> Images captured in scene auto selector scene mode ( $\square$ 40) are also sorted to the appropriate categories.

### Notes About Auto Sort Mode

- Up to 999 images and movie files can be sorted to each category in auto sort mode. If 999 images
  or movies have already been sorted to a specific category, new images and movies cannot be
  sorted to that category nor can they be displayed in auto sort mode. Display images and movies
  that could not be sorted to a category in normal playback mode (□30) or list by date mode
  (□30).
- Images or movies copied from the internal memory to a memory card, or vice versa (��46), cannot be displayed in auto sort mode.
- Images or movies recorded by a camera other than the COOLPIX S2600 cannot be displayed in auto sort mode.

## **List by Date Mode**

Press the ▶ button (playback mode) → ▶ button → ᠌ List by date

Select a date with the multi selector, and press the **®** button to play back images captured on the selected date

- The first image captured on the selected date is displayed.
- The following operations are available while the shooting date selection screen is displayed.
  - **MENU** button: You can select one of the following functions in the list by date menu ( $\square$ 67) and apply it to all images captured on the selected date.
    - → print order, slide show, protect
  - **t** button: Deletes all images captured on the selected date.
- When viewing images in full-frame playback mode or thumbnail playback mode, press the MENU button to select a feature from the list by date menu (□67).
- Calendar display (QQ31) is not available in list by date mode.

# Notes About List by Date Mode

- Up to 29 dates can be selected. If images exist for more than 29 dates, all images saved earlier than most recent 29 dates will be combined under **Others**.
- Up to 9,000 of the most recently recorded images can be displayed in list by date mode.
- Images captured when the camera's date is not set are treated as images captured on January 1, 2012.



# **Editing Images (Still Images)**

### **Editing Functions**

Use the COOLPIX S2600 to edit images in-camera and store them as separate files (♣69). The editing functions described below are available.

Editing function	Description
Quick retouch (♣612)	Easily create retouched copies in which contrast and saturation have been enhanced.
D-Lighting (🏍 12)	Create a copy of the current image with enhanced brightness and contrast, brightening dark portions of the image.
Glamour retouch (♣13)	Make facial skin tone softer and make faces look smaller with larger eyes.
Filter effects (  14)	Apply a variety of effects using digital filter. The available effects are <b>Soft</b> , <b>Selective color</b> , <b>Cross screen</b> , <b>Fisheye</b> , and <b>Miniature effect</b> .
Small picture (♣ 15)	Create a small copy of images suitable for use as e-mail attachments.
Crop ( <b>6–6</b> 16)	Enlarge the image or refine the composition and create a copy containing only the portion visible in the monitor.

# Notes About Image Editing

- The COOLPIX S2600 editing functions are not available for images captured with another make or model of digital cameras.
- If no face is detected in an image, a copy cannot be created using the glamour retouch option (♣13).
- Edited copies created with COOLPIX S2600 may not be displayed properly on another make or model of digital camera. It may also be impossible to transfer them to a computer using another make or model of digital camera.
- Editing functions are not available when there is not enough free space in the internal memory or on the memory card to store the edited copies.

#### Restrictions on Image Editing

When an edited copy is further modified with another editing function, check the following restrictions.

Editing function used	Editing function to use
Quick retouch D-Lighting Filter effects	The glamour retouch, small picture or crop functions can be used. The quick retouch, D-Lighting, and filter effects functions cannot be used together.
Glamour retouch	An editing function other than glamour retouch can be used.
Small picture Crop	Another editing function cannot be used.

- Copies created with an editing function cannot be further edited with the same function used to create them.
- When combining the small picture or crop function and another editing function, use the small picture or crop function after other editing function has been applied.
- Retouch effects such as the glamour retouch function's skin softening effect can be applied to images captured with the skin softening function (\$\infty\$34).

#### Original and Edited Images

- Copies created with editing functions are not deleted when the original images are deleted, and the original images are not deleted when copies created with editing functions are deleted.
- Edited copies are stored with the same recording date and time as the original.
- Print order (♣36) and protect settings (♣41) of the original image are not applied to edited copies.

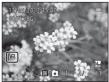
### **⚠** Quick Retouch: Enhancing Contrast and Saturation

Press the ▶ button (playback mode) → select an image → MENU button → Ouick retouch

#### Press the multi selector ▲ or ▼ to choose the degree of enhancement performed and press the (R) button.

- The original version is displayed on the left and the edited version is displayed on the right.
- To exit without saving the copy, press the **MENU** button.
- Copies created with the quick retouch option can be recognized by the **B** icon displayed during playback.





## D-Lighting: Enhancing Brightness and Contrast

Press the ▶ button (playback mode) → select an image → MENU button → D-Lighting

## Press the multi selector ▲ or ▼ to choose **OK** and press the (%) button.

- The original version is displayed on the left and the edited version is displayed on the right.
- D-lighting copies can be recognized by the 🖣 icon displayed during playback.







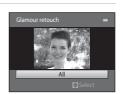
#### More Information

# Glamour Retouch: Softening Skin and Making Faces Looking Smaller with Larger Eyes

Press the ▶ button (playback mode) → select an image → MENU button → 

Glamour retouch

- Press the multi selector ▲ or ▼ to choose All or Skin softening and press the 🚯 button.
  - All: Soften facial skin tones, make faces look smaller, and make eyes look larger.
  - Skin softening: Soften facial skin tones
  - The preview screen is displayed.
  - To exit the **Glamour retouch** setting screen without saving any changes, press ◀.



#### **2** Preview the result of the effects.

- Skin tones in up to 12 faces, in the order of that closest to the center of the frame, are softened.
- To change the degree of effect, press the MENU button and return to step 1.
- When the button is pressed, a new, edited copy is created.
- Copies created with the glamour retouch option can be recognized by the picon displayed in playback mode.





#### Notes About Glamour Retouch

- The glamour retouch function may not perform as expected depending on the direction in which the faces are looking or the brightness of the faces in the image.
- If no faces are detected in the image, a warning is displayed and the screen returns to the playback menu.

#### **More Information**

See "Image/Sound File and Folder Names" (669) for more information.

# **3** Filter Effects: Applying Digital Filter Effects

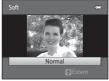
Press the ightharpoonup button (playback mode) ightharpoonup select an image ightharpoonup button ightharpoonup Filter effects

Type	Description
Soft	Give the image a soft look by blurring from the center outward. In images captured with face detection (Ш61) or pet detection (Ш45) selected, areas around faces will be blurred.
Selective color	Keep one specified color in the image, and change the other colors to black and white.
Cross screen	Produce star-like rays of light that radiate outward from bright objects such as sunlight reflections and city lights. This effect is suitable for night scenes.
Fisheye	Make an image look as if it were captured with a fisheye lens. This effect is well-suited for images captured in macro mode.
Miniature effect	Make an image look like a miniature scene captured in macro mode. This effect is well-suited for images captured from a high vantage point with the main subject at the center of the image.

- Press the multi selector ▲ or ▼ to select the type of the effects and press the ® button.
  - When Cross screen, Fisheye, or Miniature effect is selected, proceed to step 3.



- **2** Adjust the effect and press the ® button.
  - When using **Soft**: Press ▲ or ▼ to select the size of the area to soften.
  - When using **Selective color**: Press ▲ or ▼ to select the color to keep.



Example: **Soft** 

# **3** Check the results, and press the ® button.

- A new, edited copy is created.
- To exit without saving the copy, press the **MENU** button.
- Copies created with the filter effects option can be recognized by the (§) icon displayed in playback mode.





# **™** Small Picture: Reducing Image Size

Press the ▶ button (playback mode) → select an image → MENU button → Small picture

- 1 Press the multi selector ▲ or ▼ to choose the desired copy size and press the ® button.
  - The 640×480, 320×240, and 160×120 sizes are available



- **2** Choose **Yes** and press the **®** button.
  - A new, smaller copy is created (compression ratio of approximately 1:16).
  - The copy is displayed with a black frame.





See "Image/Sound File and Folder Names" (669) for more information.

# 

Create a copy containing only the portion visible in the monitor when  $\mathbb{M}$  is displayed with playback zoom ( $\mathbb{M}$ 31) enabled. Cropped copies are stored as separate files.

- **1** Enlarge the image for cropping ( $\square$ 31).
- **2** Refine copy composition.
  - Rotate the zoom control to T (Q) or W (■) to adjust the zoom ratio.
  - Press the multi selector ▲, ▼, ◄, or ► to scroll the image until only the portion you want to copy is visible in the monitor.



**3** Press the MENU button.



- **4** Use the multi selector to choose **Yes** and press the **®** button.
  - A cropped copy is created.



# Image Size

As the area to be saved is reduced, the image size (pixels) of the cropped copy is also reduced. When the size of the cropped copy is  $320 \times 240$  or  $160 \times 120$ , a black frame is displayed around the image during playback, and the small picture icon  $\blacksquare$  is displayed at the left of the monitor.

# Cropping the Picture in its Current "Tall" Orientation

Use the **Rotate image** option (��043) to rotate the image so that it is displayed in landscape orientation. After cropping the image, rotate the cropped image back to "tall" orientation. The image displayed in "tall" orientation can be cropped by zooming in on the image until the black bars displayed on the both sides of the monitor disappear. The cropped image is displayed in landscape orientation

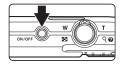
#### More Information

See "Image/Sound File and Folder Names" (��69) for more information.

# Connecting the Camera to a TV (Playback on a TV)

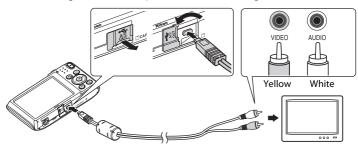
Connect the camera to a television using the included audio/video cable to play back images on a television.

#### 1 Turn off the camera.



#### **2** Connect the camera to the TV.

- Connect the yellow plug to the video-in jack and the white plug to the audio-in jack on the TV.
- When connecting the audio/video cable, be sure that the camera connector is properly oriented. Do not use force when connecting the cable to the camera. When disconnecting the cable, do not pull the connector at an angle.

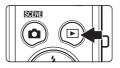


#### **3** Tune the television to the video channel.

• See the documentation provided with your television for details.

# **4** Hold down the ▶ button to turn on the camera.

- The camera enters playback mode and images are displayed on the television.
- While connected to the TV, the camera monitor will remain off

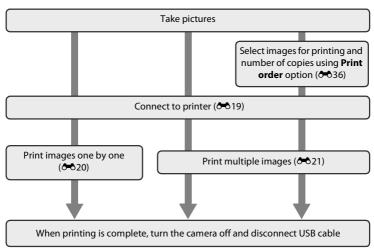


#### Video Mode

Be sure that the camera's video mode setting conforms to the standard used by your television. Specify the **Video mode** option ( $\circlearrowleft$ 61) in the setup menu ( $\circlearrowleft$ 82).

# **Connecting the Camera to a Printer (Direct Print)**

Users of PictBridge-compatible ( 318) printers can connect the camera directly to the printer and print images without using a computer. Follow the procedures below to print images.



#### Notes About Power Source

- When connecting the camera to a printer, use a fully charged battery to prevent the camera from turning off unexpectedly.
- If the AC Adapter EH-62G (available separately) is used, COOLPIX S2600 can be powered from a home electrical outlet. Do not use any other make or model of AC adapter as they may cause the camera to heat up or malfunction.

# Printing Images

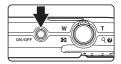
In addition to printing images transferred to a computer and printing over a direct camera-to printer connection, the following options are also available for printing images:

- Inserting a memory card into a DPOF-compatible printer's card slot
- · Taking a memory card to a digital photo lab

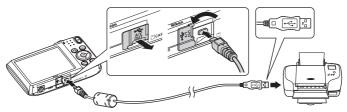
For printing using these methods, specify the images and the number of prints each to the memory card using the **Print order** option in the playback menu (♣36).

#### **Connecting the Camera to a Printer**

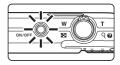
Turn off the camera.



- **2** Turn on the printer.
  - · Check printer settings.
- **3** Connect the camera to the printer using the included USB cable.
  - Be sure that connectors are properly oriented. Do not attempt to insert connectors at an angle, and do not use force when connecting or disconnecting the USB cable.



- **4** The camera is automatically turned on.
  - When properly connected, the **PictBridge** startup screen (1) will be displayed in the camera monitor, followed by the **Print selection** screen ((2)).



(1)







# If the PictBridge Screen is not Displayed

Turn off the camera and disconnect the USB cable. Set **Charge by computer** (\$\sigma 62\$) in the camera's setup menu to Off, then connect the camera again.

#### **Printing Images One by One**

After properly connecting the camera to the printer (��19), follow the procedure described below to print an image.

- 1 Use the multi selector to choose the desired image and press the ® button.
  - Rotate the zoom control to W (►) to switch to 12thumbnail display, and to T (Q) to switch back to full-frame playback.



**2** Choose **Copies** and press the **®** button.



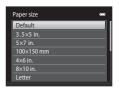
3 Choose the number of copies (up to nine) and press the ® button.



**4** Choose **Paper size** and press the **®** button.



- - To specify paper size using printer settings, choose Default in the paper size menu.



6 Choose **Start print** and press the **®** button.



- **7** Printing begins.
  - Monitor display returns to the print selection screen shown in step 1 when printing is complete.
  - To cancel printing before all copies have been printed, press the button.



Current number of copies/total number of copies

#### **Printing Multiple Images**

After properly connecting the camera to the printer (��19), follow the procedure described below to print multiple images.

When the Print selection screen is displayed, press the MENU button.



- 2 Use the multi selector to choose **Paper size** and press the ® button.
  - To exit the print menu, press the **MENU** button.



- 3 Choose the desired paper size and press the ® button.
  - To specify paper size using printer settings, choose Default in the paper size menu.



4 Choose Print selection, Print all images or DPOF printing and press the ® button.



Print selection

#### Print selection

Choose images (up to 99) and the number of copies (up to nine) of each.

- Press the multi selector 

  or 

  to select images, and press 

  or 

  to specify the number of copies for each.
- Image selected for printing can be recognized by the check mark (♥) and the numeral indicating the number of copies to be printed. If no copies have been specified for images, the selection is



- Press the ® button when setting is complete.
- When the menu shown at right is displayed, choose **Start print** and press the button to start printing. Choose **Cancel** and press the button to return to the print menu.



#### Print all images

One copy each of all images stored in the internal memory, or on the memory card, is printed.

 When the menu shown at right is displayed, choose **Start print** and press the ® button to start printing. Choose **Cancel** and press the ® button to return to the print menu.



#### DPOF printing

Print images for which a print order was created using the **Print order** option (��36).

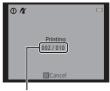
- When the menu shown at right is displayed, choose **Start print** and press the ® button to start printing. Choose **Cancel** and press the ® button to return to the print menu.
- To view the current print order, choose View images and press the button. To print images, press the button again.





# **5** Printing begins.

- The monitor display returns to the print menu shown in step 2 when printing is complete.
- To cancel printing before all copies have been printed, press the button.



Current number of copies/total number of copies

### Paper Size

The camera supports the following paper sizes: **Default** (the default paper size for the current printer), **3.5×5 in.**, **5×7 in.**, **100×150 mm**, **4×6 in.**, **8×10 in.**, **Letter**, **A3**, and **A4**. Only sizes supported by the current printer will be displayed. To specify paper size using printer settings, choose **Default** in the paper size menu.

# The Shooting Menu (for 🗖 (Auto) Mode)

See "Changing the Image Size (Image Mode)" (\$\sum\_57\$) for information about Image mode.

### White Balance (Adjusting Hue)

On the **△** (auto) mode shooting screen → MENU button → White balance

The color of light reflected from an object varies with the color of the light source. The human brain is able to adapt to changes in the color of the light source, with the result that white objects appear white whether seen in the shade, direct sunlight, or under incandescent lighting. Digital cameras can mimic this adjustment by processing images according to the color of the light source. This is known as "white balance." For natural colors, choose a white balance setting that matches the light source before shooting. Although the default setting, **Auto**, can be used under most types of lighting, the white balance setting suited to a particular light source can be specified manually to achieve more accurate results.

Option	Description
AUTO Auto (default setting)	White balance automatically adjusted to suit lighting conditions. Best choice in most situations.
PRE Preset manual	Neutral-colored object used as reference to set white balance under unusual lighting conditions. See "Preset Manual" for more information (��25).
<b>※</b> Daylight	White balance adjusted for direct sunlight.
<b>₩</b> Incandescent	Use under incandescent lighting.
<b>∺</b> Fluorescent	Use under fluorescent lighting.
<b>C</b> loudy	Use when taking pictures under overcast skies.
多 Flash	Use with the flash.

The icon for the current setting is displayed in the monitor ( $\square$ 6). However, when **Auto** is selected, no icon is displayed.

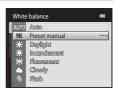
#### Notes About White Balance

- There are functions with which this setting cannot be enabled. See "Functions That Cannot Be Applied Simultaneously" (2059) for more information.
- At white-balance settings other than **Auto** or **Flash**, turn the flash off (**③**) (**□**50).

#### **Preset Manual**

The preset manual option is effective with mixed lighting or to compensate for light sources with a strong color cast when the desired effect has not been achieved with white balance settings like **Auto** and **Incandescent** (for example, to make pictures taken under a lamp with a red shade look as though they had been shot under white light). Follow the procedure below to measure the white balance value according to the light source when shooting.

- Place a white or gray reference object under the lighting that will be used during shooting.
- 2 Display shooting menu (210, 37), use the multi selector to choose PRE Preset manual in the White balance menu and press the button.
  - The camera zooms in to the position for measuring white balance.



- 3 Choose Measure.
  - To apply the most recently measured value for preset manual, choose Cancel and press the button.



**4** Frame the reference object in the measuring window.



Measuring window

- **5** Press the **6** button to measure a value for preset manual.
  - The shutter is released and the new white-balance value is set. No image is saved.

## Note About Preset Manual

A value for flash lighting cannot be measured with **Preset manual**. When shooting using the flash, set **White balance** to **Auto** or **Flash**.

#### **Continuous**

Enable continuous shooting or **BSS** (best shot selector).

Option	Description
Single (default setting)	One picture is taken each time the shutter-release button is pressed.
☐ Continuous	While the shutter-release button is held down, up to 8 pictures are taken at a rate of about 0.9 frames per second (fps) when <b>Image mode</b> is set to <b>4320×3240</b> .
BSS BSS (best shot selector)	The "best shot selector" is recommended when shooting with the flash off or the camera zoomed in, or in other situations in which inadvertent motion can result in blurred images. When BSS is on, the camera takes up to ten pictures while the shutter-release button is held down. The sharpest image in the series is automatically selected and saved.
■ Multi-shot 16	Each time the shutter-release button is pressed, camera takes 16 shots at a rate of about 30 fps and arranges them in a single image.  • Image mode is fixed at  (2560 × 1920).  • Digital zoom is not available.

At settings other than **Single**, the indicator for the current setting is displayed in the monitor ( $\square$ 6).

### Notes About Continuous Shooting

- When **Continuous**, **BSS**, or **Multi-shot 16** is selected, flash is disabled. Focus, exposure, and white balance are fixed at the values determined with the first image in each series.
- The frame rate with continuous shooting may vary depending upon the current image mode setting, the memory card used, or shooting condition.
- There are functions with which this setting cannot be enabled. See "Functions That Cannot Be Applied Simultaneously" (\sumset 59) for more information.

#### Note About BSS

**BSS** may not produce the desired results if the subject moves or the composition changes while the shutter-release button is held down.

#### Note About Multi-shot 16

Smear ((3)3) visible in the monitor when shooting with **Multi-shot 16** enabled will be recorded with images. Avoiding bright objects such as the sun, reflections of the sun, and electric lights when shooting with **Multi-shot 16** enabled is recommended.

#### **ISO Sensitivity**

On the **△** (auto) mode shooting screen → MENU button → ISO sensitivity

The higher the sensitivity, the less light is needed to expose an image, allowing capturing darker subjects. Additionally, even with subjects of similar brightness, pictures can be taken at faster shutter speeds, and blurring caused by camera shake and subject movement can be reduced.

 Although higher ISO sensitivity is effective when shooting darker subjects, shooting without the flash, shooting while using the zoom, etc., images may contain noise.

Option	Description
Auto (default setting)	Sensitivity is ISO 80 when there is sufficient lighting; the camera compensates by raising sensitivity to a maximum of ISO 1600 when lighting is dim.
Fixed range auto	Choose the range in which the camera automatically adjusts ISO sensitivity, from <b>ISO 80-400</b> (default setting) or <b>ISO 80-800</b> . The camera will not increase sensitivity beyond the maximum value in the selected range. Specify the maximum ISO sensitivity for effective control over the amount of "grain" that appears in images.
80, 100, 200, 400, 800, 1600, 3200	Sensitivity is locked at the specified value.

The current ISO sensitivity setting is indicated by an icon when shooting ( $\square$ 6).

- If **Auto** is selected and the sensitivity is raised above ISO 80, the **SO** icon will be displayed ( $\square$ 6).
- When Fixed range auto is selected, and the maximum value of ISO sensitivity is displayed.

#### Notes About ISO sensitivity

- There are functions with which this setting cannot be enabled. See "Functions That Cannot Be Applied Simultaneously" (
  \$\square\$59 for more information.
- Motion detection (��57) does not function when the ISO sensitivity is set to any setting other than **Auto**.

#### ISO 3200

When ISO sensitivity is set to 3200, the available Image mode settings are limited to 2 1600×1200 and 1 640×480. ■ is displayed next to the ISO sensitivity indicator in the bottom left of the monitor



#### **Color Options**

On the **△** (auto) mode shooting screen → MENU button → Color options

Make colors more vivid or save images in monochrome.

Option	Description
	Use for images exhibiting natural color.
<b>ଐ</b> Vivid color	Use to achieve a vivid, "photoprint" effect.
( Black-and-white	Save images in black-and-white.
<b>€</b> Sepia	Save images in sepia tones.
<b>ℰ</b> Cyanotype	Save images in cyan-blue monochrome.

At settings other than **Standard color**, the icon for the current setting is displayed in the monitor ( $\square$ 6). Color tones in shooting display change according to the selected color option.

Note About Color Options

There are functions with which this setting cannot be enabled. See "Functions That Cannot Be Applied Simultaneously" (\$\sum\_59\$) for more information.

#### **AF Area Mode**

On the **△** (auto) mode shooting screen → MENU button → AF area mode

Use this option to determine how the camera selects the focus area for autofocus.

Option	Description	
Pace priority (default setting)	When the camera detects a human face, it focuses on that face. See "Face Detection" (\$\square\$61\$) for more information. If more than one face is detected, the camera focuses on the face closest to the camera. When taking pictures of subjects other than people, or framing a subject with which no face is detected, the <b>AF area mode</b> setting switches to <b>Auto</b> , and the camera automatically selects the areas) containing the subject closest to t	
<b>□</b> Auto	The camera automatically selects the focus area (up to nine areas) containing the subject closest to the camera and focus on it. Press the shutter-release button halfway to activate the focus area. When the shutter-release button is pressed halfway, the focus area (up to nine areas) selected by the camera will be displayed in the monitor.	Focus area

Option	Description	
[ <b>1</b> ] Manual	Select one of 99 focus areas in the monitor. This option is suited to situations in which the intended subject is relatively still and not positioned in the center of the frame. Press the multi selector ▲, ▼, ◄, or ▶ to move the focus area to the position where you want to focus, and then shoot.  • Before making any of the settings below, press the ❸ button to cancel the focus-area selection.  - Flash mode - Macro mode, self-timer, or exposure When the settings are complete, press the reactivate the focus-area selection.	
[•] Center	The camera focuses on the subject at the center of the frame. The center focus area is always displayed.	© © © © © © © © © © © © © © © © © © ©
Subject tracking	Use this function to take pictures of moving subjects. Register the subject on which the camera will focus. The focus area will automatically move to track the subject. See "Using Subject Tracking" (♣32) for more information.	

#### Notes About AF Area Mode

- When digital zoom is in effect, focus will be on the center of the screen regardless of the **AF area mode** setting.
- Autofocus may not perform as expected (QQ29).
- There are functions with which this setting cannot be enabled. See "Functions That Cannot Be Applied Simultaneously" (🕮 59) for more information.

#### **Using Subject Tracking**

On the ♠ (auto) mode shooting screen → MENU button → AF area mode → Subject tracking

Use this function to take pictures of moving subjects. When a subject is registered, the camera automatically moves the focus area to track the subject.

## **1** Register a subject.

- When the white border is displayed at the center of the screen, align the subject with the border and press the button.
- When the border glows red, the camera is unable to focus on the subject. Change the composition and try to register the subject again.
- When the subject is registered, a yellow focus area is displayed on that subject and the camera begins tracking that subject.
- To deregister the subject, press the **®** button.
- If the camera cannot track the registered subject anymore, the focus area will disappear and the registration will be canceled. Register the subject again.





# Press the shutter-release button all the way down to take a picture.

- The camera focuses on the focus area when the shutter-release button is pressed halfway. The focus area will glow green and focus will be locked.
- If the focus area is not displayed when the shutterrelease button is pressed halfway, the camera focuses on the subject at the center of the frame.



### Notes About Subject Tracking Mode

- Adjust zoom position, flash mode, exposure compensation, and menu settings prior to registering the subject.
- Subject tracking may not be possible in certain shooting conditions.
- Digital zoom is not available.



#### **Autofocus Mode**

On the **△** (auto) mode shooting screen → MENU button → Autofocus mode

Choose how the camera focuses.

Option	Description
AF-S Single AF (default setting)	The camera focuses when the shutter-release button is pressed halfway.
AF-F Full-time AF	The camera focuses continuously until the shutter-release button is pressed down halfway. Use with moving subjects. The sound of lens drive movement will be heard while the camera focuses.

Autofocus mode for movie recording can be set with **Autofocus mode** (6–648) in the movie menu (6–647).

#### **Smart Portrait Menu**

 See "Changing the Image Size (Image Mode)" (□57) for information about Image mode.

#### **Skin Softening**

On the smart portrait mode screen → MENU button → Skin softening

Enable skin softening.

Option	Description
<b>,</b> ₩ High	When the shutter is released, the camera detects one or
♦♦ Normal (default setting)	more human faces (up to three), and processes the image to soften facial skin tones before saving the image. You can select the amount of effect that is applied.
<b>♦</b> Low	
OFF Off	Turns skin softening off.

The current setting can be confirmed by the indicator displayed in the monitor with shooting ( $\square$ 6). No indicator is displayed when **Off** is selected. The effects of skin softening are not visible when framing pictures for shooting. Check the degree of skin softening performed in playback mode.

#### **Smile Timer**

On the smart portrait mode screen → MENU button → Smile timer

The camera detects human faces and then automatically releases the shutter whenever a smile is detected.

Option	Description
ত্রাঁ On (default setting)	Enables smile timer.
OFF Off	Turns the smile timer off.

The current smile timer setting is indicated by an icon when shooting ( $\square$ 6). No icon is displayed when **Off** is selected.

#### **Blink Proof**

On the smart portrait mode screen → MENU button → Blink proof

The camera automatically releases the shutter twice each time a picture is taken. Of the two shots, one in which the subject's eyes are open is saved.

Option	Description	
<b>ॐ</b> On	Enables blink warning. Flash cannot be used when On is selected. If the camera saved an image in which the subject's eyes may have been closed, the dialog shown on the right is displayed for a few seconds.	A blink was detected in the picture just taken.
OFF Off (default setting)	Turns the blink warning off.	

The current blink proof setting is indicated by an icon when shooting ( $\square$ 6). No icon is displayed when **Off** is selected.

# The Playback Menu

See "Editing Images (Still Images)" ( 10) for information about image editing features.

# Print Order (Creating a DPOF Print Order)

Press the ▶ button (playback mode) → MENU button → △ Print order

When printing images stored on the memory card using any of the following methods, the **Print order** option in the playback menu is used to create digital "print orders" for printing on DPOF-compatible devices.

- Inserting the memory card into a DPOF-compatible (2:18) printer's card slot.
- Taking the memory card to a digital photo lab.
- Connecting the camera to a PictBridge-compatible ( 18) printer ( 18). A
  print order can also be created for images stored in the internal memory if the
  memory card is removed from the camera.

# 1 Choose **Select images** and press the **(B)** button.

• In favorite pictures, auto sort, or list by date mode, the screen shown on the right is not displayed. Proceed to the step 2.



# 2 Choose images (up to 99) and the number of copies (up to nine) of each.

- Press the multi selector 

  or 

  to select images, and press 

  or 

  to specify the number of copies to be printed.
- Image selected for printing can be recognized by the check mark (♥) icon and the numeral indicating the number of copies to be printed. If no copies have been specified for images, the selection is canceled.
- Rotate the zoom control to T (Q) to switch to full-frame playback. Rotate the zoom control to W (►) to switch back to 12-thumbnail display.
- Press the **®** button when setting is complete.



# **3** Choose whether or not to print shooting date and photo information.

- Choose **Date** and press the button to print the shooting date on all images in the print order.
- Choose **Info** and press the **®** button to print shutter speed and aperture value information on all images in the print order.
- Done

  Date
  Info

Print order

• Choose **Done** and press the **®** button to complete the print order and exit.

Images selected for printing are recognized by the  $ext{@}$  icon displayed with playback.



#### Notes About Print Order

When a print order is created in favorite pictures mode, auto sort mode or list by date mode, the screen shown below is displayed if images other than those in the selected album, or category, or captured on the selected shooting date, have been marked for printing.

- Select **Yes** to mark the selected images for printing without changing the marking of other images.
- Select **No** to remove print marking from previously marked images and restrict the print order to images in the selected album or category, or captured on the selected shooting date.



Favorite pictures mode/ auto sort mode



List by date mode

If the total number of marked images exceeds 99 as a result of adding the current print order setting, the screen shown below will be displayed.

- Select **Yes** to remove print marking previously added from the print order and restrict the print order to images just marked.
- Select **Cancel** to cancel the settings that were just added without changing the print marking for previously marked images.



Favorite pictures mode/ auto sort mode



List by date mode

#### Notes About Printing Shooting Date and Photo Information

When the **Date** and **Info** options are enabled in the print order option, shooting date and photo information are printed on images when a DPOF-compatible (2 18) printer which supports printing of shooting date and photo information is used.

- Photo information cannot be printed when the camera is connected directly to a printer, via the included USB cable, for DPOF printing (\$\inc\$23).
- Note that Date and Info settings are reset when the Print order option is displayed.
- The date printed is that saved when the image was captured. Changing the camera's date using the **Time zone and date** option in the setup menu after an image has been captured has no effect on the date printed on the image.



#### Canceling Existing Print Order

Select **Delete print order** in step 1 of " Print Order (Creating a DPOF Print Order)" ( 336) and press the (N) button to remove print marking from all images and cancel the print order.

#### Print Date

When date and time of recording are imprinted on images using the **Print date** option (**6** 55) in the setup menu, images are recorded with shooting date and time imprinted on the image when they are captured. Images with the date imprinted on them can be printed from printers that do not support printing of the date on images.

Only the date and time imprinted on images using the print date option will be printed, even if the date print option is enabled in the **Print order** menu.

### **□** Slide Show

Press the ▶ button (playback mode) → MENU button → 및 Slide show

Play back images stored in the internal memory or on a memory card one by one in an automated "slide show"

# 1 Use the multi selector to choose **Start** and press the 🕅 button.

- To change the interval between images, choose
   Frame intvl, select the desired interval time, and press the button before choosing Start.
- To repeat the slide show automatically, choose Loop and press the button before choosing Start. The check mark ( ✓ ) will be added to the loop option when enabled.



Slide show

## **2** The slide show begins.

- While the slide show is in progress, press the multi selector 
   ▶ to display the subsequent image or 
   ↓ to display the previous image. Hold down either button to fast forward or rewind.
- To end or pause slide show, press the 🕅 button.



#### 3 Choose End or Restart

The display at right appears when the last slide is displayed or the show is paused. Highlight and press to return to Step 1, or select to restart the show



#### Notes About Slide Show

- Only the first frame of movies ( $\square$ 78) included in a slide show is displayed.
- The maximum playback time is about 30 minutes, even if Loop is enabled ( 59).

#### On Protect

Press the ▶ button (playback mode) → MENU button → • Protect

Protect selected images from accidental deletion.

Select images to protect or cancel protection for previously protected images from the image selection screen. See "Selecting Images" (\$\sigma\$42).

Note that formatting the camera's internal memory or the memory card will permanently delete protected files (\$\infty\$60).

Protected images are recognized by the  $\mathfrak{S}_{\overline{a}}$  icon ( $\mathfrak{Q}_{\overline{a}}$ 7).

#### **Selecting Images**

The image selection screen like that shown at right is displayed with the following operations:

- Print order>**Select images** (**♂**36)
- Protect (6-641)
- Rotate image ( \$\display{6}\display{3})
- Copy>Selected images (6–646)
- Welcome screen>**Select an image** (**6=6**49)
- Delete>Erase selected images (◯◯33)



Follow the procedures described below to choose the images.

- **1** Press the multi selector **◄** or **▶** to choose the desired image.

  - Only one image can be selected at a time for Rotate image and Welcome screen. Proceed to step 3.



- Press ▲ or ▼ to select or deselect (or to specify the number of copies).
  - When an image is selected, a check mark (�) is displayed with the image. Repeat steps 1 and 2 to select additional images.



- **3** Press the **®** button to finalize selection.
  - When Selected images is selected, a confirmation dialog is displayed. Follow the instructions displayed in the monitor.

# ♣ Rotate Image

Press the ▶ button (playback mode) → MENU button → 🔁 Rotate image

Specify the orientation in which recorded images are displayed with playback. Still images can be rotated 90 degrees clockwise or 90 degrees counterclockwise. Images that were recorded in portrait ("tall") orientation can be rotated up to 180 degrees in either direction.

Select an image in the image selection screen ( $\clubsuit$ 42). When the rotate image screen is displayed, press the multi selector  $\blacktriangleleft$  or  $\blacktriangleright$  to rotate the image 90 degrees.











Rotate 90 degrees counterclockwise

Rotate 90 degrees clockwise

Press the M button to finalize display orientation, and save orientation data with the image.

# **●** Voice Memo

Press the  $\blacksquare$  button (playback mode)  $\Rightarrow$  select an image  $\Rightarrow$  MENU button  $\Rightarrow$   $\P$  Voice memo

Use the camera's built-in microphone to record voice memos for images.

• When playing back an image with no voice memo attached, the screen changes to the recording screen. When playing back an image with a voice memo attached (indicated by the 🖟 icon in full-frame), the screen changes to the voice memo playback screen.

#### **Recording Voice Memos**

- A voice memo of up to 20 seconds can be recorded while the button is pressed.
- Do not touch the built-in microphone during recording.



- During recording, **REC** and [J] flash in the monitor.
- When recording ends, the voice memo playback screen is displayed. See "Playing Voice Memos" for more information.
- Press the multi selector 

   before or after recording a voice memo to return to the playback menu. Press the MENU button to exit the playback menu.



#### **Playing Voice Memos**

- Press the **®** button to play the voice memo.
- Press the **®** button again to stop playback.
- Rotate the zoom control to T or W during playback to adjust playback volume.
- Press the multi selector 

  before or after playing back a voice memo to return to the playback menu.
   Press the MENU button to exit the playback menu.



#### **Deleting Voice Memos**

In voice memo playback screen, press the  $\widehat{\mathbf{m}}$  button. Press the multi selector  $\mathbf{A}$  or  $\mathbf{V}$  to choose  $\mathbf{Yes}$  and press the  $\widehat{\mathbf{M}}$  button. Only the voice memo will be deleted



#### Notes About Voice Memos

- When an image with a voice memo attached is deleted, both the image and its voice memo are deleted.
- Voice memos attached to protected images cannot be deleted.
- If a voice memo already exists for the current image, it must be deleted before a new voice memo can be recorded.
- The COOLPIX S2600 is not able to record a voice memo for images captured with another make or model of digital camera.

#### More Information

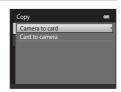
See "Image/Sound File and Folder Names" (669) for more information.

## ☐ Copy (Copy Between Internal Memory and Memory Card)

Press the ▶ button (playback mode) → MENU button → 🖽 Copy

Copy images between the internal memory and a memory card.

- 1 Use the multi selector to select an option from the copy screen and press the ® button.
  - Camera to card: Copy images from internal memory to memory card.
  - Card to camera: Copy images from memory card to internal memory.



- **2** Select a copy option and press the ® button.
  - Selected images: Copy images selected from the image selection screen ( 42).
  - All images: Copy all images.



## Notes About Copying Images

- JPEG-, AVI-, and WAV-format files can be copied. Files recorded in any other format cannot be copied.
- If voice memos ( 44) are attached to images selected for copying, voice memos are copied with the images.
- Operation is not guaranteed with images captured with another make of camera or that have been modified on a computer.
- When copying images selected for a **Print order** (♣36), the print marking is not copied. However, **Protect** (♣41) settings are copied with images.
- Images or movies copied from the internal memory or a memory card cannot be displayed in auto sort mode (♣7).
- When images added to albums ( 4) are copied, the copies are not automatically added to the same albums as the original images.

## "Memory contains no images." Message

If a memory card that contains no images is inserted into the camera, **Memory contains no images.** will be displayed when the camera is switched to playback mode. Press the **MENU** button to select **Copy** in the playback menu and copy the images saved in the camera's internal memory to the memory card.

## More Information

See "Image/Sound File and Folder Names" (��69) for more information.

#### The Movie Menu

## **Movie Options**

On the shooting screen → MENU button → 🖷 tab → Movie options

Select the desired movie option for recording movies.

Option	Description
720p HD 720p (1280×720) (default setting*)	Movies with an aspect ratio of 16:9 are recorded. This option is suited to playback on a wide screen TV. Image size: 1280 × 720 pixels
VGA VGA (640×480)	Image size: 640 × 480 pixels
QVGA QVGA (320×240)	lmage size: 320 × 240 pixels

- \* When recording in the internal memory, the default setting is VGA (640×480).
- The frame rate is approximately 30 frames per second in any options.
- See page 76 for more information about maximum movie length.

#### **Autofocus Mode**

On the shooting screen → MENU button → 🖷 tab → Autofocus mode

Select the autofocus method used when recording normal speed movies.

Option	Description
AF-S Single AF (default setting)	Focus is locked when the ● (*★ movie-record) button is pressed to start recording. Select this option when the distance between the camera and the subject will remain fairly consistent.
AF-F Full-time AF	Camera focuses continuously during movie recording. Select this option when the distance between the camera and subject will change significantly during recording.  To prevent sound of camera focusing from interfering with recording, use of <b>Single AF</b> is recommended

#### **Wind Noise Reduction**

On the shooting screen → MENU button → 및 tab → Wind noise reduction

Select whether wind noise is reduced when recording normal speed movies.

Option	Description
<b>♣</b> On	Records while minimizing the noise of wind blowing on the microphone. Suitable for recording in strong winds. During playback, not only wind noise, but other sounds may also become difficult to hear.
OFF Off (default setting)	Wind noise is not reduced.

When the wind noise reduction setting is enabled, the current setting is displayed during shooting ( $\square$ 6). When **Off** is selected, an icon for the current setting is not displayed.

## **The Setup Menu**

## **Welcome Screen**

Press the MENU button → Y tab → Welcome screen

Choose whether or not a welcome screen is displayed when the camera is turned on.

Option	Description
None (default setting)	The camera enters shooting or playback mode without displaying the welcome screen.
COOLPIX	The camera displays a welcome screen and enters shooting or playback mode.
Select an image	Displays an image selected for the welcome screen. When the image selection screen is displayed, select an image (♣42) and press ♠ button.  • As the selected image is stored by the camera, it will be displayed when the camera is turned on even if the original image is deleted.  • Images captured at an Image mode (□57) setting of ♠ 4224×2376, and copies created at a size of 320 × 240 or smaller using the small picture (♣15) or crop (♣16) function, cannot be used.

#### Time Zone and Date

Press the MENU button → Y tab → Time zone and date

Set the camera clock

Option	Description	
Date and time	Set camera clock to current date and time.  Use the multi selector to set the date and time in the displayed screen.  • Select a field: Press ◀ or ▶ (the highlight switches between <b>D</b> , <b>M</b> , <b>Y</b> , hour, and minute).  • Edit the highlighted field: Press ▲ or ▼.  • Apply the settings: Select the minute field and press the ₩ button.	
Date format	Select the order in which the day, month, and year are displayed from Year/Month/Day, Month/Day/Year, and Day/Month/Year.	
Time zone	↑ Home time zone can be specified and daylight saving enabled or disabled from time zone options. When Travel destination (→) is selected, local time (→52) is automatically calculated and date and time in the selected region are recorded with images. Useful when traveling.	

## **Selecting Travel Destination Time Zone**

1 Use the multi selector to choose **Time zone** and press the ® button.



- 2 Choose ➤ Travel destination and press the 
  ⑥ button.
  - The date and time displayed in the monitor changes according to the region currently selected.



## **3** Press ▶.

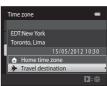
• The time zone selection screen is displayed.



## **4** Press **◄** or **▶** to choose the travel destination time zone.

- Press ▲ in a time zone where daylight saving is in effect to enable the daylight saving time function and automatically advance the time by one hour. The ♣ icon will be displayed at the top of the monitor. Press
   ▼ to disable the daylight saving time function.
- Press the button to choose the travel destination time zone.
- While the travel destination time zone is selected, the icon will be displayed in the monitor when the camera is in shooting mode.





#### **⚠** Home Time Zone

- To switch to the home time zone, choose **A Home time zone** in step 2 and press the **W** button.
- To change the home time zone, choose **A Home time zone** in step 2 and complete steps 3 and 4.

## Daylight Saving Time

When daylight saving time starts or ends, turn the daylight saving time function on or off from the time zone selection screen displayed in step 4.

## Imprinting the Date on Images

Enable the **Print date** option (��55) in the setup menu after the date and time have been set. When the **Print date** option is enabled, images will be recorded with shooting date imprinted on them.

## Time Zones

The camera supports the time zones listed below. For time zone not listed below, set the camera clock to local time from the **Date and time** option.

UTC +/-	Location	UTC +/-	Location
-11	Midway, Samoa	+1	Madrid, Paris, Berlin
-10	Hawaii, Tahiti	+2	Athens, Helsinki, Ankara
-9	Alaska, Anchorage	+3	Moscow, Nairobi, Riyadh, Kuwait, Manama
-8	PST (PDT): Los Angeles, Seattle, Vancouver	+4	Abu Dhabi, Dubai
-7	MST (MDT): Denver, Phoenix	+5	Islamabad, Karachi
-6	CST (CDT): Chicago, Houston, Mexico City	+5.5	New Delhi
-5	EST (EDT): New York, Toronto, Lima	+6	Colombo, Dhaka
-4.5	Caracas	+7	Bangkok, Jakarta
-4	Manaus	+8	Beijing, Hong Kong, Singapore
-3	Buenos Aires, Sao Paulo	+9	Tokyo, Seoul
-2	Fernando de Noronha	+10	Sydney, Guam
-1	Azores	+11	New Caledonia
±0	London, Casablanca	+12	Auckland, Fiji

## **Monitor Settings**

Press the MENU button → Y tab → Monitor settings

Set the options below.

Option	Description
Photo info	Choose information displayed in the monitor during shooting and playback mode.
lmage review	On (default setting): Image is automatically displayed in the monitor immediately after it is captured and the monitor display returns to shooting mode. Off: Image is not displayed after it is captured.
Brightness	Choose from five settings for monitor brightness. The default setting is <b>3</b> .

#### **Photo Info**

Select whether or not the photo information is displayed in the monitor. See "The Monitor" ( $\square$ 6) for information on indicators displayed in the monitor.

	· - · /	' /
	Shooting mode	Playback mode
Show info	© COM 05 (H 11590)	15/05/2012 15:30 0009J.P6
Auto info (default setting)	Current settings and operational guides are displayed as in <b>Show info</b> above. If no operations are performed for a few seconds, the display will be the same as <b>Hide info</b> . Information will be displayed again when the next operation is performed.	
Hide info		

	Shooting mode	Playback mode
Framing grid+auto info	In addition to information shown with <b>Auto info</b> , a framing grid is displayed as a reference for framing a picture. The grid is not displayed when recording movies.	18/09/2012 18:390 0004_PG 0004_PG 4/ All The current settings or operation guide is displayed, as in <b>Auto</b> info.
Movie frame+auto info	In addition to information shown with <b>Auto info</b> , a frame is displayed before recording begins that represents the area that will be captured when recording movies. It is not displayed while recording movies.	The current settings or operation guide is displayed, as in <b>Auto info</b> .

## **Print Date (Imprinting Date and Time)**

Press the MENU button → Y tab → Print date

The shooting date and time can be imprinted on the images with shooting, allowing the information to be printed even from printers that do not support date printing (��39).



Option	Description
DATE Date	Date is imprinted on the images.
₩ Date and time	Date and time are imprinted on the images.
OFF Off (default setting)	Date and time are not imprinted on images.

The current print date setting can be confirmed in the camera monitor with shooting ( $\square$ 6). When **Off** is selected, no icon is displayed.

#### Notes About Print Date

- Imprinted dates form a permanent part of image data and cannot be deleted. The date and time
  cannot be imprinted on images after they have been captured.
- The date cannot be imprinted in the following situations:
  - When using Panorama assist scene mode
  - When recording movies
- Dates imprinted at an Image mode setting (□57) of 640×480 may be difficult to read.
   Choose 1600×1200 or larger when using the Print date option.
- The date is recorded using the format selected in the setup menu's Time zone and date item
  (□22, →50).

#### Print Date and Print Order

If using a DPOF-compatible printer that supports the printing of shooting date and photo information, it is possible to use the **Print order** option (��36) to print such information even on images that were not captured using the **Print date** option.

#### Flectronic VR

#### Press the MENU button → Y tab → Electronic VR

Choose whether or not to use electronic VR (vibration reduction), which reduces the effects of camera shake during shooting.

Option	Description
( <b>J</b> Auto	When taking still images, electronic vibration reduction is enabled when ∰ (□6) is displayed in the monitor and all of the conditions below are met.  • Flash mode is set to <b>Off</b> or <b>Slow sync</b> .  • A slow shutter speed is used.  • <b>Continuous</b> is set to <b>Single</b> .  • The subject is dark. When recording movies, electronic vibration reduction is enabled at all times.
<b>OFF</b> Off (default setting)	Electronic vibration reduction is disabled.

#### Notes About Electronic Vibration Reduction

- The effectiveness of electronic vibration reduction decreases as camera shake increases.
- The image captured using electronic vibration reduction may be somewhat "grainy" in appearance.
- Electronic vibration reduction does not function under the following conditions or in the following shooting modes:
  - When slow sync with red-eye reduction (QQ41) is used.
  - When exposure exceeds a certain length of time.
  - When **ISO sensitivity** (��028) is set to any setting other than **Auto**.
  - When **Blink proof** ( 35) in smart portrait mode is set to **On**.
  - In the following scene modes: **Sports** ( $\square$ 41), **Night portrait** ( $\square$ 41), **Dusk/dawn** ( $\square$ 42), **Night landscape** ( $\square$ 42), **Museum** ( $\square$ 43), **Fireworks show** ( $\square$ 44), **Backlighting** ( $\square$ 44).
- The angle of view (the area captured in the recorded movie) during movie recording is smaller when electronic vibration reduction is enabled.

#### Electronic Vibration Reduction

When **Electronic VR** in the setup menu is set to **Auto** and flash mode (□□50) is set to **⑤** (**Off**) or **!** (**Slow sync**), the (**!** icon may be displayed in the monitor. When shooting conditions are likely to be affected by camera shake while (**!** is displayed, the camera reduces the effects of camera shake on images before recording them.



#### **Motion Detection**

#### Press the MENU button → Y tab → Motion detection

Enable motion detection to reduce the effects of subject movement and camera shake when shooting still images.

Option	Description
್ತಿ Auto (default setting)	When the camera detects subject movement or camera shake, the ISO sensitivity and shutter speed are automatically increased to reduce blurring. However, motion detection does not function in the following situations.  • When the flash fires.  • In ♠ (auto) mode, when Multi-shot 16 (♠26) is enabled.  • When ISO sensitivity (♠28) is set to Fixed range auto, or ISO sensitivity is fixed at a particular value in ♠ (auto) mode.  • When AF area mode (♠30) is set to Subject tracking in ♠ (auto) mode.  • When Sports, Night portrait, Dusk/dawn, Night landscape, Museum, Fireworks show, Backlighting, or Pet portrait scene mode is enabled.  • When recording movies.
OFF Off	Motion detection is not enabled.

The current motion detection setting can be confirmed in the camera monitor with shooting ( $\square$ 6). The motion detection icon turns green when the camera detects camera shake and increases shutter speed. When **Off** is selected, no icon is displayed.

#### Notes About Motion Detection

- Motion detection may be unable to completely eliminate the effects of subject movement and camera shake in some situations.
- Motion detection may not function if the subject exhibits significant movement or is too dark.
- The images captured using motion detection may be somewhat "grainy" in appearance.

#### **AF Assist**

Press the MENU button → Y tab → AF assist

Enable or disable AF-assist illumination, which assists autofocus operation when the subject is poorly lit.

Option	Description	
Auto (default setting)	AF-assist illumination is used to assist the focus operation when the subject is poorly lit. The illuminator has a range of about 1.9 m (6 ft 2 in.) at the maximum wide-angle position and about 1.1 m (3 ft 7 in.) at the maximum telephoto position. Note that for some scene modes such as <b>Museum</b> (143) or <b>Pet portrait</b> (145) scene mode, or focus areas, the AF-assist illuminator may not light even when Auto is selected.	
Off	AF-assist illuminator does not light up. The camera may be unable to focus under dim lighting.	

## **Digital Zoom**

Press the MENU button  $\Rightarrow$  Y tab  $\Rightarrow$  Digital zoom

Enable or disable digital zoom.

Option	Description
On (default setting)	When the camera is zoomed in to the maximum optical zoom position, rotating the zoom control to $\mathbf{T}$ ( $\mathbf{Q}$ ) triggers digital zoom ( $\mathbf{Q}$ 27).
Off	Digital zoom will not be activated (except during movie recording).

## Notes About Digital Zoom

- When digital zoom is used, the camera focuses at the center of the frame regardless of the AF area mode setting.
- Digital zoom cannot be used in the following situations.
  - When **Continuous** is set to **Multi-shot 16** (♣26) in **(auto)** mode.
  - When **AF area mode** (♣30) is set to **Subject tracking** in **(auto)** mode.
  - When Scene auto selector, Portrait, Night portrait, or Pet portrait scene mode is selected.
  - When smart portrait mode is selected.



#### **Sound Settings**

Press the MENU button → Y tab → Sound settings

Adjust the following sound settings.

Option	Description
Button sound	Select <b>On</b> (default setting) or <b>Off.</b> When <b>On</b> is selected, a beep will sound once when operations are completed successfully, twice when the camera acquires focus on the subject, and three times when an error is detected. Start-up sound will also play when the camera is turned on.
Shutter sound	Select <b>On</b> (default setting) or <b>Off</b> . No sound is played with shutter release when some features such as continuous shooting or BSS (best shot selector) are enabled or recording movies, even if <b>On</b> is selected.

## Note About Sound Settings

In Pet portrait scene mode, button and shutter sounds are disabled.

#### **Auto Off**

#### Press the MENU button $\rightarrow Y$ tab $\rightarrow$ Auto off

When the camera is on and a period of time passes without any operations having been performed, the monitor will be turned off and the camera will enter standby mode ( $\square 21$ ) to save power. In this option, set the time allowed to elapse before the camera enters standby mode. **30 s, 1 min** (default setting), **5 min**, and **30 min** can be selected.

## When the Monitor Turns off for the Power Saving Function

- · Power-on lamp flashes in standby mode.
- Camera turns off after three minutes passes in standby mode.
- To reactivate the monitor while the power on lamp is flashing, press any of the following buttons:
  - Power switch, shutter-release button, button, button or movie-record) button

## Auto Off Settings

The time allowed to elapse before the camera enters standby mode is fixed in the following situations:

- When a menu is displayed: three minutes
- · During slide show playback: up to 30 minutes
- When the AC adapter EH-62G is connected: 30 minutes

#### **Format Memory/Format Card**

Press the MENU button → Y tab → Format memory/Format card

Use this option to format the internal memory or a memory card.

Formatting the internal memory or memory cards permanently deletes all data. Data that has been deleted cannot be restored. Be sure to transfer important images to a computer before formatting.

#### **Formatting the Internal Memory**

To format the internal memory, remove the memory card from the camera. The **Format memory** option is displayed in the setup menu.



#### **Formatting a Memory Card**

When the memory card is inserted in the camera, the **Format card** option is displayed in the setup menu.



## Formatting Internal Memory and Memory Cards

- Formatting the internal memory or memory card restores album icon settings (��6) to the default setting (displayed as number).
- Do not turn the camera off, or open the battery-chamber/memory card slot cover during formatting.
- The first time you insert a memory card that has been used in another device into this camera, be sure to format it with this camera.



## Language

#### Press the MENU button → Y tab → Language

Choose one of 28 languages for display of camera menus and messages.

Čeština	Czech
Dansk	Danish
Deutsch	German
English	(default setting)
Español	Spanish
Ελληνικά	Greek
Français	French
Indonesia	Indonesian
Italiano	Italian
Magyar	Hungarian
Nederlands	Dutch
Norsk	Norwegian
Polski	Polish
Português (BR)	Brazilian Portuguese

Português (PT)	Portuguese	
Русский	Russian	
Română	Romanian	
Suomi	Finnish	
Svenska	Swedish	
Tiếng Việt	Vietnamese	
Türkçe	Turkish	
Українська	Ukrainian	
عربي	Arabic	
简体中文	Simplified Chinese	
繁體中文	Traditional Chinese	
한글	Korean	
ภาษาไทย	Thai	
हिल्दी	Hindi	

## **Video Mode**

Press the MENU button → Y tab → Video mode

Adjust settings necessary for connection to a television. Select from  $\mbox{\bf NTSC}$  and  $\mbox{\bf PAL}.$ 

#### **Charge by Computer**

Press the MENU button → Y tab → Charge by computer

Choose whether or not the battery inserted in the camera is charged when the camera is connected to a computer via USB cable.

Option	Description
Auto (default setting)	When the camera is connected to a computer that is running, the battery inserted into the camera is automatically charged using power supplied by the computer.
Off	The battery inserted into the camera is not charged when the camera is connected to a computer.

## Notes About Connecting the Camera to a Printer

- The battery cannot be charged with connection to a printer, even if the printer complies with the PictBridge standard.
- When Auto is selected for Charge by computer, it may be impossible to print images with direct
  connection of the camera to some printers. If the PictBridge startup screen is not displayed in the
  monitor after the camera is connected to a printer and turned on, turn the camera off and
  disconnect the USB cable. Set Charge by computer to Off and reconnect the camera to the
  printer.

## Notes About Charging with Connection to a Computer

- The battery cannot be charged, nor can data be transferred, when the camera is connected to a
  computer before the camera's display language and date and time have been set (□22). If the
  camera's clock battery (□23) has been exhausted, the date and time must be reset before the
  battery can be charged or images can be transferred with connection to a computer. In this case,
  use the Charging AC Adapter EH-69P (□16) to charge the battery and then set the camera's date
  and time.
- If the camera is turned off, charging will also stop.
- If a computer enters sleep mode while charging, charging will stop and the camera may be turned
  off.
- When disconnecting the camera from a computer, turn the camera off and then disconnect the USB cable.
- It takes about 2 hours 10 minutes to charge a fully exhausted battery. Charging time increases
  when images are transferred while the battery is charging.
- When the camera is connected to a computer, an application installed on the computer, such as Nikon Transfer 2, may start. If the camera was connected to the computer for the sole purpose of charging the battery, exit the application.
- The camera turns off automatically if there is no communication with the computer for 30 minutes after the battery has finished charging.
- Depending upon computer specifications, settings, and power supply and allocation, it may be impossible to charge the battery inserted into the camera via computer connection.





## Charge Lamp

The following chart explains charge lamp status when the camera is connected to a computer.

Charge lamp	Description	
Flashes slowly (green)	Battery charging.	
Off	Battery not charging. When the charge lamp changes from slow flashing (green) to off while the power-on lamp is lit, charging is complete.	
Flashes quickly (green)	<ul> <li>The ambient temperature is not suited to charging. Charge the battery indoors with an ambient temperature of 5°C to 35°C (41°F to 95°F).</li> <li>A USB cable is not correctly connected or the battery is faulty. Reconnect the USB cable correctly or replace the battery.</li> <li>Computer is in sleep mode and does not supply power. Reboot the computer.</li> <li>The battery cannot be charged because the computer's specifications or settings do not support power supply to the camera.</li> </ul>	

## **Blink Warning**

#### Press the MENU button → Y tab → Blink warning

Specify whether or not the camera detects human subjects that have blinked when shooting with face detection ( $\square$ 61) in the following modes.

- (auto) mode (when **Face priority** (��30) is selected for AF area mode option).
- Scene auto selector (\$\sum40\$), Portrait (\$\sum40\$), or Night portrait (\$\sum41\$) is selected for the scene mode.

Option	Description	
On	When the camera detects that one or more human subjects may have blinked in an image captured using face detection, the <b>Did someone blink?</b> screen is displayed in the monitor. The face of the human subject that may have blinked when the shutter was released is framed by a yellow border. Should this occur, check the image and determine whether or not another image should be captured.  See "Operating the Blink Warning Screen" (\$\infty\$65) for more information.	
Off (default setting)	Blink warning is not enabled.	



## Note About Blink Warning

When the **Did someone blink?** screen shown on the right is displayed in the monitor, the operations described below are available.

If no operations are performed within a few seconds, the camera automatically returns to shooting mode.



Option	Use	Description
Enlarge the detected face that blinked	<b>T</b> ( <b>Q</b> )	Rotate the zoom control to $\mathbf{T}(\mathbf{Q})$ .
Switch to full-frame playback	<b>W</b> ( <b>5</b> )	Rotate the zoom control to <b>W</b> ( <b>E</b> ).
Select the face to be displayed	<b>√</b> (S)(S)(E)	If the camera detects that more than one human subject blinked, press ◀ or ▶ with display zoomed in to switch to another face.
Delete the image	Ú	Press the 🗑 button.
Switch to shooting mode	•	Press the <b>®</b> button or the shutter-release button.

#### **Reset All**

Press the MENU button → Y tab → Reset all

When **Reset** is selected, the camera's settings will be restored to their default values.

#### **Basic Shooting Functions**

Option	Default value
Flash mode (QQ50)	Auto
Self-timer (◯◯ 52)	Off
Macro mode (◯◯53)	Off
Exposure compensation (QQ 54)	0.0

#### **Shooting Menu**

Option	Default value
Image mode (◯◯57)	<b>14</b> 4320×3240
White balance (♣24)	Auto
Continuous (��26)	Single
ISO sensitivity ( 🗪 28)	Auto
Color options ( 29)	Standard color
AF area mode (♠♦30)	Face priority
Autofocus mode (♣♦33)	Single AF

#### Scene Mode

Option	Default value
Scene mode setting in the shooting-mode selection menu ( $\square$ 39)	Scene auto selector
Hue adjustment in Food mode (QQ43)	Center
Continuous in pet portrait mode (QQ45)	Continuous
Pet portrait auto release in pet portrait mode (QQ45)	On

#### **Smart Portrait Menu**

Option	Default value	
Skin softening (♣♦34)	Normal	
Smile timer (♂ 34)	On	
Blink proof (♣♦35)	Off	

#### Movie Menu

Option	Default value	
Movie options (♣♦47)	When inserting a memory card:  720 HD 720p (1280×720)  When using the internal memory:  VGA VGA (640×480)	
Autofocus mode (♣♦48)	Single AF	
Wind noise reduction (☎48)	Off	

## Setup Menu

Option	Default value
Welcome screen (♣49)	None
Photo info (5-53)	Auto info
Image review (ठ♣०53)	On
Brightness (♂53)	3
Print date (♣55)	Off
Electronic VR (♣♦56)	Off
Motion detection (♣♦57)	Auto
AF assist (♣58)	Auto
Digital zoom (♣658)	On
Button sound (♂59)	On
Shutter sound (♣59)	On
Auto off (♣59)	1 min
Charge by computer (♠62)	Auto
Blink warning ( <del>6</del> 64)	Off

#### Others

Option	Default value
Paper size (♣620, ♣621)	Default
Frame interval for slide show (5-040) 3 s	

- Choosing **Reset all** also clears the current file number (♣69) from memory. Numbering will continue from the lowest number available. To reset file numbering to "0001", delete all images (□32) before selecting **Reset all**.
- The following menu settings will remain unaffected when menus are reset with **Reset all**.

Shooting menu: Preset manual data (��25) acquired for White balance Setup menu: Image selected for Welcome screen (��49), Time zone and date (��50), Language (��61), and Video mode (��61)

#### **Firmware Version**

Press the MENU button  $\rightarrow \Upsilon$  tab  $\rightarrow$  Firmware version

View the current camera firmware version.



## **Image/Sound File and Folder Names**

Images, movies or voice memos are assigned file names as follows.

DSCN0001.JPG				
Identifier (not shown on camera	monitor)		Extension (indicates t	file format)
Original still images (voice			Still images	JPG
memo attachment included) and movies	DSCN		Movies	.AVI
Small copies (voice memo			Voice memos	.WAV
attachment included)	SSCN			
Cropped copies (voice memo attachment included)	RSCN	<ul> <li>          File number (assigned automatically in ascending order, starting with "0001")</li> </ul>		•
Copies created using editing functions other than small picture and crop (voice memo attachment included)	FSCN	asseriaing c		,

- Files are stored in folders named with a folder number followed by a five-character identifier: "P\_" plus a three-digit sequential number for images captured in Panorama assist scene mode (e.g. "101P\_001"; →2) and "NIKON" for all other images (e.g. "100NIKON"). When the number of files within a folder reaches 9999, a new folder will be created. File numbers will be assigned automatically starting with "0001."
- Voice memo file names have the same identifier and file number as the image to which the voice memo is attached.
- Files copied using Copy>Selected images are copied to the current folder, where they are assigned new file numbers in ascending order starting from the largest file number in memory. Copy>All images copies all folders from the source medium; file names do not change but new folder numbers are assigned in ascending order, starting from the largest folder number on the destination medium ( 646).
- A single folder can hold up to 200 files; if the current folder already contains 200 files, a new folder, named by adding one to the current folder name, will be created the next time a file is stored. If the current folder is numbered 999 and contains 200 files, or a file is numbered 9999, no further files can be stored until the internal memory or memory card is formatted (��60), or a new memory card is inserted.

## **Optional Accessories**

Rechargeable battery	Rechargeable Li-ion Battery EN-EL19 <sup>1</sup>		
Charging AC Adapter	Charging AC Adapter EH-69P <sup>1, 2</sup>		
Battery charger	Battery Charger MH-66 (Charging time when no charge remains: Approx. 1 h 50 min)		
AC adapter	AC Adapter EH-62G (connect as shown)  1 2 3  Be sure that the power connector cord has been properly aligned in power connector and battery chamber grooves before closing the battery-chamber/memory card slot cover.  If part of the cord runs out of the grooves, the cover or cord may be damaged when the cover is closed.		
USB cable	USB Cable UC-E6 <sup>1</sup>		
Audio/video cable	Audio Video Cable EG-CP14 <sup>1</sup>		

When using in other countries, use a plug adapter (available commercially) as necessary. For more information about plug adapters, consult your travel agency.

## **Error Messages**

The following table lists the error messages and other warnings displayed in the monitor, as well as the solutions for dealing with them.

Display	Cause/Solution	
(flashes)	Clock not set. Set date and time.	<b>≈</b> 50
Battery exhausted.	Charge or replace the battery.	14, 16
Battery temperature high	Battery temperature is high. Turn off camera, and allow battery to cool down before resuming use. After five seconds, the monitor will turn off and the power-on lamp will flash rapidly. After the lamps flash for three minutes, the camera will turn off automatically. Pressing the power switch also turns off the camera.	21
The camera will turn off to prevent overheating.	The camera has become hot. The camera turns off automatically. Leave the camera off until it has cooled and then turn it on again.	75
<b>AF</b> ● (● flashes red)	Camera cannot focus.  Refocus.  Use focus lock.	26, 29 64
Please wait for the camera to finish recording.	Camera cannot perform other operations until recording is complete. Wait until message clears from display automatically when recording is complete.	_
Memory card is write protected.	Write-protect switch is in "lock" position. Slide write-protect switch to "write" position.	-
This card cannot be used.  This card cannot be read.	Firor accessing memory card.  Use approved card.  Check that connectors are clean.  Confirm that memory card is correctly inserted.	19 18 18
Card is not formatted. Format card? Yes No	Memory card has not been formatted for use in COOLPIX S2600. Formatting deletes all data stored on the memory card. Be sure to select <b>No</b> and make copies of any images you wish to keep before formatting the memory card. Select <b>Yes</b> and press the <b>®</b> button to format the memory card.	18
Out of memory.	Memory card is full.  Choose smaller image size.  Delete images.  Insert new memory card.  Remove memory card and use internal memory.	57 32 18 19

Display	Cause/Solution	Ф
	Error occurred while saving image. Format internal memory or memory card.	<b>6</b> 60
	Camera has run out of file numbers. Insert a new memory card, or format internal memory or memory card.	<b>6</b> 69
Image cannot be saved.	Image cannot be used for welcome screen. The following images cannot be registered as welcome screen.  Images captured at an <b>Image mode</b> setting of   ### 4224×2376  Images reduced to 320 × 240 size or smaller with cropping or small picture editing	<b>6−6</b> 49
	Insufficient space to save a copy. Delete images from destination.	32
Album is full. No further pictures can be added.	200 images have already been added to album.  Remove some images from album.  Add to other albums.	<b>6-6</b> 5 <b>6-6</b> 4
Sound file cannot be saved.	A voice memo cannot be attached to this file.  • Voice memos cannot be attached to movies.  • Select an image captured with COOLPIX S2600.	- <b>6-6</b> 45
A blink was detected in the picture just taken.	One or more portrait subjects may have blinked when the image was captured. Check the image in playback mode.	30, 48
Image cannot be modified.	Cannot edit selected image.  • Select images that support editing function.  • Movies cannot be edited.	<b>6–6</b> 11
Cannot record movie.	Time out error while recording movie. Choose memory card with faster write speed.	19
Memory contains no images.	No images in the internal memory or memory card. To play back images stored in internal memory, remove memory card from the camera. To copy the images saved in the camera's internal memory to the memory card, press the MENU button to select Copy in the playback menu.	19 <b>6-6</b> 46
	The image has not been added to album.  • Add the image to album.  • Choose the album that the image was added.	<b>6−6</b> 4 <b>6−6</b> 5
	No images are contained in the category selected in auto sort mode. Select the category containing the sorted images.	<b>6−6</b> 7

Display	Cause/Solution	
File contains no image data.  This file cannot be	File not created with COOLPIX S2600.  File cannot be viewed on COOLPIX S2600. View file using a computer or the devices used to create or edit this file.	-
played back.	a computer of the devices used to create of edit this life.	
All images are hidden.	No images available for a slide show.	<b>6-6</b> 40
This image cannot be deleted.	Image is protected. Disable protection.	<b>6–6</b> 41
Travel destination is in the current time zone.	Destination in same time zone as home.	<b>6</b> →50
Lens error	The lens is not working properly. Turn camera off and then on again. If error persists, contact retailer or Nikon-authorized service representative.	20
Communications error	An error occurred during communication with printer. Turn camera off and reconnect USB cable.	<b>6−6</b> 19
System error	An error occurred in camera's internal circuitry. Turn camera off, remove and reinsert battery, and turn camera on. If error persists, contact retailer or Nikon- authorized service representative.	14, 21
Printer error: check printer status.	An error occurred with the printer. Check printer. After solving the problem, select <b>Resume</b> and press the <b>®</b> button to resume printing.*	-
Printer error: check paper	Specified size of paper is not loaded in printer. Load the specified paper, select <b>Resume</b> and press the  when the specified paper is not loaded in printer.	-
Printer error: paper jam	Paper has jammed in the printer. Remove the jammed paper, select <b>Resume</b> and press the <b>®</b> button to resume printing.*	-
Printer error: out of paper	No paper is loaded in printer. Load the specified paper, select <b>Resume</b> and press the	-
Printer error: check ink	An error occurred with the ink. Check ink, select <b>Resume</b> and press the <b>®</b> button to resume printing.*	-

## **Error Messages**

Display	Cause/Solution	Ф
Printer error: out of ink	Running out of ink or ink cartridge is empty. Replace ink cartridge, select <b>Resume</b> and press the <b>®</b> button to resume printing.*	-
Printer error: file corrupt	An error caused by the image file occurred. Select <b>Cancel</b> and press the <b>®</b> button to cancel printing.	-

<sup>\*</sup> See the documentation provided with your printer for further guidance and information.



# Technical Notes and Index

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## **Maximizing Camera Life and Performance**

To ensure continued enjoyment of this Nikon product, observe the precautions described below in addition to the warnings in "For Your Safety" ( $\square$ Vi) when using or storing the device.

#### The Camera

## Keep Dry

The device will be damaged if immersed in water or subjected to high humidity.

## Do Not Drop

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

## Handle the Lens and All Moving Parts with Care

Do not apply force to the lens, lens cover, monitor, memory card slot or battery chamber. These parts are easily damaged. Applying force to the lens cover could result in camera malfunction or damage to the lens. Should the monitor break, care should be taken to avoid injury caused by broken glass and to prevent the liquid crystal from the display touching the skin or entering the eyes or mouth.

## 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 of the CCD image sensor, producing a white blur effect in photographs.

## 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 charge 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 when entering or leaving a heated building on a cold day, can cause condensation to form 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.

# ▼ Turn the Product Off Before Removing or Disconnecting the Power Source or Memory Card

Do not remove the battery 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.

#### Notes on the Monitor

- Monitors and electronic viewfinders are constructed with extremely high precision; at least 99.99%
  of pixels are effective, with no more than 0.01% being missing or defective. Hence while these
  displays may contain pixels that are always lit (white, red, blue, or green) or always off (black), this is
  not a malfunction and has no effect on images recorded with the device.
- White or colored streaks may be visible when bright subjects are framed in the monitor. This
  phenomenon, known as "smear," occurs when extremely bright light strikes the image sensor; it is
  characteristic of image sensors and does not indicate a malfunction. Smear may also take the form
  of partial discoloration in the monitor during shooting. It does not appear in images recorded with
  the camera except in the cases of movies and of images recorded with Multi-shot 16 selected for
  Continuous. When shooting in these modes, we recommend that you avoid bright subjects such
  as the sun, reflected sunlight, and electric lights.
- Images in the monitor may be difficult to see under bright lighting.
- The monitor is lit by an LED backlight. Should the monitor begin to dim or flicker, contact your Nikon-authorized service representative.

#### **The Battery**

- Check the battery level before using the camera and replace or charge the battery if necessary. Do
  not continue charging once the battery is fully charged as this will result in reduced battery
  performance. Whenever possible, carry a fully charged spare battery when taking pictures on
  important occasions.
- Do not use the battery at ambient temperatures below 0°C (32°F) or above 40°C (104°F).
- Charge the battery indoors with an ambient temperature of 5°C to 35°C (41°F to 95°F) before use.
- When charging the battery inserted into the COOLPIX S2600 using the Charging AC Adapter EH-69P or a computer, the battery is not charged at battery temperatures below 0°C (32°F) or above 45°C (113°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.
- 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. Should the battery terminals become dirty, wipe them off with a clean, dry cloth before use.
- If the battery will not be used for some time, insert it in the camera and completely exhaust it
  before removing it for storage. The battery should be stored in a cool location with an ambient
  temperature of 15°C to 25°C (59°F to 77°F). Do not store the battery in hot or extremely cold
  locations.
- Always remove the battery from the camera or optional battery charger when it is not being used.
   When inserted, minute amounts of current flow even when unused, and the battery may become excessively drained and no longer function. Turning the camera on or off while the battery is exhausted can result in reduced battery life.
- Recharge the battery at least once every six months and completely exhaust it before returning it to storage.
- After removing the battery from the camera or optional battery charger, put the battery in the battery case and store it in a cool place.
- A marked drop in the time a fully charged battery retains its charge, when used at room temperature, indicates that the battery needs to be replaced. Purchase a new EN-EL19 battery.
- Replace the battery when it no longer holds a charge. Used batteries are a valuable resource.
   Please recycle used batteries in accordance with local regulations.

## **Charging AC Adapter**

- The Charging AC Adapter EH-69P is for use only with compatible devices. Do not use with another
  make or model of device.
- The EH-69P is compatible with AC 100-240 V, 50/60 Hz electrical outlets. When using in other
  countries, use a plug adapter (available commercially) as necessary. For more information about
  plug adapters, consult your travel agency.
- Do not, under any circumstances, use another make or model of AC adapter other than Charging AC Adapter EH-69P or USB-AC adapter. Failure to observe this precaution could result in overheating or in damage to the camera.

#### **Memory Cards**

- Be sure to follow the precautions described in the documentation included with the memory card.
- · Do not put labels or stickers on memory cards.
- When you use memory cards that have been used with other devices for the first time, be sure to
  format them with this camera. We recommend formatting new memory cards with this camera
  before using them with this camera.
- Note that formatting permanently deletes all images and other data on the memory card. Be sure to make copies of any images you wish to keep before formatting the memory card.
- If the message Card is not formatted. Format card? is displayed when the camera is turned on, the memory card must be formatted. If there is data that you do not want to delete, select No. Copy the necessary date to a computer, etc. If you want to format the card, select Yes. The confirmation dialog will be displayed. To start formatting, press the ® button.
- Do not perform the following during formatting, while data is being written to or deleted from the
  memory card, or during data transfer to a computer. Failure to observe this precaution could result
  in the loss of data or in damage to the camera or memory card:
  - Open the battery-chamber/memory card slot cover to remove/insert the battery or memory card.
  - Turn off the camera.
  - Disconnect the AC adapter.
- Do not format the memory card using a computer.

#### Cleaning

Lens	Avoid touching the lens with your fingers. Remove dust or lint with a blower (typically a small device with a rubber bulb attached to one end that is pumped to produce a stream of air out the other end). To remove fingerprints or other stains that cannot be removed with a blower, wipe the lens with a soft cloth, using a spiral motion that starts at the center of them and working toward the edges. If this fails, clean the lens using a cloth lightly dampened with commercial lens cleaner.
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.	
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 other sandy or dusty environment, wipe off any sand, dust or salt with a dry cloth lightly dampened with fresh water and dry thoroughly. <b>Note that foreign matter inside the camera could cause damage not covered by the warranty.</b>

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

## Storage

Turn the camera off when not in use. Be sure that the power-on lamp is off before putting the camera away. Remove the battery if the camera will not be used for an extended period. Do not store the camera with naphtha or camphor moth balls, or in any of the following locations:

- Next to equipment that produces strong electromagnetic fields, such as televisions or radios
- Exposed to temperatures below  $-10^{\circ}$ C (14°F) or above 50°C (122°F)
- Places that are poorly ventilated or subject to humidity 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.

 For storing the battery, follow the precautions in "The Battery" ( 34) in "Maximizing Camera Life and Performance".

If the camera fails to function as expected, check the list of common problems below before consulting your retailer or Nikon-authorized service representative.

### **Display, Settings and Power Supply**

Problem	Cause/Solution	Ш
Battery inserted into the camera cannot be charged.	Confirm all connections.  Off is selected for Charge by computer in the setup menu.  When charging by connecting the camera to a computer, battery charging stops when the camera is turned off.  When charging by connecting the camera to a computer, battery charging stops when the computer is suspended (sleeping), and the camera may turn off.	16 84, <b>◆</b> 62 84, <b>♦</b> 62 84, <b>♦</b> 62
	Depending upon computer specifications, settings, and status, it may be impossible to charge the battery inserted into the camera via computer connection.	_
Camera cannot be turned on.	Battery is exhausted. When connecting to an electrical outlet using a Charging AC Adapter, the camera cannot be turned on.	20 16
	Battery is exhausted. Camera has turned off automatically to save power. The camera and battery may not work properly at low temperatures.	20 21, <b>◆</b> 59 <b>⋩</b> 4
Camera turns off without warning.	<ul> <li>The camera turns off if the Charging AC Adapter is connected while the camera is on.</li> <li>The USB cable connecting the camera to the computer or printer has been disconnected. Reconnect the USB cable.</li> <li>The internal temperature of the camera or the memory card is high. Leave the camera off until it has cooled and then turn it on again.</li> </ul>	16 68, <b>◆</b> 19 <b>◆</b> •71

#### $\Box$ Problem Cause/Solution Camera is off. 21 Battery is exhausted. 20 • Standby mode for saving power. Press the 21 power switch, shutter-release button, button, **▶** button, or **●** (**▶** movie-record) button Monitor is blank • When flash lamp flashes, wait until flash has 50 charged. • Camera and computer are connected via 68.71 USB cable. Camera and TV are connected via audio/ 68. **6**17 video cable. · Adjust monitor brightness. 82. 6 53 Monitor is hard to read · Monitor is dirty. Clean monitor. **À**-6 • If camera clock has not been set, "Date not 22, 6 50 set" indicator flashes with shooting and movie recording. Images and movies recorded before clock is set are dated "00/ Date and time of recording 00/0000 00:00" or "01/01/2012 00:00" are not correct. respectively. Set the correct time and date from the **Time zone and date** option in the setup menu. • Check camera clock regularly against more 23, 6-650 accurate timepieces and reset as required. Hide info is selected for Photo info No indicators displayed in 82, **6**53 monitor Select Show info 22, 82, Print date not available. Camera clock has not been set **6**−**0**50 Date not appearing on • The current shooting mode is one that does images even when **Print** not support **Print date**. 82. 6 55 date is enabled. • The date cannot be imprinted on movies. Screen for setting time zone and date is displayed Clock battery is exhausted; all settings were when the camera is turned 22, 23 restored to their default values



Camera settings reset.

Problem	Cause/Solution	Щ
Monitor turns off, and the power-on lamp flashes rapidly.	Battery temperature is high. Turn off camera and allow battery to cool down before resuming use. After the lamp flashes for three minutes, the camera will turn off automatically. Pressing the power switch also turns off the camera.	21
Camera becomes hot.	The camera may become hot when shooting movies for an extended period of time or when the camera is used in a hot area; this is not a malfunction.	-

#### **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, then turn the camera on again. In the event of continued malfunction, contact your retailer or Nikon-authorized service representative. Note that disconnecting the power source as described above may result in the loss of any data not recorded to internal memory or the memory card at the time the problem occurred. Data already recorded will not be affected.

#### Shooting

Problem	Cause/Solution	Ш
No image captured when shutter-release button is pressed.	When camera is in playback mode, press the button, shutter-release button, or	8, 30 10 20 50

Problem	Cause/Solution	
Camera cannot focus.	The subject is too close to the camera. Try shooting using macro mode, or Scene auto selector or Close-up scene mode. The intended subject is one with which autofocus does not perform well. Select Auto for AF assist in the set up menu.	39, 43, 53 29 83, <b>◆</b> 58
Images are blurred.	<ul> <li>Turn camera off and then on again.</li> <li>Use flash.</li> <li>Increase the ISO sensitivity value.</li> <li>Enable electronic vibration reduction or motion detection.</li> <li>Use BSS.</li> <li>Use tripod and self-timer.</li> </ul>	50 37, \$\infty\$28 83, \$\infty\$56, \$\infty\$57 37, 43, \$\infty\$26 52
Streaks of light or partial discoloration are visible in the monitor.	Smear occurs when extremely bright light strikes the image sensor. When shooting with <b>Continuous</b> set to <b>Multi-shot 16</b> and when recording movies, avoiding bright objects, such as the sun, reflections of the sun, and electric lights is recommended.	<b>⇔</b> 27, <b>⋩</b> :3
Bright specks appear in images captured with flash.	Flash is reflecting off particles in air. Set the flash mode setting to <b>③</b> ( <b>Off</b> ).	51
Flash does not fire.	<ul> <li>The flash mode is set to ( Off).</li> <li>Some scene modes with which the flash does not function is selected.</li> <li>On is selected for Blink proof in smart portrait menu.</li> <li>Another function that restricts flash is enabled.</li> </ul>	51 55 48 59
Optical zoom cannot be used.	Optical zoom cannot be used while recording movies.	75

Problem	Cause/Solution	Φ
Digital zoom cannot be used.	Digital zoom is set to Off in the setup menu.     Digital zoom is not available in the following situations.     When Continuous is set to Multi-shot 16 in  (auto) mode.     When AF area mode is set to Subject tracking in  (auto) mode.     When Scene auto selector, Portrait, Night portrait, or Pet portrait scene mode is selected.     When shooting in smart portrait mode.	83, <b>6</b> 58 37, <b>6</b> 26 38, <b>6</b> 31 40, 41, 45
<b>Image mode</b> not available.	Another function that restricts the <b>Image mode</b> option is enabled.	57
No sound when shutter is released.	Off is selected for Sound settings>Shutter sound in the setup menu. No sound is heard with some shooting modes and settings, even when On is selected. The speaker is blocked. Do not cover the speaker.	83, <b>6</b> 59
AF-assist illuminator does not light up.	Off is selected for AF assist in the setup menu. AF-assist illuminator may not light depending on the position of the focus area or the current scene mode, even when Auto is selected.	83, <b>6-0</b> 58
Images appear smeared.	Lens is dirty. Clean lens.	<b>\$</b> -6
Colors are unnatural.	White balance does not match light source.	37, 43, <b>6-6</b> 24
Randomly spaced bright pixels ("noise") appear in image.	Shutter speed is too slow or ISO sensitivity is high as the subject is dark. Noise can be reduced by:  Using flash.  Specifying a lower ISO sensitivity setting.	50 37, <b>4-6</b> 28
Randomly spaced bright pixels ("noise") appear in movies.	When recording movies in dim lighting, the image may become somewhat "grainy" in appearance. This occurs when the ISO sensitivity increases, and it does not indicate a malfunction.	-



Problem	Cause/Solution	m
Images are too dark (underexposed).	The flash mode is set to ⑤ (Off). Flash window is blocked. Subject is beyond flash range. Adjust exposure compensation. Increase ISO sensitivity. Subject is backlit. Select Backlighting scene mode or set the flash mode setting to ﴾ (Fill flash).	51 26 50 54 37, <b>28</b> 44, 51
Images are too bright (overexposed).	Adjust exposure compensation.	54
Unexpected results when flash set to \$@ (Auto with red-eye reduction).	When taking pictures with \$\circ (Auto with red-eye reduction) or fill flash with slow sync and red-eye reduction in Night portrait scene mode, In-Camera Red Eye Fix may be applied to areas not affected by red-eye. Use any scene mode other than Night portrait, and change the flash mode to any setting other than \$\circ (Auto with red-eye reduction) and try shooting again.	41,51
Skin tones are not softened.	Under some shooting conditions, facial skin tones may not be softened. Use ☑ (Skin softening) for Glamour retouch in the playback menu for images containing more than three faces.	63, <b>3</b> 4 67, <b>3</b> 13
Saving images takes time.	It may take more time to save images in the following situations.  • When the noise reduction function is in operation.  • When the flash mode is set to \$\iflus (Autowith red-eye reduction).  • When the skin softening function is applied while shooting.	- 51 40, 41, 63,

# Playback

Problem	Cause/Solution	Ш
File cannot be played back.	<ul> <li>File or folder was overwritten or renamed by computer or other make of camera.</li> <li>Movies recorded by a camera other than the COOLPIX S2600 cannot be played back.</li> </ul>	- 78
Cannot zoom in on image.	<ul> <li>Images captured with cameras other than COOLPIX S2600 may not be enlarged.</li> <li>Playback zoom cannot be used with movies, small pictures, or images that have been cropped to a size of 320 x 240 or smaller.</li> </ul>	-
Cannot record or play back voice memos.	Voice memos cannot be attached to movies.     Voice memos cannot be attached to images captured with other cameras. Voice memos attached to images using another camera cannot be played back on this camera.	- 67, <b>◆◆</b> 44
Cannot edit images.	These options cannot be used with movies. These options cannot be used with images captured at an Image mode setting of 4224×2376. Select images that support editing functions. Camera is unable to edit images captured with other cameras.	- 57 67, <b>◆</b> 11 <b>◆</b> 10
Images not displayed on television.	Select correct Video mode.     Memory card contains no images. Replace the memory card. Remove the memory card to play back images from the internal memory.	84, <b>6-6</b> 61 18
Album icon restored to default settings, or images added to album not displayed in favorite pictures mode.	Data in the memory card may not be played back correctly if overwritten by a computer.	-

Problem	Cause/Solution	l m
The recorded images are not displayed in auto sort mode.	The desired image was sorted to a category other than the category currently displayed. Images recorded by a camera other than the COOLPIX S2600 and images copied using the copy option cannot be displayed in auto sort mode. Images recorded in internal memory or on the memory card may not be played back correctly if overwritten by a computer. Up to 999 images or movie files can be added to each category. If the desired category already contains 999 images, new images or movies cannot be added.	66, <b>6</b> 0, <b>6</b>
Nikon Transfer 2 does not start when camera is connected.	<ul> <li>Camera is off.</li> <li>Battery is exhausted.</li> <li>USB cable is not properly connected.</li> <li>Camera is not recognized by the computer.</li> <li>Confirm system requirements.</li> <li>Computer is not set to start Nikon Transfer 2 automatically. For more information on Nikon Transfer 2, refer to help information contained in ViewNX 2.</li> </ul>	21 20 68 - 69 69
The PictBridge startup screen is not displayed when the camera is connected to a printer.	With some PictBridge-compatible printers, the PictBridge startup screen may not be displayed and it may be impossible to print images when <b>Auto</b> is selected for the <b>Charge by computer</b> option in the setup menu. Set the <b>Charge by computer</b> option to <b>Off</b> and reconnect the camera to the printer.	68, <b>6=0</b> 61
Images to be printed are not displayed.	Memory card contains no images. Replace the memory card.     Remove the memory card to print images from the internal memory.	18
Cannot select paper size with camera.	Paper size cannot be selected from the camera in the following situations, even when printing from a PictBridge-compatible printer:  The printer does not support the paper size specified by the camera.  The printer automatically selects the paper size.	68, <b>←</b> 20, <b>←</b> 21

# **Specifications**

### Nikon COOLPIX S2600 Digital Camera

Type	Compact digital camera
Effective pixels	14.0 million
Image sensor	<sup>1</sup> /2.3-in. type CCD; total pixels: approx. 14.48 million
Lens	5× optical zoom, NIKKOR lens
Focal length	4.6–23.0mm (angle of view equivalent to that of 26–130 mm lens in 35mm [135] format)
f/-number	f/3.2-6.5
Construction	6 elements in 5 groups
Digital zoom	Up to 4x (angle of view equivalent to that of approx. 520 mm lens in 35mm [135] format)
Vibration reduction	Electronic VR
Autofocus (AF)	Contrast-detect AF
Focus range (from lens)	<ul> <li>[W]:Approx. 50 cm (1 ft 8 in.) to ∞,</li> <li>[T]: Approx. 80 cm (2 ft 8 in.) to ∞</li> <li>Macro mode: Approx. 10 cm (4 in.) (wide-angle position) to ∞</li> </ul>
Focus-area selection	Face priority, auto (9-area automatic selection), center, manual with 99 focus areas, subject tracking
Monitor	6.7-cm (2.7-in.), approx. 230k-dot, TFT LCD, and 5-level brightness adjustment
Frame coverage (shooting mode)	Approx. 97% horizontal and 97% vertical (compared to actual image)
Frame coverage (playback mode)	Approx. 100% horizontal and 100% vertical (compared to actual image)
Storage	
Media	<ul><li>Internal memory (approx. 39 MB)</li><li>SD/SDHC/SDXC memory card</li></ul>
File system	DCF, Exif 2.3, and DPOF compliant
File formats	Still images: JPEG Sound files (Voice Memo): WAV Movies: AVI (Motion-JPEG compliant)
Image size (pixels)	<ul> <li>14M (high image quality) [4320 × 3240★]</li> <li>14M [4320 × 3240]</li> <li>8M [3264 × 2448]</li> <li>4M [2272 × 1704]</li> <li>2M [1600 × 1200]</li> <li>VGA [640 × 480]</li> <li>16:9 [4224 × 2376]</li> </ul>

ISO sensitivity (Standard output sensitivity)	<ul> <li>ISO 80, 100, 200, 400, 800, 1600, 3200</li> <li>Auto (auto gain from ISO 80 to 1600)</li> <li>Fixed range auto (ISO 80 to 400, 80 to 800)</li> </ul>
Exposure	
Metering	256-segment matrix, center-weighted (digital zoom less than 2x), spot (digital zoom 2x or more)
Exposure control	Programmed auto exposure with motion detection and exposure compensation (–2.0 to +2.0 EV in steps of <sup>1</sup> / <sub>3</sub> EV)
Shutter	Mechanical and charge-coupled electronic shutter
Speed	1/2000–1 s 4 s (when scene mode is set to <b>Fireworks show</b> )
Aperture	Electronically-controlled ND filter (–2.6 AV) selection
Range	2 steps (f/3.2 and f/8 [W])
Self-timer	Can be selected from 10 and 2 second durations
Built-in flash	i
Range (approx.) (ISO sensitivity: <b>Auto</b> )	[W]: 0.5 to 4.5 m (1 ft 8 in. to 14 ft) [T]: 0.5 to 2.2 m (1 ft 8 in. to 7 ft 2 in.)
Flash control	TTL auto flash with monitor preflashes
Interface	Hi-Speed USB
Data Transfer Protocol	MTP, PTP
Video output	Can be selected from NTSC and PAL
I/O terminal	Audio video output/digital I/O (USB)
Supported languages	Arabic, Chinese (Simplified and Traditional), Czech, Danish, Dutch, English, Finnish, French, German, Greek, Hindi, Hungarian, Indonesian, Italian, Korean, Norwegian, Polish, Portuguese (European and Brazilian), Romanian, Russian, Spanish, Swedish, Thai, Turkish, Ukrainian, Vietnamese
Power sources	One Rechargeable Li-ion Battery EN-EL19 (included) AC Adapter EH-62G (available separately)
Charging time	Approx. 2 h 10 min (when using Charging AC Adapter EH-69P and when no charge remains)
Battery life (EN-EL19)	Still images*: Approx. 220 shots Movies: Approx. 1 h 35 min (HD 720p (1280×720), the maximum file size for a single movie is 2 GB or the maximum recording time for a single movie is 29 minutes, even when there is sufficient free space on the memory card for longer recording.)
Tripod socket	1/4 (ISO 1222)
Dimensions $(W \times H \times D)$	Approx. 93.8 $\times$ 58.4 $\times$ 19.5 mm (3.7 $\times$ 2.3 $\times$ 0.8 in.) (excluding projections)



Weight		Approx. 121 g (4.3 oz) (with battery and SD memory card)
Operating environment		
	Temperature	0°C to 40°C (32°F to 104°F)
	Humidity	Less than 85% (no condensation)

- Unless otherwise stated, all figures are for a camera with a fully-charged Rechargeable Li-ion Battery EN-EL19 operated at an ambient temperature of 25°C (77°F).
- \* Based on Camera and Imaging Products Association (CIPA) standards for measuring the life of camera batteries. Measured at 23 (±2) °C (73 (±4) °F); zoom adjusted with each shot, flash fired with every other shot, image mode set to 420×3240. Battery life may vary depending on shooting interval and length of time menus and images are displayed.

### **Rechargeable Li-ion Battery EN-EL19**

Type	Rechargeable lithium-ion battery
Rated capacity	DC 3.7 V, 700 mAh
Operating temperature	0°C to 40°C (32°F to 104°F)
Dimensions $(W \times H \times D)$	Approx. 31.5 $\times$ 39.5 $\times$ 6 mm (1.3 $\times$ 1.6 $\times$ 0.3 in.) (excluding projections)
Weight	Approx. 14.5 g (0.5 oz) (excluding battery case)

#### **Charging AC Adapter EH-69P**

Rated input	AC 100-240 V, 50/60 Hz, 0.068-0.042 A		
Rated output	DC 5.0 V, 550 mA		
Operating temperature	0°C to 40°C (32°F to 104°F)		
Dimensions $(W \times H \times D)$	Approx. $55 \times 22 \times 54$ mm (2.2 × 0.9 × 2.2 in.) (excluding plug adapter) For Argentina: Approx. $55 \times 59 \times 63$ mm (2.2 × 2.4 × 2.5 in.) For Korea: Approx. $55 \times 59 \times 66.5$ mm (2.2 × 2.4 × 2.7 in.)		
Weight	Approx. 55 g (2.0 oz) (excluding plug adapter) For Argentina and Korea: Approx. 80 g (2.9 oz)		

# **Specifications**

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



### **Supported Standards**

- **DCF**: Design Rule for Camera File System is a standard widely used in the digital camera industry to ensure compatibility among different makes of camera.
- **DPOF**: Digital Print Order Format is an industry-wide standard that allows images to be printed from print orders stored on memory cards.
- Exif version 2.3: This camera supports Exchangeable image file format (Exif) version 2.3 for digital still cameras, a standard that allows information stored with photographs to be used for optimal color reproduction when images are output from Exif-compliant printers.
- **PictBridge**: A standard developed cooperatively by the digital camera and printer industries, allowing photographs to be output directly to a printer without connecting the camera to a computer.

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