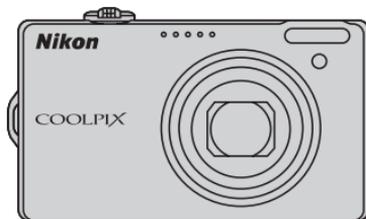


**Nikon**

DIGITAL CAMERA

# COOLPIX S6000

## User's Manual



En

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See <http://www.mpegla.com>.

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<b>Basic Photography and Playback: 📷 (Auto) Mode</b>	
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## For Your Safety

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



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 Nikon-authorized 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 care**

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

#### **Keep out of reach of children**

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

### **Observe caution when handling the battery**

The battery may leak 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-EL12 (supplied). Charge the battery inserted into the camera by connecting the Charging AC Adapter EH-68P/EH-68P (AR) (supplied).
- 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.
- Replace the terminal cover when transporting the battery. 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 Nikon-authorized 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 DC-to-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 care**

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

**⚠ CD-ROMs**

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

**⚠ Observe caution when 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 1 m (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

### **Notice for Customers in the U.S.A.**

#### **Federal Communications Commission (FCC) Radio Frequency Interference Statement**

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

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

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



**Nikon**  
COOLPIX S6000

### **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 ICES-003.

### **ATTENTION**

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

## **Notice for customers in Europe**

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



The following apply only to users in European countries: 

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

This symbol on the battery indicates that the battery is to be collected separately.



The following apply only to users in European countries:

- 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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# About This Manual

Thank you for your purchase of a Nikon COOLPIX S6000 digital camera. This manual was written to help you enjoy taking pictures with your Nikon digital camera. Read this manual thoroughly before use, and keep it where all those who use the product will read it.

## Symbols and Conventions

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



This icon marks cautions, information that should be read before use, to prevent damage to the camera.



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



This icon marks notes, information that should be read before using the camera.



This icon indicates that more information is available elsewhere in this manual.

## Notations

- A Secure Digital (SD) memory card is referred to as a “memory card.”
- 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.

## Screen Samples

In this manual, images are sometimes omitted from monitor display samples so that monitor indicators can be more clearly shown.

## Illustrations and Screen Display

Illustrations and text displays shown in this manual may differ from actual display.

## Internal Memory and Memory Cards

Pictures taken with this camera can be stored in the camera’s internal memory or on removable memory cards. If a memory card is inserted, all new pictures will be stored on the memory card and delete, playback, and format operations will apply only to the pictures on the memory card. The memory card must be removed before the internal memory can be formatted or accessed for picture storage, deletion, or viewing.

# 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

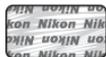
Nikon COOLPIX cameras are designed to the highest standards and include complex electronic circuitry. Only Nikon brand electronic accessories (including battery charger, batteries, Charging AC Adapter, and AC adapters) certified by Nikon specifically for use with this Nikon digital camera are engineered 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 Pictures

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

## About the Manuals

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- 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 these manuals is accurate and complete, we would appreciate it were you to bring any errors or omissions to the attention of the Nikon representative in your area (address provided separately).

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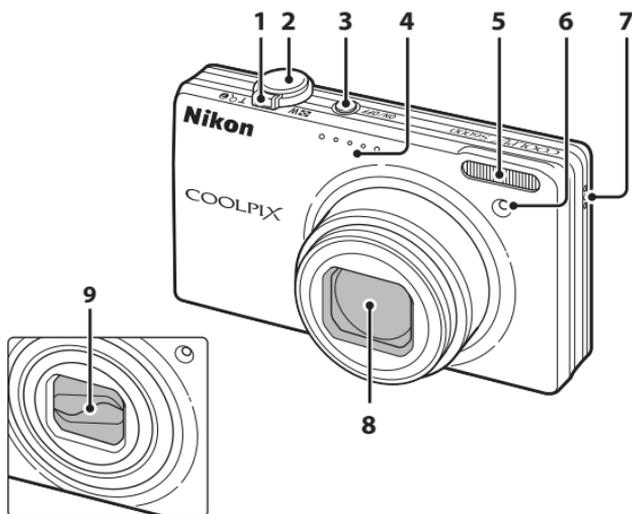
## Disposing of Data Storage Devices

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

Before discarding a data storage device or transferring ownership to another person, erase all data using commercial deletion software, or format the device and then completely refill it with images containing no private information (for example, pictures of empty sky). Be sure to also replace any pictures selected for the **Select an image** option in the **Welcome screen** setting (📖 123). Care should be taken to avoid injury or damage to property when physically destroying data storage devices.

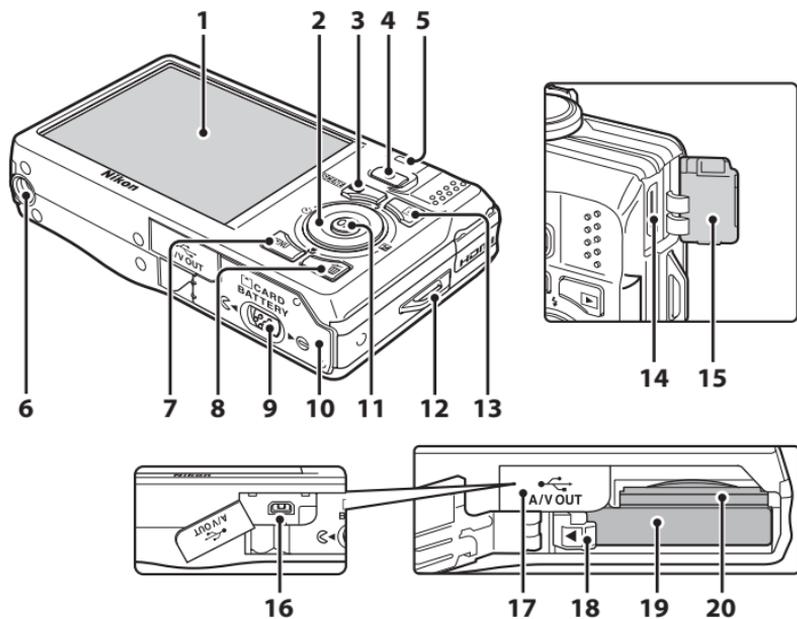
# Parts of the Camera

## The Camera Body



**Lens cover closed**

<b>1</b>	Zoom control.....25	<b>4</b>	Microphone (stereo).....90, 100
	<b>W</b> : wide.....25	<b>5</b>	Built-in flash.....30
	<b>T</b> : tele.....25	<b>6</b>	Self-timer lamp.....32
	 : thumbnail playback..... 71, 73	<b>6</b>	AF-assist illuminator..... 131
	 : playback zoom.....74	<b>7</b>	Speaker.....91, 105
	 : help..... 11	<b>8</b>	Lens..... 144, 157
<b>2</b>	Shutter-release button..... 11, 26	<b>9</b>	Lens cover
<b>3</b>	Power switch/power-on lamp ..... 17, 133		



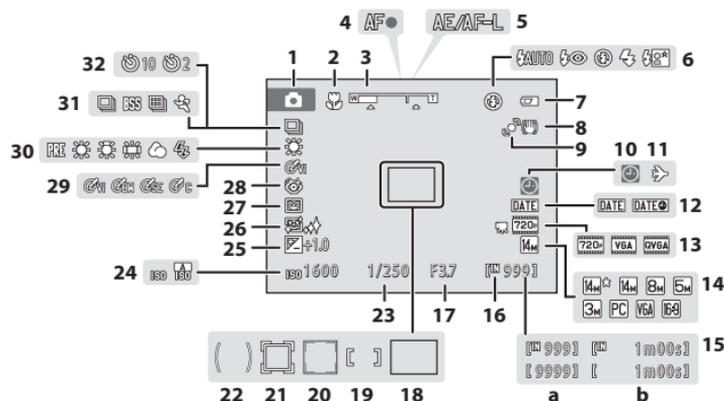
- |           |   |                      |           |   |                   |
|-----------|---|----------------------|-----------|---|-------------------|
| <b>1</b>  | Monitor .....                                   | 6, 23                | <b>11</b> | <b>OK</b> (apply selection) button..... | 9                 |
| <b>2</b>  | Rotary multi selector.....                      | 9                    | <b>12</b> | Eyelet for camera strap.....            | 11                |
| <b>3</b>  | <b>⏎</b> (shooting mode) button .....           | 8, 35                | <b>13</b> | <b>▶</b> (playback) button .....        | 8, 28, 75         |
| <b>4</b>  | <b>●</b> (movie-record) button .....            | 8, 100               | <b>14</b> | HDMI mini connector.....                | 106               |
| <b>5</b>  | Charge lamp .....                               | 15, 113              | <b>15</b> | HDMI connector cover .....              | 106               |
|           | Flash lamp .....                                | 31                   | <b>16</b> | USB/audio/video output connector .....  | 14, 106, 109, 115 |
| <b>6</b>  | Tripod socket                                   |                      | <b>17</b> | Connector cover.....                    | 14, 106, 109, 115 |
| <b>7</b>  | <b>☰</b> MENU button.....                       | 10, 36, 82, 102, 121 | <b>18</b> | Battery latch .....                     | 12, 13            |
| <b>8</b>  | <b>🗑</b> (delete) button.....                   | 28, 29, 91, 105      | <b>19</b> | Battery chamber .....                   | 12                |
| <b>9</b>  | Cover latch.....                                | 12, 20               | <b>20</b> | Memory card slot .....                  | 20                |
| <b>10</b> | Battery-chamber/<br>memory card slot cover..... | 12, 20               |           |   |                   |

## The Monitor

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

The indicators that appear in the monitor during shooting and playback disappear after a few seconds (📖 127).

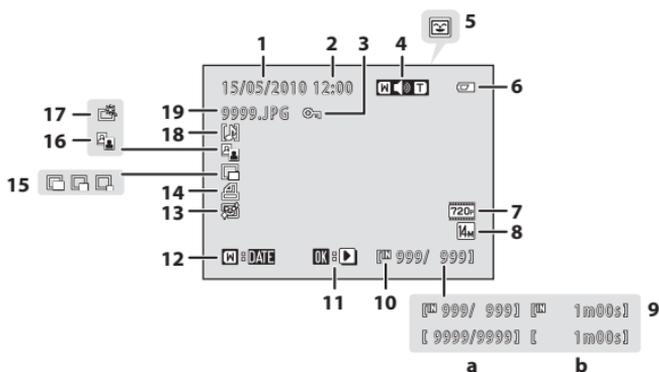
### Shooting



<b>1</b>	Shooting mode*.....	22, 51, 63, 66	<b>17</b>	Aperture.....	26
<b>2</b>	Macro mode .....	33	<b>18</b>	Focus area (auto).....	26, 45
<b>3</b>	Zoom indicator .....	25, 33	<b>19</b>	Focus area (for manual or center) ....	45
<b>4</b>	Focus indicator.....	26	<b>20</b>	Focus area (face priority) .....	45, 63
<b>5</b>	AE/AF-L indicator.....	62	<b>21</b>	Focus area (subject tracking mode).....	66
<b>6</b>	Flash mode .....	30	<b>22</b>	Center-weighted metering area .....	41
<b>7</b>	Battery level indicator .....	22	<b>23</b>	Shutter speed.....	26
<b>8</b>	Vibration reduction icon .....	23, 129	<b>24</b>	ISO sensitivity.....	31, 43
<b>9</b>	Motion detection icon.....	23, 130	<b>25</b>	Exposure compensation value.....	34
<b>10</b>	"Date not set" indicator.....	124, 147	<b>26</b>	Skin softening.....	65
<b>11</b>	Travel destination icon.....	124	<b>27</b>	Smile timer .....	65
<b>12</b>	Date imprint.....	128	<b>28</b>	Blink proof icon .....	65
<b>13</b>	Movie options.....	103	<b>29</b>	Color options .....	44
<b>14</b>	Image mode .....	37	<b>30</b>	White balance mode .....	39
<b>15</b>	(a) Number of exposures remaining (still pictures).....	22	<b>31</b>	Continuous shooting mode .....	42
	(b) Movie length.....	100	<b>32</b>	Self-timer indicator .....	32
<b>16</b>	Internal memory indicator .....	23			

\* Differs according to the current shooting mode.

## Playback



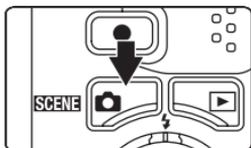
<b>1</b>	Date of recording .....	18	<b>10</b>	Internal memory indicator .....	28
<b>2</b>	Time of recording .....	18	<b>11</b>	Movie playback indicator .....	105
<b>3</b>	Protect icon .....	89	<b>12</b>	List by date guide .....	79
<b>4</b>	Volume indicator .....	91, 105	<b>13</b>	Skin softening icon .....	97
<b>5</b>	Category icon in auto sort mode <sup>1</sup> .....	76	<b>14</b>	Print set icon .....	83
<b>6</b>	Battery level indicator .....	22	<b>15</b>	Small picture icon .....	98
<b>7</b>	Movie options <sup>2</sup> .....	105	<b>16</b>	D-Lighting icon .....	96
<b>8</b>	Image mode <sup>2</sup> .....	37	<b>17</b>	Quick retouch icon .....	95
<b>9</b>	(a) Current frame number/ total number of frames .....	28	<b>18</b>	Voice memo indicator .....	91
	(b) Movie length .....	105	<b>19</b>	File number and type .....	146

<sup>1</sup> The icon for the selected category in auto sort mode in playback mode is displayed.

<sup>2</sup> Differs according to the settings configured during shooting.

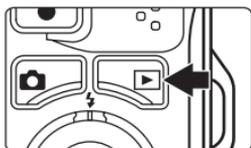
## Basic Operations

### The (Shooting Mode) Button



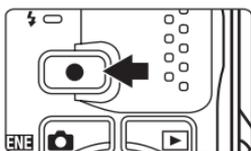
- Press the  button in playback mode to enter shooting mode.
- Press the  button in shooting mode to display the shooting-mode selection menu and switch shooting modes ( 35).

### The (Playback) Button



- Press the  button in shooting mode to enter playback mode.
- Press the  button in playback mode to display the playback-mode selection menu and switch playback modes ( 75).
- When the camera is off, holding down the  button will turn the camera on in playback mode.

### The (Movie-record) Button



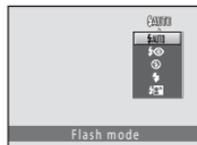
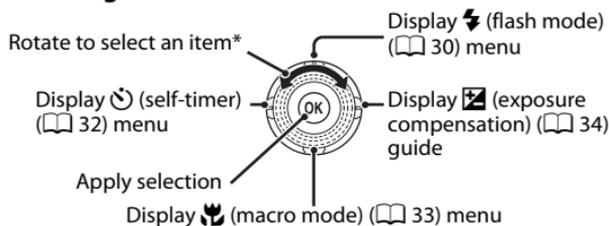
- Press the  (movie-record) button in shooting mode to start movie recording ( 100). Press the  (movie-record) button again to stop movie recording.
- Press the  (movie-record) button in playback mode to enter shooting mode.

## The Rotary Multi Selector

This section describes standard uses of the rotary multi selector to select modes, select menu options, and apply selections.

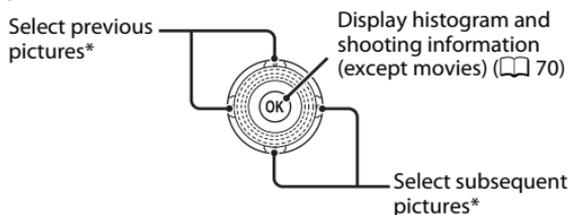
Press the rotary multi selector up, down, left, or right or rotate it to select options, or press the **OK** (apply selection) button.

### Shooting



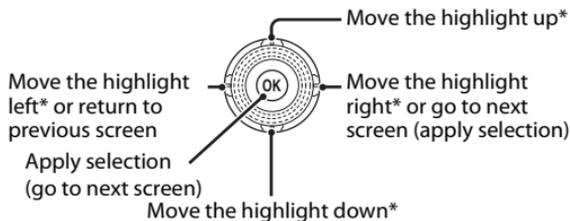
\* Items can also be selected by pressing the rotary multi selector up or down.

### Playback



\* Previous or subsequent pictures can also be selected by rotating the rotary multi selector.

### Menu Screen

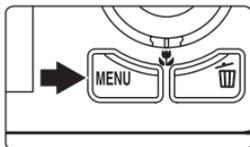


\* The highlight can also be moved by rotating the rotary multi selector.

### Note on the Rotary Multi Selector

In this manual, , , , and are used in some cases to indicate up, down, left, and right rotary multi selector operations.

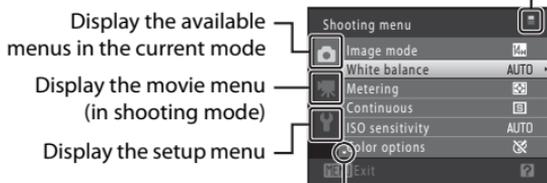
## The MENU Button



Press the **MENU** button to display the menu for the selected mode.

- Use the rotary multi selector to navigate the menus (9).
- Choose a tab on the left to switch to the menu of the selected tab.
- Press the **MENU** button again to exit the menu.

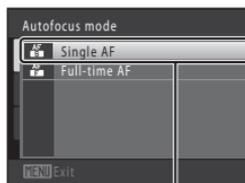
Displayed when the menu contains two or more pages



Displayed when there are one or more menu items to follow

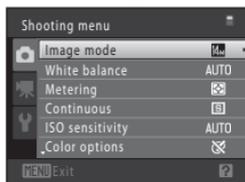


Choose a menu item and press the **OK** button or the rotary multi selector **▶** to display the set of options

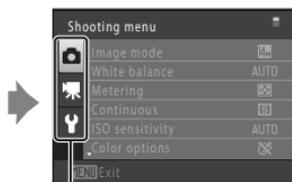


Press the **OK** button or the rotary multi selector **▶** to apply selection

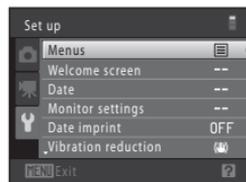
## Switching Between Tabs



Press the rotary multi selector **◀** to highlight the tab



Press the rotary multi selector **▲** or **▼** to select a tab, and press either the **OK** button or **▶**

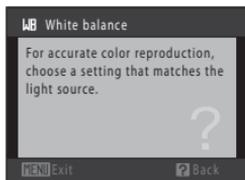
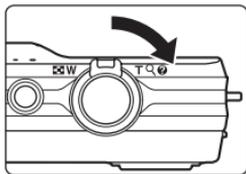


The selected menu is displayed

## Help Displays

Rotate the zoom control to **T** (🔍) when **?/🔍** is displayed at the bottom of the menu screen to view a description of the currently selected menu option.

To return to the original menu, rotate the zoom control to **T** (🔍) again.



## The Shutter-release Button

The camera features a two-stage shutter-release button. To set focus and exposure, press the shutter-release button halfway, stopping when you feel resistance. Focus and exposure lock while the shutter-release button is held in this position. To release the shutter and take a picture, press the shutter-release button the rest of the way down.

Do not use force when pressing the shutter-release button, as this may result in camera shake and blurred pictures.

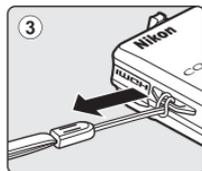
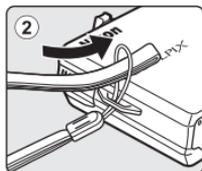
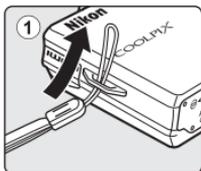


Press the shutter-release button halfway to set focus and exposure.



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

## Attaching the Camera Strap



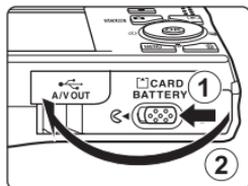
## Inserting the Battery

Insert a Rechargeable Li-ion Battery EN-EL12 (supplied) into the camera.

- Charge the battery before the first use or when the battery is running low (📖 14).

### 1 Open the battery-chamber/memory card slot cover.

Slide the cover latch to  side (①) and open the cover (②).

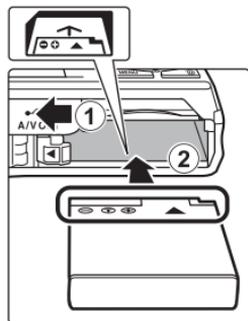


### 2 Insert the battery.

Confirm that the battery's positive (+) and negative (-) terminals are oriented correctly as shown on the label at the battery chamber opening, and insert the battery.

Use the edge of 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 fully inserted, the battery latch will lock it in place.



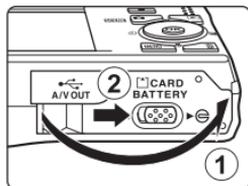
### ✔ Inserting the Battery

**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.

Close the cover (①) and slide the cover latch (②) to  side.

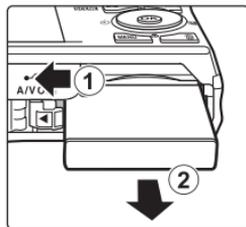


## Removing the Battery

Turn the camera off (📖 17) and be sure that the power-on lamp and the monitor have turned off before opening the battery-chamber/memory card slot cover.

To eject the battery, open the battery-chamber/memory card slot cover and slide the orange battery latch in the direction indicated by the arrow (①). The battery can then be removed by hand (②).

- Note that the battery may become hot during use; observe due caution when removing the battery.



### ✓ Notes on the Battery

- Be sure to read and follow the warnings for the battery on page iii and the section, “The Battery” (📖 143), before use.
- If the battery will not be used for an extended period, recharge it at least once every six months and run it flat before returning it to storage.

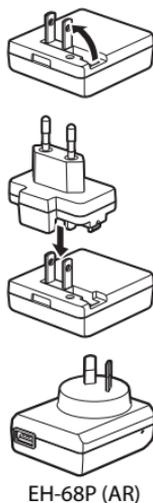
# Charging the Battery

Charge the supplied Rechargeable Li-ion Battery EN-EL12 inserted into the camera, by connecting the supplied Charging AC Adapter EH-68P to the camera via the supplied USB Cable UC-E6, and then plugging the Charging AC Adapter into an electrical outlet.

## 1 Prepare the Charging AC Adapter EH-68P.

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.



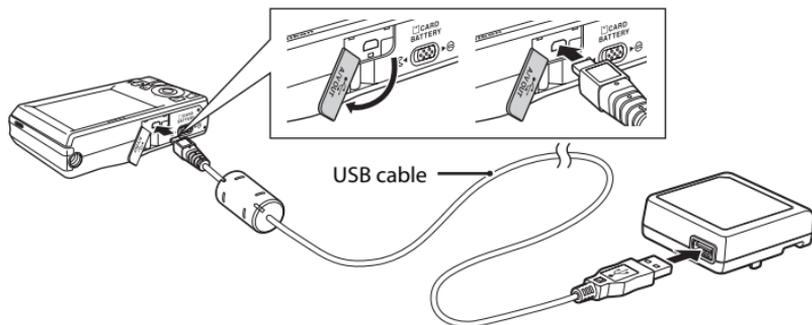
### For Customers in Argentina

If the camera was purchased in Argentina, the shape of the Charging AC Adapter EH-68P (AR) differs from that supplied in other countries, and a plug adapter is not included. Proceed to step 2.

## 2 Be sure that the power-on lamp and the monitor are off.

Be sure to insert the battery into the camera (📖 12) and turn off the camera (📖 17).

## 3 Use the supplied USB cable to connect the Charging AC Adapter to the camera.



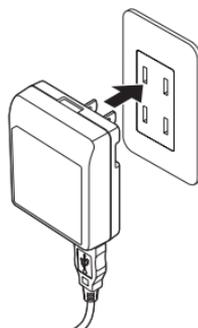
### ✓ Connecting the Cable

When connecting the cable, be sure that the 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.

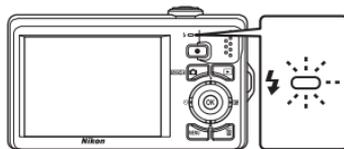
## 4 Plug the Charging AC Adapter into an electrical outlet.

The charge lamp slowly blinks green to indicate that the battery is charging.

About four hours are required to charge a fully exhausted battery.



The following chart explains charge lamp status when the camera is plugged into the electrical outlet.



Charge lamp	Description
Blinks slowly (green)	Battery charging.
Off	Battery not charging. When charging is complete, the charge lamp stops blinking green and turns off.
Flickers (green)	<ul style="list-style-type: none"> <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>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.</li> </ul>

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

## Charging the Battery

### Notes on Charging AC Adapter

- The Charging AC Adapter EH-68P is for use only with compatible devices. Do not use with another make or model of device.
- Be sure to read and follow the warnings for the Charging AC Adapter on page iii and the section, “The Battery” (📖 143), before use.
- The EH-68P 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.
- The Charging AC Adapter EH-68P is for charging the battery inserted into the camera. When the camera is connected to an electrical outlet with the Charging AC Adapter, the camera cannot be turned on.
- Do not, under any circumstances, use another make or model of AC adapter other than Charging AC Adapter EH-68P or USB-AC adapter. Failure to observe this precaution could result in overheating or in damage to the camera.

### AC Power Source

- If the AC Adapter EH-62F (available separately; 📖 145) is used, power is supplied to the camera from an electrical outlet and taking pictures and playing back pictures are available with this camera.
- Do not, under any circumstances, use another make or model of AC adapter other than EH-62F. Failure to observe this precaution could result in overheating or in damage to the camera.

### Charging Using Computer or Battery Charger

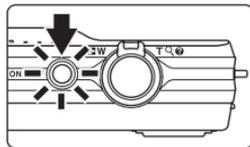
- Connecting the COOLPIX S6000 to a computer also charges the Rechargeable Li-ion Battery EN-EL12 (📖 108, 136).
- Rechargeable Li-ion Battery EN-EL12 can also be charged using the Battery Charger MH-65 (available separately; 📖 145).

## Turning On and Off the Camera

To turn on the camera, press the power switch. The power-on lamp (green) will light for a moment and the monitor will turn on.

To turn off the camera, press the power switch again. When the camera is turned off, both the power-on lamp and monitor will turn off.

If the camera is turned off, hold down the  button to turn the camera on in playback mode ( 29).



### Power Saving Function (Auto Off)

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

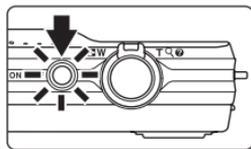
- If no operations are performed for about a minute (default setting) in shooting or playback mode, the camera will enter standby mode.
- When the monitor has turned off in standby mode (the power-on lamp is blinking), press the following button to reactivate it.
  - Power switch, shutter-release button,  button,  button, or  (movie-record) button
- The time allowed to elapse before the camera enters standby mode can be changed from the **Auto off** option ( 133) in the setup menu ( 120).

# Setting Display Language, Date, and Time

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

## 1 Press the power switch to turn on the camera.

The power-on lamp (green) will light for a moment and the monitor will turn on.



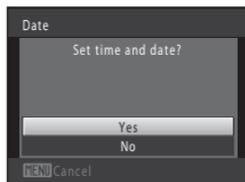
## 2 Use the rotary multi selector to choose the desired language and press the **OK** button.

For information on using the rotary multi selector, see "The Rotary Multi Selector" (📖 9).

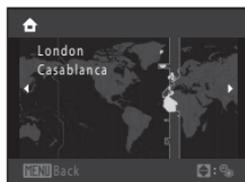


## 3 Choose **Yes** and press the **OK** button.

If **No** is selected, the date and time will not be set.



## 4 Press the rotary multi selector **◀** or **▶** to select your home time zone (📖 126) and press the **OK** button.



## Daylight Saving Time

If daylight saving time is in effect, press the rotary multi selector **▲** in the time zone selection screen displayed in step 4 to turn on the daylight saving time option.

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



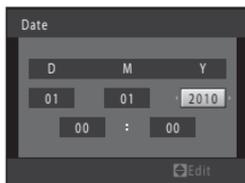
**5** Edit the date and time.

Rotate the rotary multi selector, or press ▲ or ▼ to edit the highlighted item.

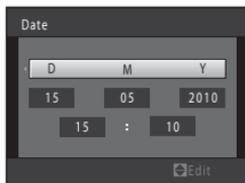
Press ► to move the highlight in the following order.

**D** (day) → **M** (month) → **Y** (year) → hour → minute → **DMY** (the order in which the day, month, and year are displayed)

Press ◀ to return to the previous item.

**6** Choose the order in which the day, month, and year are displayed and press the OK button or press ►.

The settings are applied and monitor display exits to shooting mode.

**Changing and Imprinting the Date and Time**

- Select **Date** from the **Date** item (📖 124) in the setup menu (📖 120) to change the current date and time and follow the procedure described from step 5.
- Select **Time zone** from the **Date** item in the setup menu to change the time zone and daylight saving time settings (📖 124).
- To imprint the date on pictures, enable date imprint from the **Date imprint** option (📖 128) in the setup menu after the date and time have been set.

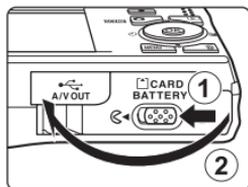
# Inserting Memory Cards

Image, sound, and movie files are stored in the camera's internal memory (approximately 32 MB) or on removable Secure Digital (SD) memory cards (available commercially;  145).

**If a memory card is inserted in the camera, data are automatically stored on the memory card and data recorded to the memory card can be played back, deleted, or transferred. Remove the memory card to store data in the internal memory, or play back, delete, or transfer data from the internal memory.**

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

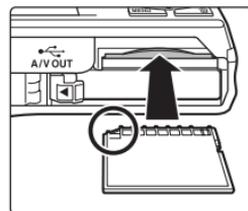
Be sure to turn off the camera before opening the battery-chamber/memory card slot cover.



- 2** Insert the memory card.

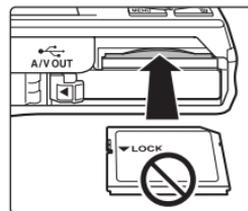
Slide the memory card in the correct orientation shown at right until it clicks into place.

Close the battery-chamber/memory card slot cover.



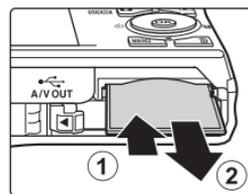
## Inserting Memory Cards

**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.



## Removing Memory Cards

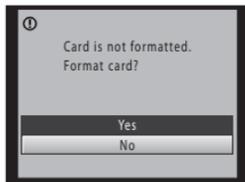
Before removing memory cards, turn the camera off and confirm that the power-on lamp and monitor are off. Open the battery-chamber/memory card slot cover and press the card in (1) to partially eject the card. The card can then be removed by hand. Do not attempt to remove the card at an angle (2).



## ✓ Formatting Memory Cards

If the message at right is displayed when the camera is turned on, the memory card must be formatted before use (📖 134). Note that **formatting permanently deletes all pictures and other data on the memory card**. Be sure to make copies of any pictures you wish to keep before formatting the memory card.

When formatting the memory card, use the rotary multi selector to choose **Yes** and press the **OK** button. The confirmation dialog will be displayed. To start formatting, choose **Format** and press the **OK** button.

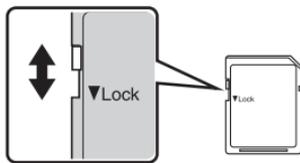


- Do not turn the camera off or open the battery-chamber/memory card slot cover until formatting is complete.
- Be sure to use this camera to format memory cards previously used in other devices the first time they are inserted into the COOLPIX S6000 (📖 134).

## ✓ The Write Protect Switch

Memory cards are equipped with a write protect switch. When this switch is in the “lock” position, data cannot be written to, or deleted from, the memory card. If the switch is in the “lock” position, unlock it by sliding the switch to the “write” position to record or delete pictures, or to format the memory card.

Write protect switch



## ✓ Memory Cards

- Use only Secure Digital memory cards.
- 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:
  - Take out the battery or memory card
  - Turn off the camera
  - Disconnect the AC adapter
- Do not format the memory card using a computer.
- Do not disassemble or modify.
- Do not drop, bend, or expose to water or strong physical shock.
- Do not touch the metal terminals with your fingers or metal objects.
- Do not affix labels or stickers to the memory card.
- Do not leave in direct sunlight, closed vehicles, or areas exposed to high temperatures.
- Do not expose to humidity, dust, or corrosive gases.

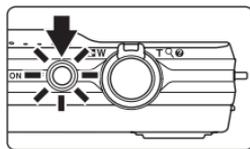
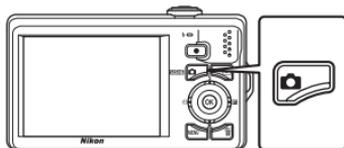
**Step 1 Turn the Camera On and Select  (Auto) Mode**

This section describes taking pictures in  (auto) mode, an automatic, “point-and-shoot” mode recommended for first-time users of digital cameras.

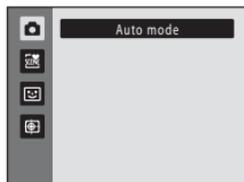
**1 Press the power switch to turn on the camera.**

The power-on lamp (green) will light for a moment and the monitor will turn on. The lens will also extend.

Proceed to step 4 when  is displayed.

**2 Press the  button to display the shooting menu.****3 Use the rotary multi selector to choose  and press the .**

The camera enters  (auto) mode.

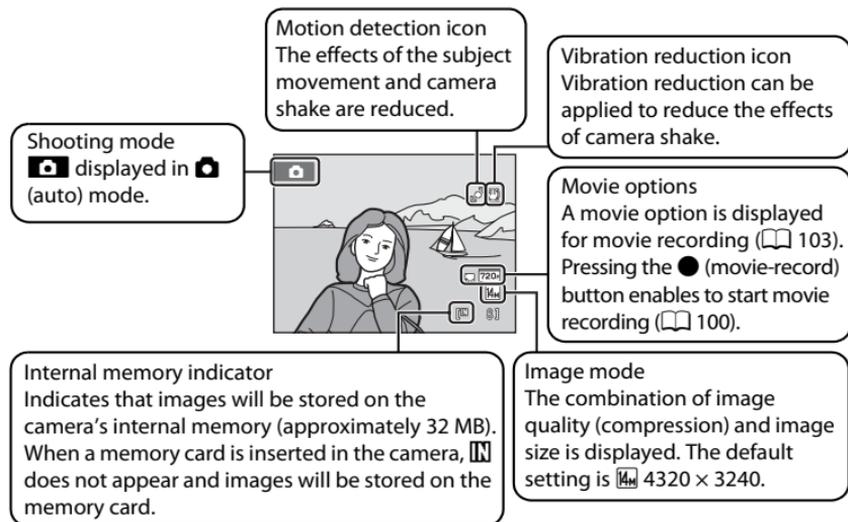
**4 Check the battery level and the number of exposures remaining.****Battery Level**

Monitor	Description
NO INDICATOR	Battery fully charged.
	Battery low. Prepare to charge or replace the battery.
 Battery exhausted.	Cannot take pictures. Recharge or replace with a fully charged battery.

**Battery level indicator****Number of exposures remaining****Number of Exposures Remaining**

The number of pictures that can be stored depends on the capacity of the internal memory or memory card and image mode setting ( 37).

## Indicators Displayed in (Auto) Mode



- The indicators and photo info displayed during shooting and playback will turn off after a few seconds (📖 127).
- When the monitor has turned off in standby mode to save power, press the following button to reactivate it (📖 133).
  - Power switch, the shutter-release button,  button, or  (movie-record) button

## Functions Available in (Auto) Mode

- The flash mode (📖 30) can be adjusted, the self-timer (📖 32), macro mode (📖 33), and the exposure compensation (📖 34) can be applied.
- Press the **MENU** button to specify settings for all shooting menu items (📖 36) according to shooting conditions.

## Vibration Reduction and Motion Detection

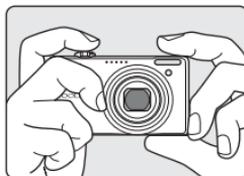
- See **Vibration reduction** (📖 129) or **Motion detection** (📖 130) in the setup menu (📖 120) for more information.
- Set **Vibration reduction** to **Off** when using a tripod to stabilize the camera during shooting.

## Step 2 Frame a Picture

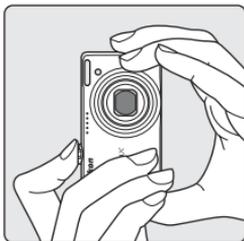
### 1 Ready the camera.

Hold the camera steadily in both hands.

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



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



### 2 Frame the picture.

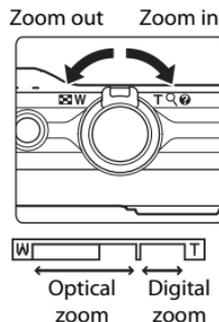
Frame the picture so that the intended subject is at or near the center of the frame.



## Using the Zoom

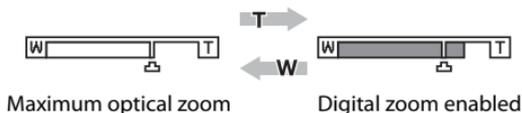
Use the zoom control to activate optical zoom. Rotate the zoom control to **T** to zoom in so that the subject fills a larger area of the frame, or **W** to zoom out, thus increasing the area visible in the frame.

A zoom indicator is displayed at the top of the monitor when the zoom control is rotated.



## Digital Zoom

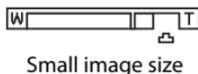
When the camera is zoomed in to the maximum optical zoom position, rotating and holding the zoom control at **T** triggers digital zoom. The subject is magnified up to 2x the maximum optical zoom ratio. The camera focuses at the center of the frame and the focus area is not displayed when digital zoom 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 picture quality according to the image mode (📖 37) and digital zoom magnification.

Interpolation is applied at zoom positions beyond  when taking still pictures. When zoom is increased beyond the  position, interpolation is initiated and the zoom indicator turns yellow to indicate that interpolation is being applied. The position of  moves to the right as image size decreases, allowing for confirmation of the zoom positions at which shooting without interpolation is possible at the current image mode setting.



Digital zoom can be disabled from the **Digital zoom** option (📖 131) in the setup menu (📖 120).

## Step 3 Focus and Shoot

### 1 Press the shutter-release button halfway.

Focus is locked when the shutter-release button is pressed halfway (📖 11).

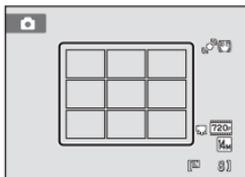
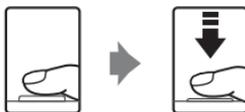
The camera automatically selects the focus area (up to nine areas) containing the subject closest to the camera. When the subject is in focus, the active focus area glows green.

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 (📖 6) glows green.

When the shutter-release button is pressed halfway, the shutter speed and aperture values also appear.

Focus and exposure remain locked while the shutter-release button is pressed halfway.

While the shutter-release button is pressed halfway, the focus area or focus indicator may blink red. This indicates that the camera is unable to focus. Modify the composition and press the shutter-release button halfway again.



Shutter speed Aperture

### 2 Press the shutter-release button the rest of the way down.

The shutter is released and the picture will be recorded to the memory card or internal memory.



### ✓ During Recording

While pictures are being recorded, the number of exposures remaining will blink. **Do not open the battery-chamber/memory card slot cover** while pictures are being recorded. Cutting power or removing the memory card in these circumstances could result in loss of data or in damage to the camera or card.

### ✓ 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)
- 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 and use focus lock (📖 46). 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.

### ✍ AF-assist Illuminator and Flash

If the subject is dimly lit, the AF-assist illuminator (📖 131) may light when the shutter-release button is pressed halfway, or the flash (📖 30) may fire when the shutter-release button is pressed all the way down.

## Step 4 Playing Back and Deleting Pictures

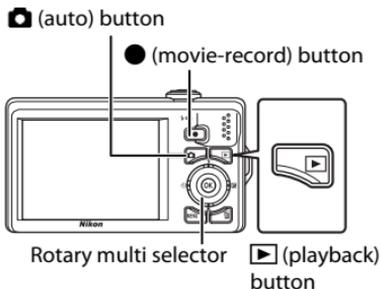
### Playing Back Pictures (Playback Mode)

Press the  (playback) button.

The last picture taken will be displayed in full-frame playback mode.

Rotate the rotary multi selector, or press , , , or  to view previous or subsequent pictures (see page 9).

Press the  button, the shutter-release button, or  (movie-record) button to switch to shooting mode.



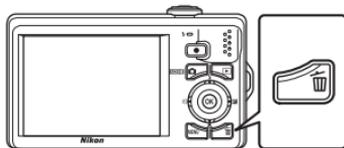
When playing back pictures stored in the camera's internal memory,  is displayed. When a memory card is inserted in the camera,  is not displayed and images stored on the memory card are played back.



Internal memory indicator

### Deleting Pictures

- 1 Press the  button to delete the picture currently displayed in the monitor.



- 2 Use the rotary multi selector to select **Yes** and press the  button.

Deleted pictures cannot be restored.

To exit without deleting the picture, select **No** and press the  button.

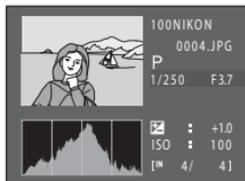


## Operations Available in Playback Mode

See “More on Playback” (📖 69) or “Editing Pictures” (📖 93) for more information.

## Displaying Shooting Information

Press the  button in full-frame playback mode to display the histogram and shooting information (📖 70). Press the  button again to return to full-frame playback mode.



## Pressing the Button to Turn On the Camera

When the camera is off, holding down the  button will turn the camera on in playback mode. The lens will not extend.

## Viewing Pictures

- When pictures in which a face was recognized during shooting (📖 47) are displayed in full-frame playback mode, depending upon the orientation of the recognized face, the pictures may be automatically rotated for playback display except pictures taken with **Continuous**, **BSS**, **Multi-shot 16**, and **Sport continuous** setting (📖 42).
- When the monitor has turned off in standby mode to save power, press the  button to reactivate it (📖 133).

## Deleting the Last Picture Taken While in Shooting Mode

In shooting mode, press the  button to delete the last picture taken.



## Deleting Multiple Pictures

Multiple pictures can be deleted from the **Delete** option (📖 87) in the playback menu (📖 82), the auto sort menu (📖 78), or the list by date menu (📖 81).

## Using the Flash

When **ISO sensitivity** is set to **Auto**, the flash has a range of 0.5-4.9 m (1 ft. 8 in.-16 ft.) at the maximum wide-angle zoom position and a range of 1.1-3.6 m (3 ft. 7 in.-11 ft.) at the maximum telephoto zoom position. The following flash modes are available.

### **Auto**

Flash fires automatically when lighting is dim.

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

Reduce “red-eye” in portraits (📖 31).

### **Off**

Flash will not fire even when lighting is dim.

### **Fill flash**

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

### **Slow sync**

 **Auto** (auto) 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.

## Setting the Flash Mode

### 1 Press the rotary multi selector (flash mode).

The flash mode menu is displayed.

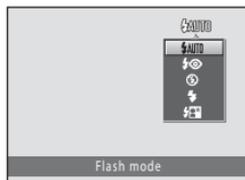


### 2 Use the rotary multi selector to choose the desired flash mode and press the button.

The icon for the selected flash mode is displayed at the top of the monitor.

When  **Auto** (auto) is applied,  **Auto** is only displayed for a few seconds, regardless of **Photo info** settings (📖 127).

If a setting is not applied by pressing the  button within a few seconds, the selection will be canceled.



## ✓ Shooting When the Flash Is Disabled (🔇) or Lighting Is Dim

- Use of a tripod is recommended to stabilize the camera during shooting. Set **Vibration reduction** (📖 129) to **Off** in setup menu (📖 120) when using a tripod to stabilize the camera.
- The **ISO** indicator is displayed when the camera automatically increases sensitivity. Pictures taken when **ISO** is displayed may be slightly mottled.
- The noise reduction function may be activated with some shooting conditions such as dim lighting. More time than usual is required to record pictures to which noise reduction is applied.

## ✓ Note on the Flash

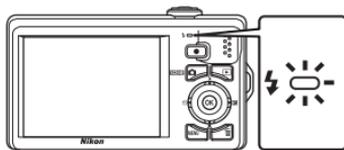
When using the flash, reflections from dust particles in the air may appear as bright spots in pictures. To reduce these reflections, set the flash to 🔇 (off).

## 🔧 The Flash Lamp

The flash lamp indicates flash status when the shutter-release button is pressed halfway.

- On: Flash will fire when picture is taken.
- Blinks: 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 display will turn off, and remain off, until the flash is fully charged.



## 🔧 The Flash Mode Setting

The default flash mode setting varies with shooting mode.

- 📷 (auto): ⚡AUTO (auto)
- 🌄 (scene): varies with the selected scene mode (📖 54–60)
- 📸 (smart portrait): ⚡AUTO (auto) when **Off** is selected for **Blink proof**; fixed at 🔇 (off) when **On** is selected for **Blink proof** (📖 65)
- 🎯 (subject tracking): 🔇 (off)

There may be functions with which the flash cannot be enabled. See “Camera Settings that Cannot Be Applied Simultaneously” (📖 49) 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, and reapplied the next time 📷 (auto) mode is selected.

## 🔧 Red-eye Reduction

This camera uses advanced red-eye reduction (“In-Camera Red-Eye Fix”). If the camera detects “red eye” while a picture is being recorded, the affected area will be processed to reduce red-eye before the picture is saved. Note the followings when shooting.

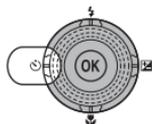
- More time than usual is required to record pictures.
- Red-eye reduction may not produce the desired results in all situations.
- In extremely rare instances, areas not subject to red-eye may be affected by red-eye reduction processing; in these cases, choose another flash mode and try again.

## Taking Pictures with the Self-timer

The camera is equipped with a ten-second and two-second timer for self-portraits. This feature is useful for reducing the effects of camera shake that occurs when pressing the shutter-release button. When using the self-timer, use of a tripod is recommended. Set **Vibration reduction** (📖 129) to **Off** in the setup menu (📖 120) when using a tripod to stabilize the camera during shooting.

### 1 Press the rotary multi selector (self-timer).

The self-timer menu is displayed.



### 2 Use the rotary multi selector to choose **10s** or **2s** and press the button.

**10s** (ten seconds): Use on important occasions, such as weddings.

**2s** (two seconds): Use to prevent camera shake.

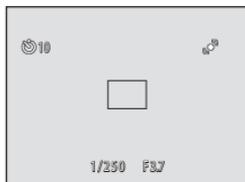
The mode selected for self-timer is displayed.

If a setting is not applied by pressing the  button within a few seconds, the selection will be canceled.



### 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 self-timer lamp blinks while the timer is counting down. About one second before the shutter is released, the lamp stops blinking 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.

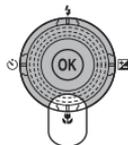


## Macro Mode

Macro mode is used for taking pictures of objects as close as 3 cm (1.2 in.). Note that the flash may be unable to light the entire subject at distances of less than 50 cm (1 ft. 8 in.).

- 1 Press the rotary multi selector  (macro mode).

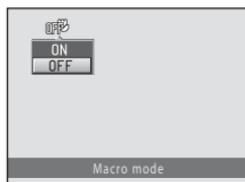
The macro mode menu is displayed.



- 2 Use the rotary multi selector to choose **ON** and press the  button.

The macro mode icon () is displayed.

If a setting is not applied by pressing the  button within a few seconds, the selection will be canceled.

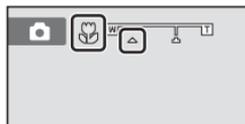


- 3 Rotate the zoom control to frame the picture.

The closest distance at which the camera can focus varies depending on the zoom position.

The camera can focus on subjects as close as 3 cm (1.2 in.) to the lens when the zoom indicator is positioned to the left of , and  and the zoom indicator glow green.

When the zoom indicator is aligned with , the camera can focus at a distance of 4 cm (1.6 in.).



### Autofocus

When using  (auto) mode, if **Autofocus mode** ( 48) is set to **Full-time AF**, the camera focuses continuously until focus is locked when the shutter-release button is pressed halfway. Therefore, the sound of lens drive movement can be heard.

When using other shooting modes, **Full-time AF** is turned on automatically when macro mode is turned on.

### The Macro Mode Setting

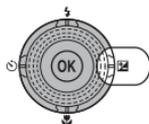
The macro mode setting applied in  (auto) mode is stored in the camera's memory even after the camera is turned off, and reapplied the next time  (auto) mode is selected.

# Adjusting Brightness (Exposure Compensation)

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

- 1 Press the rotary multi selector  (exposure compensation).

The exposure compensation guide and histogram are displayed.



- 2 Use the rotary multi selector to adjust exposure and press the  button.

To make the picture brighter, apply positive (+) exposure compensation.

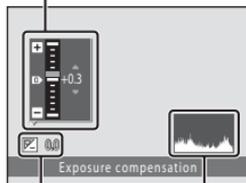
To make the picture darker, apply negative (-) exposure compensation.

Exposure compensation can be set to values between -2.0 and +2.0 EV.

If a setting is not applied by pressing the  button within a few seconds, the selection will be canceled.

When an exposure compensation value other than **0.0** is applied, the value is displayed with the  indicator in the monitor.

Exposure compensation guide



Exposure compensation value

Histogram

- 3 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, and reapplied the next time  (auto) mode is selected.

## Using Exposure Compensation

The camera tends to reduce exposure when the frame is dominated by brightly lit objects and to increase exposure when the frame is mostly dark. *Positive (+)* compensation may therefore be required to capture the brilliancy of very bright objects that fill the frame (for example, sunlit expanses of water, sand, or snow) or when the background is much brighter than the main subject. *Negative (-)* compensation may be called for when large areas of the frame contain very dark objects (for example, a swath of dark green leaves) or when the background is much darker than the main subject.

## Using the Histogram

A histogram is a graph showing the distribution of tones in the image. Use as a guide when using exposure compensation and shooting without the flash.

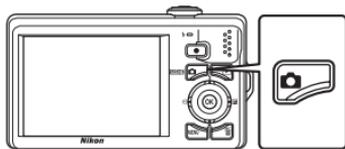
- The horizontal axis corresponds to pixel brightness, with dark tones to the left and bright tones to the right. The vertical axis shows the number of pixels.
- Increasing exposure compensation shifts tone distribution to the right, and decreasing it shifts tone distribution to the left.

## Selecting a Shooting Mode

Select a shooting mode from  (auto),  (scene),  (smart portrait), and  (subject tracking) modes.

- 1 Press the  button in shooting mode.

The shooting-mode selection menu is displayed.

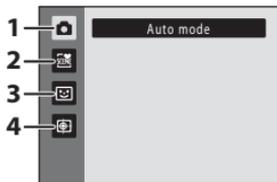


- 2 Use the rotary multi selector to select a shooting mode and press the  button.

The camera enters the selected shooting mode.

When selecting a different scene mode (the second icon from the top), press  and use the rotary multi selector to select a scene and then press the  button.

To return to the current shooting mode without switching shooting modes, press the  button or the shutter-release button.



### 1 Auto mode

 22

Pictures can be taken with an automatic, "point-and-shoot" mode recommended for first-time users of digital cameras. Shooting settings such as continuous shooting can be applied from the shooting menu ( 36).

### 2 Scene mode

 51

Camera settings are automatically optimized for the selected scene. In scene auto selector mode, the camera automatically selects the optimum scene mode for simpler shooting.

### 3 Smart portrait

 63

The camera uses face priority to recognize human faces, and then automatically releases the shutter when a smile is detected. The skin softening option can be used to make skin tones of human faces displayed smoothly.

### 4 Subject tracking

 66

Suited to focus and take pictures of moving subjects.

## Shooting Options: Shooting Menu (📷 (Auto) Mode)

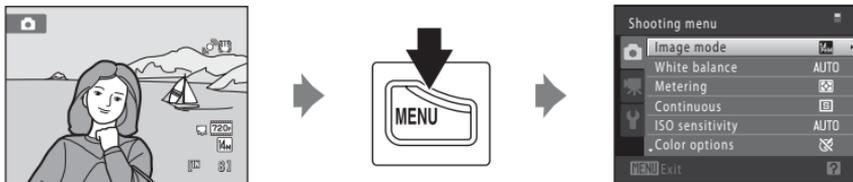
The following options can be set when shooting in 📷 (auto) mode (📖 22).

🔙	Image mode	📖 37
	Choose the image mode (combination of image size and compression rate) at which pictures are recorded. The image mode setting can also be modified from other shooting modes.	
WB	White balance	📖 39
	Match white balance to the light source.	
📷	Metering	📖 41
	Choose how the camera meters exposure.	
📷	Continuous	📖 42
	Enable continuous shooting or BSS (best shot selector).	
ISO	ISO sensitivity	📖 43
	Control the camera's sensitivity to light.	
🔗	Color options	📖 44
	Apply color effects to pictures as they are recorded.	
[+]	AF area mode	📖 45
	Choose how the camera selects the focus area for autofocus.	
🔊	Autofocus mode	📖 48
	Choose how the camera focuses.	

### Displaying the Shooting Menu

Enter 📷 (auto) mode (📖 35).

Press the **MENU** button to display the shooting menu.



- Use the rotary multi selector to choose and apply settings (📖 9).
- To exit the shooting menu, press the **MENU** button.

### 🔍 Camera Settings that Cannot Be Applied Simultaneously

Some functions cannot be enabled in conjunction with others (📖 49).

## 🔍 Image Mode (Image Quality/Image Size)

📷 (auto) → MENU (Shooting menu) → 🔍 Image mode

Image mode refers to the combination of image size and image quality (compression) at which pictures are recorded. Choose the image mode best suited to the manner in which pictures 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 or displayed without appearing noticeably “grainy,” but limiting the number of pictures that can be recorded.

Option	Size (pixels)	Description
 4320 × 3240 ★	4320 × 3240	Higher quality than  , suitable for enlargements or high-quality prints. The compression ratio is approximately 1:4.
 4320 × 3240 (default setting)	4320 × 3240	Best choice in most situations. The compression ratio is approximately 1:8.
 3264 × 2448	3264 × 2448	
 2592 × 1944	2592 × 1944	
 2048 × 1536	2048 × 1536	Smaller size than  ,  , or  allows more pictures to be stored. The compression ratio is approximately 1:8.
 1024 × 768	1024 × 768	Suited to display on a computer monitor. The compression ratio is approximately 1:8.
 640 × 480	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.
 4224 × 2376	4224 × 2376	Pictures with an aspect ratio of 16:9 are recorded. The compression ratio is approximately 1:8.

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

### Image Mode

- Change made to this setting applies to all shooting modes.
- There may be functions with which this setting cannot be enabled. See “Camera Settings that Cannot Be Applied Simultaneously” (📖 49) for more information.

## Number of Exposures Remaining

The following table lists the approximate number of pictures that can be stored in the internal memory and on a 4 GB memory card. Note that the number of pictures that can be stored will differ depending on the composition of the picture (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.

Setting	Internal memory (approx. 32 MB)	Memory card <sup>1</sup> (4 GB)	Print size <sup>2</sup> (cm/in.)
 4320 × 3240★	4	535	36 × 27/14 × 10.5
 4320 × 3240	8	955	36 × 27/14 × 10.5
 3264 × 2448	14	1650	28 × 21/11 × 8
 2592 × 1944	22	2565	22 × 16/8.5 × 6.5
 2048 × 1536	34	4020	17 × 13/7 × 5
 1024 × 768	107	12000	9 × 7/3.5 × 2.5
 640 × 480	292	29000	5 × 4/2 × 1.5
 4224 × 2376	11	1325	36 × 20/14 × 8

<sup>1</sup> If the number of exposures remaining is 10,000 or more, the number of exposures remaining display shows “9999.”

<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, pictures printed at higher resolutions will print smaller than the size indicated, and those printed at lower resolutions will print larger than the size indicated.

## WB White Balance (Adjusting Hue)

📷 (auto) → MENU (Shooting menu) → WB 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.

### 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 (📖 40).

### ☀ Daylight

White balance adjusted for direct sunlight.

### 💡 Incandescent

Use under incandescent lighting.

### 💡 Fluorescent

Use under fluorescent lighting.

### ☁ Cloudy

Use when taking pictures under overcast skies.

### 📷 Flash

Use with the flash.

At settings other than **Auto**, the icon for the current setting is displayed in the monitor in shooting mode (📖 6).

## ✔ Notes on White Balance

- There may be functions with which this setting cannot be enabled. See “Camera Settings that Cannot Be Applied Simultaneously” (📖 49) for more information.
- At white-balance settings other than **Auto** or **Flash**, turn the flash off (📷) (📖 30).

## Preset Manual

Preset manual is effective with mixed lighting or to compensate for light sources with a strong color cast (for example, to make pictures taken under a lamp with a red shade look as though they had been taken under white light).

**1** Place a white or gray reference object under the lighting that will be used during shooting.

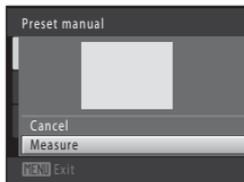
**2** Display the shooting menu (📖 36), use the rotary multi selector to choose **PRE Preset manual** in the **White balance** menu, and press the **OK** button.

The camera zooms in to the position for measuring white balance.

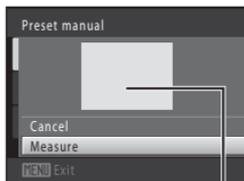


**3** Choose **Measure**.

To apply the most recently measured value for preset manual, choose **Cancel** and press the **OK** button.



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



Measuring window

**5** Press the **OK** button to measure a value for preset manual.

The shutter is released and the new white-balance value is set. No picture is recorded.

### ✔ Note on 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**.

## 📷 Metering

📷 (auto) → MENU (Shooting menu) → 📷 Metering

The process of measuring the brightness of the subject to determine exposure is known as metering.

Choose how the camera meters exposure.

### 📷 Matrix (default setting)

The camera sets exposure for the entire frame. Recommended in most situations.

### 📷 Center-weighted

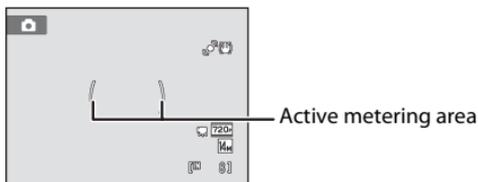
The camera meters the entire frame but assigns greatest weight to the subject in the center of the frame. Classic meter for portraits; preserves background details while letting lighting conditions at the center of the frame determine exposure. Can be used with focus lock (📖 46) to meter off-center subjects.

## ✔ Note on Metering

When using digital zoom, **Metering** is set to **Center-weighted**, and the metered area is not displayed in the monitor.

## 📷 Metering Area

The active metering area is displayed in the monitor when **Center-weighted** is selected for **Metering**.



## 📷 Continuous

📷 (auto) → MENU (Shooting menu) → 📷 Continuous

Enable continuous shooting or BSS (best shot selector).

The flash is disabled when **Continuous**, **BSS**, **Multi-shot 16**, or **Sport continuous** is selected, and focus, exposure, and white balance are fixed at the values determined with the first picture in each series.

### 📷 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 ten pictures are taken at a rate of about 0.7 frames per second (fps) (when **Image mode** is set to 📷 **4320 × 3240**). Shooting ends when the shutter-release button is released, or ten pictures have been taken.

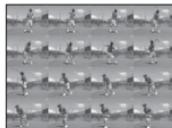
### BSS (Best Shot Selector)

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 pictures. When BSS is on, camera takes up to ten pictures while the shutter-release button is held down. The sharpest picture 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 📷 (image size: 2560 × 1920 pixels).
- Digital zoom is not available.



### 📷 Sport continuous

While the shutter-release button is held down, up to 45 pictures are taken continuously at a rate of about 3 fps. Shooting ends when the shutter-release button is released, or 45 pictures have been taken.

- **Image mode** is fixed at 📷 **2048 × 1536**.

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

## ✔ Notes on Continuous Shooting

- The frame rate with continuous shooting may vary depending upon the current image mode setting, the memory card used, or shooting condition.
- There may be functions with which this setting cannot be enabled. See "Camera Settings that Cannot Be Applied Simultaneously" (📖 49) for more information.

**✔ Note on BSS**

**BSS** is effective when taking pictures of still subjects. BSS may not produce the desired results if the subject moves or the composition changes while the shutter-release button is held down.

**✔ Note on Multi-shot 16**

Smear (📖 144) 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.

**✔ Note on Sport Continuous**

As high ISO sensitivity settings are applied, pictures may appear mottled. Accurate exposure may not be achieved (images may be over-exposed) with pictures taken on bright sunny days.

## ISO ISO Sensitivity

📷 (auto) → MENU (Shooting menu) → ISO ISO sensitivity

Sensitivity is a measure of the camera's response to light. The higher the sensitivity, the less light is needed to expose an image. Although high ISO sensitivity settings are suited to pictures of moving subjects or those taken under dim lighting, high sensitivity settings are often associated with "noise" - randomly spaced, brightly colored pixels - concentrated in dark portions of the image.

**Auto (default setting)**

Sensitivity is ISO 100 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 **ISO 100-400** or **ISO 100-800**. The camera will not increase sensitivity beyond the maximum value in the selected range. Set the maximum value for ISO sensitivity for effective control over the amount of "grain" that appears in images.

100, 200, 400, 800, 1600, 3200

Sensitivity is locked at the specified value.

At the settings other than **Auto**, the current setting is displayed in the monitor (📖 6). If **Auto** is selected and the sensitivity is raised above ISO 100, the **ISO** icon will be displayed (📖 31). When **Fixed range auto** is selected,  and the maximum value for ISO sensitivity is displayed.

**✔ Notes on ISO Sensitivity**

- There may be functions with which this setting cannot be enabled. See "Camera Settings that Cannot Be Applied Simultaneously" (📖 49) for more information.
- **Motion detection** (📖 130) does not function when the ISO sensitivity is locked at the specified value.

## 🔧 Color Options

📷 (auto) → MENU (Shooting menu) → 🔧 Color options

Make colors more vivid or record pictures in monochrome.

 **Standard color (default setting)**

Use for pictures exhibiting natural color.

 **Vivid color**

Use to achieve a vivid, “photoprint” effect.

 **Black-and-white**

Record pictures in black-and-white.

 **Sepia**

Record pictures in sepia tones.

 **Cyanotype**

Record pictures in cyan-blue monochrome.

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

### ✔ **Note on Color Options**

There may be functions with which this setting cannot be enabled. See “Camera Settings that Cannot Be Applied Simultaneously” (📖 49) for more information.

## [+] AF Area Mode

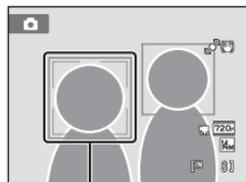
📷 (auto) → MENU (Shooting menu) → [+] AF area mode

Use this option to determine how the camera selects the focus area for autofocus. When digital zoom is in effect, the camera always focuses at the center of the frame regardless of the specified setting.

### 👤 Face priority

When the camera recognizes a human face, it focuses on that face. See “Face Priority” (📖 47) for more information. If more than one face is recognized, 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 recognized, the **AF area mode** setting switches to **Auto**, and the camera will automatically select the focus area containing the subject closest to the camera.

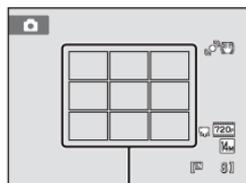


Focus area

More on Shooting

### 📷 Auto (default setting)

The camera automatically selects the focus area containing the subject closest to the camera. 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.



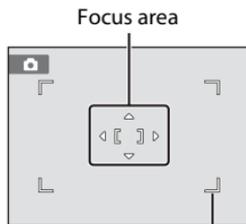
Focus areas

### [C] Manual

Select one of 99 focus areas displayed 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.

Rotate the rotary multi-selector or press ▲, ▼, ◀, or ▶ to select the focus area displayed in the monitor that contains the subject, and shoot.

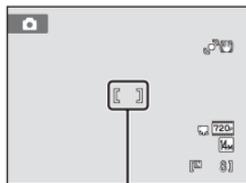
To cancel focus area selection and adjust flash, macro mode, self-timer, and exposure compensation settings, press the Ⓞ button. To return to the focus area selection screen, press the Ⓞ button again.



Selectable focus area

### [ ] Center

The camera focuses on the subject at the center of the frame.  
The center focus area is always displayed.



Focus area

### ✔ Note on AF Area Mode

There may be functions with which this setting cannot be enabled. See “Camera Settings that Cannot Be Applied Simultaneously” (📖 49) for more information.

### 🔒 Focus Lock

To focus on off-center subjects when **Center** is selected for **AF area mode**, use focus lock as described below.

- 1 Position the subject in the center of the frame.
- 2 Press the shutter-release button halfway.
  - Confirm that 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 to maintain the same distance between the camera and the subject while the shutter-release button is pressed halfway.
- 4 Press the shutter-release button the rest of the way down to take the picture.



### 🔍 More Information

See “Autofocus” (📖 27) for more information.

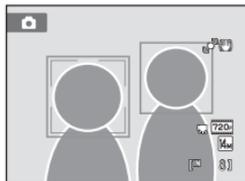
## Face Priority

When the camera is pointed at a human face, face recognition, which the camera automatically recognizes that face and focus on it, starts. The face priority function is activated in the following situations.

- **AF area mode** (📖 45) is set to **Face priority**
- In **Scene auto selector** (📖 52), **Portrait** (📖 54), and **Night portrait** (📖 55) scene modes
- In smart portrait mode (📖 63)

### 1 Frame a picture.

When the camera recognizes a face, that face is framed by a yellow double border.



When the camera recognizes more than one face, operation varies as follows depending upon the shooting mode.

Shooting mode	Face framed by double border	Number of faces that can be recognized
📷 (auto) mode (face priority)	The face closest to the camera	Up to 12
<b>Scene auto selector, Portrait, or Night portrait scene mode</b>	<ul style="list-style-type: none"> <li>• Other faces framed by single border.</li> </ul>	
Smart portrait mode	The face closest to the center of the frame <ul style="list-style-type: none"> <li>• Other faces framed by single border.</li> </ul>	Up to 3

### 2 Press the shutter-release button halfway.

The camera focuses on the face framed by the double border. The double border turns green and focus is locked. When the camera is unable to focus, the double border will blink. Press the shutter-release button halfway again and focus.

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

If the camera detects that the face framed by the double border is smiling in smart portrait mode, the **Smile timer** (📖 65) is activated and the shutter is automatically released without the shutter-release button having been pressed.



### ✔ Notes on Face Priority

- If the camera is unable to recognize any faces when the shutter-release button is pressed halfway with **AF area mode** set to **Face priority**, the AF area mode setting automatically switches to **Auto**.
- If no faces are recognized 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.
- The camera may be unable to recognize 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 recognized 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 turns green (📖 27). Should this occur, switch to 📷 (auto) mode and set **AF area mode** to **Manual** or **Center**, refocus on another subject positioned at the same distance from the camera as the actual portrait subject, and use focus lock (📖 46).
- When pictures in which a face was recognized during shooting are displayed in full-frame playback mode or thumbnail playback mode, depending upon the orientation of the recognized face, the pictures may be automatically rotated for playback display except pictures taken with **Continuous**, **BSS**, **Multi-shot 16**, and **Sport continuous** (📖 42).

## 🔊 Autofocus Mode

📷 (auto) → MENU (Shooting menu) → 🔊 Autofocus mode

Choose how the camera focuses.



Single AF (default setting)

The camera focuses when the shutter-release button is pressed halfway.



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.

### ✔ Note on Autofocus Mode

There may be functions with which this setting cannot be enabled. See “Camera Settings that Cannot Be Applied Simultaneously” (📖 49) for more information.

### ✔ Note on the Autofocus Mode Setting for Subject Tracking Mode

**Autofocus mode** can be set for subject tracking mode. The default setting in subject tracking mode is **Full-time AF**. **Autofocus mode** can be set independently for both subject tracking mode and 📷 (auto) mode.



### Autofocus mode for Movie Recording

Autofocus mode for movie recording can be set with **Autofocus mode** (📖 104) in the movie menu (📖 102).

## Camera Settings that Cannot Be Applied Simultaneously

Some shooting settings cannot be used with other functions.

Restricted function	Setting	Descriptions
Flash mode	Continuous (📖 42)	When <b>Continuous</b> , <b>BSS</b> , <b>Multi-shot 16</b> , or <b>Sport continuous</b> is selected, flash is disabled.
Image mode	Continuous (📖 42)	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). When <b>Sport continuous</b> is selected, the <b>Image mode</b> setting is fixed at <b>2</b> <b>2048 × 1536</b> .
White balance	Color options (📖 44)	When using <b>Black-and-white</b> , <b>Sepia</b> , or <b>Cyanotype</b> , the <b>White balance</b> setting is fixed at <b>Auto</b> .
Metering	Digital zoom (📖 131)	When the digital zoom is in effect, <b>Metering</b> is fixed at <b>Center-weighted</b> .
Continuous	Self-timer (📖 32)	Fixed at <b>Single</b> when using self-timer.
ISO sensitivity	Continuous (📖 42)	When <b>Multi-shot 16</b> or <b>Sport continuous</b> is selected, the <b>ISO sensitivity</b> setting is automatically specified according to the brightness.
AF area mode	Digital zoom (📖 131)	When the digital zoom is in effect, the camera focuses at the center of the frame.
Autofocus mode	AF area mode (📖 45)	When using <b>Face priority</b> , <b>Autofocus mode</b> is fixed at <b>Single AF</b> .
Motion detection	Continuous (📖 42)	When <b>Multi-shot 16</b> or <b>Sport continuous</b> is selected, <b>Motion detection</b> is not enabled.
	ISO sensitivity (📖 43)	When the sensitivity is locked at the specified value, <b>Motion detection</b> is disabled.

Restricted function	Setting	Descriptions
Blink warning	Continuous (📖 42)	When <b>Continuous</b> , <b>BSS</b> , <b>Multi-shot 16</b> , or <b>Sport continuous</b> is selected, <b>Blink warning</b> is disabled.
Digital zoom	Continuous (📖 42)	When <b>Multi-shot 16</b> is selected, digital zoom is not available.



### More Information

See "Notes on Digital Zoom" (📖 131) for more information.

## Shooting Suited to Scenes (Scene Mode)

Camera settings are automatically optimized for the selected subject type. The following scene modes are available.

 Scene auto selector	 Portrait	 Landscape	 Night portrait
 Party/indoor	 Beach/snow	 Sunset	 Dusk/dawn
 Night landscape	 Close-up	 Food	 Museum
 Fireworks show	 Copy	 Backlight	 Panorama assist

### Selecting a Scene Mode

- 1 Press the  button in shooting mode to display the shooting-mode selection menu and use the rotary multi selector to select the scene mode icon.

The icon for the last scene mode selected is displayed. The default setting is  (Scene auto selector) (📖 52).



- 2 Press the rotary multi selector  to choose the desired scene, and then press the  button.

The display changes to that for the selected scene mode. For more information about features of scene modes, see page 54.



- 3 Frame the subject and take a picture.



### Image Mode

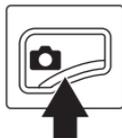
The **Image mode** setting (📖 37) can be changed by pressing the **MENU** button in scene mode. Change made to this setting applies to all shooting modes.

## Shooting in the Scene Mode Selected by the Camera (Scene Auto Selector)

By simply framing a picture, the camera automatically selects the optimum scene mode for simpler shooting. When a picture is framed in  (Scene auto selector) scene mode, the camera automatically adjusts settings for one of the following scene modes:

- Auto (general shooting)
- Landscape (54)
- Night landscape (56)
- Backlight (59)
- Portrait (54)
- Night portrait (55)
- Close-up (57)

- 1 Press the  button in shooting mode to display the shooting-mode selection menu and use the rotary multi selector to select  (Scene auto selector) scene mode (51).

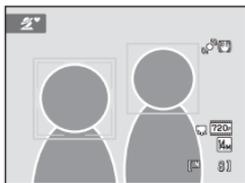


The camera enters scene auto selector scene mode.

- 2 Frame the subject and take a picture.

When the camera automatically selects a scene mode, the shooting mode icon changes to that for the scene mode currently enabled.

- |  |  |
|--|--|
|  : Auto             |  : Portrait       |
|  : Landscape        |  : Night portrait |
|  : Night landscape |  : Close-up      |
|  : Backlight      |  |



Press the shutter-release button halfway to set focus and exposure. When the subject is in focus, the active focus area glows green.

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

### ✓ Notes on Scene Auto Selector Scene Mode

- Digital zoom is not available.
- Depending upon shooting conditions, the camera may not select the desired scene mode. Should this occur, switch to  (auto) mode (📖 22) or select the desired scene mode manually (📖 51).

### 🔍 Focusing in Scene Auto Selector Scene Mode

- When the camera recognizes a human face in scene auto selector scene mode, it focuses on that face. See "Face Priority" (📖 47) for more information.
- When the shooting mode indicator  or  (close-up) is displayed, the camera automatically selects the focus area (up to nine areas) containing the subject closest to the camera as same as when **Auto** is selected for **AF area mode** (📖 45).

### 🔧 Functions Available in Scene Auto Selector Scene Mode

-  (auto; default setting) and  (off) flash mode settings can be applied (📖 30). When  (auto) is applied, the camera automatically selects the optimum flash mode setting for the scene mode it has selected. When  (off) is applied, the flash does not fire, regardless of shooting conditions.
- The self-timer (📖 32) and exposure compensation (📖 34) settings can be adjusted.
- The macro mode button on the rotary multi selector (📖 9, 33) is disabled.
- The **Image mode** setting (📖 37) can be changed by pressing the **MENU** button in scene auto selector scene mode. Change made to this setting applies to all shooting modes.

## Selecting a Scene Mode to Take Pictures (Features)

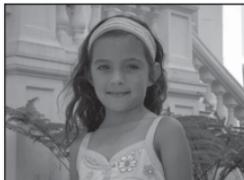
See “Shooting in the Scene Mode Selected by the Camera (Scene Auto Selector)” (📖 52) for more information on scene auto selector scene mode.

The following icons are used for descriptions in this section: ⚡, flash mode (📖 30); ⌚, self-timer (📖 32); 🌸, macro mode (📖 33); 📷, exposure compensation (📖 34).

### Portrait

Use this mode for portraits.

- The camera recognizes and focuses on a human face. See “Face Priority” (📖 47) for more information.
- If more than one face is recognized, focus will be on the face closest to the camera.
- The camera softens skin tones (in up to three faces) by applying the skin softening function before recording pictures (📖 64).
- If no faces are recognized, the camera focuses on the subject at the center of the frame.
- Digital zoom is not available.



\* Default setting can be modified.

### Landscape

Use this mode for vivid landscapes and cityscapes.

- Camera focuses at infinity. The focus area or focus indicator (📖 6) always glows green when the shutter-release button is pressed halfway. Note, however, that objects in the foreground may not always be in focus.
- AF-assist illuminator (📖 131) does not light.



\* Default setting can be modified.

Use of a tripod is recommended in scene modes with 📵 is indicated. Set **Vibration reduction** (📖 129) to **Off** when using a tripod to stabilize the camera.

### Night portrait



Use this mode for portraits taken at sunset or at night. The flash fires to light the portrait subject while preserving background lighting to achieve a natural balance between the main subject and background ambience.



- The camera recognizes and focuses on a human face. See “Face Priority” (📖 47) for more information.
- If more than one face is recognized, focus will be on the face closest to the camera.
- The camera softens skin tones (in up to three faces) by applying the skin softening function before recording pictures (📖 64).
- If no faces are recognized, the camera focuses on the subject at the center of the frame.
- Digital zoom is not available.



<sup>1</sup> Fill flash with slow sync and red-eye reduction.

<sup>2</sup> Default setting can be modified.

### Party/indoor

Captures the effects of candlelight and other indoor background lighting.

- The camera focuses on the subject at the center of the frame.
- As pictures are easily affected by camera shake, hold the camera steadily. In dark surroundings, the use of a tripod is recommended. Set **Vibration reduction** (📖 129) to **Off** when using a tripod to stabilize the camera.



<sup>1</sup> Slow sync with red-eye reduction flash mode may be used. The default setting can be modified.

<sup>2</sup> Default setting can be modified.

### Beach/snow

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

- The camera focuses on the subject at the center of the frame.



\* Default setting can be modified.

## Shooting Suited to Scenes (Scene Mode)

### Sunset



Preserves the deep hues seen in sunsets and sunrises.

- Camera focuses at infinity. The focus area or focus indicator ( 6) always glows green when the shutter-release button is pressed halfway. Note, however, that objects in the foreground may not always be in focus.
- AF-assist illuminator ( 131) does not light.



Off\*



Off



0.0\*

\* Default setting can be modified.

### Dusk/dawn



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

- Camera focuses at infinity. The focus area or focus indicator ( 6) always glows green when the shutter-release button is pressed halfway. Note, however, that objects in the foreground may not always be in focus.
- AF-assist illuminator ( 131) does not light.



Off\*



Off



0.0\*

\* Default setting can be modified.

### Night landscape



Slow shutter speeds are used to produce stunning night landscapes.

- Camera focuses at infinity. The focus area or focus indicator ( 6) always glows green when the shutter-release button is pressed halfway. Note, however, that objects in the foreground may not always be in focus.
- AF-assist illuminator ( 131) does not light.



Off\*



Off



0.0\*

\* Default setting can be modified.

Use of a tripod is recommended in scene modes with which  is indicated. Set **Vibration reduction** ( 129) to **Off** when using a tripod to stabilize the camera.

### Close-up

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

- Macro mode ( 33) is enabled and the camera automatically zooms to the closest position at which it can focus.
- The closest distance at which the camera can focus varies depending on the zoom position.

The camera can focus on subjects as close as 3 cm (1.2 in.) to the lens when the zoom indicator is positioned to the left of , and  and the zoom indicator glow green. When the zoom indicator is aligned with , the camera can focus at a distance of 4 cm (1.6 in.).

- **AF area mode** is set to **Manual** ( 45). Choose the focus area in which the camera focuses. Press the  button and then rotate the rotary multi selector, or press , , , or , to select a different focus area. Press the  button again to lock the selected focus area. Flash mode and exposure compensation settings can be adjusted and the self-timer can be enabled while the focus area is locked.
- The camera focuses continuously until focus is locked by pressing the shutter-release button halfway.
- As pictures are easily affected by camera shake, be sure that **Vibration reduction** ( 129) is enabled and hold the camera steadily.



\* Default setting can be modified. Note that the flash may be unable to light entire subject at distances of less than 50 cm (1 ft. 8 in.).

## Shooting Suited to Scenes (Scene Mode)

### Food

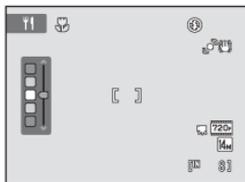
This mode is useful when taking pictures of food.

- Macro mode (📖 33) is enabled and the camera automatically zooms to the closest position at which it can focus.
- The closest distance at which the camera can focus varies depending on the zoom position.

The camera can focus on subjects as close as 3 cm (1.2 in.) to the lens when the zoom indicator is positioned to the left of 📷 and 📷 and the zoom indicator glow green.

When the zoom indicator is aligned with 📷, the camera can focus at a distance of 4 cm (1.6 in.).

- Hue can be adjusted in the range of the slider displayed at left in the monitor. Press the rotary multi selector ▲ to make the image more reddish, or ▼ to make it more bluish. The selected hue adjustment setting is stored in the camera's memory even after the camera is turned off, and reapplied the next time food scene mode is selected.
- **AF area mode** is set to **Manual** (📖 45). Choose the focus area in which the camera focuses. Press the OK button and then rotate the rotary multi selector, or press ▲, ▼, ◀, or ▶, to select a different focus area. Press the OK button again to lock the selected focus area. Hue and exposure compensation settings can be adjusted and the self-timer can be enabled while the focus area is locked.
- The camera focuses continuously until focus is locked by pressing the shutter-release button halfway.
- As pictures are easily affected by camera shake, be sure that **Vibration reduction** (📖 129) is enabled and hold the camera steadily.



\* Default setting can be modified.

### 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.

- Camera focuses on the subject at the center of the frame.
- BSS (best shot selector) can be enabled (📖 42).
- As pictures are easily affected by camera shake, be sure that **Vibration reduction** (📖 129) is enabled and hold the camera steadily.
- AF-assist illuminator (📖 131) does not light.



\* Default setting can be modified.

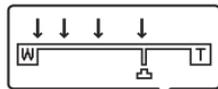
Use of a tripod is recommended in scene modes with which 📷 is indicated. Set **Vibration reduction** (📖 129) to **Off** when using a tripod to stabilize the camera.

### Fireworks show



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

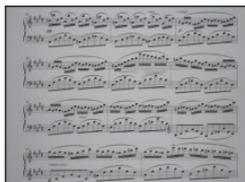
- Camera focuses at infinity. The focus indicator (📖 6) always glows green when the shutter-release button is pressed halfway. Note, however, that objects in the foreground may not always be in focus.
- AF-assist illuminator (📖 131) does not light.
- Only the four optical zoom positions shown at right can be applied. When the zoom control is rotated, zoom will not stop at any position other than the four indicated (digital zoom is available).



### Copy

Provides clear pictures of text or drawings on a white board or in print.

- Camera focuses on the subject at the center of the frame.
- Use macro mode (📖 33) to focus at short ranges.
- Colored text and drawings may not show up well.



\* Default setting can be modified.

### Backlight

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

- Camera focuses on the subject at the center of the frame.



\* Default setting can be modified.

## Shooting Suited to Scenes (Scene Mode)

### Panorama assist



Use when taking a series of pictures that will later be joined to form a single panorama using the supplied Panorama Maker software. See “Shooting for a Panorama” (📖 61) for more information.

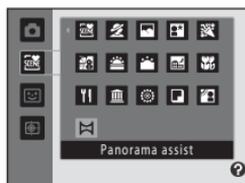
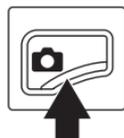


\* Default setting can be modified.

## Shooting for a Panorama

The camera focuses on the subject at the center of the frame. Use a tripod for the best results. Set **Vibration reduction** (📖 129) to **Off** in setup menu (📖 120) when using a tripod to stabilize the camera.

- 1** Press the  button in shooting mode to display the shooting-mode selection menu and use the rotary multi selector to select  (**Panorama assist**) scene mode (📖 51).



Panorama direction icons are displayed to show the direction in which pictures will be joined.

- 2** Use the rotary multi selector to choose the direction and press the  button.

Select the direction in which pictures 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 the  button is pressed. The icon changes to the white fixed direction  icon.

If necessary, apply flash mode (📖 30), self-timer (📖 32), macro mode (📖 33), and exposure compensation (📖 34) settings with this step. Press the  button again to choose a different direction.



- 3** Frame the first portion of the panorama scene and take the first picture.

One third of the picture will be displayed as translucent.



- 4** Take the next picture.

Frame the next picture so that one third of the frame overlaps the first picture, and press the shutter-release button.

Repeat this process until the necessary number of pictures has been taken to complete the scene.



### 5 Press the **OK** button when shooting is complete.

The camera returns to step 2.



#### **✓ Notes on Panorama Assist**

- Flash mode, self-timer, macro mode, and exposure compensation settings cannot be adjusted after the first picture is taken. Pictures cannot be deleted, nor can zoom or **Image mode** setting (📖 37) be adjusted after the first picture has been taken.
- Shooting for the panorama series is terminated if the auto off function (📖 133) initiates standby mode during shooting. Setting the time allowed to elapse before the auto off function is enabled to a longer setting is recommended.

#### **🔍 AE/AF-L Indicator**

In **Panorama assist** scene mode, exposure, white balance, and focus for all pictures in a panorama are fixed at the values for the first picture 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 Maker**

Install Panorama Maker from the supplied Software Suite CD.

Transfer pictures to a computer (📖 108) and use Panorama Maker (📖 112) to join them in a single panorama.

#### **🔍 More Information**

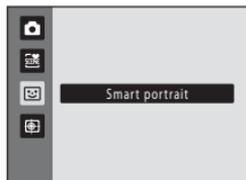
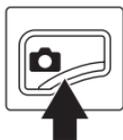
See "Image/Sound File and Folder Names" (📖 146) for more information.

## Shooting Smiling Faces (Smart Portrait Mode)

At the default settings, the camera uses face priority to recognize human faces, and then automatically releases the shutter when a smile is detected (smile timer). The skin softening option can be used to smooth skin tones of human faces.

- 1 Press the  button in shooting mode to display the shooting-mode selection menu, use the rotary multi selector to select , and press the  button.

The camera enters smart portrait mode.

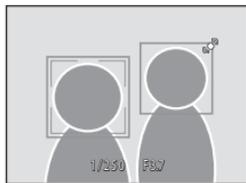


- 2 Frame a picture.

Point the camera at the subject.

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

Up to three faces can be recognized. When the camera detects more than one face, the double border is displayed around the face closest to the center of the frame, and single borders around the others.



- 3 The shutter is automatically released.

If the camera detects that the face framed by the double border is smiling, **Smile timer** (📖 65) is activated and the shutter is automatically released.

When the camera recognizes a face, the self-timer lamp (📖 4) blinks. Immediately after the shutter is released, the self-timer lamp flickers. Each time the shutter is released, the camera again initiates face recognition and smile detection operations for continuous automatic shooting.

Pictures can also be taken by pressing the shutter release button. The camera can focus on the subject at the center of the frame when faces are not recognized.

When the shutter is released, the camera softens the subject's skin to make it appear smoother and then records the image (**Skin softening** 📖 65).

- 4 Shooting ends.

To stop automatic shooting of smiling faces, either turn the camera off, set **Smile timer** to **Off**, or press the  button and select another shooting mode.

### Notes on Smart Portrait Mode

- Digital zoom is not available.
- Under some shooting conditions, the camera may be unable to recognize faces or detect smiles.
- See “Notes on Face Priority” (📖 48) for more information.

### Notes on Skin Softening

- More time than usual may be required to save a picture when shooting with skin softening function.
- In some shooting conditions, facial skin tones may not be smoothed or parts other than face may be modified though the camera recognizes a face. If the desired results are not produced, set **Skin softening** to **Off** and shoot again.
- The skin softening level cannot be adjusted when the portrait or night portrait is selected in the scene mode.
- Skin softening can also be applied on recorded pictures (📖 97).

### Auto Power Off in Smile Timer Mode

When **Smile timer** is set to **On**, the auto power off function (📖 133) 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 recognize any faces.
- The camera recognized a face, but cannot detect a smile.

### Functions Available in Smart Portrait Mode

- Flash cannot be used when **Blink proof** is set to **On**. When **Blink proof** is set to **Off**, flash mode (📖 30) is set to **⚡AUTO** (auto) (can be modified).
- Exposure compensation (📖 34) is enabled.
- The self timer (📖 32) options can be applied when **Smile timer** is set to **Off**.
- Macro mode cannot be used.
- Press the **MENU** button to display the 😊 (smart portrait) menu and adjust **Image mode**, **Skin softening**, **Smile timer**, and **Blink proof**.

### More Information

See “Autofocus” (📖 27) for more information.

## Smart Portrait Menu

The following options can be applied in the smart portrait menu.

Press the **MENU** button (📖 10) in smart portrait mode (📖 63) to display the smart portrait menu and use the rotary multi selector (📖 9) to apply options.



### Image mode

Adjust **Image mode** (📖 37).

Changes made to the image mode setting apply to all shooting modes.



### Skin softening

Enable skin softening. When the shutter is released, the camera detects one or more human faces (up to three), and processes the image to soften facial skin tones before saving the picture.

The degree of skin softening applied can be selected from **High**, **Normal** (default setting), and **Low**. When **Off** is selected, the skin softening function is disabled.

- The current setting can be confirmed by the indicator displayed in the monitor with shooting (📖 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** (default setting): The camera uses face priority to recognize a human face, and then automatically releases the shutter whenever a smile is detected.
- **Off**: The camera does not release the shutter automatically with smile detection. Press the shutter-release button to take a picture.
- When smile timer is enabled, an indicator is displayed in the monitor with shooting (📖 6). No indicator is displayed when **Off** is selected.



### Blink proof

When **On** 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.

- If the camera saved a picture in which the subject's eyes may have been closed, the dialog shown at right is displayed for a few seconds.
- Flash cannot be used when **On** is selected.
- The default setting is **Off**.
- The current setting is displayed in the monitor (📖 6). No indicator is displayed when **Off** is selected.

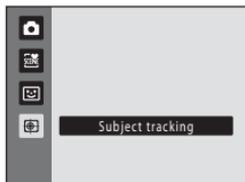
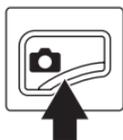


## Focusing on a Moving Subject (Subject Tracking Mode)

Use this mode to take pictures of moving subjects. Select the subject which the camera will focus. The focus area will automatically move to track the subject.

At the default setting, once the camera detects a person's face it will automatically begin tracking that person (face priority tracking).

- 1 Press the  button in shooting mode to display the shooting-mode selection menu, use the rotary multi selector to select , and press the .



The camera enters subject tracking mode and a white border is displayed at the center of the frame.

The flash mode ( 30) is set to  (off) (the setting can be changed).

- 2 Select a subject.

Align the subject with the border at the center of the frame and press the .

- The subject is selected.
- When the camera is unable to focus on the subject, the border will glow red. Change the composition and try again.

When the subject is selected, a yellow border (focus area) is displayed around that subject and the camera begins tracking that subject.

When the camera recognizes a face, that face is automatically registered as the subject to be tracked, and subject tracking begins ( 68).

To change the subject, press the  button to deselect the current subject.

If the camera cannot track the selected subject anymore, the focus area will disappear and the selection will be canceled. Select the subject again.



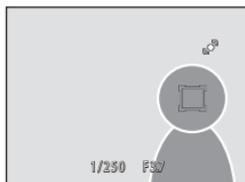
### 3 Press the shutter-release button to take a picture.

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.

When the camera is unable to focus, the focus area will blink. Press the shutter-release button halfway again to focus.

If the shutter-release button is pressed halfway while the focus area is not displayed, the camera focuses on the subject at the center of the frame.

Press the shutter-release button all the way down to release the shutter.



### ✓ Notes on Subject Tracking Mode

- Digital zoom is not available.
- Adjust zoom position, flash mode, exposure compensation, and menu settings prior to selecting the subject. If any camera setting is changed after the subject has been selected, subject selection will be canceled.
- It may be impossible to select the desired subject, or the camera may be unable to track the selected subject or may begin tracking a different subject, if the subject is moving rapidly, if there is a significant amount of camera shake, or if the camera recognizes a similar subject. The camera's ability to accurately track the selected subject is also dependent upon the size and brightness of the subject.
- In some rare cases, subjects with which autofocus may not perform as expected (📖 27) may be out of focus despite the fact that the focus area glows green. Should this occur, switch to 📷 (auto) mode and set **AF area mode** (📖 45) to **Manual** or **Center**, refocus on another subject positioned at the same distance from the camera as the actual portrait subject, and use focus lock (📖 46).

### 🔧 Functions Available in Subject Tracking Mode

- Flash mode (📖 30) and exposure compensation (📖 34) settings can be adjusted.
- Self-timer (📖 32) and macro mode (📖 33) cannot be used.
- Press the **MENU** button to display the 📷 (subject tracking) menu and adjust **Image mode**, **Autofocus mode**, and **Face priority tracking** (📖 68).

## Subject Tracking Menu

The following options can be applied in the subject tracking menu.

Press the **MENU** button (📖 10) in subject tracking mode (📖 66) to display the subject tracking menu and use the rotary multi selector (📖 9) to apply settings.



### Image mode

Adjust **Image mode** (📖 37).

Changes made to the image mode setting apply to all shooting modes.



### Autofocus mode

Set **Autofocus mode** (📖 48) used for subject tracking mode (the default setting is **Full-time AF**).

When using subject tracking mode while set to **Full-time AF**, the camera continuously focuses once a subject is selected for subject tracking until the shutter-release button is pressed halfway to lock the focus. The sound of lens drive movement can be heard.

Changes made to the autofocus mode setting in this mode will not be applied to the autofocus mode setting in 📷 (auto) mode. The autofocus mode setting applied in subject tracking mode is stored in the camera's memory even after the camera is turned off.



### Face priority tracking

When **On** is selected (default setting), if the camera detects a subject's face, that subject is automatically registered as the subject to be tracked, and subject tracking begins tracking that subject.

## ✓ Notes on Face Priority Tracking

- Only one subject can be tracked. If the camera detects multiple faces at the same time, the face closest to the center of the frame is tracked.
- Depending on shooting conditions, such as whether or not the subject is facing the camera, the face may not be detected properly. → "Face Priority" (📖 47)
- When the camera is unable to track the selected subject, press the **OK** button to track again, or set **Face priority tracking** to **Off**, frame the picture so that the subject is inside the border in the center of the frame, and press the **OK** button to register the subject again.

## Operations in Full-frame Playback Mode

Press the  button in shooting mode to enter playback mode and display pictures that have been taken ( 28).



The following operations are available in full-frame playback mode.

To	Use	Description	
Select pictures		Press  ,  ,  , or  to display previous or subsequent pictures. Press and hold  ,  ,  , or  to scroll quickly through pictures. Pictures can also be selected by rotating the rotary multi selector.	9
View thumbnails/ enable calendar display	<b>W</b> 	Rotate the zoom control to <b>W</b>  to display 4, 9, or 16 picture thumbnails. Rotate the zoom control to <b>W</b>  with 16 thumbnails displayed to switch to calendar display.	71, 73
Select a different shooting date (list by date mode)	<b>W</b> 	Return to the list by date screen.	79
Playback zoom	<b>T</b> 	Rotate the zoom control to <b>T</b>  to enlarge the picture up to 10x. Press the  button to return to full-frame playback mode.	74
Display shooting information (except list by date mode)		Display the histogram and the shooting information. Press the  button to return to full-frame playback.	70
Play back movies		Play back the movie currently displayed.	105
Delete pictures		Delete the picture currently displayed.	28
Display menus	<b>MENU</b>	Display the menu for the selected mode.	82
Switch to another playback mode		Press the  button to display the playback-mode selection menu and switch to auto sort mode or list by date mode.	75

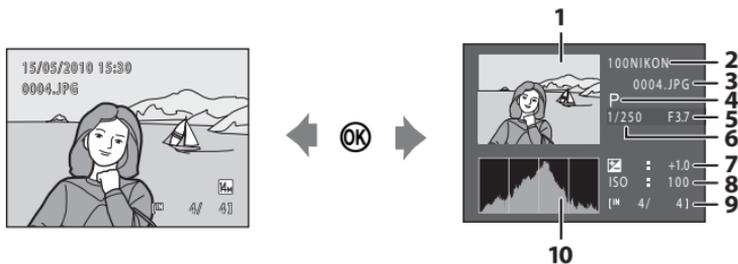
To	Use	Description	
Switch to shooting mode		Press the  button, the shutter-release button, or the  (movie-record) button.	28
			
			

## Viewing Pictures

When pictures in which a face was recognized during shooting ( 47) are displayed in full-frame playback mode, the pictures may be automatically rotated for playback display according to the orientation of the recognized face. Pictures taken at a **Continuous** setting ( 42) of **Continuous**, **BSS**, **Multi-shot 16** or **Sport continuous** will not be rotated.

## Displaying the Histogram and Shooting Information

Press the  button in full-frame playback mode to display the histogram and the shooting information with the current picture (not possible with movies). Press the  button again to return to full-frame playback mode.



- 1 Picture
- 2 Folder name
- 3 File name
- 4 Shooting mode<sup>1</sup>
- 5 Aperture

- 6 Shutter speed
- 7 Exposure compensation
- 8 ISO sensitivity
- 9 Current frame number/  
total number of frames
- 10 Histogram<sup>2</sup>

<sup>1</sup> P is displayed as the shooting mode.

<sup>2</sup> A histogram is a graph showing the distribution of tones in the image. The horizontal axis corresponds to brightness, with dark tones to the left and bright tones to the right. The vertical axis shows the number of pixels.

## Viewing Multiple Pictures: Thumbnail Playback

Rotate the zoom control to **W** (📐) in full-frame playback mode (📖 69) to display pictures in “contact sheets” of thumbnail images (except in list by date mode).



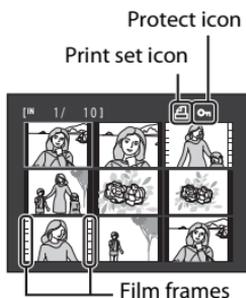
The following operations are available while thumbnails are displayed.

To	Use	Description	📖
Choose pictures		Rotate the rotary multi selector, or press ▲, ▼, ◀, or ▶.	9
Increase the number of pictures displayed/apply the calendar display	<b>W</b> (📐)	Rotate the zoom control to <b>W</b> (📐) to increase the number of picture thumbnails displayed: 4 → 9 → 16. Rotate the zoom control to <b>W</b> (📐) in the 16-picture thumbnail display to apply the calendar display (📖 73), and pictures can be found by the date on which they were taken. Rotate the zoom control to <b>T</b> (🕒) to return to thumbnail display.	—
Decrease the number of pictures displayed	<b>T</b> (🕒)	Rotate the zoom control to <b>T</b> (🕒) to decrease the number of picture thumbnails displayed: 16 → 9 → 4. Rotate the zoom control to <b>T</b> (🕒) in 4-picture thumbnail display to return to full-frame playback mode.	—
Switch to full-frame playback mode	Ⓞ	Press the Ⓞ button.	69
Switch to shooting mode		Press the  button, the shutter-release button, or the ● (movie-record) button.	28

## Viewing Multiple Pictures: Thumbnail Playback

### **Thumbnail Playback Mode Display**

When pictures marked using **Print set** (📖 83) or **Protect** (📖 89) are selected, the icons shown at right are displayed with them. Movies are displayed as film frames.



### **Thumbnail Display in Auto Sort Mode**

When thumbnails are displayed in auto sort mode (📖 76), the picture's category icon is displayed at right above the monitor.



## Calendar Display

With playback display of 16 thumbnails (📖 71), rotate the zoom control to **W** (📷) to switch to calendar display.

Images can be selected for display based on the date on which they were taken. The dates on which pictures were taken are underlined in yellow.

The following operations are available in calendar display.



To	Use	Description	📖
Select date		Rotate the rotary multi selector, or press ▲, ▼, ◀, or ▶.	9
Return to full-frame playback		The first picture taken on the selected date is displayed full frame.	69
Return to thumbnail display	<b>T</b> (📷)	Rotate the zoom control to <b>T</b> (📷).	71

More on Playback

### ✓ Notes on Calendar Display

- Pictures taken when the camera's date is not set are treated as pictures taken on January 1, 2010.
- The 🗑️ button and MENU button are not available in calendar display.

### 📷 List by Date Mode

Only the pictures taken on the same date can be played back in list by date mode (📖 79). The list by date options (📖 81) are also available only for the pictures taken on the selected dates.

## Taking a Closer Look: Playback Zoom

Rotating the zoom control to **T** (Q) in full-frame playback mode (📖 69) enlarges display of the center portion of the current picture.

- The guide displayed at bottom right shows the portion of the image currently displayed.

The following operations are available while picture display is enlarged.



To	Use	Description	📖
Zoom in	<b>T</b> (Q)	Zoom increases each time the zoom control is rotated to <b>T</b> (Q), to a maximum of 10x.	–
Zoom out	<b>W</b> (Q)	Zoom decreases each time the zoom control is rotated to <b>W</b> (Q). When the magnification ratio reaches 1x, the display returns to full-frame playback mode.	–
View other areas of picture		Press the rotary multi selector ▲, ▼, ◀, or ▶ to move the display area to other areas of the picture.	9
Switch to full-frame playback		Press the  button.	69
Crop picture	<b>MENU</b>	Create a cropped copy with only the enlarged portion and save the copy as a separate file.	99
Switch to shooting mode		Press the  button, the shutter-release button, or the  (movie-record) button.	28

### Pictures Taken with Face Priority

When zooming in (playback zoom) on a picture taken using the face-priority function (📖 47) by rotating the zoom control to **T** (Q), the picture will be enlarged with the face recognized with shooting at the center of the monitor (except pictures taken with **Continuous**, **BSS**, **Multi-shot 16**, and **Sport continuous**; 📖 42).

- If more than one face was recognized, the picture will be enlarged with the face on which focus was acquired at the center of the monitor. Press the rotary multi selector ▲, ▼, ◀, or ▶ to display other recognized faces.
- When the zoom control is rotated to **T** (Q) or **W** (Q) to adjust the zoom ratio, the center of the picture (normal playback zoom display), rather than the face, is displayed at the center of the monitor.

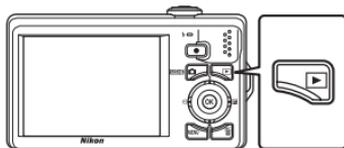


## Selecting a Playback Mode

Select a playback mode from  (playback),  (auto sort), and  (list by date) modes.

- 1** Press the  button in playback mode.

The playback-mode selection menu is displayed.



- 2** Use the rotary multi selector to select a playback mode and press the  button.

The camera enters the selected playback mode.

To return to the current playback mode without switching playback modes, press the  button.



- |   |  |  |
|---|--|--|
| <b>1</b>  |  <b>Playback mode</b>     |  69 |
| <p>Play back all pictures.</p>  |  |  |
| <b>2</b>  |  <b>Auto sort mode</b>    |  76 |
| <p>Play back pictures and movies automatically sorted to the selected category with shooting.</p> |  |  |
| <b>3</b>  |  <b>List by date mode</b> |  79 |
| <p>Play back pictures taken on the selected date.</p>   |  |  |

## Finding Pictures in Auto Sort Mode

Pictures and movies are automatically sorted to any of the following categories with shooting. When “ auto sort mode” is selected, pictures and movies can be viewed by selecting the category to which they were sorted.

 Smile	 Portraits	 Food
 Landscape	 Dusk to dawn	 Close-ups
 Movie	 Retouched copies	 Other scenes

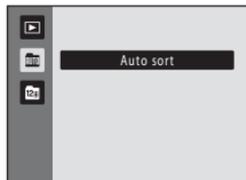
In full-frame playback mode, just as with normal playback mode, picture display can be enlarged and pictures can be displayed as thumbnails or in calendar mode, pictures can be edited, and movies can be played back.

When the **MENU** button is pressed, the auto sort menu ( 78) is displayed and all pictures sorted to the specified category can be selected for deletion, viewing in a slide show, or applying print order or protection settings.

### Viewing Pictures in Auto Sort Mode

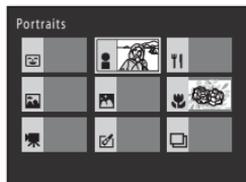
- 1 Press the  button in playback mode to display the playback-mode selection menu, use the rotary multi selector to select , and press the  button.

A list of categories is displayed.



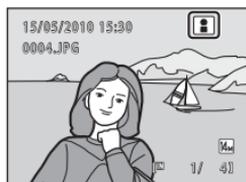
- 2 Use the rotary multi selector to select a desired category.

For more information on categories, see “Auto Sort Mode Categories” ( 77).



Press the  button to display a picture in the selected category in full-frame playback mode.

The icon of the category currently played back will be displayed at the top right of the screen.



## Auto Sort Mode Categories

Category	Description
 Smile	Pictures taken in smart portrait mode (📖 63) with the smile timer setting set to <b>On</b> .
 Portraits	Pictures taken in  (auto) mode (📖 22) with the face priority (📖 47). Pictures taken in <b>Portrait*</b> , <b>Night portrait*</b> , <b>Party/indoor</b> , and <b>Backlight*</b> scene mode (📖 51). Pictures taken in smart portrait mode (📖 63) with the smile timer setting set to <b>Off</b> .
 Food	Pictures taken in <b>Food</b> scene mode (📖 51).
 Landscape	Pictures taken in <b>Landscape*</b> scene mode (📖 51).
 Dusk to dawn	Pictures taken in <b>Night landscape*</b> , <b>Sunset</b> , <b>Dusk/dawn</b> and <b>Fireworks show</b> scene mode (📖 51).
 Close-ups	Pictures taken in  (auto) mode with macro mode (📖 33). Pictures taken in <b>Close-up*</b> scene mode (📖 51).
 Movie	Movies (📖 100).
 Retouched copies	Copies created using editing function (📖 93).
 Other scenes	All other pictures that cannot be defined by the categories described above.

\* Pictures taken in scene auto selector scene mode (📖 52) are also sorted to the appropriate categories.

## Notes on Auto Sort Mode

- Up to 999 pictures and movie files can be sorted to each category in auto sort mode. If 999 pictures or movies have already been sorted to a specific category, new pictures and movies cannot be sorted to that category nor can they be displayed in auto sort mode. Display pictures and movies that could not be sorted to a category in normal playback mode (📖 28) or list by date mode (📖 79).
- Pictures or movies copied from the internal memory to a memory card, or vice versa (📖 92), cannot be displayed in auto sort mode.
- Pictures or movies recorded by a camera other than the COOLPIX S6000 cannot be displayed in auto sort mode.

## Operations in Auto Sort Mode

The following operations are available in the category list screen.

To	Use	Description	
Select a category		Rotate the rotary multi selector, or press ▲, ▼, ◀, or ▶ to select the category.	9
Switch to full-frame playback		Press the  button to display the first picture in the selected category.	69
Delete picture		Press the  button after selecting a category, and a confirmation dialog will be displayed. Choose <b>Yes</b> and press the  button to delete all pictures sorted to that category.	28
Switch to another playback mode		Press the  button to display the playback-mode selection menu.	75
Switch to shooting mode		Press the  button, the shutter-release button, or the  (movie-record) button.	28
			
			

More on Playback

## Auto Sort Menu

Press the **MENU** button in full-frame playback mode or thumbnail playback mode in auto sort mode to apply the following menu options.

Quick retouch	→  95	Delete	→  87
D-Lighting	→  96	Protect	→  89
Skin softening	→  97	Rotate image	→  89
Print set	→  83	Small picture	→  98
Slide show	→  86	Voice memo	→  90

## Viewing Pictures by Date (List by Date)

In “ list by date mode”, pictures taken on the same date can be played back.

In full-frame playback mode, just as with normal playback mode, picture display can be enlarged, pictures can be edited, and movies can be played back.

When the **MENU** button is pressed, the list by date menu ( 81) is displayed and all pictures taken on a specified date can be selected for deletion, viewing in a slide show, or applying print order or protection settings.

### Selecting a Date in List by Date Mode

- 1 Press the  button in playback mode to display the playback-mode selection menu, use the rotary multi selector to select , and press the **OK** button.

Dates for which pictures exist are listed.



- 2 Use the rotary multi selector to select the desired date.

The camera lists up to 29 dates. If pictures exist for more than 29 dates, all pictures recorded earlier than most recent 29 dates will be combined under **Others**.



When the **OK** button is pressed, the first picture taken on the selected date will be displayed full frame.

Rotate the zoom control to **W** () in full-frame playback mode to return to the list by date screen.



### Notes on List by Date Mode

- Up to 9,000 of the most recently recorded pictures can be displayed in list by date mode.
- Pictures taken when the camera's date is not set are treated as pictures taken on January 1, 2010.
- Histogram and shooting information cannot be displayed in list by date mode.

## Operations in List by Date Mode

The following operations are available in the list by date screen.

To	Use	Description	
Select date		Rotate the rotary multi selector, or press ▲ or ▼ to select a date.	9
Switch to full-frame playback		Press the  button to display the first picture taken on the selected date. Rotate the zoom control to <b>W</b> (  ) in full-frame playback mode to return to the list by date screen.	69
Delete picture		Press the  button to delete all pictures taken on the selected date, and a confirmation dialog will be displayed. Choose <b>Yes</b> and press the  button to delete all the pictures.	28
View list by date menu	<b>MENU</b>	Press the <b>MENU</b> button to display the list by date menu.	81
Switch to another playback mode		Press the  button to display the playback-mode selection menu.	75
Switch to shooting mode		Press the  button, the shutter-release button, or the  (movie-record) button.	28
			
			

## List by Date Menu

Press the **MENU** button in list by date mode to display the following menus for only the pictures taken on the specified date.

Quick retouch*	→  95
D-Lighting*	→  96
Skin softening*	→  97
Print set	→  83
Slide show	→  86
Delete	→  87
Protect	→  89
Rotate image*	→  89
Small picture*	→  98
Voice memo*	→  90

\* During full-frame playback only

When the **MENU** button is pressed in the list by date screen ( 79), options can be applied to all pictures taken on the same date, or all pictures taken on the same date can be deleted. To apply options to individual pictures, or to select individual pictures for deletion, display a picture full-frame and press the **MENU** button.

## Playback Options: Playback Menu

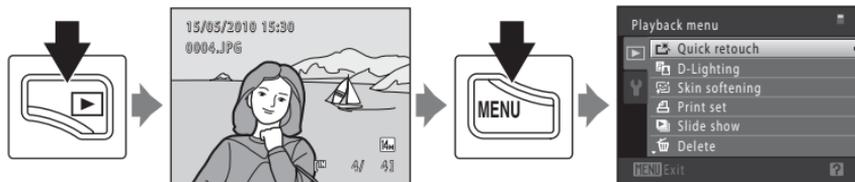
The following options are available in the playback menu.

	<b>Quick retouch</b>  95
Easily create retouched copies in which contrast and saturation have been enhanced.	
	<b>D-Lighting</b>  96
Enhances brightness and contrast in dark portions of pictures.	
	<b>Skin softening</b>  97
Make facial skin tones softer.	
	<b>Print set</b>  83
Select pictures to print and the number of copies for each.	
	<b>Slide show</b>  86
View pictures stored in the internal memory or on a memory card in an automatic slide show.	
	<b>Delete</b>  87
Delete all or selected pictures.	
	<b>Protect</b>  89
Protect selected pictures from accidental deletion.	
	<b>Rotate image</b>  89
Change the orientation of pictures.	
	<b>Small picture</b>  98
Create a small copy of the current picture.	
	<b>Voice memo</b>  90
Record voice memos for pictures.	
	<b>Copy</b>  92
Copy files between memory card and internal memory.	

### Displaying the Playback Menu

Press the  button to enter playback mode ( 69).

Press the **MENU** button to display the playback menu.



- Use the rotary multi selector to choose and apply settings ( 9).
- Press the **MENU** button to exit the playback menu.

## Print Set (Creating a DPOF Print Order)

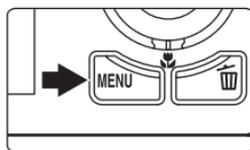
▶ button (Playback mode) → MENU (Playback menu) → Print set

When printing pictures stored on the memory card using any of the following methods, the **Print set** 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 (📖 160) printer’s card slot
- Taking the memory card to a digital photo lab
- Connecting the camera to a PictBridge-compatible (📖 160) printer (📖 114). A print order can also be created for pictures stored in the internal memory if the memory card is removed from the camera.

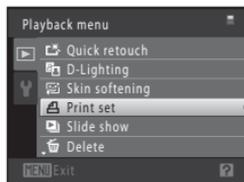
### 1 Press the MENU button in playback mode.

The playback menu is displayed.

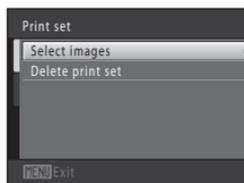


### 2 Use the rotary multi selector to choose **Print set** and press the OK button.

Proceed to step 4 when playing back in auto sort mode or list by date mode.



### 3 Choose **Select images** and press the OK button.



### 4 Choose pictures (up to 99) and the number of copies (up to nine) of each.

Rotate the rotary multi selector, or press ◀ or ▶ to select pictures, and press ▲ or ▼ to specify the number of copies to be printed.

Picture 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 pictures, the selection is canceled.

Rotate the zoom control to **T** (📷) to switch to full-frame playback.

Rotate the zoom control to **W** (📺) to switch back to 12-thumbnail display.

Press the OK button when setting is complete.



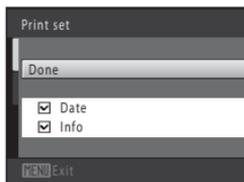
## 5 Choose whether or not to print shooting date and photo information.

Choose **Date** and press the **OK** button to print the shooting date on all pictures in the print order.

Choose **Info** and press the **OK** button to print photo information (shutter speed and aperture) on all pictures in the print order.

Choose **Done** and press the **OK** button to complete the print order.

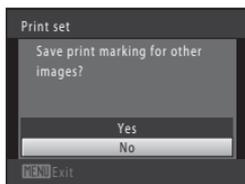
Pictures selected for printing are recognized by the  icon displayed with playback.



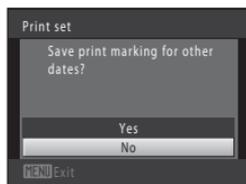
### Notes on Print Set

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

- Select **Yes** to add pictures in the selected category or taken on the selected shooting date, to the existing print order.
- Select **No** to remove print marking from previously marked pictures and restrict the print order to pictures in the selected category or taken on the selected shooting date.



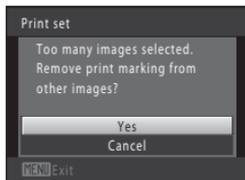
Auto sort mode



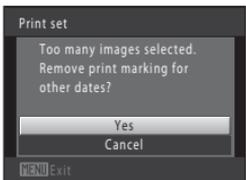
List by date mode

If the total number of the pictures in a print order exceeds 99, the screen shown below will be displayed.

- Select **Yes** to remove pictures previously added from the print order and restrict the print order to pictures just marked.
- Select **Cancel** to remove the pictures just added from the print order and restrict the print order to pictures previously marked.



Auto sort mode



List by date mode

## ✓ Notes on Printing Shooting Date and Photo Information

When the **Date** and **Info** settings are enabled in the print set option, shooting date and photo information are printed on pictures when a DPOF-compatible (📖 160) printer that 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 supplied USB cable, for DPOF printing (📖 119).
- Note that **Date** and **Info** settings are reset when the print set option is displayed.
- The date printed is that recorded when the picture was taken. Changing the camera's date using the **Date** option in the setup menu after a picture has been taken has no effect on the date printed on the picture.



## ✍ Canceling Existing Print Order

Select **Delete print set** in step 3 of "Print Set (Creating a DPOF Print Order)" (📖 83) and press the **OK** button to remove print marking from all pictures and cancel the print order.

## 🕒 Date Imprint

When date and time of recording are imprinted on pictures using the **Date imprint** option (📖 128) in setup menu, pictures are recorded with shooting date and time imprinted on the picture when they are taken. Pictures with the date imprinted on them can be printed from printers that do not support printing of the date on pictures.

Only the **Date imprint** date and time on pictures will be printed, even if **Print set** is enabled with **Date** selected in the print set screen.

## Slide Show

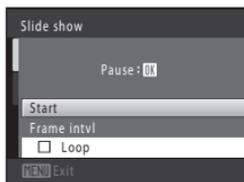
▶ button (Playback mode) → MENU (Playback menu) → Slide show

Play back pictures, stored in the internal memory or on a memory card, one by one in an automated “slide show.”

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

To change the interval between pictures, choose **Frame intvl**, select the desired interval time, and press the **OK** button before choosing **Start**.

To repeat the slide show automatically, choose **Loop** and press the **OK** button before choosing **Start**. The check mark (✓) will be added to the loop option when enabled.



### 2 The slide show begins.

While the slide show is in progress, the following operations are available:

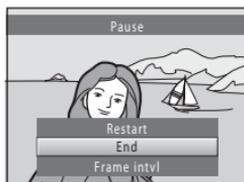
Press the rotary multi selector ▶ to display the subsequent picture or ◀ to display the previous picture. Hold down either button to fast forward or rewind.

Press the **OK** button to pause the slide show.



### 3 End the slide show or restart it.

When the slide show ends or is paused, choose **End** and press the **OK** button to return to the playback menu, or choose **Restart** to play the slide show again.



### Notes on Slide Show

- Only the first frame of movies included in a slide show is displayed.
- The maximum playback time is up to 30 minutes even if **Loop** is enabled (📖 133).

## Delete (Deleting Multiple Pictures)

 button (Playback mode) → MENU (Playback menu) →  Delete

Delete selected pictures or all pictures.

### Erase selected images

Select pictures from the picture selection screen and delete them. See “Selecting Pictures” ( 88) for more information.

### Erase all images

Delete all pictures. In auto sort or list by date mode, all pictures in the category or taken on the selected date, are deleted.

## Notes on Deletion

- Once deleted, pictures cannot be recovered. Transfer important pictures to a computer before deleting them.
- Pictures marked with the  icon are protected and cannot be deleted ( 89).

## Selecting Pictures

The picture selection screen like that shown at right is displayed with the following menu selections:

- **Playback menu: Print set>Select images** (📖 83), **Delete>Erase selected images** (📖 87), **Protect** (📖 89), **Rotate image** (📖 89), and **Copy>Selected images** (📖 92)
- **Setup menu: Welcome screen>Select an image** (📖 123)



Follow the procedures described below to choose the pictures.

- 1 Rotate the rotary multi selector, or press ◀ or ▶ to choose the desired picture.**

Only one picture can be selected for **Rotate image** and **Welcome screen**. Proceed to step 3.

Rotate the zoom control to **T** (🔍) to switch to full-frame playback or **W** (🖼️) to switch back to 12-thumbnail display.



- 2 Press ▲ or ▼ to select or deselect (or to specify the number of copies).**

When a picture is selected, a check mark (✔) is displayed with the picture. Repeat steps 1 and 2 to select additional pictures.



- 3 Press the ⓄK button to apply picture selection.**

When **Erase selected images** is selected, a confirmation dialog is displayed. Follow the instructions displayed in the monitor.

## Protect

 button (Playback mode) → MENU (Playback menu) →  Protect

Protect selected pictures from accidental deletion.

Select pictures to protect or cancel protection for previously protected pictures from the picture selection screen. See “Selecting Pictures” ( 88) for more information.

Note that formatting the camera’s internal memory or the memory card will permanently delete protected files ( 134).

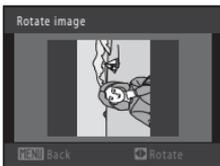
Protected pictures are recognized by the  icon in playback mode ( 7, 72).

## Rotate Image

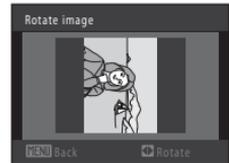
 button (Playback mode) → MENU (Playback menu) →  Rotate image

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

Select a picture from the picture selection screen ( 88). When the **Rotate image** screen is displayed, rotate the rotary multi selector or press  or  to rotate the picture 90 degrees.



Rotate 90 degrees  
counterclockwise



Rotate 90 degrees  
clockwise

Press the  button to finalize display orientation, and save orientation information with the picture.

## Voice Memos

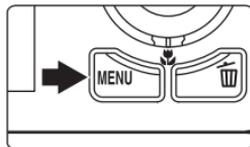
 button (Playback mode) → MENU (Playback menu) →  Voice memo

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

### Recording Voice Memos

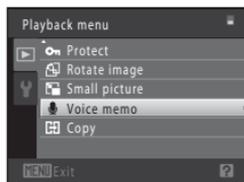
- 1 Display the desired picture in full-frame playback mode ( 69) or thumbnail playback mode ( 71) and press the **MENU** button.

The playback menu is displayed.



- 2 Use the rotary multi selector to choose  **Voice memo** and press the **OK** button.

The screen for recording voice memos is displayed.



- 3 Press and hold the **OK** button to record a voice memo.

Recording ends after about 20 seconds or when the **OK** button is released.

Do not touch the built-in microphone during recording.

During recording, **REC** and  blink in the monitor.

When recording ends, the voice memo playback screen is displayed. Follow the procedure in step 3 of "Playing Voice Memos" ( 91) to play the voice memo.

Press the **MENU** button before or after recording a voice memo to return to full-frame playback mode.



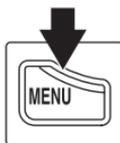
## More Information

## Playing Voice Memos

Pictures for which voice memos have been recorded are indicated by  in full-frame playback mode.

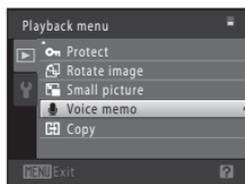
- 1 Select the desired picture in full-frame playback mode ( 69) or thumbnail playback mode ( 71) and press the **MENU** button.

The playback menu is displayed.



- 2 Use the rotary multi selector to choose  **Voice memo** and press the **OK** button.

The voice memo playback screen is displayed.



- 3 Press the **OK** button to play the voice memo.

Press the **OK** button again to stop playback.

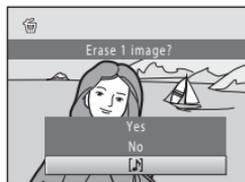
Rotate the zoom control to **T** or **W** during playback to adjust playback volume.

Press the **MENU** button before or after playing a voice memo to return to full-frame playback mode.



## Deleting Voice Memos

Select a picture with a voice memo and press the  button. Use the rotary multi selector to choose  and press the **OK** button. Only the voice memo will be deleted.



### Notes on Voice Memos

- When a picture with a voice memo attached is deleted, both the picture and its voice memo are deleted.
- If a voice memo already exists for the current picture, it must be deleted before a new voice memo can be recorded.
- The COOLPIX S6000 is not able to record a voice memo for pictures taken with another make or model of digital camera.

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

 button (Playback mode) → MENU (Playback menu) →  Copy

Copy pictures between the internal memory and a memory card.

- 1 Use the rotary multi selector to select a destination option to which pictures are copied and press the  button.

 → : Copy pictures from internal memory to memory card.

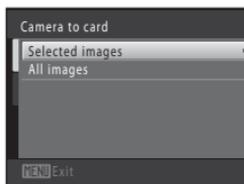
 → : Copy pictures from memory card to internal memory.



- 2 Select a copy option and press the  button.

**Selected images:** Copy pictures selected from the picture selection screen ( 88).

**All images:** Copy all pictures.



### Notes on Copying Pictures

- JPEG-, MOV-, and WAV-format files can be copied. Files recorded in any other format cannot be copied.
- If voice memos ( 90) are attached to pictures selected for copying, voice memos are copied with the pictures.
- Operation is not guaranteed with pictures taken with another make of camera or that have been modified on a computer.
- When pictures selected for a print order ( 83) are copied, print marking is not copied with pictures (copies will not be included in the print order). When protected pictures ( 89) are copied, the copies are also protected.
- Pictures or movies copied from the internal memory or a memory card cannot be displayed in auto sort mode ( 76).

### Memory contains no images. Message

If there are no pictures stored on a memory card inserted in the camera when playback mode is applied, the message **Memory contains no images.** will be displayed. Press the **MENU** button to display the copy option screen, and copy the pictures stored in the camera's internal memory to the memory card.

### More Information

See "Image/Sound File and Folder Names" ( 146) for more information.

## Editing Functions

Use the COOLPIX S6000 to edit pictures in-camera and store them as separate files (📖 146). The editing functions described below are available.

Editing function	Description
Quick retouch (📖 95)	Easily create retouched copies in which contrast and saturation have been enhanced.
D-Lighting (📖 96)	Create a copy of the current picture with enhanced brightness and contrast, brightening dark portions of the picture.
Skin softening (📖 97)	Make facial skin tones softer.
Small picture (📖 98)	Create a small copy of pictures suitable for use as e-mail attachments.
Crop (📖 99)	Crop a portion of the picture. Use to zoom in on a subject or arrange a composition.

### ✔ Notes on Picture Editing

- Pictures taken at an **Image mode** setting of **4224 × 2376** (📖 37) cannot be edited.
- The editing functions of this camera cannot be used for pictures taken with another make or model of digital cameras.
- If no face is recognized in a picture, a copy cannot be created using the skin softening function (📖 97).
- Edited copies created with this camera 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 Picture Editing

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

Editing function used	Editing function to add
Quick retouch D-Lighting	The skin softening, small picture, or crop function can be added. The quick retouch and D-Lighting functions cannot be used together.
Skin softening	The quick retouch, D-Lighting, small picture, or crop function can be added.
Small picture Crop	Another editing function cannot be added.

- Copies created with editing functions 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 and crop functions after other editing functions have been applied.
- The skin softening function can be added to the picture taken with skin softening (📖 65).

### **Original and Edited Pictures**

- Copies created with editing functions are not deleted if the original pictures are deleted. The original pictures are not deleted if copies created with editing functions are deleted.
- Edited copies are stored with the same recording date and time as the original.
- Print marking ( 83) and protect settings ( 89) do not remain effective in edited copies.

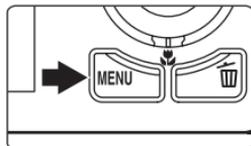
# Picture Editing

## Quick Retouch: Enhancing Contrast and Saturation

Quick retouch can be used to easily create retouched copies in which contrast and saturation have been enhanced. Copies created with the quick retouch function are stored as separate files.

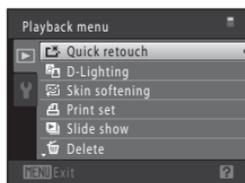
- 1 Select the desired picture in full-frame playback mode ( 69) or thumbnail playback mode ( 71) and press the **MENU** button.

The playback menu is displayed.



- 2 Use the rotary multi selector to choose  **Quick retouch** and press the **OK** button.

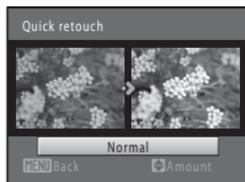
The original version is displayed on the left and the edited version is displayed on the right.



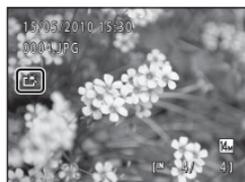
- 3 Press the rotary multi selector **▲** or **▼** to choose the degree of enhancement performed and press the **OK** button.

A new, edited copy is created.

To exit without saving the copy, press the **MENU** button.



Copies created with the quick retouch function can be recognized by the  icon displayed in playback mode.



## More Information

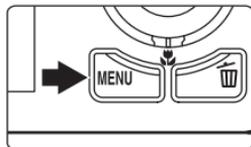
See "Image/Sound File and Folder Names" ( 146) for more information.

## D-Lighting: Enhancing Brightness and Contrast

D-Lighting can be used to create copies with enhanced brightness and contrast, brightening dark portions of a picture. Enhanced copies are stored as separate files.

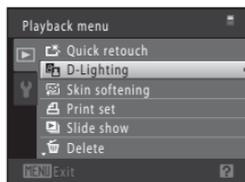
- 1 Select the desired picture in full-frame playback mode ( 69) or thumbnail playback mode ( 71) and press the **MENU** button.

The playback menu is displayed.



- 2 Use the rotary multi selector to choose  **D-Lighting** and press the **OK** button.

The original version is displayed on the left and the edited version is displayed on the right.



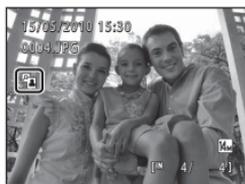
- 3 Choose **OK** and press the **OK** button.

A new, edited copy is created.

To exit without saving the copy, choose **Cancel** and press the **OK** button.



Copies created with the D-Lighting function can be recognized by the  icon displayed in playback mode.



### More Information

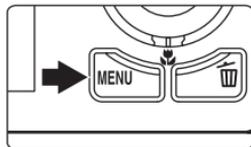
See "Image/Sound File and Folder Names" ( 146) for more information.

## Skin Softening: Softening Skin Tones

The camera recognizes faces in pictures and creates a copy with softer facial skin tones. Copies created using the skin softening function are stored as separate files.

- 1 Select the desired picture in full-frame playback mode (📖 69) or thumbnail playback mode (📖 71) and press the **MENU** button.

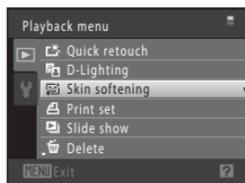
The playback menu is displayed.



- 2 Use the rotary multi selector to choose  **Skin softening** and press the **OK** button.

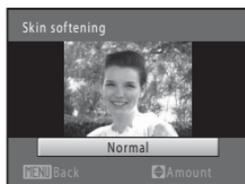
The screen for selecting the degree of softening is displayed.

If no faces are recognized in the picture, an alert is displayed and the camera returns to the playback menu.



- 3 Press the rotary multi selector **▲** or **▼** to choose the degree of softening and press the **OK** button.

The confirmation screen is displayed with the face to which skin softening was applied enlarged at the center of the monitor. To exit without saving the copy, press the **MENU** button.



- 4 Check the preview of the copy.

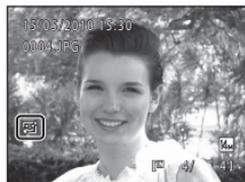
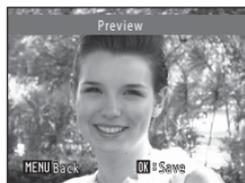
Skin tones in up to 12 faces, in the order of that closest to the center of the frame, are softened.

If more than one face was softened, press the rotary multi selector **◀** or **▶** to display a different face.

Press the **MENU** button to adjust the degree of softening. The monitor display returns to that shown in step 3.

When the **OK** button is pressed, a new, edited copy is created.

Copies created with the skin softening function can be recognized by the  icon displayed in playback mode.



### Note on Skin Softening

Depending upon the direction in which faces are looking, or the brightness of faces, the camera may be unable to accurately recognize faces, or the skin softening function may not perform as expected.

### More Information

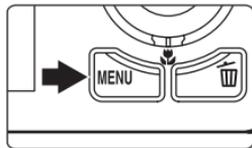
See "Image/Sound File and Folder Names" (📖 146) for more information.

## Small Picture: Resizing Pictures

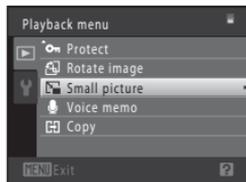
Create a small copy of the current picture. This feature is useful for creating copies for display on Web pages or e-mail attachments. Small copies are stored as JPEG files with a compression ratio of 1:16. The  **640×480**,  **320×240**, and  **160×120** sizes are available.

- 1 Select the desired picture in full-frame playback mode ( 69) or thumbnail playback mode ( 71) and press the **MENU** button.

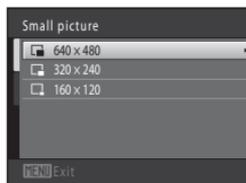
The playback menu is displayed.



- 2 Use the rotary multi selector to choose  **Small picture** and press the **OK** button.



- 3 Choose the desired copy size and press the **OK** button.

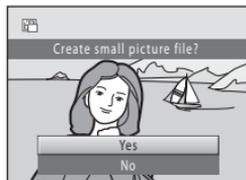


- 4 Choose **Yes** and press the **OK** button.

A new, small copy is created.

To exit without saving the copy, choose **No** and press the **OK** button.

The copy is displayed with a gray frame.



## More Information

See "Image/Sound File and Folder Names" ( 146) for more information.

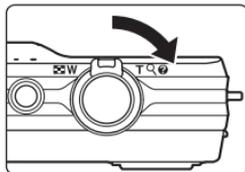
## Crop: Creating a Cropped Copy

Create a copy containing only the portion visible in the monitor when **MENU**  is displayed with playback zoom ( 74) enabled. Cropped copies are stored as separate files.

- 1 Rotate the zoom control to **T** () in full-frame playback mode ( 69) to zoom in on the image.

To crop a picture displayed in “tall” (portrait) orientation, zoom in on the picture until the black bars displayed on the both sides of the monitor disappear. The cropped picture will be displayed in landscape orientation.

To crop the picture in its current “tall” (portrait) orientation, first use the **Rotate image** option ( 89) to rotate the picture so that it is displayed in landscape orientation. Next, enlarge the picture for cropping, crop the picture, and then rotate the cropped picture back to “tall” (portrait) orientation.



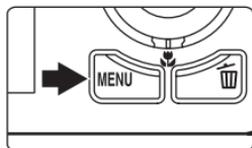
- 2 Refine copy composition.

Rotate the zoom control to **T** () or **W** () to adjust the zoom ratio.

Press the rotary multi selector , , , or  to scroll the picture so that only the portion to be copied is visible in the monitor.



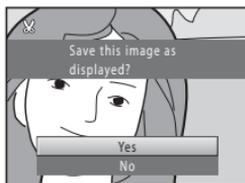
- 3 Press the **MENU** button.



- 4 Use the rotary multi selector to choose **Yes** and press the **OK** button.

A cropped copy is created.

To exit without saving the copy, choose **No** and press the **OK** button.



### Image Size

As the area to be saved is reduced, the image size (pixels) of the cropped copy is also reduced. When the image size of the cropped copy is 320 × 240 or 160 × 120, a gray frame is displayed around the picture, and the small picture icon  or  is displayed in the left of the monitor in playback mode.

### More Information

See “Image/Sound File and Folder Names” ( 146) for more information.

## Recording Movies

High-definition movies with sound recorded via the built-in microphone can be recorded.

- 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 (📖 103).

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

Movies can be recorded in any shooting mode (📖 35).

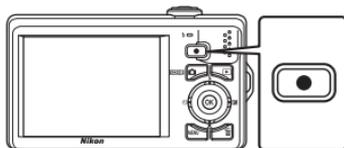
The icon for the selected movie option is displayed. The default setting is **720p HD 720p (1280 × 720)** (📖 103).



Movie option

### 2 Press the **●** (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 (1280 × 720)** is selected for **Movie options**, monitor display changes to an aspect ratio of 16:9 with movie recording (the area indicated at right is recorded).

The approximate remaining movie length is displayed during recording.

Recording stops automatically when the maximum movie length has been recorded.



### 3 Press the **●** (movie-record) button again to end recording.

## ✓ Recording Movies

- Memory cards with an SD Speed Class rating of 6 or faster are recommended when recording movies (📖 145). Movie recording may stop unexpectedly when memory cards with a lower Speed Class ratings are used.
- 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 2X the optical zoom ratio applied before movie recording began.
- There may be some degradation in image quality when digital zoom is used. When recording ends, digital zoom is disabled.
- The sounds of zoom control operation, autofocus lens drive movement and vibration reduction operation may be recorded.
- Smear (📖 144) 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.

## ✓ Notes on Autofocus for Movie Recording

- When  **Single AF** (default setting) is selected for **Autofocus mode** in movie menu, focus is locked by pressing the  (movie-record) button to start recording (📖 104).
- Autofocus may not perform as expected (📖 27). Should this occur, try the following:
  1. Set **Autofocus mode** in the movie menu to  **Single AF** (default setting) before starting movie recording.
  2. Frame another subject—positioned at the same distance from the camera as the intended subject—in the center of the frame, press the  (movie-record) button to start recording, and then modify the composition.

## ✓ Note on Saving Movies

After a movie has been recorded, it is not fully saved to the internal memory or memory card until monitor display returns to the shooting display. **Do not open the battery-chamber/memory card slot cover** before movies have been fully saved. Removing the memory card while movies are being saved could result in loss of data or in damage to the camera or card.

## 📎 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 (📖 32) can be used. When the  (movie-record) button is pressed after the self-timer is enabled, the camera focuses at the center of the frame and starts movie recording after the specified 2 or 10 seconds.
- The flash will not fire.
- Press the **MENU** button to select the  (movie) tab and adjust movie menu settings before starting movie recording (📖 102).

## Movie Menu

The following options can be adjusted from the movie menu.

 **Movie options**  103

Select an option for movie recording.

 **Autofocus mode**  104

Select how the camera focuses during movie recording.

## Displaying the Movie Menu

- 1 Press the **MENU** button in shooting mode.

The menu is displayed.

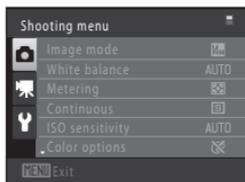
If the **MENU** button was pressed in scene mode, press the rotary multi selector ( 9)

 to display the tabs.

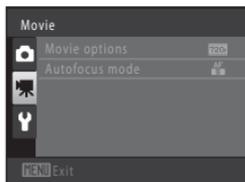


- 2 Press the rotary multi selector .

Tab selection is activated.



- 3 Press  or  to select the  tab.

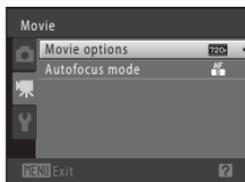


- 4 Press  or the  button.

The movie menu items can be selected.

Use the rotary multi selector to choose and apply settings ( 9).

To exit the movie menu, press the **MENU** button or  to select a different tab.



## 🎬 Movie Options

Switch to shooting mode → MENU → 🎬 (Movie menu) (📖 102) → 🎬 Movie options

Select the desired movie option to record. Larger image sizes and faster movie bitrates mean greater image quality and larger movie file sizes.

Option	Description
 HD 720p (1280 × 720) (default setting)	Movies with an aspect ratio of 16:9 are recorded in high definition. This option is suited to playback on a wide screen TV. <ul style="list-style-type: none"> <li>• Image size: 1280 × 720 pixels</li> <li>• Movie bitrate: 8.1 Mbps</li> </ul>
 VGA (640 × 480)	Movies with an aspect ratio of 4:3 are recorded. <ul style="list-style-type: none"> <li>• Image size: 640 × 480 pixels</li> <li>• Movie bitrate: 2.8 Mbps</li> </ul>
 QVGA (320 × 240)	Movies with an aspect ratio of 4:3 are recorded. <ul style="list-style-type: none"> <li>• Image size: 320 × 240 pixels</li> <li>• Movie bitrate: 820 kbps</li> </ul>

- The movie bitrate is the volume of movie data recorded per second. As a variable bitrate (VBR) system has been adopted, the movie recording rate varies automatically according to the subject so that more data is recorded per second for movies containing frequently moving subjects, thus increasing movie file size.
- The frame rate is approximately 30 frames per second in any options.

## 📎 Movie Options and Maximum Movie Length

Option	Internal memory (approx. 32 MB)	Memory card (4 GB)*
 HD 720p (1280 × 720)	29 s	60 min
 VGA (640 × 480)	1 min 27 s	3 h
 QVGA (320 × 240)	5 min 7 s	10 h

All figures are approximate. The maximum recording time may vary by make of memory card and the bitrates at which the movie was recorded.

\* The maximum recording time for a single movie is 29 minutes. The maximum movie length displayed during recording is 29 minutes, even when there is enough free space on the memory card for a longer movie.

## 📖 More Information

See "Image/Sound File and Folder Names" (📖 146) for more information.

## Autofocus Mode

Switch to shooting mode → MENU →  (Movie menu) (📖 102) →  Autofocus mode

Select how the camera focuses in movie mode.

Option	Description
 <b>Single AF</b> (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.
 <b>Full-time AF</b>	Camera focuses continuously. Select this option when the distance between the camera and subject will change significantly during recording. Use of <b>Single AF</b> is recommended to prevent the sound of the camera focusing from interfering with recording.

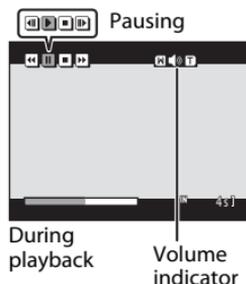
# Movie Playback

In full-frame playback mode (📖 69), movies are recognized by the **Movie options** icon (📖 103). To play a movie, display it in full-frame playback mode and press the **OK** button.

Rotate the zoom control to **T** or **W** to adjust playback volume.

Rotating the rotary multi selector enables advancing/rewinding.

Playback controls are displayed at the top of the monitor. Press the rotary multi selector ◀ or ▶ to choose a control, then press the **OK** button to perform the selected operation. The operations described below are available.



To	Use	Description
Rewind	⏮	Hold down the <b>OK</b> button to rewind the movie.
Advance	⏭	Hold down the <b>OK</b> button to advance the movie.
Pause	⏸	Press the <b>OK</b> button to pause playback. The following operations can be performed while playback is paused using the controls displayed at the top in the monitor.
		⏮ Press the <b>OK</b> button to rewind the movie. Hold down the <b>OK</b> button for continuous rewinding.*
		⏭ Press the <b>OK</b> button to advance the movie. Hold down the <b>OK</b> button for continuous advancing.*
	▶	Press the <b>OK</b> button to resume playback.
End	⏹	Press the <b>OK</b> button to end movie playback and return to full-frame playback mode.

\* The rotary multi selector can also be rotated to advance or rewind the movie.

## 🗑 Note on Playing Back Movies

The COOLPIX S6000 is not able to playback movies recorded with another make or model of digital camera.

## Deleting Movies

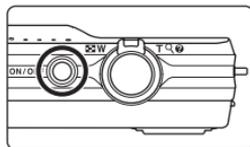
Select a movie and press the **🗑** button in full-frame playback mode (📖 69) or thumbnail playback mode (📖 71). A confirmation dialog is displayed. Choose **Yes** and press the **OK** button to delete the movie, or choose **No** and press the **OK** button to exit without deleting the movie.



## Connecting to a TV

Connect the camera to a television to play pictures or movies back on the television. If your TV is equipped with an HDMI jack, a commercially HDMI cable can be used to connect the camera to the TV for high-definition display.

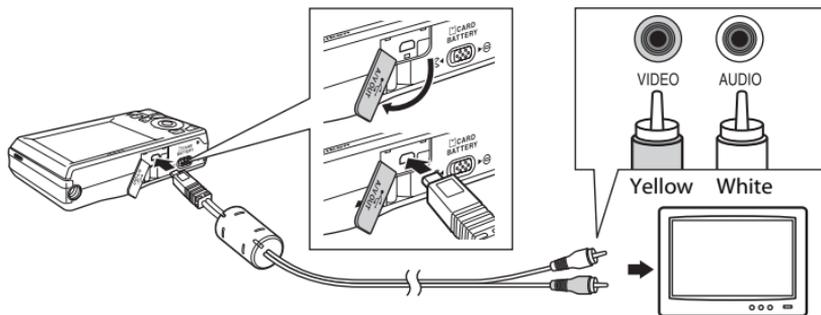
- 1 Turn off the camera.



- 2 Connect the camera to the TV.

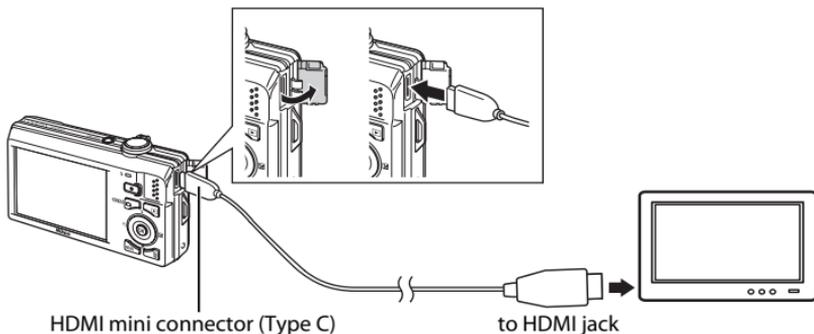
### When using the supplied audio/video cable

Connect the yellow plug to the video-in jack and the white plug to the audio-in jack on the TV.



### When using a commercially available HDMI cable

Connect the plug to the HDMI jack on the TV.



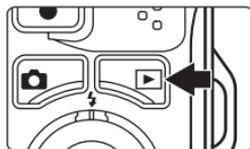
### 3 Tune the television to the video channel.

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 pictures are displayed on the television.

While connected to the TV, the camera monitor will remain off.



### Notes on Connecting the HDMI Cable

- HDMI cable is not provided. Use a commercially available HDMI cable to connect the camera to a high-definition TV. The output terminal on this camera is an HDMI mini connector (type C). When purchasing an HDMI cable, be sure that the device end of the cable is an HDMI mini connector.
- **Image mode** ( 37) settings of  **2048 x 1536** or higher and a **Movie options** ( 103) setting of **HD 720p (1280 x 720)** are recommended for pictures or movies that will be played back on a TV via HDMI connection.

### Connecting the Cable

- 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.
- Do not connect the HDMI cable and audio/video cable to the camera simultaneously.
- Do not connect the HDMI cable and USB cable to the camera simultaneously.

### Video Mode

Be sure that the camera's video mode setting conforms to the standard used by your television. The video mode setting is specified from the **TV settings** ( 135) option in the setup menu ( 120).

# Connecting to a Computer

Use the supplied USB cable to connect the camera to a computer, and copy (transfer) pictures to a computer with the supplied Nikon Transfer software.

## Before Connecting the Camera

### Install the Software

Before connecting the camera to a computer, software, including Nikon Transfer, ViewNX for displaying transferred pictures, and Panorama Maker for creating panorama photos, must be installed using the supplied Software Suite CD. For more information on installing the software, refer to the *Quick Start Guide*.

### Compatible Operating Systems

#### Windows

- Windows 7 (Home Basic/Home Premium/Professional/Enterprise/Ultimate editions)
- Windows Vista Service Pack 2 (Home Basic/Home Premium/Business/Enterprise/Ultimate editions)
- 32-bit versions of Windows XP Service Pack 3 (Home Edition/Professional)

#### Macintosh

Mac OS X (version 10.4.11, 10.5.8, 10.6)

For information on the requirements for playing back high-definition movies, refer to the ViewNX help information (System Requirements>H.264 High-Definition (HD) movie playback) (📖 112).

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

#### ✔ Note on Computer Connection

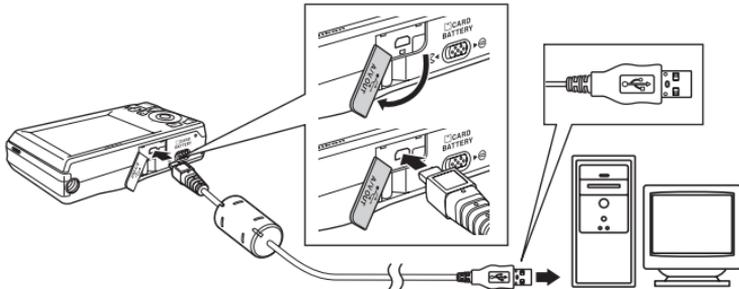
Disconnect other USB devices such as commercial USB chargers from the computer. Simultaneous connection of the camera and other USB devices to the computer could result in operation malfunction or excessive supply of power to the camera, causing damage to the camera or memory card. Refer to the documentation supplied with other USB devices for more information.

#### ✔ Notes on Power Source

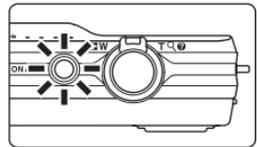
- When connecting the camera to a computer to transfer pictures, use a fully charged battery to prevent the camera from turning off unexpectedly.
- When the camera is connected to a computer via the supplied USB cable with **Auto** (default setting) selected for the **Charge by computer** option in the setup menu, the battery inserted into the camera is automatically charged using power supplied by the computer (📖 113, 136). Pictures can be transferred while the battery is charging.
- If the AC Adapter EH-62F (📖 145) (available separately) is used, COOLPIX S6000 can be powered from an electrical outlet. Do not use any other make or model of AC adapter as they may cause the camera to overheat or malfunction.

## Transferring Pictures from a Camera to a Computer

- 1 Start the computer to which Nikon Transfer was installed.
- 2 Be sure that the camera is off.
- 3 Connect the camera to the computer using the supplied USB cable.



The camera is automatically turned on and the power-on lamp will light. The camera monitor will remain off.



### ✓ Connecting the 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.
- The connection may not be recognized if the camera is connected to the computer via a USB hub.

## 4 Start Nikon Transfer installed on the computer.

### • Windows 7

When the **Devices and Printers ▶ S6000** screen is displayed, click **Change program** under **Import pictures and videos**. Select **Copy pictures to a folder on my computer** in the **Change program** dialog and click **OK**.

Double-click **Copy pictures to a folder on my computer** on the **Devices and Printers ▶ S6000** screen.

### • Windows Vista

When the **AutoPlay** dialog is displayed, click **Copy pictures to a folder on my computer using Nikon Transfer**.

### • Windows XP

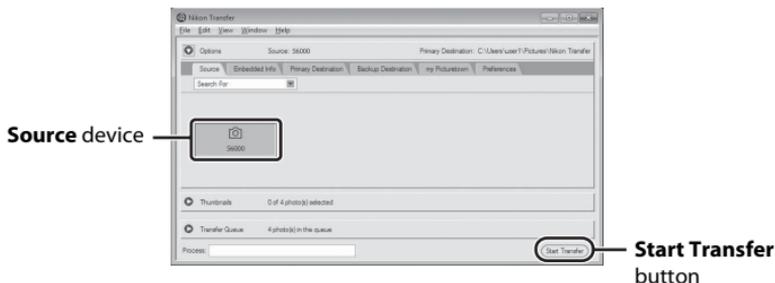
When the action selection dialog is displayed, select **Nikon Transfer Copy pictures to a folder on my computer**, and click **OK**.

### • Mac OS X

Nikon Transfer will start automatically when the camera is connected to the computer if **Yes** was selected in the Auto-Launch setting dialog when Nikon Transfer was first installed.

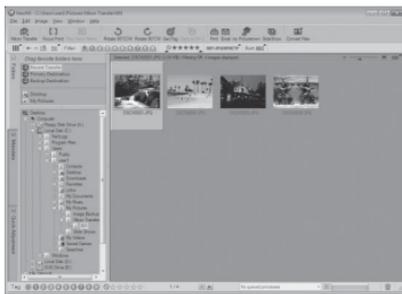
- If charge for the battery inserted into the camera is low, the computer may not recognize the camera. If the camera is not recognized, pictures will not be transferred. When battery charging starts automatically using power supplied by the computer, wait until battery charge has reached a sufficient level to begin transfer.
- If there are a large number of images on the memory card, it may take some time for Nikon Transfer to start.

## 5 Confirm that the source device is displayed in the transfer options **Source** panel and click **Start Transfer**.



At the Nikon Transfer default settings, all pictures are transferred to the computer.

At the Nikon Transfer default settings, ViewNX starts automatically when transfer is complete and transferred pictures can be viewed.



For more information on using Nikon Transfer or ViewNX, refer to help information contained in Nikon Transfer or ViewNX (📖 112).

## Disconnecting the camera

Do not turn off the camera or disconnect the camera from the computer during transfer.

When transfer is complete, turn off the camera and disconnect the USB cable.

The camera turns off automatically if there is no communication with the computer for 30 minutes while the camera is connected via the USB cable.

## ✔ Charging the Battery

The charge lamp slowly blinks green while the battery inserted into the camera is charging (📖 113).

## 📎 Using a Card Reader

The pictures stored on the memory card inserted into a card reader or similar device can also be transferred to the computer using Nikon Transfer.

- If the memory card capacity is 2 GB or more, or if the memory card is SDHC-compliant, the card reader or similar device must support these memory card specifications.
- Insert a memory card into the card reader or similar device, and refer to the steps 4 and 5 (📖 110) to transfer pictures.
- To transfer pictures stored in the camera's internal memory to the computer, the pictures must first be copied to a memory card using the camera (📖 92).

### Starting Nikon Transfer or ViewNX Manually

#### Windows

Choose **Start** menu>**All Programs**>**Nikon Transfer**>**Nikon Transfer** (or **All Programs**>**ViewNX**>**ViewNX**).

Double-clicking the Nikon Transfer or ViewNX shortcut icon on the desktop will also start Nikon Transfer or ViewNX.

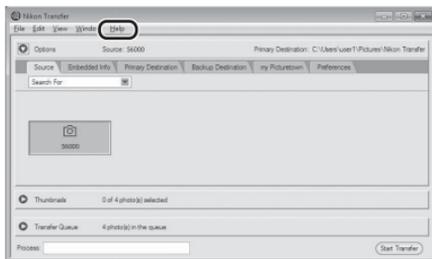
#### Macintosh

Open **Applications** and double-click **Nikon Software**>**Nikon Transfer**>**Nikon Transfer** (or **Nikon Software**>**ViewNX**>**ViewNX**).

Clicking the Nikon Transfer or ViewNX icon on the Dock will also start Nikon Transfer or ViewNX.

### Viewing Nikon Transfer and ViewNX Help Information

For more information on Nikon Transfer or ViewNX, start Nikon Transfer or ViewNX and select **Nikon Transfer Help** or **ViewNX Help** from the **Help** menu.



### Panorama Creation with Panorama Maker

- Use a series of pictures taken in **Panorama assist** scene mode ( 61) to create a single panorama photo with Panorama Maker.
- Panorama Maker can be installed on a computer using the supplied Software Suite CD.
- After installation is complete, follow the procedure described below to start Panorama Maker.

#### Windows

Choose **Start** menu>**All Programs**>**ArcSoft Panorama Maker 5**>**Panorama Maker 5**.

#### Macintosh

Open **Applications** and double-click the **Panorama Maker 5** icon.

- For more information on using Panorama Maker, refer to the on-screen instructions and help information contained in Panorama Maker.

### Image File Names and Folder Names

See "Image/Sound File and Folder Names" ( 146) for more information.

## Charging While Connecting to a Computer

When connecting the camera to a computer via the supplied USB cable while **Auto** (default setting) is selected for the **Charge by computer** option (📖 136) in the setup menu, the battery inserted into the camera is automatically charged using power supplied by the computer.

See “Before Connecting the Camera” (📖 108) and “Transferring Pictures from a Camera to a Computer” (📖 109) for more information on connecting the camera to a computer.

### Charge Lamp

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

Charge lamp	Description
Blinks slowly (green)	Battery charging.
Off	Battery not charging. If the charge lamp changes from slow blinking (green) to off while the power-on lamp is lit, charging is complete.
Flickers (green)	<ul style="list-style-type: none"> <li>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 a computer.</li> <li>The battery cannot be charged as computer's specifications or settings does not support power supply to the camera.</li> </ul>

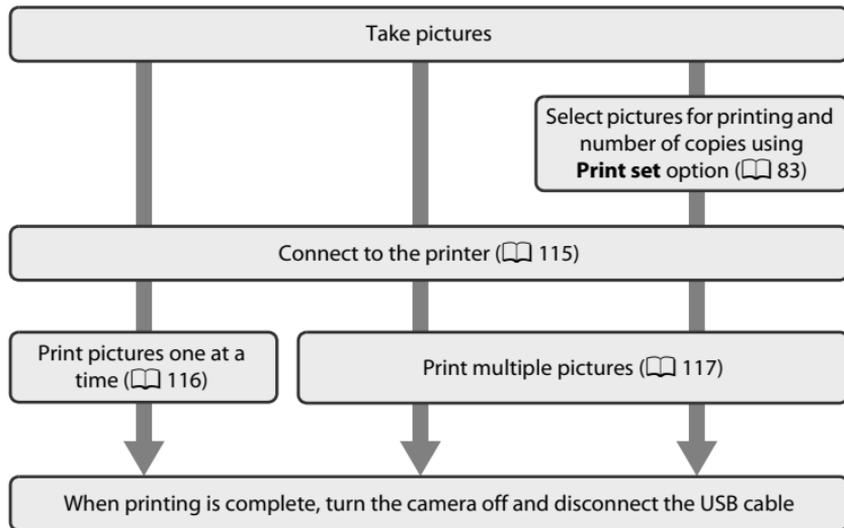
### ✓ Notes on Charging with Connection to a Computer

- The battery cannot be charged, nor can data be transferred, when the camera is connected to a computer before the camera's date and time have been set (📖 18). If the camera's clock battery (📖 125) 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-68P (📖 14) 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 may take longer to charge the battery with connection to a computer than with charging using the Charging AC Adapter EH-68P. 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, 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.

## Connecting to a Printer

Users of PictBridge-compatible (📖 160) printers can connect the camera directly to the printer and print pictures without using a computer.

Follow the procedures below to print pictures.



### ✔ Notes on 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-62F (available separately) is used, COOLPIX S6000 can be powered from an electrical outlet. Do not use any other make or model of AC adapters as they may cause the camera to heat up or malfunction.

### 📷 Printing Pictures

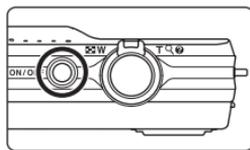
In addition to printing pictures transferred to a computer from your personal printer and printing over a direct camera-to-printer connection, the following options are also available for printing pictures stored on the memory card:

- 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 pictures and the number of prints each to the memory card using the **Print set** option in the playback menu (📖 83).

## Connecting the Camera to a Printer

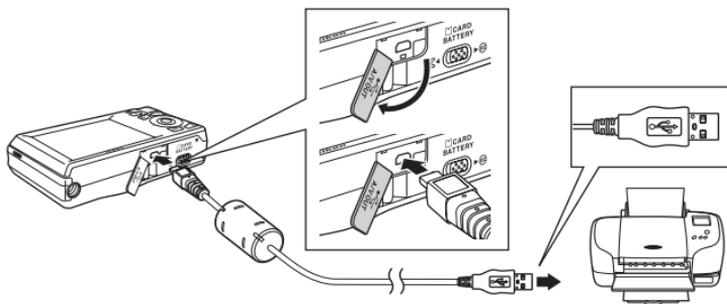
- 1 Turn off the camera.



- 2 Turn on the printer.

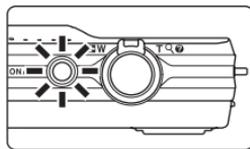
Check printer settings.

- 3 Connect the camera to the printer using the supplied 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).



### ✓ Connecting the 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.

### ✓ If the PictBridge Startup Screen Is not Displayed

Turn the camera off and disconnect the USB cable. Set the **Charge by computer** option (📖 136) in the camera's setup menu to **Off** and reconnect the cable.

## Printing Pictures One at a Time

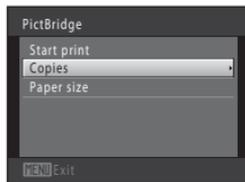
After properly connecting the camera to the printer (📖 115), follow the procedures described below to print a picture.

- 1 Use the rotary multi selector to choose the desired picture and press the **OK** button.

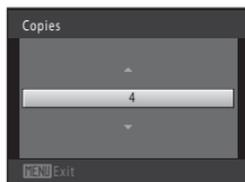
Rotate the zoom control to **W** (📷) to display 12 thumbnails, and **T** (📺) to switch back to full-frame playback.



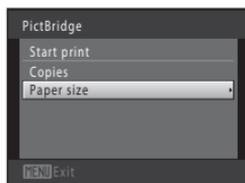
- 2 Choose **Copies** and press the **OK** button.



- 3 Choose the desired number of copies (up to nine) and press the **OK** button.

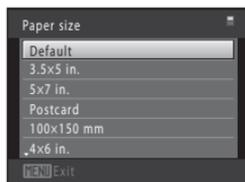


- 4 Choose **Paper size** and press the **OK** button.

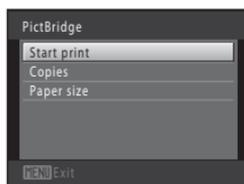


- 5 Choose the desired paper size and press the **OK** button.

To specify paper size using settings on the printer, choose **Default** in the paper size option.



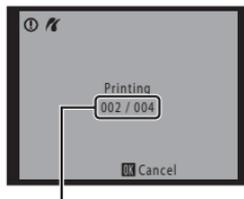
- 6** Choose **Start print** and press the **OK** button.



- 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 **OK** button.



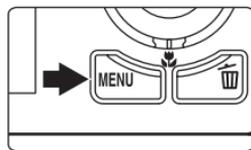
Current number of copies/  
total number of copies

## Printing Multiple Pictures

After properly connecting the camera to the printer (📖 115), follow the procedures described below to print multiple pictures.

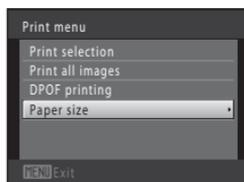
- 1** When the **Print selection** screen is displayed, press the **MENU** button.

The **Print menu** screen is displayed.



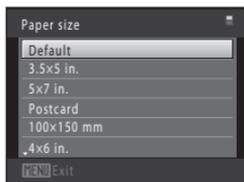
- 2** Use the rotary multi selector to choose **Paper size** and press the **OK** button.

To exit the print menu, press the **MENU** button.

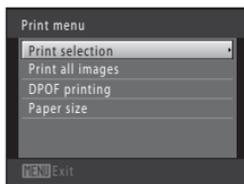


### 3 Choose the desired paper size and press the **OK** button.

To specify paper size using settings on the printer, choose **Default** in the paper size option.



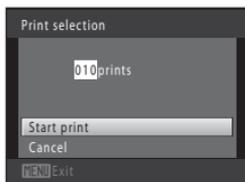
### 4 Choose **Print selection**, **Print all images**, or **DPOF printing** and press the **OK** button.



#### Print selection

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

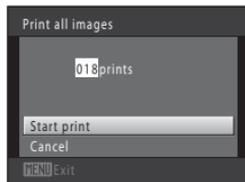
- Rotate the rotary multi selector, or press ◀ or ▶ to select pictures, and press ▲ or ▼ to specify the number of copies to be printed.
  - Pictures selected for printing can be recognized by the check mark (✓) and the numeral indicating the number of copies to be printed. If no copies have been specified for pictures, the selection is canceled.
  - Rotate the zoom control to **T** (R) to switch back to full-frame playback or **W** (Z) to display 12 thumbnails.
  - Press the **OK** button when setting is complete.
  - When the screen shown at right is displayed, choose **Start print** and press the **OK** button to start printing.
- Choose **Cancel** and press the **OK** button to return to the print menu.



### Print all images

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

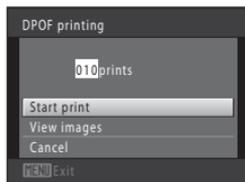
- When the screen shown at right is displayed, choose **Start print** and press the **OK** button to start print. Choose **Cancel** and press the **OK** button to return to the print menu.



### DPOF printing

Print pictures for which a print order was created using the **Print set** option (83).

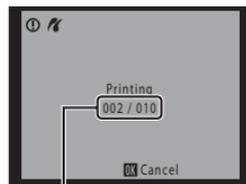
- When the screen shown at right is displayed, choose **Start print** and press the **OK** button to start printing. Choose **Cancel** and press the **OK** button to return to the print menu.
- To view the current print order, choose **View images** and press the **OK** button. To print pictures, press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



## 5 Printing begins.

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 **OK** 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 printer connected to the camera), **3.5x5 in.**, **5x7 in.**, **100x150 mm**, **4x6 in.**, **8x10 in.**, **Letter**, **A3**, and **A4**. Only sizes supported by the printer will be displayed. To specify paper size using printer settings, choose **Default** in the paper size option.

## Setup Menu

The setup menu contains the following options.

	<b>Menus</b>	 122
	Choose how menus are displayed.	
	<b>Welcome screen</b>	 123
	Choose whether or not a welcome screen is displayed when the camera is turned on.	
	<b>Date</b>	 124
	Set camera clock and choose home and destination time zones.	
	<b>Monitor settings</b>	 127
	Adjust photo information display and monitor brightness settings.	
	<b>Date imprint</b>	 128
	Imprint shooting date and time on pictures.	
	<b>Vibration reduction</b>	 129
	Choose whether or not vibration reduction is enabled.	
	<b>Motion detection</b>	 130
	Enable or disable motion detection, which reduces the effects of subject movement and camera shake in still pictures.	
	<b>AF assist</b>	 131
	Enable or disable AF-assist illuminator.	
	<b>Digital zoom</b>	 131
	Enable or disable digital zoom.	
	<b>Sound settings</b>	 132
	Adjust sound settings.	
	<b>Auto off</b>	 133
	Set time before camera enters standby mode.	
	<b>Format memory/Format card</b>	 134
	Format internal memory or memory card.	
	<b>Language</b>	 135
	Choose the language used for camera monitor display.	
	<b>TV settings</b>	 135
	Adjust settings necessary for connection to television.	
	<b>Charge by computer</b>	 136
	Choose whether or not to charge the camera battery when connecting to a computer via the USB cable.	
	<b>Blink warning</b>	 137
	Specify whether or not the camera detects human faces that have blinked with shooting using face priority.	

- C
Reset all
139

Restore camera settings to default values.
- Vet
Firmware version
141

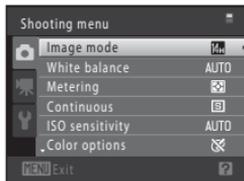
Display camera firmware version.

## Displaying the Setup Menu

### 1 Press the MENU button.

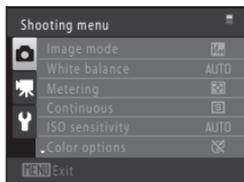
The menu is displayed.

If the **MENU** button was pressed in scene mode, press the rotary multi selector (📖 9) ◀ to display the tabs.

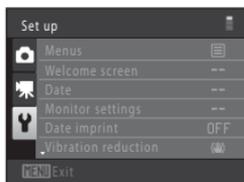


### 2 Press the rotary multi selector ◀.

Tab selection is activated.



### 3 Press ▲ or ▼ to select the Y tab.

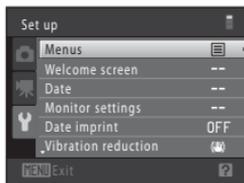


### 4 Press ► or the OK button.

The setup menu items can be selected.

Use the rotary multi selector to choose and apply settings (📖 9).

To exit the setup menu, press the **MENU** button or ◀ to select a different tab.



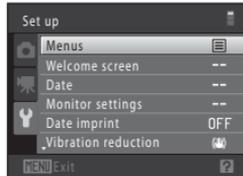
## **Menus**

MENU button →  (Setup menu) (📖 121) →  Menus

Choose the initial menu displayed.

### **Text (default setting)**

Menus are displayed in list format.



### **Icons**

All menu items can be displayed in a single screen.

Menu names



## Welcome Screen

MENU button →  (Setup menu) (📖 121) →  Welcome screen

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

### 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 a picture selected for the welcome screen. When the picture selection screen is displayed, select a picture (📖 88) and press  button.

- As the selected picture is stored by the camera, it will be displayed when the camera is turned on even if the original picture is deleted.
- Pictures taken at an **Image mode** (📖 37) setting of  **4224 × 2376**, and copies created at a size of 320 × 240 or smaller using the small picture (📖 98) or crop (📖 99) function, cannot be selected.

## Date

MENU button →  (Setup menu) (📖 121) →  Date

Set the camera clock.

### Date

Set camera clock to current date and time.

Use the rotary multi selector to set the date and time in the date screen.

- Highlight a different item (day, month, year, hour, minute, and the order in which day, month, and year are displayed): press ◀ or ▶.
- Edit the highlighted item: press ▲ or ▼, or rotate the rotary multi selector.
- Apply the setting: select the order in which day, month, and year are displayed and press the  button (📖 19).

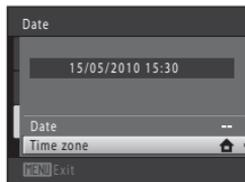
### Time zone

 **Home time zone** can be specified and daylight saving is enabled or disabled from **Time zone** options. When the travel destination () is selected, local time (📖 126) is automatically calculated and shooting date and time in the selected region are recorded with pictures. Useful when traveling.

## Selecting Travel Destination Time Zone

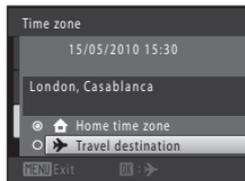
- 1 Use the rotary multi selector to choose **Time zone** and press the  button.

The **Time zone** screen is displayed.



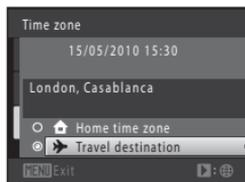
- 2 Choose  **Travel destination** and press the  button.

The date and time displayed in the monitor changes according to the region currently selected.



**3** Press **▶**.

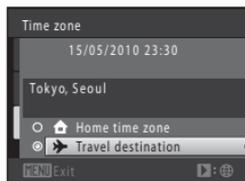
The travel destination screen is displayed.

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

If daylight saving time is in effect, press **▲** to enable daylight saving time function.  is displayed at the top of the monitor and the camera clock is advanced one hour. Press **▼** to disable the daylight saving time function.

Press the **OK** button to apply 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.

**✔ Note on the Clock Battery**

The camera clock is powered by the clock battery. The clock battery charges when the main battery is inserted or an AC adapter is connected, and can provide several days of backup power after about ten hours of charging.

**✎ Home Time Zone**

- To switch to the home time zone, choose **Home time zone** in step 2 and press the **OK** button.
- To change the home time zone, choose **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 Date on Pictures**

Enable date imprint from the **Date imprint** option ( 128) in the setup menu after the date and time have been set. When the **Date imprint** option is enabled, pictures will be recorded with shooting date imprinted on them.

 **Time Zones**

The camera supports the time zones listed below.

For time zones not listed below, set the camera clock to local time from the **Date** 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

MENU button →  (Setup menu) (📖 121) →  Monitor settings

Set the options below.

### Photo info

Choose information displayed in the monitor during shooting and playback mode.

### Brightness

Choose from five settings for monitor brightness. The default setting is **3**.

### Photo Info

Select whether or not the photo information is displayed in the monitor.

See “The Monitor” (📖 6) for information on indicators displayed in the monitor.

	Shooting mode	Playback mode
Show info		
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 changes to that with <b>Hide info</b> . Information will be displayed again when the next operation is performed.	
Hide info		
Framing grid	 <p>In addition to information shown with <b>Auto info</b> above, a framing grid is displayed to help frame pictures in  (auto) mode. In other shooting modes only the information shown with <b>Auto info</b> is displayed.</p>	 <p>The current settings or operation guide is displayed, as in <b>Auto info</b> above.</p>

## **DATE** Date Imprint (Imprinting Date and Time)

**MENU** button → **Y** (Setup menu) (📖 121) → **DATE** Date imprint

The shooting date and time can be imprinted on the pictures with shooting, allowing the information to be printed even from printers that do not support date printing (📖 85).



### Off (default setting)

Date and time are not imprinted on pictures.

### **DATE** Date

Date is imprinted on pictures.

### **DATE** Date and time

Date and time are imprinted on pictures.

At settings other than **Off**, the icon for the current setting is displayed in the monitor (📖 6).

## **✓** Notes on Date Imprint

- Imprinted dates form a permanent part of image data and cannot be deleted. The date and time cannot be imprinted on pictures after they have been taken.
- The date cannot be imprinted in the following situations:
  - Pictures taken in **Panorama assist** scene mode
  - Movies
- Dates imprinted at an **Image mode** setting (📖 37) of **VGA 640 × 480** may be difficult to read. Choose an **Image mode** setting of **PC 1024 × 768** or larger when using date imprint.
- The date is recorded using the format selected in the setup menu's **Date** item (📖 18, 124).

## **📎** Date Imprint and Print Set

When printing from DPOF-compatible printers that support the printing of shooting date and photo information, the date and information can be printed without imprinting this information on them using settings in the **Print set** option (📖 83).

## Vibration Reduction

MENU button →  (Setup menu) ( 121) →  Vibration reduction

Select the vibration reduction option for shooting. Vibration reduction effectively reduces blur, caused by slight hand movement known as camera shake, which commonly occurs when shooting with zoom applied or at slow shutter speeds. The effects of camera shake are reduced when recording movies, in addition to when taking still pictures.

Set **Vibration reduction** to **Off** when using a tripod to stabilize the camera during shooting.

### On (default setting)

Vibration reduction is enabled.

The camera detects and factors out panning movements when reducing camera shake. When the camera is panned horizontally, for example, vibration reduction reduces only vertical shake. If the camera is panned vertically, vibration reduction affects only horizontal shake.

### Off

Vibration reduction is not enabled.

The current vibration reduction setting can be confirmed in the camera monitor with shooting ( 6, 23). When **Off** is selected, no icon is displayed.

## Notes on Vibration Reduction

- Vibration reduction may take a few seconds to activate after the power is turned on, or the camera enters shooting mode from playback mode. Wait until the image of the monitor stabilizes before shooting.
- Due to characteristics of the vibration reduction function, images displayed in the camera's monitor immediately after shooting may be displayed blurry.
- Vibration reduction may be unable to completely eliminate the effects of camera shake in some situations.

## Motion Detection

MENU button →  (Setup menu) (📖 121) →  Motion detection

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

### 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 **ISO sensitivity** (📖 43) is locked
- In  (auto) mode, when **Continuous** is set to **Multi-shot 16** or **Sport continuous** (📖 42)
- In the following scene modes: **Night portrait** (📖 55), **Fireworks show** (📖 59), and **Backlight** (📖 59) scene mode
- When subject tracking mode is selected

### Off

Motion detection is not enabled.

The current motion detection setting can be confirmed in the camera monitor with shooting (📖 6, 23). 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 on 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 pictures taken using motion detection may be somewhat “grainy” in appearance.

## AF Assist

MENU button →  (Setup menu) (📖 121) →  AF assist

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

### Auto (default setting)

AF-assist illumination will be used to assist the focus operation when the subject is dimly lit. The illuminator has a range of about 3.0 m (9 ft. 10 in.) at the maximum wide-angle position and about 2.2 m (7 ft. 3 in.) at the maximum telephoto position. Note that for some scene modes or focus areas, AF-assist illuminator may not light.

### Off

AF-assist illuminator does not light. The camera may be unable to focus under dim lighting.

## Digital Zoom

MENU button →  (Setup menu) (📖 121) →  Digital zoom

Enable or disable digital zoom.

### On (default setting)

When the camera is zoomed in to the maximum optical zoom position, rotating the zoom control to **T** (📷) triggers digital zoom (📖 25).

### Off

Digital zoom will not be activated (except when recording movies).

## Notes on Digital Zoom

- When digital zoom is in effect, the camera focuses at the center of the frame.
- Digital zoom cannot be used in the following situations.
  - When **Scene auto selector**, **Portrait**, or **Night portrait** is selected in scene mode
  - When smart portrait mode is selected
  - When subject tracking mode is selected
  - When **Continuous** is set to **Multi-shot 16**
- When digital zoom is in effect, **Metering** is set to **Center-weighted**.

## 🔊 Sound Settings

MENU button → 🗨️ (Setup menu) (📖 121) → 🔊 Sound settings

Adjust the following sound settings.

### Button sound

Select **On** (default setting) or **Off**. When **On** 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 **On** (default setting) or **Off**.

Shutter sound cannot be heard in the following situation, even if **On** is selected.

- When **Continuous** is set to **Continuous**, **BSS**, **Multi-shot 16**, or **Sport continuous**
- When **Museum** is selected in scene mode
- When **On** is selected for **Blink proof** in the smart portrait menu

## Auto Off

MENU button →  (Setup menu) ( 121) →  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 ( 17) to save power. Once the camera has entered standby mode, the power-on lamp will blink, and if no operations are performed for another three minutes, the camera will turn off.

Choose the time allowed to elapse before the camera enters standby mode if no operations are performed from **30 s**, **1 min** (default setting), **5 min**, and **30 min**.

### Canceling Standby Mode

Cancel standby mode and reactivate the monitor by pressing any of the following buttons.

- the power switch
- the shutter-release button
- the  button
- the  button
- the  (movie-record) button

### Notes on Auto Off

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

- When a menu is displayed: If auto off is set to **30 s** or **1 min**, it is extended to three minutes.
- During slide show playback: up to 30 minutes
- When the AC adapter EH-62F is connected: 30 minutes

## Format Memory/Format Card

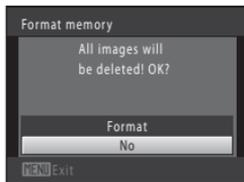
MENU button → (Setup menu) (121) → Format memory/Format card

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

### Formatting the Internal Memory

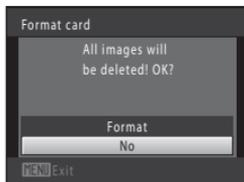
To format the internal memory, remove the memory card from the camera.

The **Format memory** option is displayed in the setup menu.



### Formatting a Memory Card

When a 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 cards permanently deletes all data.** Be sure to transfer important pictures to a computer before formatting.
- Do not turn the camera off or open the battery-chamber/memory card slot cover during formatting.
- Be sure to use this camera to format memory cards previously used in other devices the first time they are inserted into the COOLPIX S6000.

## Language

MENU button →  (Setup menu) (📖 121) →  Language

Choose one of 24 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	Portuguese
Русский	Russian
Suomi	Finnish
Svenska	Swedish
Türkçe	Turkish
简体中文	Simplified Chinese
繁體中文	Traditional Chinese
日本語	Japanese
한글	Korean
ภาษาไทย	Thai
عربي	Arabic

## TV Settings

MENU button →  (Setup menu) (📖 121) →  TV settings

Adjust settings for connection to a television.

### Video mode

Choose from **NTSC** and **PAL**.

### HDMI

Choose a picture resolution for HDMI output from **Auto** (default setting), **480p**, **720p**, or **1080i**. When **Auto** is selected, the option best suited to the high-definition TV to which the camera is connected is automatically selected from **480p**, **720p**, or **1080i**.

## Charge by Computer

MENU button →  (Setup menu) ( 121) →  Charge by computer

Choose whether or not the battery inserted into the camera is charged when the camera is connected to a computer via the USB cable ( 113).

### 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 on 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 pictures 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.

## Blink Warning

MENU button →  (Setup menu) (📖 121) →  Blink warning

Specify whether or not the camera detects human subjects that have blinked using face priority (📖 47) when shooting in the following modes.

-  (auto) mode (when **Face priority** (📖 45) is selected for AF area mode option).
- **Scene auto selector** (📖 52), **Portrait** (📖 54), or **Night portrait** (📖 55) scene mode is selected.

### On

When the camera detects that one or more human subjects may have blinked in a picture taken using face priority, the blink warning 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 picture and determine whether or not another picture should be taken.

See “Operating the Blink Warning Screen” (📖 138) for more information.

### Off (default setting)

Blink warning is not enabled.

## Note on Blink Warning

The blink warning does not function at continuous settings of **Continuous**, **BSS**, **Multi-shot 16**, or **Sport continuous**.

## Operating the Blink Warning Screen

When the blink warning screen shown at 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.



To	Use	Description
Enlarge the detected face that blinked	<b>T</b> (Q)	Rotate the zoom control to <b>T</b> (Q).
Switch to full-frame playback	<b>W</b> (checkered flag)	Rotate the zoom control to <b>W</b> (checkered flag).
Select the face to be displayed		If the camera detects that more than one human subject blinked, press ◀ or ▶ to switch display to another face.
Delete the picture		Press the  button.
Switch to shooting mode		Press the  button or the shutter-release button.
		

## Reset All

MENU button →  (Setup menu) (📖 121) →  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 (📖 30)	Auto
Self-timer (📖 32)	Off
Macro mode (📖 33)	Off
Exposure compensation (📖 34)	0.0

### Shooting Menu

Option	Default value
Image mode (📖 37)	 4320 × 3240
White balance (📖 39)	Auto
Metering (📖 41)	Matrix
Continuous (📖 42)	Single
ISO sensitivity (📖 43)	Auto
Color options (📖 44)	Standard color
AF area mode (📖 45)	Auto
Autofocus mode (📖 48)	Single AF

### Scene Mode

Option	Default value
Scene mode setting in the shooting-mode selection menu (📖 51)	Scene auto selector
Hue adjustment in Food mode (📖 58)	Center

### Smart Portrait Menu

Option	Default value
Skin softening (📖 65)	Normal
Smile timer (📖 65)	On
Blink proof (📖 65)	Off

**Subject Tracking Menu**

Option	Default value
Autofocus mode (📖 68)	Full-time AF
Face priority tracking (📖 68)	On

**Movie Menu**

Option	Default value
Movie options (📖 103)	HD 720p (1280 × 720)
Autofocus mode (📖 104)	Single AF

**Setup Menu**

Option	Default value
Menus (📖 122)	Text
Welcome screen (📖 123)	None
Photo info (📖 127)	Auto info
Brightness (📖 127)	3
Date imprint (📖 128)	Off
Vibration reduction (📖 129)	On
Motion detection (📖 130)	Auto
AF assist (📖 131)	Auto
Digital zoom (📖 131)	On
Button sound (📖 132)	On
Shutter sound (📖 132)	On
Auto off (📖 133)	1 min
HDMI (📖 135)	Auto
Charge by computer (📖 136)	Auto
Blink warning (📖 137)	Off

**Others**

Option	Default value
Paper size (📖 116, 117)	Default
Frame interval for Slide show (📖 86)	3 s

- Selecting **Reset all** also clears the current file number (📖 146) from memory. Numbering will continue from the lowest number available. To reset file numbering to “0001”, delete all pictures stored in the internal memory or on the memory card (📖 87) before selecting **Reset all**.
- The following menu settings will remain unaffected when menus are reset with **Reset all**.  
**Shooting menu:** Preset manual data (📖 40) acquired for **White balance**  
**Setup menu:** **Date** (📖 124), **Language** (📖 135), and **Video mode** (📖 135)

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## Ver. Firmware Version

MENU button → **F** (Setup menu) (📖 121) → **Ver.** Firmware version

View the current camera firmware version.



## Maximizing Camera Life and Performance

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

### **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**

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.

 **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 COOLPIX S6000 using the Charging AC adapter EH-68P or a computer, the charge capacity may decrease at ambient temperatures 45 °C to 60 °C (113 °F to 140 °F).
- The battery is not charged at ambient temperatures below 0 °C (32 °F) or above 60 °C (140 °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 run it flat before removing it for storage. The battery should be stored in a cool location with an ambient temperature of 15 to 25 °C (59 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 are drawn from the battery even when not in use. This may result in excessive draining of the battery and complete loss of 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, replace the supplied terminal cover and store 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-EL12 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.

## Cleaning

Lens	Avoid touching glass parts with your fingers. Remove dust or lint with a blower (typically a small device with a rubber bulb attached to one end that is pumped to produce a stream of air out the other 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:

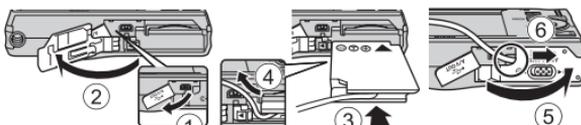
- Next to equipment that produces strong electromagnetic fields, such as televisions or radios
- Exposed to temperatures below  $-10^{\circ}\text{C}$  ( $14^{\circ}\text{F}$ ) or above  $50^{\circ}\text{C}$  ( $122^{\circ}\text{F}$ )
- Places that are poorly ventilated or subject to humidity of over 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.

### Notes on the Monitor

- The monitor may contain a few pixels that are always lit or that do not light. This is a characteristic common to all TFT LCD displays, and does not indicate a malfunction. Images recorded using the product will not be affected.
- 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.

## Optional Accessories

Rechargeable battery	Rechargeable Li-ion Battery EN-EL12
Charging AC adapter	Charging AC Adapter EH-68P*, EH-68P (AR)*
Battery charger	Battery Charger MH-65
AC adapter	<p>AC Adapter EH-62F</p> <p>Connecting the EH-62F</p>  <p>Be sure that the AC adapter cord has been properly aligned in AC adapter and battery chamber grooves before closing the battery-chamber/memory card slot cover. If the cord is not properly aligned in the grooves, the cover and cord may be damaged when the cover is closed.</p>
USB cable	USB Cable UC-E6
Audio/video cable	Audio Video Cable EG-CP14

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

## 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<sup>1</sup> 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.

SanDisk	2 GB <sup>2</sup> , 4 GB <sup>3</sup> , 8 GB <sup>3</sup> , 16 GB <sup>3</sup> , 32 GB <sup>3</sup>
TOSHIBA	2 GB <sup>2</sup> , 4 GB <sup>3</sup> , 8 GB <sup>3</sup> , 16 GB <sup>3</sup> , 32 GB <sup>3</sup>
Panasonic	2 GB <sup>2</sup> , 4 GB <sup>3</sup> , 8 GB <sup>3</sup> , 12 GB <sup>3</sup> , 16 GB <sup>3</sup> , 32 GB <sup>3</sup>
Lexar	2 GB <sup>2</sup> , 4 GB <sup>3</sup> , 8 GB <sup>3</sup>

<sup>1</sup> Specification defining minimum data transfer speeds for SD and SDHC memory cards.

<sup>2</sup> If the memory card will be used with a card reader or similar device, check that device supports 2 GB cards.

<sup>3</sup> SDHC compliant.

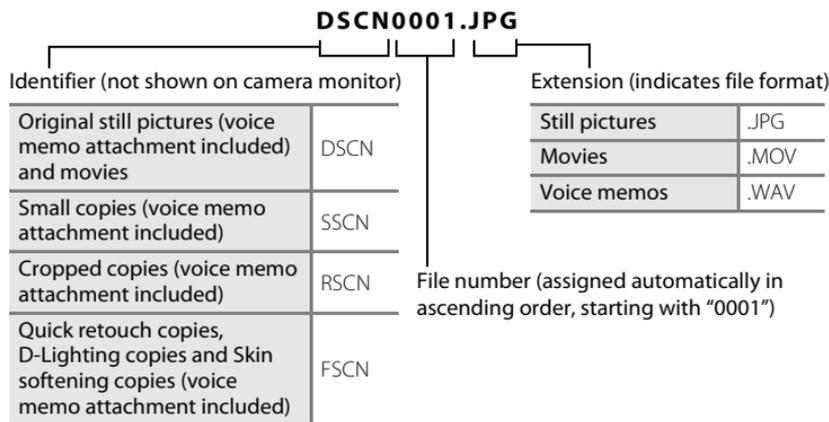


If the memory card will be used with a card reader or similar device, check that device supports SDHC.

Contact the manufacturer for details on the above cards.

## Image/Sound File and Folder Names

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



- Files are stored in folders named with a folder number followed by an identifier: "P\_" plus a three-digit sequential number for pictures taken in **Panorama assist** scene mode (e.g. "101P\_001"; 📖 61) and "NIKON" for all other pictures (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 picture 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 (📖 92).
- A single folder can hold up to 200 pictures; if the current folder already contains 200 pictures, a new folder, named by adding one to the current folder name, will be created the next time a picture is taken. If the current folder is numbered 999 and contains 200 pictures, or a picture is numbered 9999, no further pictures can be taken until the internal memory or memory card is formatted (📖 134), or a new memory card is inserted.

## 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	Problem	Solution	
 (blinks)	Clock not set.	Set date and time.	124
	Battery running low.	Prepare to charge or replace battery.	12, 14
 Battery exhausted.	Battery exhausted.	Charge or replace battery.	12, 14
 Battery temperature high	Battery temperature is high.	Turn off camera, and allow battery to cool down before resuming use. After five seconds, this message will disappear, the monitor will turn off, and the power-on lamp will blink rapidly. After the lamp blinks for three minutes, the camera will turn off automatically. Pressing the power switch also turns off the camera.	17
 ● (● blinks red)	Camera cannot focus.	<ul style="list-style-type: none"> <li>• Refocus.</li> <li>• Use focus lock.</li> </ul>	26, 27 46
 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.	21
 This card cannot be used.	Error accessing memory card.	<ul style="list-style-type: none"> <li>• Use approved card.</li> <li>• Check that terminals are clean.</li> <li>• Confirm that memory card is correctly inserted.</li> </ul>	145 20
 This card cannot be read.			20

Display	Problem	Solution	
<p> Card is not formatted. Format card? Yes No</p>	Memory card has not been formatted for use in COOLPIX S6000.	Formatting deletes all data stored on the memory card. Be sure to select <b>No</b> and make copies of any pictures which need to be kept before formatting the memory card. Select <b>Yes</b> and press the  button to format the memory card.	21
<p> Out of memory.</p>	Memory card is full.	<ul style="list-style-type: none"> <li>• Choose smaller image size.</li> <li>• Delete pictures.</li> <li>• Insert new memory card.</li> <li>• Remove memory card and use internal memory.</li> </ul>	37 28, 87, 105 20 20
<p> Image cannot be saved.</p>	Error occurred while recording picture.	Format internal memory or memory card.	134
	Camera has run out of file numbers.	Insert a new memory card or format internal memory or memory card.	146
	Picture cannot be used for welcome screen.	<p>The following pictures cannot be registered as welcome screen.</p> <ul style="list-style-type: none"> <li>• Pictures taken at an <b>Image mode</b> setting of  <b>4224 x 2376</b></li> <li>• Pictures reduced to 320 x 240 size or smaller with cropping or small picture editing</li> </ul>	123
	Insufficient space to save a copy.	Delete pictures from destination.	87
<p> Sound file cannot be saved.</p>	A voice memo cannot be attached to this file.	<ul style="list-style-type: none"> <li>• Voice memos cannot be attached to movies.</li> <li>• Select a picture taken with this camera.</li> </ul>	– 91
<p> A blink was detected in the picture just taken.</p>	One or more portrait subjects may have blinked when the picture was taken.	Check the picture in playback mode.	65, 69
<p> Image cannot be modified.</p>	Cannot edit selected picture.	<ul style="list-style-type: none"> <li>• Select pictures that support editing function.</li> <li>• Movies cannot be edited.</li> </ul>	93 –

Display	Problem	Solution	
 Cannot record movie.	Time out error while recording movie on the memory card.	Choose memory card with faster write speed.	20
 Memory contains no images.	No pictures in the internal memory or memory card.	<ul style="list-style-type: none"> <li>Remove the memory card from the camera to play back pictures stored in the camera's internal memory.</li> <li>To copy picture from internal memory to memory card, press the <b>MENU</b> button. The copy screen will be displayed and pictures in the internal memory can be copied to memory card.</li> </ul>	20 92
	No pictures are contained in the category selected in auto sort mode.	Select the category containing the sorted pictures.	77
 File contains no image data.	File not created with this camera.	File cannot be viewed on this camera. View file using a computer or the devices used to create or edit this file.	-
 This file cannot be played back.			
 All images are hidden.	No pictures available for a slide show.	-	86
 This image cannot be deleted.	Picture is protected.	Disable protection.	89
 Travel destination is in the current time zone.	Destination in same time zone as home.	-	126

## Error Messages

Display	Problem	Solution	
Lens error 	Lens error.	Turn camera off and then on again. If error persists, contact retailer or Nikon-authorized service representative.	22
 Communications error	Error occurred during communication with printer.	Turn camera off and reconnect USB cable.	115
System error 	Error has 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.	12, 17
 Printer error: check printer status.	Printer error.	Check printer. After solving the problem, select <b>Resume</b> and press the  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  button to resume printing.*	–
 Printer error: paper jam	Paper has jammed in printer.	Remove the jammed paper, select <b>Resume</b> , and press the  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  button to resume printing.*	–
 Printer error: check ink	Ink error.	Check ink, select <b>Resume</b> , and press the  button to resume printing.*	–
 Printer error: out of ink	Running out of ink or ink cartridge is empty.	Replace ink cartridge, select <b>Resume</b> , and press the  button to resume printing.*	–
 Printer error: file corrupt	An error caused by the image file has occurred.	Select <b>Cancel</b> and press the  button to cancel printing.	–

\* See the documentation provided with your printer for further guidance and information.

## Troubleshooting

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	
Monitor is blank.	<ul style="list-style-type: none"><li>• Camera is off.</li><li>• Battery is exhausted.</li><li>• Standby mode for saving power: press the power switch, the shutter-release button,  button,  button, or  (movie-record) button.</li><li>• When flash lamp blinks, wait until flash has charged.</li><li>• Camera and computer are connected via USB cable.</li><li>• Camera and TV are connected via A/V cable or HDMI cable.</li><li>• When connecting to an electrical outlet using a Charging AC Adapter, the camera cannot be turned on.</li></ul>	17 22 8, 11, 17 31 108 107 14
Monitor is hard to read.	<ul style="list-style-type: none"><li>• Adjust monitor brightness.</li><li>• Monitor is dirty. Clean monitor.</li></ul>	127 142
Camera turns off without warning.	<ul style="list-style-type: none"><li>• Battery is exhausted.</li><li>• Camera has turned off automatically to save power.</li><li>• Battery is cold.</li><li>• The camera turns off if the Charging AC Adapter is connected while the camera is on.</li><li>• The camera turns off if the USB cable connecting it to a computer or printer is disconnected. Reconnect the USB cable.</li></ul>	22 133 143 14 109, 111, 115
Date and time of recording are not correct.	<ul style="list-style-type: none"><li>• If camera clock has not been set, "Date not set" indicator blinks with shooting and movie recording. Pictures and movies recorded before clock is set are dated "00/00/0000 00:00" or "01/01/2010 00:00" respectively. Set the correct time and date from the <b>Date</b> option in the setup menu.</li><li>• Check camera clock regularly against more accurate timepieces and reset as required.</li></ul>	18, 124 124
No indicators displayed in monitor.	<b>Hide info</b> is selected for <b>Photo info</b> . Select <b>Show info</b> .	127
<b>Date imprint</b> not available.	Camera clock has not been set.	18, 124

Problem	Cause/Solution	
Date not imprinted on pictures even when <b>Date imprint</b> is enabled.	<ul style="list-style-type: none"> <li>The current shooting mode is one that does not support <b>Date imprint</b>.</li> <li>The date cannot be imprinted on movies.</li> </ul>	128
Camera settings reset.	Clock battery is exhausted; all settings were restored to their default values.	125
Monitor turns off, and the power-on lamp blinks rapidly.	Battery temperature is high. Turn off camera and allow battery to cool down before resuming use. After the lamp blinks for three minutes, the camera will turn off automatically. Pressing the power switch also turns off the camera.	17
Battery inserted into the camera is not charged when the camera is connected to a computer.	<ul style="list-style-type: none"> <li>The battery is not charged when the camera is turned off.</li> <li>Charging stops if the computer enters sleep mode while the battery is charging. The camera may be turned off.</li> <li>Depending upon computer specifications, settings, and status, it may be impossible to charge the battery inserted into the camera via computer connection.</li> </ul>	113

### 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	
No picture taken when the shutter-release button is pressed.	<ul style="list-style-type: none"> <li>When camera is in playback mode, press the  button, the shutter-release button, or the  (movie-record) button.</li> </ul>	8, 28
	<ul style="list-style-type: none"> <li>When menus are displayed, press the <b>MENU</b> button.</li> </ul>	10
	<ul style="list-style-type: none"> <li>Battery is exhausted.</li> </ul>	22
	<ul style="list-style-type: none"> <li>When flash lamp blinks, flash is charging.</li> </ul>	31

Problem	Cause/Solution	
Cannot switch to shooting mode.	Disconnect HDMI cable or USB cable.	106
Camera cannot focus.	<ul style="list-style-type: none"> <li>The intended subject is one with which autofocus does not perform well.</li> <li>Set <b>AF assist</b> in the setup menu to <b>Auto</b>.</li> <li>Turn camera off and then on again.</li> </ul>	27
		131 17
Pictures are blurred.	<ul style="list-style-type: none"> <li>Use flash.</li> <li>Enable vibration reduction or motion detection.</li> <li>Use <b>BSS</b> (Best Shot Selector).</li> <li>Use tripod and self-timer.</li> </ul>	30
		129, 130
		42
		32
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.	42, 144
Bright specks appear in pictures taken with flash.	Flash is reflecting off particles in air. Set the flash mode setting to  (off).	31
Flash does not fire.	<ul style="list-style-type: none"> <li>The flash mode is set to  (off).</li> <li>Scene mode with which the flash does not fire is selected.</li> <li><b>On</b> is selected for <b>Blink proof</b> in smart portrait menu.</li> <li>Another function that restricts flash is enabled.</li> </ul>	30
		54
		65
		49
Optical zoom cannot be used.	Optical zoom cannot be used while recording movies.	101
Digital zoom cannot be used.	<ul style="list-style-type: none"> <li><b>Digital zoom</b> is set to <b>Off</b> in the setup menu.</li> <li>Digital zoom is not available in the following situations.                             <ul style="list-style-type: none"> <li>When <b>Scene auto selector</b>, <b>Portrait</b>, or <b>Night portrait</b> scene mode is selected.</li> <li>When shooting in smart portrait mode.</li> <li>When shooting in subject tracking mode.</li> <li>When <b>Continuous</b> is set to <b>Multi-shot 16</b>.</li> </ul> </li> </ul>	131
		52, 54, 55
		63
		66
		42
<b>Image mode</b> not available.	Another function that restricts the <b>Image mode</b> option is enabled.	49

## Troubleshooting

Problem	Cause/Solution	
No sound when shutter is released.	<b>Off</b> is selected for <b>Sound settings&gt;Shutter sound</b> in setup menu. No sound is heard with some shooting modes and settings, even when <b>On</b> is selected.	132
AF-assist illuminator does not light.	<b>Off</b> is selected for the <b>AF assist</b> option 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 <b>Auto</b> is selected.	54-60, 131
Pictures appear smeared.	Lens is dirty. Clean lens.	142
Colors are unnatural.	White balance or hue is not adjusted properly.	39, 58
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: <ul style="list-style-type: none"> <li>• Using flash.</li> <li>• Specifying a lower ISO sensitivity setting.</li> </ul>	30 43
Pictures are too dark (underexposed).	<ul style="list-style-type: none"> <li>• The flash mode is set to  (off).</li> <li>• Flash window is blocked.</li> <li>• Subject is beyond flash range.</li> <li>• Adjust exposure compensation.</li> <li>• Increase ISO sensitivity.</li> <li>• Subject is backlit. Select <b>Backlight</b> scene mode or set the flash mode setting to  (fill flash).</li> </ul>	30 24 30 34 43 30, 59
Pictures are too bright (overexposed).	Adjust exposure compensation.	34
Unexpected results when flash set to  (auto with red-eye reduction).	When taking pictures with  (auto with red-eye reduction) or fill flash with slow sync and red-eye reduction in <b>Night portrait</b> scene mode, In-Camera Red Eye Fix may be applied to areas not affected by red-eye. Use any scene mode other than <b>Night portrait</b> , and change the flash mode to any setting other than  (auto with red-eye reduction) and try taking a picture again.	30, 55
Skin tones are not softened.	<ul style="list-style-type: none"> <li>• In some shooting conditions, facial skin tones may not be smoothed.</li> <li>• Use <b>Skin softening</b> in the playback menu for pictures containing four or more faces.</li> </ul>	64 97

Problem	Cause/Solution	
Saving images takes time.	It may take more time to save images in the following situations.	
	<ul style="list-style-type: none"> <li>When the noise reduction function is in operation</li> </ul>	31
	<ul style="list-style-type: none"> <li>When the flash mode is set to  (auto with red-eye reduction)</li> <li>When the skin softening function is applied while shooting</li> </ul>	31 54, 55, 65

## Playback

Problem	Cause/Solution	
File cannot be played back.	<ul style="list-style-type: none"> <li>File or folder was overwritten or renamed by computer or other make of camera.</li> </ul>	–
	<ul style="list-style-type: none"> <li>The COOLPIX S6000 is not able to playback movies recorded with another make or model of digital camera.</li> </ul>	105
Cannot zoom in on picture.	Playback zoom cannot be used with movies, small pictures, or pictures that have been cropped to a size of 320 × 240 or smaller.	–
Cannot record or play back voice memos.	<ul style="list-style-type: none"> <li>Voice memos cannot be attached to movies.</li> </ul>	105
	<ul style="list-style-type: none"> <li>Voice memos cannot be attached to images taken with other cameras. Voice memos attached to images using another camera cannot be played back on this camera.</li> </ul>	90
Cannot use quick retouch, D-Lighting, skin softening, small picture, or crop.	<ul style="list-style-type: none"> <li>These options cannot be used with movies.</li> </ul>	105
	<ul style="list-style-type: none"> <li>These options cannot be used with pictures taken at an <b>Image mode</b> setting of  <b>4224 × 2376</b>.</li> </ul>	37
	<ul style="list-style-type: none"> <li>Select pictures that support quick retouch, D-Lighting, skin softening, small picture, or crop.</li> </ul>	93
	<ul style="list-style-type: none"> <li>Camera is unable to edit pictures taken with other cameras.</li> </ul>	93
Pictures not displayed on television.	<ul style="list-style-type: none"> <li>Select the correct <b>Video mode</b> and <b>HDMI</b> options from the <b>TV settings</b> item.</li> </ul>	135
	<ul style="list-style-type: none"> <li>Both HDMI cable and A/V cable or USB cable are connected to the camera.</li> </ul>	106
	<ul style="list-style-type: none"> <li>Memory card contains no pictures. Replace the memory card. Remove the memory card to play back pictures from the internal memory.</li> </ul>	20

Problem	Cause/Solution	
<p>The recorded pictures are not displayed in auto sort mode.</p>	<ul style="list-style-type: none"> <li>• The desired picture was sorted to a category other than the category currently displayed.</li> <li>• Pictures recorded by a camera other than the COOLPIX S6000 and pictures copied using the <b>Copy</b> option cannot be displayed in auto sort mode.</li> <li>• Pictures recorded in the internal memory or on the memory card may not be played back correctly if overwritten by a computer.</li> <li>• Up to 999 pictures and movies in total can be added to each category. If the desired category already contains 999 pictures or movies in total, new pictures or movies cannot be added.</li> </ul>	<p>76</p> <p>77</p> <p>–</p> <p>77</p>
<p>Nikon Transfer does not start when camera is connected.</p>	<ul style="list-style-type: none"> <li>• Camera is off.</li> <li>• Battery is exhausted.</li> <li>• USB cable is not correctly 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 automatically.</li> </ul> <p>For more information on Nikon Transfer, refer to help information contained in Nikon Transfer.</p>	<p>17</p> <p>22</p> <p>109</p> <p>–</p> <p>108</p> <p>112</p>
<p>The PictBridge startup screen is not displayed when the camera is connected to a printer.</p>	<p>With some PictBridge-compatible printers, the PictBridge startup screen may not be displayed and it may be impossible to print pictures 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.</p>	<p>136</p>
<p>Pictures to be printed are not displayed.</p>	<ul style="list-style-type: none"> <li>• Memory card contains no pictures. Replace the memory card.</li> <li>• Remove the memory card to print pictures from the internal memory.</li> </ul>	<p>20</p>
<p>Cannot select paper size with camera.</p>	<p>Paper size cannot be selected from the camera in the following situations, even when printing from a PictBridge-compatible printer:</p> <ul style="list-style-type: none"> <li>• The printer does not support the paper sizes specified by the camera.</li> <li>• The printer automatically selects the paper size.</li> </ul>	<p>116,</p> <p>117</p> <p>–</p>

# Specifications

## Nikon COOLPIX S6000 Digital Camera

Type	Compact digital camera
Effective pixels	14.2 million
Image sensor	<sup>1</sup> /2.3-in. CCD; approx. 14.48 million total pixels
Lens	7× optical zoom, NIKKOR lens
Focal length	5.0-35.0mm (angle of view equivalent to that of 28-196mm lens in 35mm [135] format)
f/-number	f/3.7–5.6
Construction	9 elements in 7 groups
Digital zoom	Up to 2× (angle of view equivalent to that of approx. 392mm lens in 35mm [135] format)
Vibration reduction	Lens shift
Autofocus (AF)	Contrast-detect AF
Focus range (from lens)	<ul style="list-style-type: none"><li>• [W]: Approx. 50 cm (1 ft. 8 in.) to ∞, [T]: Approx. 1.1 m (3 ft. 8 in.) to ∞</li><li>• Macro mode: Approx. 3 cm (1.2 in.) to ∞ (wide-angle position)</li></ul>
Focus-area selection	Face priority, auto (9-area automatic selection), manual with 99 focus areas, center
Monitor	6.7 cm/2.7-in., approx. 230k-dot, wide viewing angle TFT LCD with anti-reflection coating and 5-level brightness adjustment
Frame coverage (shooting mode)	Approx. 100% horizontal and 100% vertical
Frame coverage (playback mode)	Approx. 100% horizontal and 100% vertical
Storage	
Media	Internal memory (approx. 32 MB), SD (Secure Digital) memory cards
File system	DCF, Exif 2.2, and DPOF compliant
File formats	Still pictures: JPEG Sound files (Voice Memo): WAV Movies: MOV (video: MPEG-4 AVC/H.264, audio: AAC stereo)
Image size (pixels)	<ul style="list-style-type: none"><li>• 14M (High) [4320 × 3240 ★]</li><li>• 14M [4320 × 3240]</li><li>• 8M [3264 × 2448]</li><li>• 5M [2592 × 1944]</li><li>• 3M [2048 × 1536]</li><li>• PC [1024 × 768]</li><li>• VGA [640 × 480]</li><li>• 16:9 [4224 × 2376]</li></ul>
ISO sensitivity (Standard output sensitivity)	<ul style="list-style-type: none"><li>• ISO 100, 200, 400, 800, 1600, 3200</li><li>• Auto (auto gain from ISO 100 to 1600)</li><li>• Fixed range auto (ISO 100 to 400, 100 to 800)</li><li>• Sport continuous (ISO 400 to 6400)</li></ul>

## Specifications

<b>Exposure</b>	
<b>Metering</b>	224-segment matrix, center-weighted
<b>Exposure control</b>	Programmed auto exposure with motion detection and exposure compensation (–2.0 to +2.0 EV in steps of $\frac{1}{3}$ EV)
<b>Range</b> (📷 auto mode)	[W]: –0.2 to +16.7 EV [T]: 1 to 17.9 EV (exposure values achieved with automatic ISO sensitivity adjustment converted to ISO 100 values)
<b>Shutter</b>	Mechanical and charge-coupled electronic shutter
<b>Speed</b>	<ul style="list-style-type: none"><li>• <math>\frac{1}{2000}</math>–8 s (when <b>ISO sensitivity</b> is set to 100, 200, 400)</li><li>• <math>\frac{1}{2000}</math>–2 s (when <b>ISO sensitivity</b> is set to 800)</li><li>• <math>\frac{1}{2000}</math>–1 s (when <b>ISO sensitivity</b> is set to <b>Auto</b>, 1600, 3200)</li><li>• 4 s (<b>Fireworks show</b> scene mode)</li></ul>
<b>Aperture</b>	Electronically-controlled ND filter (–2 AV) selection
<b>Range</b>	2 steps (f/3.7 and f/7.4 [W])
<b>Self-timer</b>	Can be selected from 10 and 2 seconds duration
<b>Built-in flash</b>	
<b>Range (approx.)</b> (ISO sensitivity: <b>Auto</b> )	[W]: 0.5 to 4.9 m (1 ft. 8 in. to 16 ft.) [T]: 1.1 to 3.6 m (3 ft. 7 in. to 11 ft.)
<b>Flash control</b>	TTL auto flash with monitor preflashes
<b>Interface</b>	Hi-Speed USB
<b>Data transfer protocol</b>	MTP, PTP
<b>Video output</b>	Can be selected from <b>NTSC</b> and <b>PAL</b>
<b>HDMI output</b>	Can be selected from <b>Auto</b> , <b>480p</b> , <b>720p</b> , and <b>1080i</b>
<b>I/O terminal</b>	Audio/video output; digital I/O HDMI mini connector (Type C) (HDMI output)
<b>Supported languages</b>	Arabic, Chinese (Simplified and Traditional), Czech, Danish, Dutch, English, Finnish, French, German, Greek, Hungarian, Indonesian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Russian, Spanish, Swedish, Thai, Turkish
<b>Power sources</b>	One Rechargeable Li-ion Battery EN-EL12 (supplied) AC Adapter EH-62F (available separately)
<b>Charging time</b>	Approx. 4 hours (when using Charging AC Adapter EH-68P/ EH-68P (AR) and when no charge remains)
<b>Battery life*</b>	Approx. 210 shots (EN-EL12)
<b>Dimensions (W × H × D)</b>	Approx. 97.0 × 55.5 × 25.0 mm (3.9 × 2.2 × 1.0 in.) (excluding projections)
<b>Weight</b>	Approx. 156 g (5.5 oz) (including battery and SD memory card)
<b>Operating environment</b>	
<b>Temperature</b>	0 to 40 °C (32 to 104 °F)
<b>Humidity</b>	Less than 85 % (no condensation)

- Unless otherwise stated, all figures are for a camera with a fully-charged Rechargeable Li-ion Battery EN-EL12 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  **4320 × 3240**. Battery life may vary depending on shooting interval and length of time menus and images are displayed.

### Rechargeable Li-ion Battery EN-EL12

Type	Rechargeable lithium-ion battery
Rated capacity	DC 3.7 V, 1050 mAh
Operating temperature	0 to 40 °C (32 to 104 °F)
Dimensions (W × H × D)	Approx. 32 × 43.8 × 7.9 mm (1.3 × 1.7 × 0.3 in.)
Weight	Approx. 22.5 g (0.8 oz) (excluding terminal cover)

### Charging AC Adapter EH-68P/EH-68P (AR)

Rated input	AC 100-240 V, 50/60 Hz, 0.065-0.04 A
Rated capacity	6.5–9.6 VA
Rated output	DC 5.0 V, 0.5 A
Operating temperature	0 to 40 °C (32 to 104 °F)
Dimensions (W × H × D)	EH-68P: Approx. 55 × 22 × 65 mm (2.2 × 0.9 × 2.6 in.) EH-68P (AR): Approx. 55 × 51.6 × 66 mm (2.2 × 2.0 × 2.6 in.)
Weight	EH-68P: Approx. 60 g (2.1 oz) EH-68P (AR): Approx. 65 g (2.3 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 pictures to be printed from print orders stored on memory cards.
- **Exif version 2.2:** This camera supports Exchangeable image file format (Exif) version 2.2 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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