Nikon

DIGITAL CAMERA

COOLPIX S9050

Reference Manual





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See http://www.mpegla.com.

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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 Nikonauthorized service representative for inspection.



♠ Do not disassemble

Touching the internal parts of the camera or Charging AC Adapter could result in injury. Repairs should be performed only by qualified technicians. Should the camera or Charging AC Adapter break open as the result of a fall or other accident. take the product to a Nikon-authorized service representative for inspection, after unplugging the product and/or removing the battery.



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

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



A 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.



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

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

⚠ Observe caution when handling the battery

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

- Before replacing the battery, turn the product off. If you are using the Charging AC Adapter/AC adapter, be sure it is unplugged.
- Use only a Rechargeable Li-ion Battery EN-EL12 (supplied). Charge the battery by using a camera that supports battery charging or by using a Battery Charger MH-65 (available separately). To charge the battery with the camera, use either Charging AC Adapter EH-69P (supplied) or the Charge by computer function.
- 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 Nikonauthorized service representative for inspection. Failure to observe these precautions could result in fire or electric shock
- Do not handle the plug or Charging AC Adapter with wet hands. Failure to observe this precaution could result in electric shock
- Do not use with travel converters or adapters designed to convert from one voltage to another or with DCto-AC inverters. Failure to observe this precaution could damage the product or cause overheating or fire.

Use appropriate cables

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



Mandle moving parts with care

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



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

Notices for Customers in the U.S.A.

IMPORTANT SAFETY
INSTRUCTIONS - SAVE THESE
INSTRUCTIONS.

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

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

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

Federal Communications Commission (FCC) Radio Frequency Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this

equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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



CAUTIONS

Modifications

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

Interface Cables

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

Notice for customers in the State of California WARNING

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

Wash hands after handling.

Nikon Inc.,

1300 Walt Whitman Road Melville, New York 11747-3064 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

Notices for customers in Europe

CAUTIONS

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

DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.

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



The following apply only to 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 S9050 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

- Secure Digital (SD) memory card, SDHC memory card, and SDXC memory card are referred to as "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 Adapters, 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.

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- No part of the manuals included with this product may be reproduced, transmitted, transcribed, stored in a retrieval system, or translated into any language in any form, by any means, without Nikon's prior written permission.
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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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The copying or reproduction of copyrighted creative works such as books, music, paintings, woodcut prints, maps, drawings, movies, and photographs is governed by national and international copyright laws. Do not use this product for the purpose of making illegal copies or to infringe copyright laws.

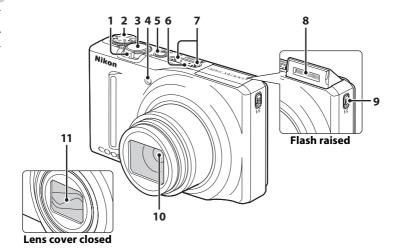
Disposing of Data Storage Devices

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 (169). Care should be taken to avoid injury or damage to property when physically destroying data storage devices.

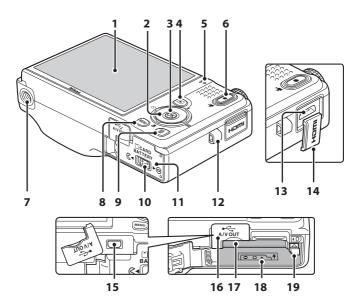
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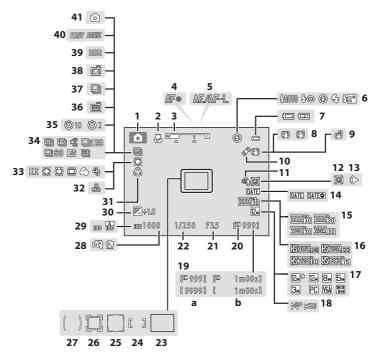
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The Monitor

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 (\square 172).

Shooting

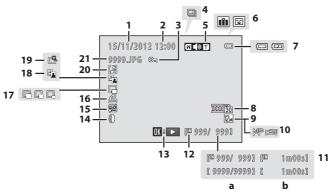


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^{*} The icon displayed varies with the shooting mode.

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¹ The icon for the selected album or the selected category in auto sort mode in playback mode is displayed.

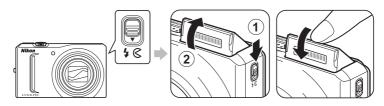
² The icon displayed varies with the setting that was set at the time of shooting.

Basic Operations

Raising and Lowering the Flash (\$\frac{1}{4}\$ \in Flash Pop-up Control)

Slide the $\clubsuit C$ (flash pop-up) control (1) to make the flash pop up (2).

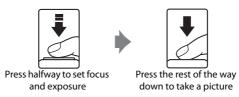
- See "Using the Flash" (32) for more information on setting the flash.
- If the flash will not be used, gently lower the flash until it clicks into place.



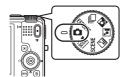
The Shutter-release Button

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. When the shutter-release button is pressed halfway, focus and exposure (shutter speed and aperture value) are set. Focus and exposure remain locked while the shutter-release button is pressed halfway.

While the shutter-release button is held in this position, release the shutter and take a picture by pressing 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 images.



Mode Dial



Rotate the mode dial to the desired icon to switch to the corresponding shooting mode (\square 45).

The (Playback) Button



- Press the button in shooting mode to enter playback mode.
- When the camera is in shooting mode, press the button to switch to playback mode.
- When the camera is off, holding down the button will turn the camera on in playback mode.

The ● (Movie-record) Button

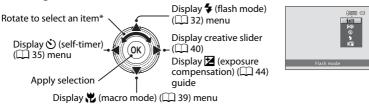


- Press the (*★ movie-record) button in shooting mode to start movie recording (□ 140). Press the (*★ movie-record) button again to stop movie recording.
- Press the
 (→ movie-record) button in playback mode to enter shooting mode.

The Rotary Multi Selector

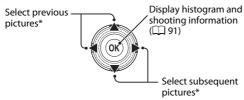
Rotate the rotary multi selector, press its upper (\triangle) , lower (∇) , left (\triangleleft) , or right side (\triangleright) , or press the B button.

Shooting



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

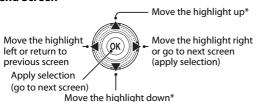
Playback



* 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.



Using Camera Menus

Press the **MENU** button (\bigcirc 5) to display the menu for the selected mode.

Use the rotary multi selector (\square 11) to navigate the menus.

Tab for the menus available in the current shooting mode/ tab for playback mode menu Tab for movie menu (during shooting mode)/playback menu (during playback mode)

Tab for displaying the setup



□ is displayed when there are one or more menu items to follow.

Press the MENU button.





White balance

12_M

AUTO +

9

AF

Press the rotary multi selector

★ or ▼ to choose an item, and then press ▶ or the ® button.

Items can also be chosen by rotating the rotary multi selector (11).

To change tabs, press \blacktriangleleft (\square 13).



Rotary multi selector

3 Press ▲ or ▼ to choose an item and press the
⑥ button.

The setting is applied.



4 When setting is finished, press the **MENU** button.

The camera exits the menu display.

(4)

Switching Between the Tabs on Menu Screens

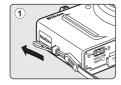


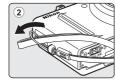
Press the rotary multi selector ◀ to highlight the tab

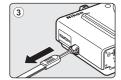
Press the rotary multi selector ▲ or ▼ to select a tab, and press either the ® button or ▶

The selected menu is displayed

Attaching the Camera Strap



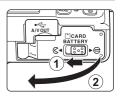




Inserting the Battery

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 (□ 16).
- Open the battery-chamber/memory card slot cover.

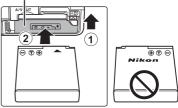


2 Insert the battery.

Use the battery to lift the orange battery latch in the direction indicated by the arrow $(\widehat{\ })$ and fully insert the battery $(\widehat{\ })$.

When the battery is fully inserted, the battery latch will lock it in place.

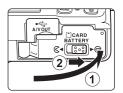
Battery chamber



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.

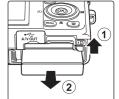
3 Close the battery-chamber/memory card slot cover.



Removing the Battery

Turn the camera off (\square 19) 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).



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

Notes on the Battery

- Be sure to read and follow the warnings for the battery on page iii and the section, "The Battery" (D 193), 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-69P 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-69P.

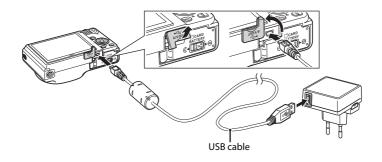


If a plug adapter* is included, attach the plug adapter to the plug on the Charging AC Adapter. Push the plug adapter firmly until it is securely held in place. Once the two are connected, attempting to forcibly remove the plug adapter could damage the product.

- * The shape of the plug adapter varies according to the country or region in which the camera was purchased. The Charging AC Adapter comes with the plug adapter attached in Argentina and Korea.

- **2** Insert the battery (\square 14).
 - Do not turn the camera on.
- **3** Use the supplied USB cable to connect the Charging AC Adapter to the camera.

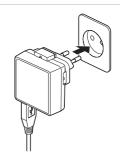
Be sure that connectors are properly oriented. Do not attempt to insert connectors at an angle, and do not use force when connecting or disconnecting the USB cable.



4 Plug the Charging AC Adapter into an electrical outlet.

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

About 3 hours and 50 minutes 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)	 The ambient temperature is not suited to charging. Charge the battery indoors with an ambient temperature of 5°C to 35°C (41°F to 95°F). The USB cable or Charging AC Adapter is not properly connected, or there is a problem with the battery. Disconnect the USB cable or unplug the Charging AC Adapter and correctly connect it again, or change the battery.

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

Notes on Charging AC Adapter

- The Charging AC Adapter EH-69P is for use only with compatible devices. Do not use with another
 make or model of device.
- Be sure to read and follow the warnings for the Charging AC Adapter on page iii and the section, "The Battery" (121 193), before use.
- The EH-69P is compatible with AC 100-240 V, 50/60 Hz electrical outlets. When using in other
 countries, use a plug adapter (commercially available) as necessary. For more information about
 plug adapters, consult your travel agency.
- The Charging AC Adapter EH-69P is for charging the battery inserted into the camera. When the camera is connected to an electrical outlet with the Charging AC Adapter EH-69P, the camera cannot be turned on.
- Do not, under any circumstances, use another make or model of USB-AC adapter other than Charging AC Adapter EH-69P. Failure to observe this precaution could result in overheating or in damage to the camera.

AC Power Source

- 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.

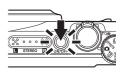
Charging Using Computer or Battery Charger

- The EN-EL12 can be charged without using the camera by using the Battery Charger MH-65 (available separately;

 195).

Turning On and Off the Camera

Press the power switch to turn on the camera. The power-on lamp (green) will light, and then the monitor will turn on (the power-on lamp turns off when the monitor turns on). To turn off the camera, press the power switch again. When the camera is turned off, the power-on lamp and the monitor will turn off.



• If the camera is turned off, hold down the **b** button to turn the camera on in playback mode (30).

Power Saving Function (Auto Off)

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

When the power-on lamp is blinking, the following operations will turn the monitor back on.

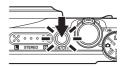
- Pressing the power switch, shutter-release button, ▶ button, or (*★ movie-record) button
- Rotating the mode dial
- In shooting or playback mode, the camera will enter standby mode in about one minute (default setting).
- The time allowed to elapse before the camera enters standby mode can be changed from the **Auto off** option (\square 181) in the setup menu (\square 167).

Setting Display Language, Date, and Time

When the first time the camera is turned on, the language-selection screen and the date and time setting screen for the camera clock are displayed.

1 Press the power switch to turn on the camera.

The power-on lamp (green) will light, and then the monitor will turn on (the power-on lamp turns off when the monitor turns on).



2 Press the rotary multi selector ▲ or ∇ to choose the desired language and press the ® button.

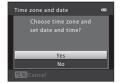


Rotary multi selector



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

To cancel the setting the time zone and date, select No.



4 Press **◄** or **▶** to choose your home time zone and press the (%) button.



Daylight Saving Time

If daylight saving time is in effect, press **A** to enable the daylight saving time function while setting the region in step 4.

When the daylight saving time function is enabled, % is displayed at the top of the monitor. Press ▼ to disable the daylight saving time function.



Date and time

01 01

00 : 00

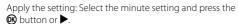
5 Press **△** or **▼** to choose the date format and press the **⑥** button.



6 Press **△**, **▼**, or **▶** to set the date and time, and press the **®** button.

Choose an item: Press ▶ or ◀ (changes between **D**, **M**, **Y**, **hour**, and **minute**).

Edit the highlighted item: Rotate the rotary multi selector or press \triangle or ∇ .



When settings are finished, the lens extends and the camera switches to shooting mode.

Print Date and Changing the Date and Time

- To imprint the date on images while taking pictures, enable print date from the **Print date** option (\(\superpicture\) 174) in the setup menu (\(\superpicture\) 167) after the date and time have been set.
- To change the camera's date and time setting, select **Time zone and date** (\$\sum_170\$) in the setup menu (\$\sum_1167\$).

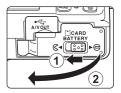
Inserting Memory Cards

Data is saved in the camera's internal memory (approximately 74 MB) or on removable Secure Digital (SD) memory cards (commercially available; 196).

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

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

Be sure to turn off the camera before opening the cover.

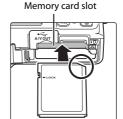


2 Insert the memory card.

Slide the memory card in until it clicks into place.

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.





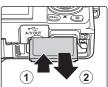
3 Close the battery-chamber/memory card slot cover.

Removing Memory Cards

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

Press the card in (1) to partially eject the card, then remove the card by hand while being careful not to remove the card at an angle (2).

remove the card at an angle (②).
The camera, battery, or memory card may be hot immediately after using the camera. Observe caution when removing the battery or memory card.



Formatting Memory Cards

If the message on the right is displayed when the camera is turned on, the memory card must be formatted before use (182). Note that formatting permanently deletes all images and other data on the memory card. Be sure to make copies of any images you wish to keep before formatting the memory card.

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

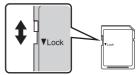


- Do not turn the camera off or open the battery-chamber/memory card slot cover until formatting is complete.
- Be sure to use this camera to format memory cards previously used in other devices the first time they are inserted into the COOLPIX S9050 (
 1 182).

Note on the Write Protect Switch

When memory card 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 save or delete images, or to format the memory card.

Write protect switch



Notes on Memory Cards

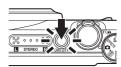
- · Use only Secure Digital memory cards.
- Do not perform the following during formatting, while data is being written to or deleted from the memory card, or during data transfer to a computer. Failure to observe this precaution could result in the loss of data or in damage to the camera or memory card:
 - Remove 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

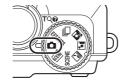
This section describes taking pictures in **(auto)** mode, an automatic, "point-and-shoot" mode recommended for first-time users of digital cameras.

1 Press the power switch to turn on the camera.

The lens extends and the monitor turns on.



Rotate the mode dial to .





3 Check the battery level indicator and the number of exposures remaining.

Battery Level Indicator

Display	Description
	Battery level high.
	Battery level low. Prepare to charge or replace the battery.
Battery exhausted.	Cannot take pictures. Charge or replace the battery.

Battery level indicator



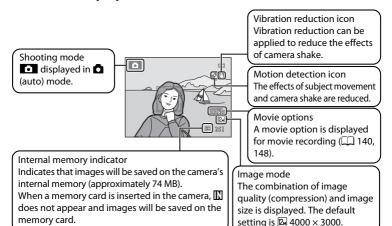
Number of exposures remaining

Number of Exposures Remaining

The number of pictures that can be taken is displayed.

The number of images that can be saved depends on the capacity of the internal memory or memory card and the image mode setting (\square 47).

Indicators Displayed in 🗖 (Auto) Mode



- When the monitor has turned off in standby mode to save power (the poweron lamp is blinking) (181), press the following buttons to turn it back on.
 - → Power switch, shutter-release button, or (*★ movie-record) button

∉ Flash

When the flash is lowered, the flash setting is fixed at off and 3 appears at the top of the monitor. In situations where flash is needed, such as in dark locations or when the subject is backlit, be sure to raise the flash (\bigcirc 4. 32).

Functions Available in 🗖 (Auto) Mode

- The flash mode (\square 32) can be adjusted, the self-timer (\square 35) and macro mode (\square 39) can be applied.
- Brightness (exposure compensation), vividness, and hue can be adjusted with the creative slider (QQ 40).
- Press the MENU button to specify settings for all shooting menu items (\(\subseteq \subseteq 46 \)) according to shooting conditions. The combination of image quality (compression) and image size can be set by using the Image mode option in the shooting menu.

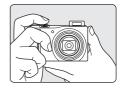
Vibration Reduction and Motion Detection

- See **Vibration reduction** (175) and **Motion detection** (177) in the setup menu (167) for more information.
- Set **Vibration reduction** to **Off** when using a tripod to stabilize the camera during shooting.

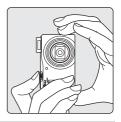
Step 2 Frame a Picture

1 Use both hands and ready the camera.

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



When using the flash (32) while taking pictures in portrait (tall) orientation, turn the camera so that the flash is above the lens.



2 Frame the picture.

When the camera detects a human face, that face is framed by a yellow double border (focus area) (default setting).

Up to 12 faces can be detected. When the camera detects more than one face, the face closest to the camera is framed by a double border and the others by single borders.

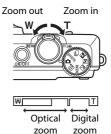


When shooting non-human subjects or when no faces are detected, the focus area is not displayed. Position the main subject near the center of the frame.

Using the Zoom

Use the zoom control to activate optical zoom. Rotate the zoom control toward \mathbf{T} to zoom in, increasing the size of the subject. Rotate the zoom control toward \mathbf{W} to zoom out, increasing the area visible in the frame. Rotating the zoom control all the way in either direction will adjust the zoom quickly, while rotating the control partially will adjust the zoom slowly.

- When the camera is turned on, the zoom is at the maximum wide-angle position.
- 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.

Digital zoom can magnify the subject up to about 4x beyond the maximum magnification of the optical zoom.



 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 (\square 47) and digital zoom magnification.

Interpolation is applied at zoom positions beyond 🗗 when taking still images.

When zoom is increased beyond the Δ position, interpolation is initiated and the zoom indicator turns yellow to indicate that interpolation is being applied.

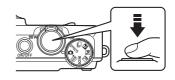
The position of \triangle moves to the right as image size decreases, allowing for confirmation of the zoom positions at which shooting without interpolation is possible at the current image mode setting.



Step 3 Focus and Shoot

1 Press the shutter-release button halfway.

When the shutter-release button is pressed halfway (\sum 9), the camera sets focus and exposure (shutter speed and aperture value). Focus and exposure remain locked while the shutter-release button is pressed halfway.



When a face is detected:

 The camera focuses on the face framed by the double border. When the subject is in focus, the double border glows green.



Shutter speed Aperture

When a face is not detected:

 The camera has nine focus areas, and automatically selects the focus areas containing the subject closest to the camera. When the subject is in focus, the focus areas that are in focus (up to nine areas) glow green.



Shutter speed Aperture

The camera focuses at the center of the frame and the focus area is not displayed when digital zoom is in effect. Once focus has been acquired, the focus indicator (\square 6) glows green.

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.

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

The shutter is released and the image will be saved to the memory card or internal memory.



Note on Saving Images

While images are being saved, the number of exposures remaining will blink. **Do not open the battery-chamber/memory card slot cover** while images are being saved. 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 is behind the subject and the subject is in deep shadow)
- No contrast between the subject and surroundings (e.g. when the subject is wearing a white shirt and is standing in front of a white wall)
- Subject contains objects of varying distances from the camera (such as a cage with an animal inside)
- Subjects with repeating patterns (window blinds, buildings with multiple rows of similarly shaped windows, etc.)
- · 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 positioned at the same distance from the camera as the actual desired subject, and use focus lock (\square 55).

Note on Face Detection

See "AF Area Mode" (\square 53) or "Face Detection" (\square 56) for more information.

When the Subject Is Close to the Camera

If the camera cannot focus, try shooting with macro mode (\square 39) or the **Close-up** scene mode (\square 70).

AF-assist Illuminator and Flash

If the subject is dimly lit, the AF-assist illuminator (\square 178) may light when the shutter-release button is pressed halfway, or the flash (\square 32) may fire when the shutter-release button is pressed all the way down.

Step 4 Playing Back and Deleting Images

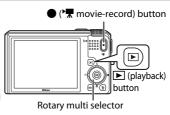
Playing Back Images (Playback Mode)

Press the (playback) button.

The last image captured will be displayed in full-frame playback mode.

Rotate the rotary multi selector, or press \triangle , ∇ , \triangleleft , or \triangleright to view previous or next images (\square 11).

Images may be displayed briefly at low resolution while being read from the memory card or internal memory.



To return to shooting mode, press the ightharpoonup button, shutter-release button, or ightharpoonup (*ightharpoonup movie-record) button.

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



When the Monitor Has Turned Off to Save Power

When the power-on lamp is blinking, press the power switch, shutter-release button, ▶ button, or • (*★ movie-record) button to turn the monitor back on (△ 181).

Operations Available in Playback Mode

See "More on Playback" (89) or "Editing Images" (130) for more information.

Displaying Shooting Information

Press the **3** button in full-frame playback mode to display the highlight, histogram, and shooting information (\square 91). Press the **3** 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 **b** button will turn the camera on in playback mode. The lens will not extend.



Viewing Images

- When images in which the face of a person or a pet was detected at the time of shooting (56, 74) are displayed in full-frame playback mode, depending upon the orientation of the detected face, the images may be automatically rotated for playback display (except images captured with continuous shooting mode (80)).
- For images captured with the continuous shooting feature, each series of images is treated as a group, and only the group's "key picture" is displayed (sequence display → □ 92).

徧

Deleting Unwanted Images

1 Press the fi button to delete the image currently displayed in the monitor.

To exit without deleting, press the **MENU** button.



2 Press the rotary multi selector ▲ or ▼ to choose the desired deletion method and press the 🚱 button.

Current image: Only the current image or voice memo (\square 126) is deleted. If the key picture of a sequence group (\square 92) is selected, all images in the group are deleted.

Erase selected images: Multiple images can be selected and deleted

→ "Operating the Erase Selected Images Screen" **All images**: All images are deleted.



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

Deleted images cannot be recovered.

To cancel, press \blacktriangle or \blacktriangledown to select **No** and press the \circledR button.



Operating the Erase Selected Images Screen

Press the rotary multi selector

or

to choose an image to be deleted and press

to add

to the image and mark it for deletion.

To undo the selection, press \bigvee to remove \bigvee . Rotate the zoom control (\bigcirc 4) to \bigvee (\bigcirc) to switch back to full-frame playback or \bigvee (\bigcirc) to display thumbnails.



2 Add $\ensuremath{\mathscr{O}}$ to all desired images and then press the $\ensuremath{\mathfrak{O}}$ button to confirm the selection.

A confirmation dialog is displayed. Follow the instructions displayed in the monitor.

Notes on Deletion

- Deleted images cannot be restored. Transfer important images to a computer before deleting them.
- Protected images cannot be deleted (122).
- $\bullet \ \ \text{Deleting images captured with the continuous shooting feature} \ \ \textbf{--} \ \text{"Deleting Images in a Sequence"} \ (\square \ 93)$

Ø Deleting the Last Image Captured While in Shooting Mode

Using the Flash

When the flash is needed, such as when the subject is dimly lit or when there is backlighting, pop the flash up. The flash mode can be set to match the shooting conditions.

• When **ISO sensitivity** is set to **Auto**, the flash has a range of 0.5 to 4.0 m (1 ft 8 in. to 13 ft) at the maximum wide-angle zoom position and a range of 1.5 to 2.6 m (5 ft to 8 ft 6 in.) at the maximum telephoto zoom position.

\$AUTO Auto

Flash fires automatically when lighting is dim.

‡ Auto with red-eye reduction

Reduce "red-eye" in portraits.

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

Red-eye Reduction

This camera uses **advanced red-eye reduction** (In-Camera Red-Eye Fix). Pre-flashes are fired repeatedly at low intensity before the main flash, reducing the red-eye effect. Additionally, if the camera detects red eye while saving an image, the affected area will be processed to reduce red-eye before the image is saved.

Note the followings when shooting.

- Because pre-flashes are fired, there is a slight lag between when the shutter-release button is
 pressed and when the shutter is released.
- More time than usual is required to save images.
- Red-eye reduction may not produce the desired results in some situations.
- In extremely rare instances, areas not subject to red-eye may be affected by red-eye reduction processing; in these cases, choose another flash mode and try again.

Setting the Flash Mode

Slide the ♦ € (flash pop-up) control.

The flash pops up.

When the flash is lowered, the flash mode will be fixed at **③** (off).



2 Press the rotary multi selector **4** (flash mode).

The flash mode menu is displayed.

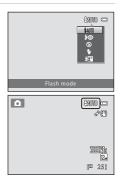


3 Use the rotary multi selector to choose the desired mode and press the ® button.

The icon for the selected flash mode is displayed.

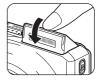
When **\$400** (auto) is applied, **\$400** is only displayed for a few seconds, regardless of **Photo info** settings (173).

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





If the flash will not be used, gently lower the flash until it clicks into place.



Notes on Shooting When the Flash Is Disabled (③) or Lighting Is Dim

- ISO may be displayed in the shooting screen. When ISO is displayed, ISO sensitivity is automatically increased.
- The noise reduction function may be activated with some shooting conditions such as dim lighting. More time than usual is required to save images 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 images. To reduce these reflections, set the flash to **③** (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 (\square 45).

- 🗖 (auto): **\$AUTO** (auto)
- Example 1.5 (scene auto selector): **14MT** (auto). The camera selects the optimum flash mode setting for the scene mode it has selected.
- SCENE: varies with the selected scene mode (QQ 67–73)
- (night landscape): fixed at ③ (off)
- 🔼 (night portrait): fixed at 🎾 (auto with red-eye reduction)
- 🙋 (backlighting): fixed at 🕏 (fill flash) (when **HDR** is Off), fixed at 🔇 (off) (when **HDR** is On) (\(\superboldargeta\) 66)
- **□** (continuous): fixed at **③** (off)
- EFFECTS (special effects): \$AUTO (auto)

The flash mode setting applied in lacktriangle (auto) mode is saved in the camera's memory even after the camera is turned off.

Taking Pictures with the Self-timer

The self-timer is useful for self-portraits or reducing the effects of camera shake that occur when the shutter-release button is pressed. The timer can be set to ten or two seconds. When using the self-timer, use of a tripod is recommended. Set **Vibration reduction** (175) to **Off** in the setup menu (167) 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 **(A)** button.

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

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

When $\mathbf{\Xi}$ is selected, the camera uses face detection to detect a human face, and then automatically releases the shutter when a smile is detected (Ω 37).



When the shooting mode is the **Pet portrait** scene mode, \boxtimes (Pet portrait auto release) is displayed (\square 74). The self-timer settings **10s** and **2s** cannot be used.

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.



Taking Pictures with the Smile Timer

The camera uses face detection to detect human faces, and then automatically releases the shutter when a smile is detected.

This feature can be used when shooting mode (\square 45) is set to \square (auto) mode or the \square (night portrait) or **Portrait** scene mode (\square 61).

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

The self-timer menu is displayed.

To adjust settings for flash mode, creative slider, exposure compensation, or items in the shooting menu, adjust the settings before pressing \mathfrak{O} .



2 Use the rotary multi selector to choose ☑ (smile timer) and press the ❷ button.

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



3 Frame a picture.

Point the camera at the subject.

When the camera detects a human face, a 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 detected. When the camera detects more than one face, the double border (focus area) is displayed around the face closest to the center of the frame, and single borders around the others.

4 The shutter is automatically released.

If the camera detects that the face framed by the double border is smiling, the shutter is automatically released.

Each time the shutter is released, the camera repeats automatic shooting by face detection and smile detection.

5 Finish shooting.

To end automatic shooting by smile detection, either turn off the camera or set the smile timer to **OFF**.

Taking Pictures with the Smile Timer

Notes on the Smile Timer

- Digital zoom is not available.
- Under some shooting conditions, the camera may be unable to detect faces or detect smiles.
- See "Notes on Face Detection" (57) for more information.

Auto Power Off in Smile Timer Mode

When using the smile timer function, the auto off function (\square 181) is activated and the camera turns off when either of the situations indicated below persists and no other operations are performed.

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

Self-timer Lamp Blinking

When using smile timer, the self-timer lamp blinks slowly when the camera detects a face, and blinks quickly immediately after the shutter is released.

Releasing the Shutter Manually

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

More Information

See "Autofocus" (QQ 29) for more information.

Macro Mode

Macro mode is used for taking pictures of objects as close as 4 cm (1.6 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 (\mathfrak{S}) 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 the zoom position at which ⊕ and the zoom indicator glow green.



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

When the zoom is at a position where \P and the zoom indicator glow green (to the left of \triangle), the camera can focus on subjects as close as 11 cm (4.4 in.) from the lens. At the maximum wide-angle position, the camera can focus on subjects as close as 4 cm (1.6 in.) from the lens.

Autofocus

When using \square (auto) mode, if **Autofocus mode** (\square 60) is set to **Full-time AF**, the camera focuses continuously until the shutter-release button is pressed halfway to lock the focus. 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

(auto) mode and continuous shooting mode share the same macro mode setting. When using
 (auto) mode or continuous shooting mode, the macro mode setting is saved in the camera's memory even if the camera is turned off.

Adjusting Brightness (Exposure Compensation), Vividness, and Hue

Brightness (exposure compensation), vividness, and hue can be adjusted for taking pictures by pressing the rotary multi selector \triangleright (\boxtimes). Items that can be set vary by the shooting mode.

When Using ♠ (Auto) Mode (♠ 24) or Continuous Shooting Mode (♠ 80)

Brightness (exposure compensation), vividness, and hue can be adjusted with the creative slider.

Brightness (Exp. +/-)

Use to brighten or darken the overall image.

∀ividness

Vividness adjustment is used to adjust the vividness of the entire image.

[®] Hue

Hue adjustment is used to adjust the hue of the entire image.

See "Operating the Creative Slider" (41) for more information.

When Using Scene Mode (\square 61) or Special Effects Mode (\square 85)

Brightness (exposure compensation) can be adjusted.

Exposure compensation

Use to brighten or darken the overall image.

See "Adjusting Exposure Compensation" (QQ 44) for more information.

Operating the Creative Slider

When using \bigcirc (auto) mode and \bigcirc (continuous) mode, use the creative slider to adjust brightness (exposure compensation), vividness, and hue for taking pictures.

1 Press the rotary multi selector ► (**½**).

The creative slider screen is displayed.



2 Press the rotary multi selector ◀ or ▶ to choose ☒, ☻, or ᇦ.

The screen for adjusting **½** brightness (exposure compensation), **&** vividness, and **&** hue is displayed.



3 Adjust the brightness, vividness, or hue.

The rotary multi selector is used as follows.

- A V: The slider moves. The effect can be adjusted while confirming the results in the monitor. The effect can also be adjusted by rotating the rotary multi selector.
- ◀►: Switches between brightness (exposure compensation), vividness, and hue.

For more information on each item, see the following.

- "Adjusting Brightness (Exposure Compensation)" (43)
- "Adjusting Brightness (Exposure Compensation)" (43)
 "Adjusting Vividness (Saturation Adjustment)" (43)
- "Adjusting Hue (White Balance Adjustment)" (43)

To turn off the effects of the creative slider, press \blacktriangleleft or \blacktriangleright to choose \mathbf{R} , and press the \mathbf{W} button.



4 When adjustment is complete, press **◄** or **▶** to choose **☒** and press the **®** button.

If the \mathfrak{B} button (except when \mathbf{R} is selected) or the shutter-release button is pressed in step 3, the selected amount of effect is applied. When the effect is applied, the camera returns to the shooting screen.

If brightness is adjusted, ${\hbox{\ensuremath{\mathbb{Z}}}}$ and the compensation value are displayed.

If vividness is adjusted, 🚳 is displayed.

If hue is adjusted, 🖓 is displayed.



PP 251

5 Press the shutter-release button to take a picture.

Creative Slider Settings

(auto) mode and continuous shooting mode share the same settings for brightness (exposure compensation), vividness, and hue; these settings are saved in the camera's memory even when the camera is turned off.

Adjusting Brightness (Exposure Compensation)

Adjust the overall brightness of the image.

- To make the subject brighter, move the slider toward "+".
- To make the subject darker, move the slider toward "_".



Exposure Histogram compensation value

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.

Adjusting Vividness (Saturation Adjustment)

Adjust the overall vividness of the image.

 Vividness increases as the slider is moved up. Vividness decreases as the slider is moved down



Adjusting Hue (White Balance Adjustment)

Adjust the overall hue of the image.

• The overall image becomes more reddish as the slider is moved up. The overall image becomes more bluish as the slider is moved down



Note on White Balance Adjustment

When hue is adjusted using the creative slider, **White balance** in the shooting menu (\square 49) cannot be set. To set White balance, select R in the creative slider setting screen to reset the brightness, vividness, and hue.

Adjusting Exposure Compensation

When using scene mode or special effects mode, brightness (exposure compensation) can be adjusted for taking pictures.

1 Press the rotary multi selector **∠** (exposure compensation).

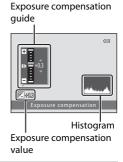
The exposure compensation guide and histogram are displayed.



2 Use the rotary multi selector to select a compensation value.

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

To make the subject darker, apply negative (–) exposure compensation.



3 Press the **®** button to set the compensation value.

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

4 Press the shutter-release button to take a picture.

To reset exposure compensation, repeat from step 1 and set the value to **0.0**, then press **®** button.



Selecting a Shooting Mode (Mode Dial)

Rotate the mode dial and align an icon to the mark to select one of the following shooting modes.



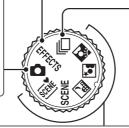


△ (Auto) mode (△ 24)

Pictures can be taken with an automatic, point-and-shoot mode recommended for first-time users of digital cameras. Brightness, vividness, and hue can be adjusted using the creative slider. Various settings are available in the shooting menu (1) 461.

EFFECTS Special effects mode (85)

Effects can be applied to images during shooting. Six different effects are available.



Continuous shooting mode (80)

Change settings to Continuous or BSS (best shot selector).

Scene mode (61)

Camera settings are automatically optimized for the selected scene.

(Scene auto selector)

: By simply framing a picture, the camera automatically selects the optimum scene mode for simpler shooting.

SCENE

: Choose the desired scene from 15 different scene types, and the camera's settings are automatically optimized for

the selected scene.

(Night landscape)

: Captures the atmosphere of night landscapes.

(Night portrait)

: The flash fires to light the portrait subject while preserving the atmosphere of the evening or night view.

(Backlighting)

: The flash fires when there is backlight to prevent the subject from being hidden in shadow, or use the HDR function to shoot when there are very bright areas and

very dark areas in the same frame.

Changing (Auto) Mode Settings (Shooting Menu)

The following options can be set when shooting in \bigcirc (auto) mode (\bigcirc 24).

Image mode

Choose the image mode (combination of image size and compression rate) at which images are saved. This setting can be changed when using any shooting mode

White balance

49

In order to make the colors in images appear as they do to the eye, set white balance to suit the light source.

Metering

 \square 51

Choose how the camera meters exposure.

ISO sensitivity

52

Set the ISO sensitivity to suit the brightness of the subject.

AF area mode

<u></u> 53

Choose how the camera selects the focus area for autofocus

Autofocus mode

1 60

Choose how the camera focuses

Displaying the Shooting Menu

Rotate the mode dial to \bigcirc (auto) mode (\square 45).

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







- Use the rotary multi selector to choose and apply settings (QQ 11).
- To exit the shooting menu, press the **MENU** button.

Camera Settings that Cannot Be Applied Simultaneously

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 images are saved. Choose the image mode best suited to the manner in which images will be used and the capacity of the internal memory or memory card. The higher the image mode setting, the larger the size at which it can be printed or displayed without appearing noticeably "grainy," but limiting the number of images that can be saved.

Image mode	Size (pixels)	Description	
2 4000×3000 ★	4000 × 3000	Images will be higher quality than 2. The compression ratio is approximately 1:4.	
4000×3000 (default setting)	4000 × 3000	Best choice in most situations. The compression ratio is approximately 1:8.	
8 _M 3264×2448	3264 × 2448		
5 _™ 2592×1944	2592 × 1944		
3. 2048×1536	2048 × 1536	Smaller size than [22, 63, or 53 allows more images to be saved. The compression ratio is approximately 1:8.	
PC 1024×768	1024 × 768	Suited to display on a computer monitor. The compression ratio is approximately 1:8.	
10. 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.	
₩ 3968×2232	3968 × 2232	Images with an aspect ratio of 16:9 are saved. The compression ratio is approximately 1:8.	

The icon for the current setting is displayed in the monitor in shooting and playback modes (\square 6, 8).

/ Image Mode

- When using shooting modes other than (auto) mode, this setting can be changed by pressing the **MENU** button.
- The setting is also applied to other shooting modes.

Number of Exposures Remaining

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

To confirm the number of images that can be saved in the internal memory (approximately 74 MB), remove the memory card from the camera, and then check the number of remaining exposures displayed in the monitor when shooting.

lmage mode	Memory card ¹ (4 GB)	Print size ² (cm/in.)
2 4000×3000★	650	34 × 25/13 × 10
2 4000×3000	1280	34 × 25/13 × 10
8 _M 3264×2448	1910	28 × 21/11 × 8
5 <u>⊾</u> 2592×1944	2940	22 × 16/8.5 × 6.5
3 <u>м</u> 2048×1536	4640	17 × 13/7 × 5
PC 1024×768	15000	9 × 7/3.5 × 2.5
™ 640×480	24100	5 × 4/2 × 1.5
🖺 3968×2232	1720	34 × 19/13 × 7.5

¹ If the number of exposures remaining is 10,000 or more, the number of exposures remaining display shows "9999."

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

White Balance (Adjusting Hue)

(auto) → MENU (Shooting menu) → 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 is automatically adjusted to suit lighting conditions. Best choice in most situations.

PRE Preset manual

Useful when shooting under unusual lighting. See "Preset Manual" for more information (Ω 50).

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.

多 Flash

Use with the flash.

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

Notes on White Balance

- When hue is adjusted using the creative slider (\$\square\$ 43), this feature cannot be set.
- At white-balance settings other than **Auto** or **Flash**, turn the flash off (**③**) (32).

White Balance Settings

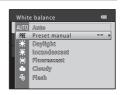
This setting can be set by pressing the **MENU** button even when using continuous shooting mode $(\square 30)$. \square (auto) mode and continuous shooting mode share the same **White balance** setting.

Preset Manual

Preset manual is used with mixed lighting or to compensate for light sources with a strong color cast when the desired effect has not been achieved with white balance settings like **Auto** and **Incandescent** (for example, to make images shot under a lamp with a red shade look as though they had been shot under white light). Use the procedure below to measure the white balance value under the lighting used during shooting.

- Place a white or gray reference object under the lighting that will be used during shooting.
- Display the shooting menu (46), use the rotary multi selector to choose PRE Preset manual in the White balance menu, and press the button.

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



3 Choose Measure.

To apply the most recently measured white balance value, choose **Cancel** and press the **W** button. The white balance setting will not be measured again and the most recently measured value will be set.



4 Frame the reference object in the measuring window.



Measuring window

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

 The shutter is released and the new white-balance value is set. No image is saved.
- Note 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)

Uses a wide area of the screen for metering. This metering mode provides the appropriate exposure for a variety of shooting conditions. Recommended for typical shooting.

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 $(\square 55)$ to meter off-center subjects.

Note on Metering

While digital zoom is in effect, metering is set to center-weighted metering or spot metering (the area in the center of the monitor is metered). The active metering area is not displayed.

Metering Settings

This setting can be set by pressing the **MENU** button even when using continuous shooting mode (□ 80). a(auto) mode and continuous shooting mode share the same **Metering** setting.

Metering Area

The active metering area is displayed in the monitor when ${\bf Center-weighted}$ is selected for ${\bf Metering}.$



ISO Sensitivity

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

When ISO sensitivity is increased, less light is needed when taking pictures. Higher ISO sensitivity allows darker subjects to be captured. Additionally, even with subjects of similar brightness, pictures can be taken at faster shutter speeds, and blurring caused by camera shake and subject movement can be reduced.

 Although higher ISO sensitivity is effective when shooting darker subjects, shooting without the flash, shooting with the camera zoomed in, etc., images may contain noise.

Auto (default setting)

Sensitivity is ISO 160 when there is sufficient lighting; the camera compensates by raising sensitivity to a maximum of ISO 800 when lighting is dim.

Fixed range auto

Limits the ISO sensitivity to ISO 160-400 when the camera automatically adjusts ISO sensitivity. The camera sets the maximum value for ISO sensitivity to 400 for effective control over the amount of "grain" that appears in images.

160, 200, 400, 800, 1600, 3200

ISO sensitivity is locked at the specified value.

The icon for the ISO sensitivity setting is displayed in the monitor (\square 6).

- When **Auto** is selected, the **SO** icon is not displayed at ISO 160, but is displayed if the ISO sensitivity automatically increases to more than 160 (34).
- When **Fixed range auto** is selected, **400** is displayed.

Notes on ISO Sensitivity

ISO Sensitivity Settings

This setting can be set by pressing the **MENU** button even when using continuous shooting mode $(\square 30)$. \bigcirc (auto) mode and continuous shooting mode share the same **ISO sensitivity** setting.

AF Area Mode

(auto) → MENU (Shooting menu) → AF area mode

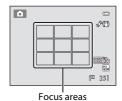
Use this option to determine how the camera selects the focus area for autofocus.

Face priority (default setting)



∆UTO Auto

The camera has nine focus areas, and automatically selects the focus areas 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 areas that are in focus (up to nine areas) selected by the camera will be displayed in the monitor.

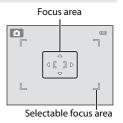


[ii] Manual

Select one of 99 focus areas in the monitor. This option is suited to situations in which the intended subject is relatively still and not positioned in the center of the frame.

Rotate the rotary multi selector or press ▲, ▼, ◀, or to move the focus area to where the subject is, and take a picture.

- To change settings for any of the following functions, first press the button to cancel focusarea selection, then change the settings as desired.
 - Flash mode, macro mode, self-timer
 - Brightness (exposure compensation), vividness, hue
 To return to the focus area selection screen, press the
 button again.

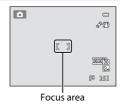


Changing (Auto) Mode Settings (Shooting Menu)

[•] Center

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

The focus area is always displayed at the center of the screen.



Subject tracking

By registering a subject, the focus area will automatically move to track and focus on the subject.

"Focusing on a Moving Subject (Subject Tracking)" (

58).



Notes on AF Area Mode

- When digital zoom is in effect, focus will be on the center of the screen regardless of the AF area mode setting.
- Autofocus may not perform as expected (\bigcirc 29).

AF Area Mode Settings

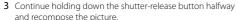
This setting can be set by pressing the MENU button even when using continuous shooting mode (□ 80). (□ (auto) mode and continuous shooting mode share the same **AF area mode** setting.



Use focus lock to focus on off-center subjects when center is selected for AF area mode. The following steps explain the usage of focus lock when **Center** is selected for **AF area mode**.

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.



- 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.









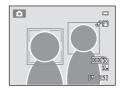
Face Detection

When the camera is pointed at the face of a person, the camera detects the face and focuses on it. The face detection function is activated in the following situations.

- When AF area mode is set to **Face priority** in **△** (auto) mode or continuous shooting mode (△ 53)
- When the following scene modes are selected:
 - Scene auto selector (QQ 62)
 - 🔼 (night portrait) (🕮 65)
- **Portrait** (QQ 67)
- When smile timer is selected (37)

1 Frame a picture.

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



When the camera detects 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 detected
(auto) mode or continuous shooting mode (Face priority)	The face closest to the camera Other faces framed by single	Up to 12
Scene auto selector, (night portrait), and (portrait scene modes)	border.	
Smile timer	The face closest to the center of the frame Other faces framed by single border.	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 to focus.



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

When using smile timer, the shutter is released automatically if the camera detects that the face framed by the double border is smiling; there is no need to press the shutter-release button (\square 37).

Notes on Face Detection

- If the camera is unable to detect 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 detected when the shutter-release button is pressed halfway in the Portrait and
 (night portrait) scene modes, the camera will focus on the subject at the center of the frame.
- The camera's ability to detect faces depends on a variety of factors, including whether or not the subject is facing the camera. The camera may be unable to detect faces in the following situations:
 - When faces are partially hidden by sunglasses or otherwise obstructed
 - When faces take up too much or too little of the frame
- When the frame includes more than one face, the faces detected by the camera and the face on
 which the camera focuses depend upon a variety of factors, including the direction in which the
 faces are looking.
- When using autofocus and shooting subjects that are difficult to focus on (\(\simp\) 29), the subject
 may not be in focus even though the double border is green. If the subject is not in focus, change
 AF area mode to **Manual** or **Center** in (auto) mode, and try focus lock shooting (\(\simp\) 55) by
 focusing on another subject that is the same distance from the camera.
- Images captured using face detection will be rotated and displayed automatically according to
 the orientation of the faces detected, in full-frame and thumbnail playback modes (excluding
 images captured using continuous shooting mode (\$\subseteq\$ 80)).

Focusing on a Moving Subject (Subject Tracking)

Use this mode to take pictures of moving subjects. By registering a subject, the camera can move the focus area automatically to track the subject.

1 Press the MENU button in (auto) mode or continuous mode.

The shooting menu or continuous menu is displayed.



Use the rotary multi selector to select Subject tracking in the AF area mode option and press the ® button.

AF area mode. $\rightarrow \square$ 53

Press the **MENU** button after changing the settings and return to the shooting screen.



3 Register a subject.

Align the subject with the white border at the center of the frame and press the **®** button.

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

When the subject is registered, a yellow double border (focus area) is displayed around that subject.

To change the subject, press the **®** button to deregister the current subject.

If the camera cannot track the registered subject anymore, the focus area will disappear and the registration will be canceled. Register the subject again.





4 Press the shutter-release button to take a picture.

The camera focuses on the focus area when the shutterrelease 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

- Digital zoom is not available.
- Adjust zoom position, flash mode, exposure compensation, and menu settings prior to registering
 the subject. If any camera setting is changed after the subject has been registered, subject
 registration will be canceled.
- It may be impossible to register the desired subject, or the camera may be unable to track the
 registered 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 detects a similar subject. The
 camera's ability to accurately track the registered subject is also dependent upon the size and
 brightness of the subject.
- When using autofocus and shooting subjects that are difficult to focus on (□ 29), the subject may not be in focus even though the focus area glows green. If the subject is not in focus, change AF area mode (□ 53) to Manual or Center in (auto) mode, and try focus lock shooting (□ 55) by focusing on another subject that is the same distance from the camera.

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" (\square 87) for more information.

Autofocus Mode Setting

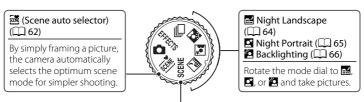
This setting can be set by pressing the **MENU** button even when using continuous shooting mode $(\square 30)$. \square (auto) mode and continuous shooting mode share the same **Autofocus mode** setting.

Autofocus Mode for Movie Recording

Autofocus mode for movie recording can be set with **Autofocus mode** (150) in the movie menu (146).

Shooting Suited to Scenes (Scene Mode)

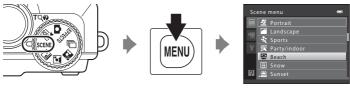
When one of the following scenes is selected using the mode dial or the scene menu, images are captured using settings that are optimized for the selected scene.



SCENE

Press the **MENU** button to display the scene menu and choose one of the following shooting scenes.

2 Portrait (default setting) (67)	■ Landscape (□ 67)
ধ Sports (🕮 68)	🎇 Party/indoor (🗀 68)
₽ Beach (□ 69)	Snow (□ 69)
≌ Sunset (◯ 69)	ដ Dusk/dawn (🛄 69)
Close-up (QQ 70)	▼ Food (◯◯ 71)
1 Museum (◯◯ 72)	Fireworks show (72)
■ Black and white copy (□ 73)	🎽 Panorama (🕮 73)
₩ Pet portrait (□ 74)	



Choose a scene type from the scene menu and rotate the zoom control (4) to T (2) to view a description (help) of that scene. To return to the original screen, rotate the zoom control to T (2) again.

Image Mode

The **Image mode** setting (\square 47) can be changed by pressing the **MENU** button in scene mode. Changes made to the image mode setting apply 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 one of the following scene modes for simpler shooting.

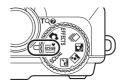
- **L**andscape
- III: Night landscape
- **P**: Backlighting

- Z: Portrait
- PY: Night portrait
- W: Close-up

1 Rotate the mode dial to

The camera enters scene auto selector.

If the flash is closed, **The flash is lowered.** is displayed. Slide the **\$ (** flash pop-up) control to make the flash pop up.





2 Frame the subject and take a picture.

The shooting mode icon changes.

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

- · 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 (24) or select the desired scene manually (64).

Focusing Using Scene Auto Selector

- When the shooting mode indicator (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** (CD 53).

Shooting with Night Landscape and Night Portrait When Using Scene Auto Selector

- If the camera switches to (night landscape) when using scene auto selector, the camera captures a series of images which will be combined into a single image and saved.
- If the camera switches to (night portrait) when using scene auto selector, flash mode is fixed at red-eye reduction for shooting human subjects (the camera does not shoot continuously).
- In dark surroundings, the use of a tripod is recommended. Set **Vibration reduction** (175) to **Off** when using a tripod to stabilize the camera.

Flash

- \$AUTO (auto; default setting) and ③ (off) flash mode settings can be applied (ДД 32).
 - When 4400 (auto) is selected, the camera automatically selects the optimum flash mode setting for the scene mode it has selected.
 - When 🔇 (off) is selected, the flash does not fire even if the flash is popped up.
- To make sure the flash does not fire, take pictures with the flash lowered.

Functions Available in Scene Auto Selector

- The self-timer (35) and exposure compensation (40) settings can be adjusted.
- Smile timer (37) cannot be used.
- The macro mode button on the rotary multi selector (39) is disabled.

Choosing a Scene and Shooting (Scene Mode Types and Characteristics)

The mode dial can be used to select scenes when shooting $(\square 61)$.

See "Shooting in the Scene Mode Selected by the Camera (Scene Auto Selector)" (\square 62) for more information on scene auto selector.

♦ is used in the following scene descriptions to indicate the flash mode (□ 32) setting when the flash is raised. **♦** indicates the self-timer (□ 35), **♦** indicates macro mode (□ 39), and **2** indicates exposure compensation (□ 40) settings.

Captures the atmosphere of night landscapes.

Press the MENU button to set Night landscape to Hand-held or Tripod.

- Hand-held (default setting): Select this option to produce shots with reduced blurring and noise even when the camera is hand-held.
 - The 🗐 icon is displayed in the shooting screen.
 - When the icon at the top left of the monitor lights in green, press the shutterrelease button all the way to capture a series of images which will be combined into a single image and saved.
 - Once the shutter-release button is pressed all the way, hold the camera steady without
 moving it until a still image is displayed. After taking a picture, do not turn the camera
 off before the monitor switches to the shooting screen.
 - The angle of view (i.e., the area visible in the frame) seen in the saved image will be narrower than that seen in the monitor at the time of shooting.
- **Tripod**: Select this option when using a tripod or other means to stabilize the camera during shooting.
 - The 🖺 icon is displayed in the shooting screen.
 - Vibration reduction (\(\superscript{\subscript{\sinctript{\subscript{\subscript{\subscript{\sinctript{\sinctript{\sinctript{\sinctript{\sinctript{\sinctript{\sinctript{\sinctript{\sinctript{\sinctript{\sinctript{\sinctript{\sinctript{\supscript{\sinctript{\sinctript{\sinctript{\sinctript{\sinctript{\sinct
 - One image is captured at a slow shutter speed when the shutter-release button is pressed all the way.
- Digital zoom is not available.
- Camera focuses at infinity. The focus area 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 (QQ 178) does not light.

4	③	৩	Off ¹	*	Off	12	0.0 ²
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The self-timer can be used.

² Other settings can be selected.

Night portrait

Use this mode for portraits of a human subject shot in front of background lighting at night. Flash is used to illuminate the subject while maintaining the mood of the background. Press the **MENU** button to set **Night portrait** to **Hand-held** or **Tripod**.

- Hand-held: Select this option to produce shots with reduced blurring and noise even when the camera is hand-held.
 - The 🗐 icon is displayed in the shooting screen.
 - When the
 — icon at the top left of the monitor lights in green, press the shutterrelease button all the way to capture a series of images which will be combined into a
 single image and saved.
 - Once the shutter-release button is pressed all the way, hold the camera steady without
 moving it until a still image is displayed. After taking a picture, do not turn the camera
 off before the monitor switches to the shooting screen.
 - The angle of view (i.e., the area visible in the frame) seen in the saved image will be narrower than that seen in the monitor at the time of shooting.
 - If the subject moves while the camera is shooting continuously, the image may be distorted, overlapped, or blurred.
- **Tripod** (default setting): Select this option when using a tripod or other means to stabilize the camera during shooting.
 - The 😡 icon is displayed in the shooting screen.
 - **Vibration reduction** (175) is automatically set to **Off** regardless of the setting in the setup menu (167).
 - One image is captured at a slow shutter speed when the shutter-release button is pressed all the way.
- · Raise the flash before taking pictures.
- Digital zoom is not available.
- When the camera detects a human face, it focuses on that face (see "Face Detection" (\sum 56) for more information).
 - If more than one face is detected, 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 saving images (\sum 67).
 - If no faces are detected, the camera focuses on the subject at the center of the frame.



¹ The flash fires using red-eye reduction.

² Other settings can be selected.

Backlighting

Use when light is coming from behind the subject, throwing features or details into shadow.

Press the **MENU** button to set **HDR** to **On** or **Off** according to the shooting conditions and subject.

When **HDR** is set to **Off** (default setting): The flash fires to prevent the subject from being hidden in shadow.

- Raise the flash before taking pictures.
- The camera focuses on the subject at the center of the frame. One image is captured when the shutter-release button is pressed all the way.

When **HDR** is set to **On**: Use when taking pictures with very bright and dark areas in the same frame.

- The HDR icon is displayed in the shooting screen. If there are very bright areas and very dark areas in the frame, the icon lights in green.
- The camera focuses on the subject at the center of the frame. Digital zoom is not available.
- When the shutter-release button is pressed all the way, the camera shoots images
 continuously at high speed, and saves the following two images.
 - An image processed by D-Lighting (133) at the time of shooting
 - A composite image with high dynamic range (HDR) in which the loss of details in highlights or shadows is minimized
- The second image saved is an HDR composite image. If there is only enough memory to save one image, an image processed by D-Lighting is the only image saved.
- Once the shutter-release button is pressed all the way, hold the camera steadily without
 moving it until a still image is displayed. After taking a picture, do not turn the camera off
 before the monitor switches to the shooting screen.
- The angle of view (i.e., the area visible in the frame) seen in the saved image will be narrower than that seen in the monitor at the time of shooting.



Flash is fixed at \$ (fill flash) when **HDR** is set to **Off**, and is fixed at \$ (off) when **HDR** is set to **On**.

² The self-timer can be used.

³ Other settings can be selected.

SCENE → 2 Portrait

Use this mode for portraits.

- If more than one face is detected, 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 saving images.
- If no faces are detected, the camera focuses on the subject at the center of the frame.
- · Digital zoom is not available.



^{*} Other settings can be selected.

SCENE → I Landscape

Use this mode for vivid landscapes and cityscapes.

- Camera focuses at infinity. The focus area or focus indicator (\$\sum_{17}\$) 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 (178) does not light.



^{*} Other settings can be selected.

Notes about Skin Softening

When using the \blacksquare (night portrait) or **Portrait** scene modes, the camera detects up to three human faces when the shutter is released, and processes the image to soften facial skin tones before saving the image.

- · More time than usual is required to save images.
- The level of effect applied cannot be adjusted. Confirm the result by playing back the image.
- Skin softening can also be applied on saved images (\square 134).
- In some shooting conditions, facial skin tones may not be smoothed or parts other than face may be modified though the camera detects a face.

Sports \$

Use this mode for dynamic action shots that freeze the action in a single shot and record motion in a series of pictures. With continuous shooting, instantaneous movements in moving subjects can be captured clearly.

- The camera focuses on the subject in the center of the frame. The camera focuses
 continuously until the shutter-release button is pressed halfway to lock the focus.
- While the shutter-release button is held all the way down, about 24 images are captured
 continuously at a rate of up to about 1.8 fps (when image mode is set to 4000×3000).
 Shooting ends when the shutter-release button is released.
- Focus, exposure compensation, and white balance are fixed at the values determined with the first shot in each series.
- The speed of continuous shooting may decrease depending on the image mode, the type of memory card used, and shooting conditions.
- AF-assist illuminator (178) does not light.

*	(3)	৩	Off	**	Off	12	0.0*

^{*} Other settings can be selected.

SCENE → XX Party/indoor

Suitable for taking pictures in parties. Captures the effects of candlelight and other indoor background lighting.

- The camera focuses on the subject at the center of the frame.
- As images are easily affected by camera shake, hold the camera steadily. In dark surroundings, the use of a tripod is recommended. Set Vibration reduction (175) to Off when using a tripod to stabilize the camera.



The flash mode setting may automatically switch to slow sync with red-eye reduction. Other settings can be selected.

² Other settings can be selected.

SCFNF → P Beach

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

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



^{*} Other settings can be selected.

SCENE → B Snow

Captures the brightness of sunlit snow.

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



^{*} Other settings can be selected.

SCENE → **Sunset**

 $\overline{\Lambda}$

Preserves the deep hues seen in sunsets and sunrises.

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



^{*} Other settings can be selected.

SCENE → i 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 (\$\sum_{1}\$ 7) 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 (QQ 178) does not light.



^{*} Other settings can be selected.

SCENE → W Close-up

Use this mode to photograph flowers, insects, and other small objects at close range.

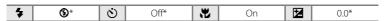
- Macro mode (39) is enabled and the camera automatically zooms to the closest position at which it can focus.
- The closest distance at which the camera can focus varies depending on the zoom position.

When the zoom is at a position where \P and the zoom indicator glow green (to the left of \triangle), the camera can focus on subjects as close as 11 cm (4.4 in.) from the lens. At the maximum wide-angle position, the camera can focus on subjects as close as 4 cm (1.6 in.) from the lens.

AF area mode is set to Manual and the focus area in which the camera focuses can be selected (☐ 53). Press the ⊕ button and then move the focus area by rotating the rotary multi selector or by pressing ▲, ▼, ◄, or ▶.

To change settings for any of the following functions, first press the **®** button to cancel focus-area selection, then change the settings as desired.

- Flash mode
- Self-timer
- Exposure compensation
- The camera focuses continuously until the shutter-release button is pressed halfway to lock the focus.
- As images are easily affected by camera shake, be sure that Vibration reduction (\(\subseteq\) 175) is enabled and hold the camera steadily.



* Other settings can be selected. Note that the flash may be unable to light entire subject at distances of less than 50 cm (1 ft 8 in.).

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SCFNF → TI Food

Use this mode when taking pictures of food.

- Macro mode (39) 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.
 - When the zoom is at a position where $\[\frac{1}{3} \]$ and the zoom indicator glow green (to the left of $\]$), the camera can focus on subjects as close as 11 cm (4.4 in.) from the lens. At the maximum wide-angle position, the camera can focus on subjects as close as 4 cm (1.6 in.) from the lens.
- Hue can be adjusted in the range of the slider displayed on the left in the monitor. Press the rotary multi selector ▲ to make the image more reddish, or ▼ to make it more bluish. The hue setting is saved in the camera's memory even after the camera is turned off.
- AF area mode is set to Manual and the focus area in which the camera focuses can be selected (□ 53). Press the button and then move the focus area by rotating the rotary multi selector or by pressing ♠, ▼, ◄, or ▶.

To change settings for any of the following functions, first press the **®** button to cancel focus-area selection, then change the settings as desired.

- Hue
- Self-timer
- Exposure compensation
- The camera focuses continuously until the shutter-release button is pressed halfway to lock the focus.
- As images are easily affected by camera shake, be sure that Vibration reduction (\(\superactio\) 175) is enabled and hold the camera steadily.



^{*} Other settings can be selected.



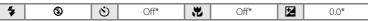
More on Shooting

Shooting Suited to Scenes (Scene Mode)

SCENE → m Museum

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

- Camera focuses on the subject at the center of the frame.
- BSS (best shot selector) can be enabled (82).
- As images are easily affected by camera shake, be sure that Vibration reduction (\(\sum_175\)) is enabled and hold the camera steadily.
- AF-assist illuminator (178) does not light.



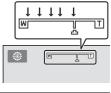
* Other settings can be selected.

SCENE → ® Fireworks show

1

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

- Camera focuses at infinity. The focus indicator (\(\sumeq\) 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 (178) does not light.
- Only the five optical zoom positions shown on the right can be applied. When the zoom control is rotated, zoom will not stop at any position other than the five indicated (digital zoom is available).





SCENE → □ Black and white copy

Provides clear images 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 (39) to focus at short ranges.
- Colored text and drawings may not show up well.

, c c (B

^{*} Other settings can be selected.

SCENE → M Panorama

Use this mode to take panorama pictures.

From the screen displayed after the 🂢 **Panorama** scene mode is selected, select **Easy panorama** or **Panorama assist**.

- Easy panorama (default setting): By simply moving the camera in the desired direction, panoramas that can be played back using the camera can be taken.
 - \rightarrow "Shooting with Easy Panorama" (\square 75)
 - → "Playing Images Captured with Easy Panorama" (ДД 77)
- Panorama assist: Use this setting to take a series of pictures while confirming how each
 image will connect to the next. After transferring the images to a computer, the images
 can be joined by using the supplied Panorama Maker software (158).
 - → "Shooting with Panorama Assist" (ДД 78)

4	③ ¹	৩	Off ²	*	Off ¹	7	0.0 ³

- ¹ Can be changed when using **Panorama assist**.
- ² Self-timer can be used when using **Panorama assist**.
- ³ Other settings can be selected.

Note on Printing Panoramas

When printing panoramas, the entire image may not be able to be printed depending on the printer's settings. Additionally, printing may not be possible depending on the printer.

See the documentation provided with the printer or consult the digital photo lab for details.

SCENE → 🐕 Pet portrait

Use this mode when taking pictures of dogs or cats. When the camera detects the face of a dog or cat, the camera focuses on that face. Once the camera has focused, by default it automatically releases the shutter (pet portrait auto release).

- From the screen displayed after the Pet portrait scene mode is selected, select
 Single or Continuous.
 - Single: Images are captured one at a time.
 - Continuous: Three images are captured continuously when a face is focused on (at a rate of about 1.8 fps when image mode is 4000×3000). While Continuous is selected, the is displayed in the shooting screen.
- When the camera detects a face, a double border (focus area) is displayed around the face, and the double border glows green when the camera has focused.
 The faces of up to five pets can be detected at the same time. When the camera detects more than one face, the face displayed largest in the monitor is framed by a double border and the others by single borders.



- If no pet faces are detected, the shutter can be released by pressing the shutter-release button.
 - If no pet faces are detected, the camera focuses on the subject at the center of the frame.
 - When **Continuous** is selected, about 24 images are captured continuously at a rate of about 1.8 fps (when image mode is set to **2.4000×3000**) while the shutter-release button is held all the way down. Shooting ends when the shutter-release button is released.
- - **Pet portrait auto release** (default setting). The camera automatically releases the shutter when it focuses on the detected face. While **Pet portrait auto release** is selected, the ☑ icon is displayed in the shooting screen.
 - **Off**: The shutter is released only when the shutter-release button is pressed.
- Digital zoom is not available.
- Depending on the distance of the pet from the camera, the speed of the pet's movement, the direction the pet is facing, the ambient brightness of the pet's face, etc., dog and cat faces may not be detected and faces of other animals may be detected.
- Pet portrait auto release is automatically set to Off in the following situations.
 - When continuous shooting using pet portrait auto release is repeated five times
 - When the camera is turned back on after entering standby mode (\square 19)
 - When there is no remaining space in the internal memory or on the memory card To continue using **Pet portrait auto release** to take more pictures, press the rotary multi selector ◀ (ல்) and change the setting again.



Can be set to Off. Self-timer (10s, 2s) is not available.

² Other settings can be selected.

Shooting with Easy Panorama

1 Rotate the mode dial to SCENE, press the MENU button and choose

▶ Panorama (61).



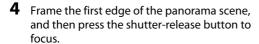




3 Choose Normal (180°) or Wide (360°) as the shooting range and press the W button.

When the camera is readied in the horizontal position, the image size (width × height) is as follows.

- Sto Normal (180°): 3200 x 560 when moved horizontally, 1024 x 3200 when moved vertically
- Wide (360°): 6400 × 560 when moved horizontally, 1024 × 6400 when moved vertically
- When the camera is readied in the vertical position, the direction and the width and height are switched.



The zoom position is fixed at the widest position.

A grid is displayed in the monitor.

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



If the focus and exposure are not correct, try using focus lock (\square 55).



EDAY

5 Press the shutter-release button all the way, and then remove your finger from the shutter-release button.

D is displayed to indicate the direction the camera movement.



6 Move the camera slowly and straight in one of the four directions, and begin shooting.

When the camera detects which direction it is moving in, shooting begins.

A guide indicating the current shooting position is displayed.

When the shooting position guide reaches the edge, shooting ends.



Exposure compensation guide

Example of camera movement



The operator, without shifting position, moves the camera horizontally or vertically in an arc.

Move the camera from one edge of the panorama range to the other, in about 15 seconds for 180° shooting angles, and about 30 seconds for 360° shooting angles.

Notes on Easy Panorama Shooting

- The range of the image seen in the saved image will be narrower than that seen in the monitor at the time of shooting.
- If the camera is moved too quickly or if the camera is shaken too much, an error will occur.
- If shooting is stopped before the camera reaches the half-way point in the panorama range, a panorama image is not saved.
- If more than half of the panorama range is captured but shooting ends before reaching the edge
 of the range, the range not captured is recorded and displayed in gray.

Playing Images Captured with Easy Panorama

Switch to playback mode (30, 89), display an image captured using easy panorama in full-frame playback mode, and then press the ® button to display the short edge of the image using the entire monitor and automatically move (scroll) the displayed area.



The image scrolls in the direction that was used when shooting.

Rotate the rotary multi selector to advance or rewind. Playback controls are displayed at the top of the monitor during playback. Press the rotary multi selector button to use the following operations.



Function	lcon		Description		
Rewind	*	Hold do	own the 📵 button to scroll backward quickly.		
Advance	>	Hold do	lold down the 🔞 button to scroll forward quickly.		
		The following operations can be performed while playback is paused using the controls displayed at the top in the monitor			
Pause	4	Hold down the 🕲 button to rewind.*			
	II▶	Hold down the 🚱 button to scroll.*			
			Resume automatic scrolling.		
End		Switch to full-frame playback mode.			

^{*} Scrolling can also be performed by rotating the rotary multi selector.

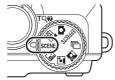
Note on Easy Panorama Scroll Playback

Shooting with Panorama Assist

The camera focuses on the subject at the center of the frame. Use a tripod for the best results. Set **Vibration reduction** (\square 175) to **Off** in setup menu (\square 167) when using a tripod to stabilize the camera.

1 Rotate the mode dial to SCENE, press the MENU button and choose

▶ Panorama (◯ 61).





2 Choose ASSIST Panorama assist and press the ® button.

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



(A)

3 Use the rotary multi selector to choose the direction and press the ® button.

Select the direction in which images will be joined in the completed panorama; right ($\)$), left ($\)$), up ($\)$), or down ($\)$).

The yellow panorama direction icon $(\triangleright \triangleright)$ is displayed for the current direction and the direction is fixed when the

8 button is pressed. The icon changes to the white fixed direction \nearrow icon.

If necessary, apply flash mode (\square 32), self-timer (\square 35), macro mode (\square 39), and exposure compensation (\square 40) settings with this step.

Press the **®** button again to choose a different direction.

4 Frame the first portion of the panorama scene and take the first picture.

One third of the image will be displayed as translucent.





5 Take the next picture.

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

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





6 Press the **®** button when shooting is complete.

The camera returns to step 2.



Notes on Panorama Assist

- Shooting ends if the auto off function (181) is activated. If the camera enters standby mode during shooting, set **Auto off** to a longer setting.

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

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



Combining Images to Make a Panorama

Transfer images to a computer (\square 159) and use Panorama Maker (\square 158) to join them in a single panorama.

Install Panorama Maker from the supplied ViewNX 2 CD.

More Information

See "File and Folder Names" (197) for more information.

Burst Shooting (Continuous Shooting Mode)

Use this mode to capture the details of a moving subject by shooting a continuous series of images.

• The focus, exposure, and white balance settings are fixed at the values for the first picture in each series.

Rotate the mode dial to ☐ (continuous).

The camera enters continuous shooting mode.





2 Press the MENU button and confirm or change the settings in the continuous menu.

See "Continuous Menu" (\$\simeq\$ 82) for more information. Press the **MENU** button after changing the settings and return to the shooting screen.



3 Frame the subject and shoot.

By default, if the camera detects a human face, it focuses on that face (see "Face Detection" (\square 56) for more information). If the camera does not detect any faces, the camera selects the focus areas (up to nine areas) containing the subject closest to the camera.



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

When **Continuous H**, **Continuous L**, **Pre-shooting cache**, or **BSS** is selected in the continuous menu, images are captured while the shutter-release button is held all the way down.

When **Continuous H: 120 fps, Continuous H: 60 fps,** or **Multi-shot 16** is selected in the continuous menu, the number of images determined by the setting are captured when the shutter-release button is pressed all the way. There is no need to hold the shutter-release button down.

After taking a picture, the camera returns to the shooting screen. If $\overline{\mathbb{Z}}$ is displayed, do not turn the camera off.

Notes on Continuous Shooting Mode

- It may take some time to save the images after shooting. The amount of time it takes to finish
 saving the captured images depends on the number of images, image mode, the write speed of
 the memory card, etc.
- When ISO sensitivity increases, noise may appear in captured images.
- The speed of continuous shooting may decrease depending on the image mode, type of memory card used, and shooting conditions.
- When Continuous is set to Pre-shooting cache, Continuous H: 120 fps, Continuous H: 60 fps, or Multi-shot 16, banding or variance in brightness or hue may occur in images that were captured under lighting that flickers at high speeds, such as fluorescent, mercury-vapor, or sodium-vapor lighting.

Functions Available in Continuous Shooting Mode

- Brightness (exposure compensation), vividness, and hue can be adjusted with the creative slider (40).
- Press the MENU button to display the (continuous) menu and change continuous shooting mode settings (\(\superact{Q}\) 82).
- Flash and self-timer cannot be used.

Images Captured in Continuous Shooting Mode

Each time images are captured using **Continuous H**, **Continuous L**, **Pre-shooting cache**, **Continuous H: 120 fps**, or **Continuous H: 60 fps**, the captured images are saved as a "sequence" (\square 92).

More Information

- See "Autofocus" (29) for more information.

Changing Continuous Shooting Mode Settings

After displaying the \blacksquare (continuous) mode shooting screen (\square 80), press the **MENU** button (\square 5) to set the following options in the continuous menu.

- Items other than Continuous share the same settings with (auto) mode, and the settings are saved in the camera's memory even if the camera is turned off
- Use the rotary multi selector to choose and apply settings (11, 12).
- To exit the shooting menu, press the **MENU** button.
- Some functions cannot be enabled in conjunction with others (\$\sime\$ 87).

Image mode

□ 47

Choose the image mode (combination of image size and compression rate) at which images are saved (except for **Continuous H: 120 fps, Continuous H: 60 fps,** and **Multi-shot 16**).

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

White balance

49

In order to make the colors in images appear as they do to the eye, set white balance to suit the light source.

Metering

51

Choose how the camera meters exposure.

Continuous

Choose the desired continuous shooting option.

Continuous settings can be confirmed in the monitor when shooting (\square 6).

Option	Description
Continuous H (default setting)	While the shutter-release button is held all the way down, images are captured continuously at a rate of about 9.5 fps (when image mode is set to 4000×3000). Shooting ends when the shutter-release button is released, or 5 images have been captured.
Continuous L	While the shutter-release button is held all the way down, about 24 images are captured continuously at a rate of up to about 1.8 fps (when image mode is set to 4000×3000). Shooting ends when the shutter-release button is released.

Option	Description			
Pre-shooting cache	Pre-shooting cache makes it easy to capture perfect moments, by saving images from before the shutter-release button was pressed all the way. Pre-shooting cache shooting begins when the shutter-release button is pressed halfway, and continues when the shutter-release button is pressed all the way (84). Frame rate: up to 7.5 fps Number of frames: Up to five frames (including up to two frames captured in the pre-shooting cache) Shooting ends when the shutter-release button is released or when the maximum number of frames has been shot.			
□1 20 Continuous H: 120 fps	Each time the shutter-release button is pressed all the way, 50 frames are captured at a speed of about 1/125 s or faster. Image mode is fixed at (image size: 1280 × 960 pixels).			
□60 Continuous H: 60 fps	Each time the shutter-release button is pressed all the way, 25 frames are captured at a speed of about 1/60 s or faster. Image mode is fixed at 2 (image size: 1600 × 1200 pixels).			
BSS BSS (best shot selector)	The "best shot selector" is recommended when shooting with the flash off or the camera zoomed in, or in other situations in which inadvertent motion can result in blurred images. The camera captures a series of up to five images while the shutter-release button is held all the way down, and the sharpest image in the series is automatically selected and saved. • BSS is best suited to shooting subjects that are not moving. When shooting moving subjects or when the composition of the picture changes while shooting, the desired results may not be achieved.			
■ 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.			

Burst Shooting (Continuous Shooting Mode)

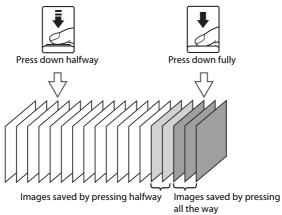
ISO sensitivity	 52
Set the ISO sensitivity to suit the brightness of the subject.	
AF area mode	 53
Use this option to determine how the camera selects the focus area for	or autofocus.
Autofocus mode	\$\bigcirc\$ 60

Choose how the camera focuses.

Pre-shooting Cache

When **Pre-shooting cache** is selected, shooting begins when the shutter-release button is pressed halfway for 0.5 seconds or longer, and images captured before the shutter-release button is pressed all the way are saved along with images captured after the shutter-release button is pressed all the way. Up to two images can be saved in the pre-shooting cache.

The pre-shooting cache setting can be confirmed in the monitor when shooting (\square 6). When the pre-shooting cache is not set, no icon is displayed. The pre-shooting cache icon lights in green while the shutter-release button is pressed halfway.



If the number of exposures remaining is less than five, shooting with the pre-shooting cache is not
possible. Before shooting, check that there are five or more exposures remaining.

Applying Effects When Shooting (Special Effects Mode)

One of the following effects can be applied to images during shooting.

Option	Description	
Soft	Softens the image by adding a slight blur to the entire image.	
Nostalgic sepia Adds a sepia tone and reduces the contrast to simulate qualities of an old photograph.		
High-contrast monochrome	Changes the image to black and white and gives it sharp contrast.	
High key	h key Gives the entire image a bright tone.	
Low key	Gives the entire image a dark tone.	
Selective color	Creates a black and white image in which only the specified color remains.	

1 Rotate the mode dial to EFFECTS (special effects).

The camera enters special effects mode.





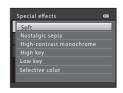
Press the MENU button to display the special effects menu, use the rotary multi selector to choose **Special effects**, and then press the button.

The screen for selecting the desired special effect is displayed.



3 Press ▲ or ▼ to choose an effect and press the 🕅 button.

Press the **MENU** button after changing the settings and return to the shooting screen.



4 Frame the subject and shoot.

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

 When Selective color is selected in step 3, rotate the rotary multi selector or press ▲ or ▼ to select the desired color from the slider.

To change settings for any of the following functions, first press the **®** button to cancel color selection, then change the settings as desired.

- Flash mode (32)
- Self-timer (35)
- Macro mode (39)
- Exposure compensation (44)





𝑉 Functions Available in Special Effects Mode

- Press the MENU button to display the
 (special effects) menu and select Image mode to choose
 the image mode (combination of image size and compression rate) used when saving images.
 Changes made to the image mode setting apply to all shooting modes (□ 47).
- Flash mode (\(\sum 32\), self-timer (\(\sum 35\)), macro mode (\(\sum 39\)), and exposure compensation (\(\sum 44\)) can be set.

Camera Settings that Cannot Be Applied Simultaneously

Restricted function	Setting	Descriptions		
Self-timer	AF area mode (🕮 53)	When AF area mode is set to Subject tracking , self-timer is not available.		
Macro mode	AF area mode (🕮 53)	When AF area mode is set to Subject tracking , macro mode is not available.		
Image mode	Continuous (🕮 80)	When using Continuous H: 120 fps, image mode is fixed at (image size: 1280 × 960 pixels). When using Continuous H: 60 fps, image mode is fixed at (image size: 1600 × 1200 pixels). When using Multi-shot 16, image mode is fixed at (image size: 2560 × 1920 pixels).		
White balance	Hue (using the creative slider) (41)	When hue is adjusted using the creative slider, White balance in the shooting menu cannot be set. To set White balance , select ? in the creative slider setting screen to reset the brightness, vividness, and hue.		
	Continuous (\$\square\$ 80)	When shooting with Pre-shooting cache, Continuous H: 120 fps, or Continuous H: 60 fps, White balance is fixed at Auto.		
Metering	Continuous (🛄 80)	When shooting with Pre-shooting cache, Continuous H: 120 fps, or Continuous H: 60 fps, Metering is fixed at Matrix.		
ISO sensitivity		tracking, macro mode is not available. When using Continuous H: 120 fps, image mode is fixed at (image size: 1280 × 960 pixels). When using Continuous H: 60 fps, image mode is fixed at (image size: 1600 × 1200 pixels). When using Multi-shot 16, image mode is fixed at (image size: 2560 × 1920 pixels). When hue is adjusted using the creative slider, White balance in the shooting menu cannot be set. To set White balance, select (image size: 2560 × 1920 pixels). When shooting with Pre-shooting cache, Continuous H: 120 fps, or Continuous H: 60 fps, White balance is fixed at Auto. When shooting with Pre-shooting cache, Continuous H: 120 fps, or Continuous H		
	Continuous (💢 80)	Continuous H: 120 fps, Continuous H: 60 fps, or Multi-shot 16, the ISO sensitivity setting is automatically set		

Camera Settings that Cannot Be Applied Simultaneously

Restricted function	Setting	Descriptions
	Smile timer (CC 37)	Face detection is used regardless of the AF area mode setting.
AF area mode	Continuous (🕮 80)	When shooting with Pre-shooting cache, Continuous H: 120 fps, or Continuous H: 60 fps, AF area mode is fixed at Center.
Autofocus mode	Continuous (🔲 80)	When shooting with Pre-shooting cache, Continuous H: 120 fps, or Continuous H: 60 fps, Autofocus mode is fixed at Single AF.
Print date	Continuous (QQ 80)	When using any setting other than Multi-shot 16 , the date is not imprinted.
Motion detection	ISO sensitivity (🕮 52)	Motion detection is disabled when the ISO sensitivity is set to any setting other than Auto.
	AF area mode (💭 53)	When AF area mode is set to Subject tracking, Motion detection is not available.
AF assist	Continuous (80)	When shooting with Pre-shooting cache, Continuous H: 120 fps, or Continuous H: 60 fps, the AF-assist illuminator does not light.
	AF area mode (🕮 53)	When AF area mode is set to Subject tracking , digital zoom is not available.
Digital zoom	Continuous (QQ 80)	When using Multi-shot 16 , digital zoom is disabled.
Blink warning	Smile timer (37)	Blink warning does not function.

Features Not Available in Continuous Shooting Mode

When using continuous shooting mode, the following features cannot be used.

- Flash mode (QQ 32)
- Self-timer (35)/Smile timer (37)
- Motion detection (CC 177)
- Blink warning (CCC 186)

More Information

See "Notes on Digital Zoom" (179) for more information.

Operations in Full-frame Playback Mode

Press the (playback) button in shooting mode to enter playback mode and display images that have been captured (30).



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

Function	Control	Description	Ш
Select images	(OK)	Press ▲, ▼, ◀, or ▶ to display previous or next images. Press and hold ▲, ▼, ◀, or ▶ to scroll quickly through images. Images can also be selected by rotating the rotary multi selector.	11
Switch to thumbnail display/calendar display mode	W (55)	Display images by 4, 9, 16, or 72 image thumbnails. Rotate the zoom control to W (►) with 72 thumbnails displayed to switch to calendar display. (except for list by date mode)	94, 96
Playback zoom	T (Q)	Rotate the zoom control to T (Q) to enlarge the image up to 10×. Press the ® button to return to full-frame playback mode.	97
Display shooting information	®	Display the histogram and the shooting information. Press the 🔞 button to return to full-frame playback.	91
Scroll playback of pictures taken using easy panorama	© 8	Display the short edge of the displayed image using the entire monitor, and automatically move the displayed area.	77
Display individual images of a sequence	∞	If pressed when displaying a sequence that is displayed by its key picture only, all images in the sequence are displayed as individual images. To return to key picture only display, press the rotary multi selector	92
Play back movies	®	Play back the movie currently displayed.	152

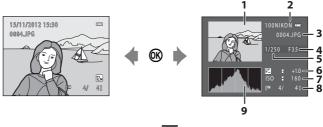
Operations in Full-frame Playback Mode

Function	Control	Description	Ш
Delete images	Ó	Select a deletion method and delete images. When using favorite pictures mode (101), auto sort mode (109), or list by date mode (113), images in the same album, category, or shooting date can be deleted.	31,93
Display menus	MENU	Display the menu for the selected mode.	115
Switch to another playback mode	MENU	Display the menu and select the MODE (playback mode) tab to switch to favorite pictures mode, auto sort mode, or list by date mode.	99
	▶		
Switch to shooting mode	<u>*</u>	Press the button or shutter-release button. The time to switch to shooting mode.	30
	•		

Changing the Orientation (Vertical/Horizontal) of Images

Displaying the Histogram and Shooting Information

Press the **6** button in full-frame playback mode to display the highlight, histogram, and the shooting information. Press the **®** button again to return to full-frame playback mode.



- Highlight¹
- Folder name
- File name
- **Aperture**
- Shutter speed

- Exposure compensation
- ISO sensitivity
- Current frame number/ total number of frames
- Histogram²

Notes on Histogram and Shooting Information

Not displayed for the following:

- Images in a sequence (when only the key picture is displayed to represent all images)
- · Panoramas captured with easy panorama
- Movies

Areas of the image that are extremely bright (highlight areas) blink. Use as a guide when using exposure compensation to adjust image brightness.

² 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.

Playing Images Captured Using Continuous Shooting Mode (Sequence)

Each series of images captured using the following settings is saved in a sequence.

- Continuous shooting mode (80)
 - Continuous H
 - Continuous L
 - Pre-shooting cache
 - Continuous H: 120 fps
 - Continuous H: 60 fps

- Scene mode (QQ 64)
 - Sports
 - Pet portrait mode (when **Continuous** is selected)

In full-frame playback mode or thumbnail playback mode (\square 94), the first image of a sequence is used as the "key picture", i.e., it is displayed to represent the images in the sequence.

 ■ is displayed in the playback screen for images captured in a sequence (□ 8). Sequence display

While the key picture of a sequence is displayed in full-frame playback mode, press the ® button to display each image in the sequence individually. To return to key picture only display, press the rotary multi selector **A**.



The following operations are available when each image in a sequence is displayed individually.

- Zoom in: Rotate the zoom control to $\mathbf{T}(\mathbf{Q})$ ($\mathbf{\square}$ 97).
- Display the histogram and shooting information: Press the 8 button (\square 91).

Sequence Display Options

Select **Sequence display options** (129) in the playback menu to set all sequences to be displayed using their key pictures or to display them as individual images.

Changing Key Picture in Sequence

A sequence's key picture can be changed using **Choose key picture** (\square 129) in the playback menu.

Deleting Images in a Sequence

If **Sequence display options** (129) in the playback menu is set to **Key picture only**, press the button to select a deletion method and delete the following images.

- If only the key picture is displayed to represent all images:
 - **Current image**: When a sequence is selected, all images in that sequence are deleted.
 - Erase selected images: When the key picture is selected in the deletion image selection screen (31), all images in the sequence are deleted.
 - **All images**: All images are deleted, including the currently displayed sequence.
- If the key picture is selected and the button is pressed to display each individual image in the sequence before pressing the button: Deletion methods change as follows.
 - **Erase current picture**: The image currently displayed is deleted.
 - Erase selected images: When multiple images in the same sequence are selected in the deletion image selection screen (
 31), the selected images are deleted.
 - **Erase entire sequence**: All images in the sequence, including the image currently displayed, are deleted.

Note on Sequence

Images captured continuously with cameras other than the COOLPIX S9050 cannot be displayed as a sequence.

Playback Menu Options Available When Using Sequence

When the **MENU** button is pressed during key picture playback, the following menu operations are available for the images in that sequence.

- Quick retouch¹ (QQ 132)
- Skin softening¹ (QQ 134)
- Frame¹ (QQ 137)
- Slide show (121)
- Rotate image¹ (QQ 124)
- Sequence display options (129)
- Favorite pictures² (101)

- D-Lighting¹ (QQ 133)
- Filter effects 1 (135)
- Print order² (CCC 117)
- Protect² (122)
- Small picture¹ (QQ 138)
- Copy² (QQ 127)
- Choose key picture (129)

¹ Press the **MENU** button after displaying individual images. Settings can be applied to individual images.

When the MENU button is pressed during key picture playback, the same settings can be applied to all images in that sequence. Press the MENU button after displaying individual images to apply settings to individual images.

Viewing Multiple Images: Thumbnail Playback

Rotate the zoom control to **W** (♠) in full-frame playback mode (♠ 89) to display images in "contact sheets" of thumbnail images.



The following operations are available while thumbnails are displayed.

Function	Control	Description	Ш
Choose images	(OK)	Rotate the rotary multi selector, or press △ , ▼ , ◄ or ▶ .	11
Increase the number of images displayed/apply the calendar display	W (E 3)	Rotate the zoom control to W (♠) to increase the number of image thumbnails displayed: 4 → 9 → 16 → 72 → calendar display. Rotate the zoom control to W (♠) with 72 thumbnails displayed to switch to calendar display (except for list by date mode). Rotate the zoom control to W (♠) in the 16-image thumbnail display to apply the calendar display (♠) 96), and images can be found by the date on which they were captured. Rotate the zoom control to W (♠) to return to thumbnail display.	-
Decrease the number of images displayed	T (Q)	Rotate the zoom control to \mathbf{T} (\mathbf{Q}) to decrease the number of image thumbnails displayed: 72 \rightarrow 16 \rightarrow 9 \rightarrow 4. Rotate the zoom control to \mathbf{T} (\mathbf{Q}) in 4-image thumbnail display to return to full-frame playback mode.	
Delete images	Ó	Select a deletion method and delete images. When using favorite pictures mode (\(\sum 101\)), auto sort mode (\(\sum 109\)), or list by date mode (\(\sum 113\)), images in the same album, category, or shooting date can be deleted.	31

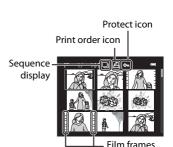
Function	Control	Description	ш
Switch to full-frame playback mode	ØB	Press the ® button.	89
Switch to shooting mode	•	Press the ▶ button or shutter-release button. The ♠ (*★ movie-record) button can also be used to switch to shooting mode.	30

Thumbnail Playback Mode Display

When images marked using **Print order** (\square 117) or **Protect** (\square 122) are selected, the icons shown on the right are displayed with them.

The icon shown on the right is displayed when an image in a sequence (\square 92) is selected.

Movies are displayed as film frames (If 72-image thumbnails are displayed, 🐺 is displayed at the top of the monitor when a movie is selected).



Thumbnail Display in Favorite Pictures Mode and Auto Sort Mode

- In favorite pictures mode (\(\sime\) 101), the icon of the album being played back is displayed at the top right of the monitor.
- In auto sort mode (109), the current image's category icon is displayed at the top right of the monitor.



Calendar Display

With playback display of 72 thumbnails (\square 94), rotate the zoom control to **W** (\blacksquare) to switch to calendar display (except for list by date mode).

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

The following operations are available in calendar display.



Function	Control	Description	Ш
Select date	(OK)	Rotate the rotary multi selector, or press △ , ▼ , ◄ , or ▶ .	11
Return to full-frame playback	®	The first image captured on the selected date is displayed full frame.	89
Return to thumbnail display	T (Q)	Rotate the zoom control to $\mathbf{T}(\mathbf{Q})$.	94

Notes on Calendar Display

- Images captured when the camera's date is not set are treated as images captured on January 1, 2012.
- The mutton and MENU button are not available in calendar display.

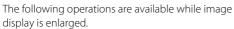
List by Date Mode

Only the images captured on the same date can be played back in list by date mode (\square 113). The list by date options (\square 114) are also available only for the images captured on the selected date.

Taking a Closer Look: Playback Zoom

Rotating the zoom control to $\mathbf{T}(\mathbf{Q})$ in full-frame playback mode (\mathfrak{Q} 89) enlarges display of the center portion of the current image.

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





Function	Control	Description	
Zoom in	T (Q)	Zoom increases each time the zoom control is rotated to $\mathbf{T}(\mathbf{Q})$, up to about 10x.	-
Zoom out	W (5)	Zoom decreases each time the zoom control is rotated to W (➡). When the magnification ratio reaches 1×, the display returns to full-frame playback mode.	-
View other areas of image	(OK)	Press the rotary multi selector \blacktriangle , \blacktriangledown , \blacktriangleleft , or \blacktriangleright to move the display area to other areas of the image.	11
Delete images	Ó	Select a deletion method and delete images. When using favorite pictures mode (101), auto sort mode (109), or list by date mode (113), images in the same album, category, or shooting date can be deleted.	31
Switch to full- frame playback mode	Ø8	Press the 🚱 button.	89
Crop image	MENU	Create a cropped copy with only the enlarged portion and save the copy as a separate file.	139
Switch to shooting mode	•	Press the ▶ button or shutter-release button. The ● (*★ movie-record) button can also be used to switch to shooting mode.	30

Images Captured with Face Detection or Pet Detection

When zooming in (playback zoom) on an image captured using the face detection (\square 56) or pet detection function (\square 74) by rotating the zoom control to \mathbf{T} (\mathbf{Q}), the image will be enlarged with the face detected at the time of shooting at the center of the monitor (except images captured with continuous shooting mode (\square 80)).



- If more than one face was detected, the image 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 detected faces.
- Rotate the zoom control toward T (Q) again or toward W (►) to zoom in or out as normal.

Playing Back Images by Category

The following playback modes can be selected.

▶ Play

□ 89

Play back all images.

★ Favorite pictures

Play back images added to an album.

Auto sort

109

Play back images and movies automatically sorted to the selected category with shooting.

List by date

<u> 113</u>

Play back images captured on the selected date.

1 Press the MENU button in playback mode.

The playback menu is displayed.



2 Press the rotary multi selector **◄**.

Tab selection is activated.

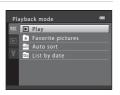


3 Press **△** or **▼** to choose the **MODE** tab.



4 Press ▶ or the **®** button.

The playback-mode selection menu is displayed.



5 Use the rotary multi selector to choose a playback mode.

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



6 Press the **®** button.

The camera enters the selected playback mode.

Sorting Favorite Images (Favorite Pictures Mode)

Captured images can be added to an album and sorted.

After images are added, they can be easily played back using "A favorite pictures mode."

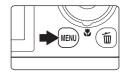
- By adding images to an album, images can be easily found.
- Images can be sorted by each event such as vacations or weddings.
- The same image can be added to multiple albums.

Adding Images to an Album

Captured images can be added to an album and sorted.

1 Choose an image in playback mode (30), auto sort mode (109), or list by date mode (113) and press the MENU button.

The playback menu is displayed.



2 Use the rotary multi selector to choose ★ Favorite pictures and press the ® button.

The favorite pictures screen is displayed.



3 Rotate the rotary multi selector or press ◀ or ▶, and then choose an image and press ▲ to display ❤.

To add more images to the same album, repeat this step as necessary.

To undo the selection, press ∇ to remove $\boldsymbol{\vee}$.

Rotate the zoom control (\square 4) to **T** (\mathbb{Q}) to switch back to full-frame playback or **W** (\mathbb{H}) to display thumbnails.

Press the ${\Large \textcircled{M}}$ button to display the album selection screen.



4 Use the rotary multi selector to choose the album to which the images will be added and press the ® button.

The selected images are added and the camera switches to the playback menu.

To add the same image to multiple albums, repeat from step 3.



Notes on Favorite Pictures

- Up to 200 images can be added to each album.
- Movies cannot be added to an album.
- If the selected image has been already added to an album,
 ✓ is displayed in the album's checkbox.
- When images are added to an album, they are not moved from the folder to which they were saved (\$\sum 197\$) or copied to the album (\$\sum 108\$).

More Information

Viewing Images in an Album

When using " avorite pictures mode", images added to an album can be displayed by selecting the album.

- In full-frame playback mode, images in the same album can be played back
 (□ 89) and edited (□ 130).
- When the MENU button is pressed in full-frame playback mode or thumbnail display mode, the favorite pictures menu (105) is displayed, and all images added to an album can be selected for viewing in a slide show, or applying print order or protection settings.
- Press the MENU button during playback, select the MODE (playback mode) tab, and then press ➤ or the ® button (□ 99).





displayed.

2 Use the rotary multi selector to choose ♣, and press the ℜ button.

A list of albums is displayed.



3 Use the rotary multi selector to choose an album.

For information about operating the list of albums screen, see \square 105.

When the **®** button is pressed, an image in the selected album is displayed full frame.

The icon of the album currently being played back is displayed at the top right of the monitor.

Repeat steps 1 and 2 to select a different album.





Removing Images From an Album

Remove images from an album without deleting the images.

1 Select the album from which images will be removed, play back images in that album (□ 103), and then press the MENU button.

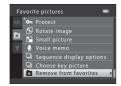
The playback menu is displayed.





2 Use the rotary multi selector to choose ★ Remove from favorites and press the ® button.

The remove from favorites screen is displayed.



Rotate the rotary multi selector or press ◀ or ▶, and then choose an image and press ▲ to display ❤.

To remove more images from the same album, repeat this step as necessary.

To undo the selection, press ∇ to remove $\boldsymbol{\vee}$.

Rotate the zoom control (\square 4) to T(Q) to switch back to full-frame playback or $W(\blacksquare)$ to display thumbnails.

Press the **(N)** button when selection is complete.



4 Choose **Yes** and press the ® button.

The image is removed from the album.

To cancel removal, select No.



Note on Deletion

Using Favorite Pictures Mode

The following operations are available from the list of albums screen (\square 103 step 3).

Function	Control	Description	
Choose an album	(OK)	Rotate the rotary multi selector, or press ▲, ▼, ◀, or ▶.	11
Switch to full- frame playback mode	Ø8	Images in the selected album are displayed full frame.	89
Delete images	Ó	All images added to the selected album are deleted. Choose Yes when the confirmation dialog is displayed.	31
Change the album icon	MENU	Change the album icon.	106
	Þ		
Switch to shooting mode	•	Press the ▶ button or shutter-release button. The ♠ (The movie-record) button can also be used to switch to shooting mode.	30

Favorite Pictures Menu

Press the **MENU** button in full-frame playback mode or thumbnail playback mode in favorite pictures mode to apply the following menu operations.

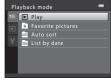
Quick retouch	→ 🕮 132	D-Lighting	→ 🔲 133
Skin softening	→ 🕮 134	Filter effects	→ 🔲 135
Frame	→ 🔲 137	Print order	→ 🔲 117
Slide show	→ 🕮 121	Protect	→□ 122
Rotate image	→ 🕮 124	Small picture	→ 🔲 138
Voice memo	→ 🔲 125	Sequence Display Options	→ 🔲 129
Choose Key Picture	→ 🔲 129	Remove from favorites	→ 🔲 104

Changing the Album Icons

The design of the album icons can be changed. By changing the icons, it will be easier to identify what kind of images are added to each album.

1 Press the MENU button during playback, choose the MODE (playback mode) tab, and then press ▶ or the ® button (□ 99).





The playback-mode selection menu is displayed.

2 Use the rotary multi selector to choose **₹**, and

press the button.

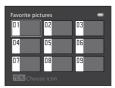
A list of albums is displayed.



3 Use the rotary multi selector to choose an album and press the MENU button.

The choose icon screen is displayed.





4 Press **◄** or **▶** to choose an icon color and press the **®** button.



5 Press **△**, **▼**, **⊲**, or **▶** to choose an icon and press the **®** button.

The icon changes and the monitor display returns to the list of albums screen.



Notes on Album Icons

Set the album icons separately for the internal memory and for the memory card.

- To change the album icons for the internal memory, first remove the memory card from the camera.
- The default setting for the icon is the number icon (black).

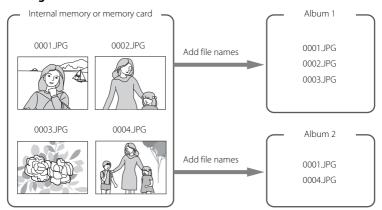
Adding/Playing Favorite Pictures

When images are added to an album, they are not moved from the folder to which they were saved (

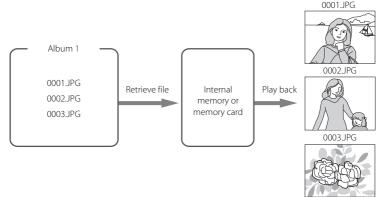
197) or copied to the album. Only the file names of the images are added to the album. When using favorite pictures mode, images are played back by retrieving the images that correspond to the file names added to the albums.

Note that if an image is deleted while using favorite pictures mode (31, 105), the image will be removed from the album and it will be permanently deleted from the internal memory or the memory card.

Adding Pictures to Albums



Viewing Pictures in Albums



Finding Images in Auto Sort Mode

Images and movies are automatically sorted to one of the following categories with shooting. When "a auto sort mode" is selected, images and movies can be viewed by selecting the category to which they were sorted.

≅ Smile	Portraits	TI Food
■ Landscape	Dusk to dawn	Close-ups
🙀 Pet portrait	▼ Movie	☑ Retouched copies
Other scenes		

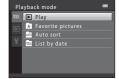
- In full-frame playback mode, images in the same category can be played back
 (\(\sum_{\text{8}}\) 89) and edited (\(\sum_{\text{1}}\) 130). Images can be also sorted into albums.
- When the MENU button is pressed, the auto sort menu (112) is displayed, and
 all images in the same category can be selected for viewing in a slide show, or
 applying print order or protection settings.

Viewing Images in Auto Sort Mode

Press the MENU button during playback, choose the MODE (playback mode) tab, and then press ▶ or the № button (□ 99).

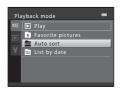
The playback-mode selection menu is displayed.





2 Use the rotary multi selector to choose **a**, and press the **(8)** button.

A list of categories is displayed.



3 Use the rotary multi selector to choose a desired category.

For information about categories, see "Auto Sort Mode Categories" (111).

For information about operating the auto sort mode screen, see "Operations in Auto Sort Mode" (112).

Press the **1** button to display an image 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.

Repeat steps 1 and 2 to select a different category.





Auto Sort Mode Categories

Category	Description
Smile	Images captured using smile timer (🕮 37).
Portraits	Images captured in a(uto) mode (☐ 24) and continuous shooting mode (☐ 80) using face detection (☐ 56). Images captured in the following scene modes. Images captured in the following scene modes.
TI Food	Images captured in the Food (71) scene mode.
Landscape	Images captured in the Landscape* (67) scene mode.
■ Dusk to dawn	Images captured in the following scene modes. ■ (night landscape)* (□ 64) Sunset (□ 69), Dusk/dawn (□ 69), Fireworks show (□ 72)
Close-ups	Images captured in ▲ (auto) mode and continuous shooting mode (□ 80) with macro mode set (□ 39). Images captured in the Close-up* (□ 70) scene mode.
₩ Pet portrait	Images captured in the Pet portrait (\square 74) scene mode.
₩ Movie	Movies (CQ 140).
☑ Retouched copies	Copies created using editing function (QQ 130).
☐ Other scenes	All other images that cannot be defined by the categories described above.

^{*} Images captured in scene auto selector (62) are also sorted to the appropriate categories.

Notes on Auto Sort Mode

- Up to 999 images and movie files can be sorted to each category in auto sort mode. If 999 images
 or movies have already been sorted to a specific category, new images and movies cannot be
 sorted to that category nor can they be displayed in auto sort mode. Display images and movies
 that could not be sorted to a category in normal playback mode (30) or list by date mode
 113).
- Images or movies saved by a camera other than the COOLPIX S9050 cannot be displayed in auto sort mode.

Operations in Auto Sort Mode

The following operations are available in the category list screen (\square 110 step 3).

Function	Control	Description	
Select a category	(OK)	Rotate the rotary multi selector, or press ▲, ▼, ◀, or ▶.	11
Switch to full- frame playback mode	®	Display images in the selected category in full-frame playback mode.	89
Delete images	Ú	Delete all images in the selected category. Choose Yes when the confirmation dialog is displayed.	31
	▶		
Switch to shooting mode	•	Press the ▶ button or shutter-release button. The ● (*★ movie-record) button can also be used to switch to shooting mode.	30

Auto Sort Menu

Press the **MENU** button in full-frame playback mode or thumbnail playback mode in auto sort mode to operate the following menus.

Quick retouch	→ 🕮 132	D-Lighting	→ДД 133
Skin softening	→ 🔲 134	Filter effects	→ 🕮 135
Frame	→ 🕮 137	Print order	→ 🕮 117
Slide show	→ 🕮 121	Protect	→ 🕮 122
Rotate image	→ 🔲 124	Small picture	→ДД 138
Voice memo	→□ 125	Sequence Display Options	→ 🔲 129
Choose Key Picture	→ 🔲 129	Favorite pictures	→ 🕮 101

Viewing Images by Date (List by Date)

In "a list by date mode", only images captured on the same date can be played back.

- In full-frame playback mode, just as with normal playback mode, shooting
 information can be displayed, image display can be enlarged, images can be
 edited, and movies can be played back. Images can be also sorted into albums.
- When the MENU button is pressed, the list by date menu (114) is displayed, and all images captured on the same date can be selected for viewing in a slide show, or applying print order or protection settings.

Viewing Images in List by Date Mode

Press the MENU button during playback, choose the MODE (playback mode) tab, and then press ▶ or the ௵ button (☐ 99).

The playback-mode selection menu is displayed.





2 Use the rotary multi selector to choose **(26)**, and press the **(8)** button.

The list by date screen is displayed.



3 Use the rotary multi selector to choose a date.

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

For information about operating the list by date screen, see "Operations in List by Date Mode" (114).

When the **®** button is pressed, the first image captured on the selected date will be displayed full frame.

Repeat steps 1 and 2 to select a different shooting date.





Notes on List by Date Mode

- The 9,000 most recent images can be displayed in list by date mode. If more than 9,000 images are saved, "*" is displayed for the date containing the 9,001st image.
- Images captured when the camera's date is not set are treated as images captured on January 1, 2012.

Operations in List by Date Mode

The following operations are available in the list by date screen (\square 113 step 3).

		· · · · · · · · · · · · · · · · · · ·	
Function	Control	Description	
Select date	(OK)	Rotate the rotary multi selector, or press $lacktriangle$ or $lacktriangle$.	11
Switch to full-frame playback mode	®	Display images captured on the selected date in full-frame playback mode.	89
Delete images	ú	Delete all images captured on the selected date. Choose Yes when the confirmation dialog is displayed.	31
View list by date menu	MENU	Press the MENU button to display the list by date menu.	-
	▶		
Switch to shooting mode	•	Press the button or shutter-release button. The movie-record) button can also be used to switch to shooting mode.	30

List by Date Menu

Press the **MENU** button in list by date mode to apply one of the following menu operations to images captured on the selected date.

and the transpes cap	oranea on the ser	ceted date.	
Quick retouch ¹	→ 🛄 132	D-Lighting ¹	→ 🔲 133
Skin softening ¹	→ 🔲 134	Filter effects ¹	→ 🔲 135
Frame ¹	→ 🔲 137	Print order ²	→ 🕮 117
Slide show	→ 🛄 121	Protect ²	→ 🔲 122
Rotate image ¹	→ 🔲 124	Small picture ¹	→ 🔲 138
Voice memo ¹	→□ 125	Sequence Display Options	→ 🔲 129
Choose Key Picture	→□ 129	Favorite pictures ¹	→ 🔲 101

After displaying the image in full-frame playback mode, press the **MENU** button.

When the MENU button is pressed in the list by date screen (113 step 3), options can be applied to all images captured on the selected date. When the MENU button is pressed in full-frame playback mode, options can be applied to individual images.

Playback Options: Playback Menu

the key picture of a sequence.

The following options are available in the playback menu.

	3 1	
迷	Quick retouch	1 32
	Easily create retouched copies in which contrast and saturation have been e	nhanced.
	D-Lighting	133
	Enhance brightness and contrast in dark portions of images.	
歐	Skin softening	134
	Make facial skin tones softer.	
	Filter effects	135
	Filter effects (digital filter) can be used to apply a variety of effects to images	
	Frame	137
	Create a copy of an image that is surrounded by a frame. 11 different frames available.	are
4	Print order	117
	Select images to print and the number of copies for each.	
	Slide show	121
	View images saved in the internal memory or on a memory card in an auton show. $ \\$	natic slide
Оп	Protect	122
	Protect selected images from accidental deletion.	
鱼	Rotate image	124
	Change the orientation of images.	
	Small picture	138
	Create a small copy of the current image.	
₫	Voice memo	125
	Record voice memos for images.	
H	Сору	127
	Copy files between the internal memory and a memory card.	
	Sequence display options	129
	Display a sequence of images shot continuously as individual images, or dis	play only

Playback Options: Playback Menu

Choose key picture

Change the key picture that is displayed to represent a series of images shot continuously (sequence → □ 92).

Favorite pictures

Select and add images as favorites.

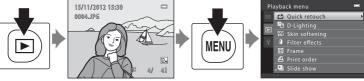
Remove from favorites

Remove an image from an album.

Displaying the Playback Menu

Press the **b** button to enter playback mode (89).

Press the MENU button to display the playback menu.



- Use the rotary multi selector to choose and apply settings (11).
- Press the **MENU** button to exit the playback menu.
- Select the **MODE** (playback mode) tab to switch the playback mode (QQ 99).

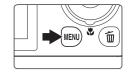
A Print Order (Creating a DPOF Print Order)

▶ button (Playback mode) → MENU (Playback menu) → 🗗 Print order

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

- Inserting the memory card into a DPOF-compatible (QQ 213) printer's card slot
- Taking the memory card to a digital photo lab.
- Connecting the camera to a PictBridge-compatible (213) printer (161). A
 print order can also be created for images saved 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.

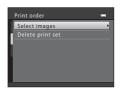


2 Use the rotary multi selector to choose **Print order** and press the ® button.

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



3 Choose **Select images** and press the ® button.



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

Rotate the rotary multi selector, or press \blacktriangleleft or \blacktriangleright to select images, and press \blacktriangle or \blacktriangledown to specify the number of copies to be printed.

Image selected for printing can be identified by the check mark (\mathscr{S}) and the numeral indicating the number of

copies to be printed. If no copies have been specified for images, the selection is canceled

Rotate the zoom control to $\mathbf{T}(\mathbf{Q})$ to switch to full-frame playback. Rotate the zoom control to $\mathbf{W}(\mathbf{E})$ to switch back to 12-thumbnail display.

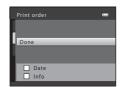
Press the **®** button when setting is complete.

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

Choose **Date** and press the **®** button to print the shooting date on all images.

Choose **Info** and press the **(M)** button to print shooting information (shutter speed and aperture) on all images.

Choose **Done** and press the **®** button to apply the settings.



Images selected for printing can be identified by the licon displayed with playback.



Notes on Print Order

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

- If Yes is selected, the current print order settings are added to the print order settings of other images.
- If No is selected, all print order settings of other images are removed and only the current print order settings remain.



Favorite pictures mode or auto sort mode



List by date mode

Additionally, if there are more than 99 images as a result of adding the current print order settings, the screen shown below will be displayed.

- If Yes is selected, all print order settings of other images are removed and only the current print order settings remain.
- If Cancel is selected, the print order settings of other images remain and the current print order settings are removed.



Favorite pictures mode or auto sort mode



List by date mode

Notes on Printing Shooting Date and Shooting Information

When the **Date** and **Info** settings are enabled in the print order option, shooting date and shooting data are printed on images when a DPOF-compatible (\square 213) printer that supports printing of shooting date and shooting data is used.

- Shooting information cannot be printed when the camera is connected directly to a printer, via the supplied USB cable, for DPOF printing (\(\sigma\) 166).
- Note that **Date** and **Info** settings are reset each time the **Print order** option is displayed.
- The date printed is that saved when the image was captured.
 Changing the camera's date using the **Date and time** or **Time zone** in the **Time zone and date** option in the setup menu after an image has been captured has no effect on the date printed on the image.



Canceling Existing Print Order

Select **Delete print set** in step 3 of " Print Order (Creating a DPOF Print Order)" (117) and press the button to remove print marking from all images and cancel the print order.

Print Date

When shooting date and time are imprinted on images using the **Print date** option (174) in setup menu, images are saved with shooting date and time imprinted on the image when they are captured. Images with the date imprinted on them can be printed from printers that do not support printing of the date on images.

If the **Print date** option is used to imprint the shooting date on images, the **Date** selection option of the **Print order** function has no effect

□ Slide Show

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

Play back images, saved 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 **(B)** button.

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

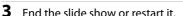
To repeat the slide show automatically, choose **Loop** and press the **®** button before choosing **Start**. The check mark (**>**) will be added to the loop option when enabled.



2 The slide show begins.

While the slide show is in progress, press the rotary multi selector ▶ to display the next image or ◀ to display the previous image. Hold down either button to fast forward or rewind.

To end or pause the slide show, press the ® button.



The screen shown on the right is displayed when the slide show has ended or is paused. Choose **End** and press the **3** button to return to the playback menu. Choose **Restart** to play the slide show again.





Notes on Slide Show

- Only the first frame of movies is displayed.
- For sequences (
 Q2) whose sequence display options are set to Key picture only, only the key
 picture is displayed.
- Images captured using easy panorama (QQ 73, 75) cannot be played in a slide show.
- The maximum playback time is up to 30 minutes even if **Loop** is enabled (QQ 181).

On Protect

▶ button (Playback mode) → **MENU** (Playback menu) → **○**¬ Protect

Protect selected images from accidental deletion.

Select images to protect or cancel protection for previously protected images from the image selection screen. See "Selecting Images" (123) for more information.

Note that formatting the camera's internal memory or the memory card will permanently delete protected images (182).

Protected images can be identified by the @ icon in playback mode (QQ 8, 95).

Protect

Selecting Images

When using one of the following features, a screen like that shown on the right is displayed when selecting images.

- Print order > Select images (117)
- Protect (122)
- Rotate image (124)
- Copy > Selected images (◯ 127)
- Choose key picture (QQ 129)
- Favorite pictures (101)
- Remove from favorites (104)
- Welcome screen > **Select an image** (169)
- Delete image > Erase selected images (□ 31)

Follow the procedures described below to choose the images.

Rotate the rotary multi selector, or press ◀ or
 to choose the desired image.

Rotate the zoom control (\square 4) to **T** (\mathbb{Q}) to switch to full-frame playback or **W** (\square) to switch back to 12-thumbnail display.

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



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

When an image is selected, a check mark (❤) is displayed with the image. Repeat steps 1 and 2 to select additional images.



3 Press the **6** button to apply image selection.

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

4 Rotate Image

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

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

Select an image from the image selection screen (QQ 123). When the Rotate image screen is displayed, rotate the rotary multi selector or press ◀ or ▶ to rotate the image 90 degrees.



counterclockwise











Rotate 90 degrees clockwise

Press the 60 button to finalize display orientation, and save orientation information with the image.

Rotating Images in a Sequence

Voice Memo

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

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

Recording Voice Memos

1 Choose an image in full-frame playback mode (☐ 89) or thumbnail playback mode (☐ 94) and press the MENU button.

The playback menu is displayed.



2 Use the rotary multi selector to choose • Voice memo and press the ® button.

The screen for recording voice memos is displayed.



3 Press and hold the ® button to record a voice memo.

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

Do not touch the 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" (126) to play the voice memo.

Press the rotary multi selector ◀ before or after recording a voice memo to return to the playback menu. Press the **MENU** button to exit the playback menu.







More Information

Playing Voice Memos

Images for which voice memos have been recorded are indicated by $\[\]$ in full-frame playback mode.

1 Choose an image in full-frame playback mode (☐ 89) or thumbnail playback mode (☐ 94) and press the MENU button.

The playback menu is displayed.





2 Use the rotary multi selector to choose • Voice memo and press the ® button.

The voice memo playback screen is displayed.



3 Press the **®** button to play the voice memo.

Press the 🚯 button again to stop playback.

Rotate the zoom control to ${\bf T}$ or ${\bf W}$ during playback to adjust playback volume.

Press the rotary multi selector ◀ before or after playing a voice memo to return to the playback menu. Press the **MENU** button to exit the playback menu.



Deleting Voice Memos

Select an image with a voice memo and press the $\widehat{\mathbf{m}}$ button. Rotate the rotary multi selector or press \mathbf{A} or \mathbf{V} to choose **Current image**, and press the \mathbf{W} button ($\mathbf{\square}$ 31). When the confirmation dialog is displayed, press the rotary multi selector \mathbf{A} or \mathbf{V} to choose \mathbf{M} and press the \mathbf{W} button. Only the voice memo will be deleted.



Notes on Voice Memos

- When an image with a voice memo attached is deleted, both the image and its voice memo are deleted.
- Voice memos cannot be recorded for an image that already has a voice memo attached on it. The
 current voice memo must be deleted before a new voice memo can be recorded.
- The COOLPIX S9050 is not able to record a voice memo for images captured with another make or model of digital camera.

☐ Copy (Copy Between Internal Memory and Memory Card)

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

Copy images between the internal memory and a memory card.

- Use the rotary multi selector to choose a destination option to which images are copied and press the button.
 - • 🗅: Copy images from internal memory to memory card
 - ☐ → ■: Copy images from memory card to internal memory.



2 Select a copy option and press the ® button.

Selected images: Copy images selected from the image selection screen (123). If a sequence for which only a key picture is displayed is selected (92), all images in the displayed sequence are copied.



All images: Copy all images. If an image in a sequence is selected, this option is not displayed.

Current sequence: This option is available only if an image that is in a sequence group was selected before the playback menu was displayed. All images in the current sequence are copied.

Notes on Copying Images

- JPEG-, MOV-, and WAV-format files can be copied. Files saved in any other format cannot be copied.
- Operation is not guaranteed with images captured with another make of camera or that have been modified on a computer.
- When copying images for which **Print order** (117) options are enabled, the print order settings are not copied. However, when copying images for which **Protect** (122) is enabled, the protect setting is copied.
- Images or movies copied from the internal memory or a memory card cannot be displayed in auto sort mode (\(\superscript{\subscript{\sinscript{\subscript{\subscript{\subscript{\subscript{\subscript{\subscript{\subscript{\subscript{\subscript{\subscript{\subscript
- Even if images added to an album (101) are copied, the contents of the album will not be copied.

Memory contains no images. Message

If there are no images saved 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 images saved in the camera's internal memory to the memory card.



More Information

See "File and Folder Names" (197) for more information.

☐ Sequence Display Options

▶ button (Playback mode) → MENU (Playback menu) → 및 Sequence display options

Choose the method used to display a series of images shot continuously (sequence $\rightarrow \square$ 92) when viewing them in full-frame playback mode (\square 89) and in thumbnail playback mode (\square 94).

Settings are applied to all sequences, and the setting is saved in the camera's memory even if the camera is turned off.

Individual pictures

Set all images in all sequences to be displayed individually.

Key picture only (default setting)

Set all sequences to be displayed using their key pictures only.

Choose Key Picture

lacktriangle button (Playback mode) ightharpoonup MENU (Playback menu) ightharpoonup Choose key picture

When **Sequence display options** is set to **Key picture only**, the key picture displayed in full-frame playback mode (\square 89) and thumbnail playback mode (\square 94) can be set for each sequence of images.

- When changing this setting, before pressing MENU, first select the desired sequence using full-frame playback mode and thumbnail playback mode.

Editing Functions

Use the COOLPIX S9050 to edit images in-camera and save them as separate files $(\square 197)$. The editing functions described below are available.

Editing function	Description
Quick retouch (132)	Easily create retouched copies in which contrast and saturation have been enhanced.
D-Lighting (QQ 133)	Create a copy of the current image with enhanced brightness and contrast, brightening dark portions of the image.
Skin softening (134)	Make facial skin tones softer.
Filter effects (135)	Filter effects (digital filter) can be used to apply a variety of effects to images. Effect types include Soft , Selective color , Cross screen , Fisheye , and Miniature effect .
Frame (QQ 137)	Create a copy of an image that is surrounded by a frame. 11 different frames are available.
Small picture (138)	Create a small copy of images suitable for use as e-mail attachments.
Crop (QQ 139)	Crop a portion of the image. Use to zoom in on a subject or arrange a composition.

Notes on Image Editing

- Images captured using easy panorama (\square 73, 75) cannot be edited.
- The editing functions of the COOLPIX S9050 cannot be used for images captured with another make or model of digital cameras.
- If no face is detected in an image, a copy cannot be created using the skin softening function (134).
- Images captured at an **Image mode** (47) setting of **1024×768** or **1040×480** cannot be edited using **Frame** (137).
- Edited copies created with the COOLPIX S9050 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.
- For sequences for which only a key picture is displayed (\$\sum_{\pi}\$ 92), perform one of the following
 operations before editing.
 - Press **®** button to display individual images, and then select an image in the sequence
 - Set Sequence display options (129) to Individual pictures so that each image is displayed individually, and then select an image

Restrictions on Image Editing

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

Editing function used	Editing function to add
Quick retouch D-Lighting Filter effects	The skin softening, small picture, frame, or crop function can be added. The quick retouch, D-Lighting, and filter effects functions cannot be used together.
Skin softening	The quick retouch, D-Lighting, filter effects, frame, small picture, or crop function can be added.
Frame Small picture	Another editing function cannot be added.
Crop	Images with an image size of 🌆 (2272 × 1704) or higher can be edited using the frame editing function.

- Copies created with editing functions cannot be further edited with the same function used to create them.
- When combining the frame or small picture function and another editing function, use the frame or small picture function after other editing functions have been applied.
- When combining the crop function with any editing function other than frame, use the crop function after other editing functions have been applied.
- Skin softening can also be applied to images captured with the skin softening function (QQ 67).

Original and Edited Images

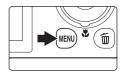
- Copies created with editing functions are not deleted if the original images are deleted. The
 original images are not deleted if copies created with editing functions are deleted.
- Edited copies are saved with the same shooting date and time as the original.
- Print order (117) and protect settings (122) do not remain effective in edited copies.

Image Editing

□ Quick Retouch: Enhancing Contrast and Saturation

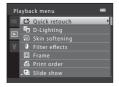
Quick retouch can be used to easily create retouched copies in which contrast and saturation have been enhanced. Copies created with the quick retouch function are saved as separate files.

1 Choose the desired image in full-frame playback mode (89) or thumbnail playback mode (94) and press the MENU button.



The playback menu is displayed.

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 ® 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 identified by the discondisplayed in playback mode.





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 an image. Enhanced copies are saved as separate files

1 Choose the desired image in full-frame playback mode (89) or thumbnail playback mode (94) and press the MENU button.

MENU & Ó

The playback menu is displayed.

2 Use the rotary multi selector to choose □ D-Lighting and press the ௵ button.

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



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

A new, edited copy is created.

To exit without saving the copy, choose ${\bf Cancel}$ and press the ${\bf \textcircled{M}}$ button.



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

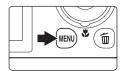


Skin Softening: Softening Skin Tones

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

1 Choose the desired image in full-frame playback mode (89) or thumbnail playback mode (94) and press the MENU button.

The playback menu is displayed.



2 Use the rotary multi selector to choose Skin softening and press the 8 button.

The screen for selecting the degree of softening is displayed.

If no faces are detected in the image, 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 w button.

The confirmation dialog 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.

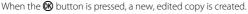


4 Check the preview of the copy.

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 \blacktriangleleft or \blacktriangleright 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.



Copies created with the skin softening function can be recognized by the \boxtimes 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.



Filter Effects (Digital Filter)

Filter effects (digital filter) can be used to apply a variety of effects to images. The following effects are available. Copies created with the filter effects function are saved as separate files.

Type	Description	
Soft	Soften the image by adding a slight blur around the center of the image. In images captured with face priority (56) or pet detection (74) selected, areas around faces will be blurred.	
Selective color	Keep one specified color in the image, and change the other colors to black and white.	
Cross screen	Produce star-like rays of light that radiate outward from bright objects such as sunlight reflections or city lights. This effect is suitable for night scenes.	
Fisheye	Make an image look as if it were captured with a fisheye lens. This effect is well-suited for images captured in macro mode.	
Miniature effect	Make an image look like a miniature scene captured in macro mode. This effect is well-suited for images captured from a high vantage point with the main subject at the center of the image.	

1 Choose an image in full-frame playback mode (☐ 89) or thumbnail playback mode (☐ 94) and press the MENU button.

The playback menu is displayed.



2 Use the rotary multi selector to choose **3** Filter effects and press the **6** button.

The screen for selecting the desired filter effect is displayed.



3 Press the rotary multi selector ▲ or ▼ to choose an effect, and press the ® button.

Change the setting and press the **MENU** button.

When Cross screen, Fisheye, or Miniature effect is selected \rightarrow step 5



Adjust the effect.

Soft: Press ▲ or ▼ to choose the range of the effect and press the **6**8 button.



Selective color: The slider is displayed. Rotate the rotary multi selector or press ▲ or ▼ to select the color to be retained, and press the **®** button.



Slider

Confirm the effect, choose **Save**, and press the (%) button.

A new, edited copy is created.

To exit without saving the copy, choose Cancel and press the **(N)** button.

Copies created using the filter effects function can be identified by the (1) icon displayed in playback mode.





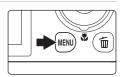


More Information

☐ Frame (Adding Frames to Images)

A frame can be added to the outside of an image. There are four frames for horizontal images, three frames for vertical images, and four frames that can be used for both horizontal and vertical images. Copies created with this function are saved as separate files. Copies are saved at an image size of 3 (2048 × 1536).

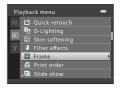
1 Choose the desired image in full-frame playback mode (☐ 89) or thumbnail playback mode (☐ 94) and press the MENU button.



The playback menu is displayed.

2 Use the rotary multi selector to choose ☐ Frame and press the ௵ button.

The screen for selecting the desired frame is displayed.



A new image with the effect applied is created.

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





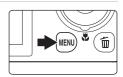
When a framed image is printed using borderless printing, the frame may not be printed in some situations.



Small Picture: Decreasing Image Size

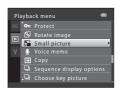
Create a small copy of the current image. This feature is useful for creating copies for display on Web pages or e-mail attachments. The **40×480**, **320×240**, and 160×120 sizes are available. Small copies are saved as separate files with a compression ratio of 1:16.

1 Choose the desired image in full-frame playback mode (QQ 89) or thumbnail playback mode (94) and press the MENU button.



The playback menu is displayed.

2 Use the rotary multi selector to choose 🖺 **Small picture** and press the (9) button.



Choose the desired copy size and press the (9) button.



4 Choose **Yes** and press the **®** button.

A new, small copy is created.

To exit without saving the copy, choose **No** and press the (K) button.

The copy is displayed with a black frame.





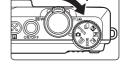
More Information

Create a copy containing only the portion visible in the monitor when \mathbb{MEND} is displayed with playback zoom (\mathbb{Q} 97) enabled. Cropped copies are saved as separate files.

1 Rotate the zoom control to $\mathbf{T}(9)$ in full-frame playback mode (\square 89) to zoom in on the image.

To crop an image displayed in "tall" (portrait) orientation, zoom in on the image until the black bars displayed on the both sides of the monitor disappear. The cropped image will be displayed in landscape orientation.

To crop the image in its current "tall" (portrait) orientation.



first use the **Rotate image** option (124) to rotate the image so that it is displayed in landscape orientation. Next, enlarge the image for cropping, crop the image, and then rotate the cropped image back to "tall" (portrait) orientation.

2 Refine copy composition.

Rotate the zoom control to $\mathbf{T}(Q)$ or $\mathbf{W}(\blacksquare)$ to adjust the zoom ratio.

Press the rotary multi selector \triangle , ∇ , \triangleleft , or \triangleright to scroll the image 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 ® button.

A cropped copy is created.

To exit without saving the copy, choose \mathbf{No} and press the $\mathbf{\mathfrak{M}}$ 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 black frame is displayed around the image, and the small picture icon \square or \square is displayed in the left of the monitor in playback mode.

More Information

Recording Movies

Movies with sound can be recorded.

- Each movie is limited to a file size of 4 GB and a movie length of 29 minutes, even when there is sufficient free space on the memory card for longer recording (\impreceq 149).
- The angle of view (i.e., the area visible in the frame) for movies is narrower compared to that of still images.

If **Monitor settings** (172) in the setup menu is set to **Movie frame+auto info**, the area that will be visible in the movie can be confirmed before movie recording starts.

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

Movies can be recorded in any shooting mode (\square 45). The icon for the selected movie option is displayed. The default setting is \square HD 1080p \bigstar (1920×1080) (\square 148).



Movie option

2 Press the ● (*★ movie-record) button to start movie recording.

Movie recording begins after the monitor briefly turns off.

The camera focuses at the center of the frame. Focus areas are not displayed during recording.

When recording movies using to a movie options setting with a 16:9 aspect ratio, the shooting screen changes to a 16:9 aspect ratio (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.



If the shutter-release button is pressed all the way while recording, one frame is saved as a still image (\(\simeq\) 142).

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

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 or the battery while a movie is being saved may result in loss of the movie data or damage to the camera or to the memory card.

Notes on Recording Movies

- Memory cards with an SD Speed Class rating of 6 or faster are recommended when recording
 movies (QQ 196). Movie recording may stop unexpectedly when memory cards with a lower
 Speed Class ratings are used.
- There may be some degradation in image quality when digital zoom is used. If the digital zoom is not being used when movie recording begins, rotating and holding the zoom control at **T** zooms the image using optical zoom and the zoom stops at the maximum optical zoom ratio. After letting go of the zoom control, rotate the zoom control to **T** again to magnify the image using the digital zoom.
- When recording ends, digital zoom turns off.
- The sounds of zoom control operation, zoom, autofocus lens drive movement, and aperture operation when brightness changes may be recorded.
- The following phenomena may be seen in the monitor while recording movies. These phenomena are saved in the recorded movies.
 - Banding may occur in images under fluorescent, mercury-vapor, or sodium-vapor lighting
 - Subjects that move quickly from one side of the frame to the other, such as a moving train or car, may appear skewed
 - The entire movie image may be skewed when the camera is panned.
 - Lighting or other bright areas may leave residual images when the camera is moved

Notes on Autofocus

- 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 (□ 150).
- Autofocus may not perform as expected (QQ 29). Should this occur, try the following:
 - Set Autofocus mode in the movie menu to Single AF (default setting) before starting movie recording.
 - 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.

Camera Temperature

The camera may become warm when shooting movies for an extended period of time or when the camera is used in a hot area; this is not a malfunction.

Functions Available with Movie Recording

- The creative slider, white balance (when using a (auto) mode, continuous shooting mode), or exposure
 compensation settings are also applied when recording movies. The tone that results from using special
 effects mode (□ 85) or scene mode (□ 64) is also applied to movies. When macro mode is enabled,
 movies of subjects closer to the camera can be recorded. Confirm settings before starting movie recording.
- The self-timer (□ 35) can be used. If the self-timer is set and the (*▼ movie-record) button is pressed, the camera focuses and starts movie recording after ten or two seconds.
- . The flash will not fire.
- Press the MENU button to select the \(\mathbb{R} \) (movie) tab and adjust movie menu settings before starting
 movie recording (\(\superstart{\superstart} \) 146).

Capturing Still Images While Recording Movies

If the shutter-release button is pressed all the way while recording a movie, one frame is saved as a still image. Movie recording continues while the still image is being saved.



- A still image can be saved when is displayed at the top left of the monitor.
- ② is not displayed while saving still images. Another still image cannot be saved until ② is displayed again.
- The image size of the saved still image depends on the Movie options (\(\sum_148\)) settings. The compression ratio is approximately 1:8.

Movie options	Size of still image
1880前 HD 1080p★ (1920×1080)/ 1880前 HD 1080p (1920×1080)	[2] (1920 × 1080)
720m HD 720p (1280×720)	(1280 × 720)
<u>VGA</u> (640×480)	IGA (640 × 480)

Notes on Saving Still Images During Movie Recording

- When the remaining movie length is less than 30 seconds, still images cannot be saved.
- When recording an HS movie (143), still images cannot be saved.
- The sound of the shutter-release button being pressed may be heard in the recorded movie.
- If the camera moves when the shutter-release button is pressed, the image may be blurred.

File Names of Saved Still Images

The file numbers assigned to captured still images ascend in order, starting with the file number of the movie being recorded +1.

More Information

See "File and Folder Names" (QQ 197) for more information.

Recording Movies in Slow Motion and Fast Motion (HS Movie)

HS (high speed) movies can be recorded. The portions of the movie recorded using HS movie can be played back in slow motion at 1/8 or 1/2 of normal playback speed, or played back in fast motion at a speed two times faster than normal speed. While recording movies, the camera can be switched from normal speed movie recording to slow motion or fast motion movie recording.

- HS movies → 145
- Display the movie menu (☐ 146), use the rotary multi selector to choose Movie options, and then press the button.

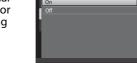


2 Confirm or change HS movie settings, and then press the ® button.

Movie Options → 🕮 148



3 Select Open with HS footage and press ® to choose whether the camera records normal speed movies or HS movies (slow motion or fast motion movies) when movie recording starts.



Open with HS footage

On (default setting): HS movies are recorded when recording begins.

Off: Normal speed movies are recorded when recording begins. Press the **®** button to switch to HS movie recording at the point where the camera should record for slow motion or fast motion playback.

Press the **MENU** button after changing the settings and return to the shooting screen.

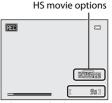
4 Press the ● (*★ movie-record) button to start recording.

Movie recording begins after the monitor briefly turns off. The camera focuses at the center of the frame. Focus areas are not displayed during recording.

When the **Open with HS footage** checkbox in the movie menu is turned on, HS movies are recorded when recording begins.

When the **Open with HS footage** checkbox in the movie menu is turned off, normal speed movies are recorded when recording begins. Press the **1** button to switch to HS movie recording at the point where the camera should record for slow motion or fast motion playback.

If the maximum movie length for HS movies (148) is exceeded, or if the whiten is pressed, the camera switches to normal speed movie recording. The camera switches between normal speed movie recording and HS movie recording each time the whiten is pressed.



When recording HS movies



When recording normal speed movies

When recording HS movies, the maximum movie length display changes and displays the remaining movie length for HS movie recording.

The HS movie options that are displayed change depending on the type of movie being recorded

5 Press the ● (*★ movie-record) button to end recording.

Notes on HS Movie

- Portions recorded for slow motion or fast motion playback are not recorded with sound.
- When recording HS movies, vibration reduction cannot be used. Zoom position, focus, exposure, and white balance are locked when the ● (*▼ movie-record) button is pressed to start recording.

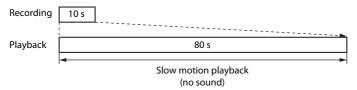
HS Movie

Recorded movies are played back at about 30 frames per second, including portions recorded using HS movie.

When Movie options (148) is set to HS 240 fps (320×240), HS 120 fps (640×480), or HS 60 fps (1280×720), movies that can be played back in slow motion can be recorded. When set to HS 15 fps (1920×1080), movies that can be played back in fast motion at a speed two times faster than normal speed can be recorded.

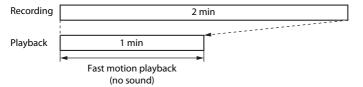
Portions recorded at HS 240 fps (320 \times 240):

High-speed capturing is possible for up to ten seconds. Portions captured at high speed are played back in slow motion at a speed eight times slower than normal speed.



Portions recorded at HS 15 fps (1920 × 1080):

A movie of up to two minutes in length is recorded when shooting for the purpose of high-speed playback. Playback is two times faster.



Returning from HS Movie Setting to Normal Speed Movie Setting

In **Movie options** in the movie menu, select the normal speed movie type and press the **®** button (\square 140, 148).

Changing Movie Recording Settings

The following options can be adjusted from the movie menu.

Movie options

<u>148</u>

Select the desired movie option to record. The camera can record normal speed movies and high speed (HS) movies, which can be played back in slow motion or fast motion.

Open with HS footage

143, 150

When the camera is configured in the **Movie options** screen to record HS movies (slow motion or fast motion movies), select whether the camera records normal speed movies or HS movies when movie recording starts.

Autofocus mode

150

Select how the camera focuses during movie recording.

Electronic VR

When the camera is configured in the **Movie options** screen to record normal speed movies, select whether the camera uses electronic vibration reduction.

Wind noise reduction

151

Set whether or not to reduce wind noise during movie recording.

Displaying the Movie Menu

Press the MENU button in shooting mode.

The menu is displayed.

If the **MENU** button was pressed in $\overline{\mathbb{M}}$ (scene auto selector), press the rotary multi selector (\square 11) \triangleleft to display the tabs.





2 Press the rotary multi selector **◄**.

Tab selection is activated.



3 Press **△** or **▼** to choose the **¬** tab.



4 Press ▶ or the **®** button.

The movie menu items can be selected.

Use the rotary multi selector to choose and apply settings $(\square 11)$.

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



Movie Options

Switch to shooting mode \rightarrow MENU \rightarrow \P (Movie) (□ 146) \rightarrow Movie options

Select the options for recording movies.

Larger image sizes and faster movie bitrates mean greater image quality and larger movie file sizes.

- When recording normal speed movies, 爾 HD 1080p ★ (1920×1080), 爾 HD 1080p (1920×1080), 爾 HD 720p (1280×720), and 爾 VGA (640×480) are available.
- When recording HS movies, 如如如 HS 240 fps (320×240), 如何 HS 120 fps (640×480), 可可 HS 60 fps (1280×720), and 可可 HS 15 fps (1920×1080) are available.

are available.			
Type	Description		
1000∰ HD 1080p ★ (1920×1080) (default setting)	Movies with an aspect ratio of 16:9 are recorded. Image size: 1920 × 1080 pixels Movie bitrate: 14 Mbps		
1080g HD 1080p (1920×1080)	 Movies with an aspect ratio of 16:9 are recorded. Image size: 1920 × 1080 pixels Movie bitrate: 12 Mbps 		
720gg HD 720p (1280×720)	Movies with an aspect ratio of 16:9 are recorded. Image size: 1280 × 720 pixels Movie bitrate: 9 Mbps		
Movies with an aspect ratio of 4:3 are recorded. • Image size: 640 × 480 pixels • Movie bitrate: 3 Mbps			
1/8-speed slow motion movies with a 4:3 aspect ratio are record • Max. recording time*: 10 seconds (playback time: 80 seconds) • Image size: 320 × 240 pixels • Movie bitrate: 640 kbps			
1/4-speed slow motion movies with a 4:3 aspect ratio are rec • Max. recording time*: 10 seconds (playback time: 40 seconds) lmage size: 640 × 480 pixels • Movie bitrate: 3 Mbps			
720 <mark>m</mark> HS 60 fps (1280×720)	1/2-speed slow motion movies with a 16:9 aspect ratio are recorded. • Max. recording time*: 30 seconds (playback time: 1 minute) • Image size: 1280 × 720 pixels • Movie bitrate: 9 Mbps		

Туре	Description		
1080 <mark>词</mark> HS 15 fps (1920×1080)	2× speed fast motion movies with a 16:9 aspect ratio are recorded. • Max. recording time*: 2 minutes (playback time: 1 minute) • Image size: 1920 × 1080 pixels • Movie bitrate: 12 Mbps		

- * The maximum recording time shown here refers only to the portion of the movie that is recorded in slow motion or fast motion.
- The movie bitrate is the volume of movie data recorded per second. Variable bitrate (VBR) encoding is used to automatically adjust the bitrate depending on the subject being recorded. When recording movies of subject with large amounts of motion, the file size increases.
- The frame rate is approximately 30 frames per second in any options.

Maximum Movie Length

Туре	Memory card (4 GB)*
1080p★ (1920×1080) (default setting)	35 min
1080gn HD 1080p (1920×1080)	40 min
720m HD 720p (1280×720)	55 min
<u>VGA</u> (640×480)	2 h 30 min

All figures are approximate. The maximum movie length may vary by make of memory card. To confirm the maximum length of a movie that can be recorded in the internal memory (approximately 74 MB), remove the memory card from the camera, and then check the maximum recording time displayed in the monitor when shooting.

* The maximum size for a single movie is 4 GB, and the maximum movie length for a single movie is 29 minutes, even when there is sufficient free space on the memory card. If the camera becomes hot, movie recording may stop before these limits are reached.



Open with HS Footage

Switch to shooting mode \rightarrow MENU \rightarrow \P (Movie) (\square 146) \rightarrow Open with HS footage

Select whether the camera records normal speed movies or HS movies (slow motion or fast motion movies) when movie recording starts.

Option	Description
On (default setting)	Record HS movies when movie recording begins.
Off	Record normal speed movies when movie recording begins. Press the button to switch to HS movie recording at the point where the camera should record for slow motion or fast motion playback.

Autofocus Mode

Switch to shooting mode \rightarrow MENU \rightarrow \P (Movie) (\square 146) \rightarrow Autofocus mode

Select the autofocus method used when recording normal speed movies.

Option	Description	
Single AF (default setting)	Focus is locked when the (**\overline{\overline{\pi}} movie-record) button is pressed to start recording. Select this option when the distance between the camera and the subject will remain fairly consistent.	
≨ Full-time AF	Camera focuses continuously. Select this option when the distance between the camera and subject will change significantly during recording. The sound of the camera focusing may be heard in the recorded movie. Use of Single AF is recommended to prevent the sound of the camera focusing from interfering with recording.	

Autofocus Mode During Movie Recording

When using the **Fireworks show** scene mode, the camera focuses at infinity.

Electronic VR

Switch to shooting mode \rightarrow MENU \rightarrow \P (Movie) (\square 146) \rightarrow Electronic VR

When the camera is configured in the **Movie options** screen to record normal speed movies, select whether the camera uses electronic vibration reduction.

Option	Description	
(On (default setting)	Reduces the effects of camera shake when recording movies.	
OFF Off	Electronic vibration reduction is disabled.	

When **Electronic VR** is set to **On**, 8 is displayed when movie recording starts $(\square 6)$.

Note on Electronic Vibration Reduction

When recording HS movies, vibration reduction cannot be used.

Wind Noise Reduction

Switch to shooting mode \rightarrow MENU \rightarrow \P (Movie) (\square 146) \rightarrow Wind noise reduction

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

Option	Description	
◎ On	Reduces the sound heard when wind passes over the microphone. Use when recording movies in locations with strong winds. Other sounds may become difficult to hear during playback.	
OFF Off (default setting)	Wind noise reduction is not enabled.	

The wind noise reduction setting can be confirmed in the monitor when shooting (\square) 6). When **Off** is selected, an icon for the current setting is not displayed.

Movie Playback

In full-frame playback mode (\$\simeq\$ 89), movies can be identified by the **Movie options** icon (\$\simeq\$ 148). To play a movie, display it in full-frame playback mode and press the \$\simeq\$ button.

Rotate the zoom control to ${\bf T}$ or ${\bf W}$ to adjust playback volume.

Rotate the rotary multi selector to advance or rewind the movie.

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





	macator		
Function	lcon	Description	
Rewind	*	Hold down the 🔞 button to rewind the movie.	
Advance	>>	Hold down the 🔞 button to advance the movie.	
		Press the button to pause playback. The following operations can be performed while playback is paused using the controls displayed at the top in the monitor.	
	_	4 1	Press the ® button to rewind the movie. Hold down the ® button for continuous rewinding.*
Pause		₽	Press the 🔞 button to advance the movie. Hold down the 🔞 button for continuous advancing.*
			Press the 📵 button to resume playback.
		×	Press the ® button to cut unwanted portions of a movie so that only the desired portions of a movie are saved (153).
End		Press the 🔞 button to return to full-frame playback mode.	

^{*} The movie can also be advanced or rewound by rotating the rotary multi selector.

▼ Playing Back Movies

The COOLPIX S9050 is not able to playback movies recorded with another make or model of digital camera.

Deleting Movies

Select a movie and press the **t** button in full-frame playback mode (89) or thumbnail playback mode (94). A confirmation dialog is displayed. See "Deleting Unwanted Images" (31) for more information.



Editing Movies

The desired portions of a recorded movie can be saved as a separate file.

- **1** Play back the desired movie and pause playback (\square 152).
- 2 Press the rotary multi selector ◀ or ▶ to choose the ☒ control, and then press the ☒ button.

The movie edit screen is displayed.



3 Press ▲ or ▼ to choose the ﷺ control (choose start point).

When editing begins, the frame where playback was paused is the start point.

Rotate the rotary multi selector or press \triangleleft or \triangleright to move the start point to the beginning of the desired portion of the movie.

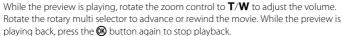


To cancel editing, press \triangle or ∇ to choose \bigcirc (return), and press the \bigcirc button.

4 Press **△** or **▼** to choose **⊸** (choose end point).

Rotate the rotary multi selector or press \blacktriangleleft or \blacktriangleright to move the end point on the right edge to the end of the desired portion of the movie.

Select \blacktriangleright (preview) and press the \circledR button to play back the specified portion of the movie that will be saved.



- 5 When the settings are finished, press ▲ or ▼ to choose 🗅 Save and press the 🕲 button.
- **6** Choose **Yes** and press the **®** button.

The edited movie is saved.

To exit without saving, select No.



Notes on Movie Editing

- A movie that was created by editing cannot be trimmed again. To trim another area of the movie, select and edit the original movie.
- Movies are trimmed in one-second intervals, therefore the actual trimmed portion of the movie
 may differ slightly from the selected start and end points. Movies cannot be trimmed so that they
 are less than 2 seconds long.
- Editing functions are not available when there is not enough free space in the internal memory or on the memory card to save the edited copies.

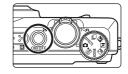
More Information

See "File and Folder Names" (197) for more information.

Connecting to a TV

Connect the camera to a television to play images or movies back on the television. *A cable for connecting to your TV is not supplied with this camera.* If your TV is equipped with an HDMI jack, a commercially available HDMI cable can be used to connect the camera to the TV.

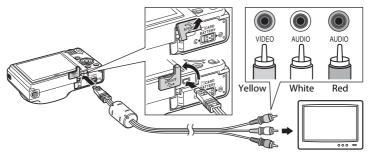
1 Turn off the camera.



2 Connect the camera to the TV.

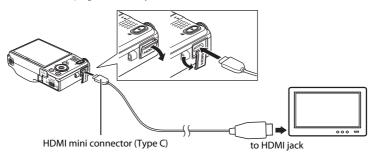
When using the optional Audio Video Cable EG-CP16

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



When using a commercially available HDMI cable

Connect the plug to the HDMI jack on the TV.



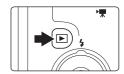
3 Tune the television to the video channel.

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 images are displayed on the television.

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



Note on Connecting the HDMI Cable

HDMI cable is not provided. Use a commercially available HDMI cable to connect the camera to a 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.

Notes on 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 cables to the HDMI mini connector (Type C) and to the USB/audio/video output connector simultaneously.

If the Images Are Not Displayed on the Television

Be sure that the camera's video mode setting in the **Set up** menu $(\square 167) \rightarrow TV$ settings $(\square 183)$ conforms to the standard used by your television.

Using a TV Remote Control (HDMI Device Control)

The remote control of an HDMI-CEC-compatible TV can be used to control playback.

It can be used instead of the camera's rotary multi selector and zoom control to select images, start and pause movie playback, scroll playback of images captured using easy panorama, and switch between full-screen playback mode and 4-image thumbnail display.

- Set the HDMI device control setting (
 (
 183) of TV settings to On (default setting) and then connect the camera and TV using an HDMI cable.
- . Aim the remote control at the TV when operating it.
- Refer to the TV's operating instructions for information about the TV's HDMI-CEC compatibility.

Using ViewNX 2

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

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



Installing ViewNX 2

• An Internet connection is required.

Compatible Operating Systems

Windows

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

Mac OS

• Mac OS X (version 10.6.8, 10.7.4)

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

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

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

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



3 Start the installer.

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

4 Download the software.

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

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

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

The following software is installed:

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

6 Remove the ViewNX 2 CD-ROM from the CD-ROM drive.

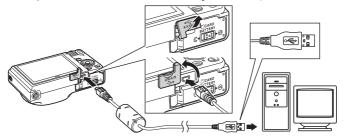
Transferring Images to the Computer

1 Choose how images will be copied to the computer.

Choose one of the following methods:

 Direct USB connection: Turn the camera off and ensure that the memory card is inserted in the camera. Connect the camera to the computer using the included USB Cable. The camera automatically turns on.

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



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

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

When using Windows 7

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

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



Copy pictures to a folder on my computer. using Nikon Transfer 2 and click OK.

2 Double-click Import File.

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

Connecting the USB Cable

2 Transfer images to the computer.

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



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

3 Terminate the connection.

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

Viewing Images

Start ViewNX 2.

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



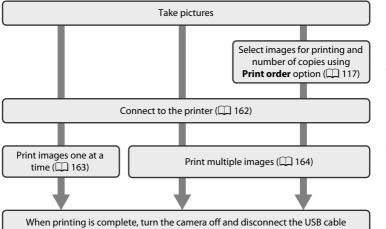
Starting ViewNX 2 Manually

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

Connecting to a Printer

Users of PictBridge-compatible (\square 213) printers can connect the camera directly to the printer and print images without using a computer.

Follow the procedures below to print images.



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 S9050 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 Images

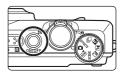
In addition to printing images transferred to a computer from your personal printer and printing over a direct camera-to-printer connection, the following options are also available for printing images saved on the memory card:

- · 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 images and the number of prints each to the memory card using the **Print order** option in the playback menu (\coprod 117).

Connecting the Camera to a Printer

1 Turn off the camera.

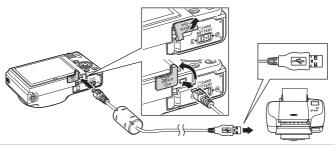


2 Turn on the printer.

Check printer settings.

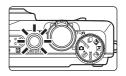
3 Connect the camera to the printer using the supplied USB cable.

Be sure that connectors are properly oriented. Do not attempt to insert connectors at an angle, and do not use force when connecting or disconnecting the USB cable.



4 The camera is automatically turned on.

When properly connected, the **PictBridge** startup screen (①) will be displayed in the camera monitor, followed by the **Print selection** screen (②).





2



If the PictBridge Startup Screen Is Not Displayed

Turn the camera off and disconnect the USB cable. Set the **Charge by computer** option (\square 184) in the camera's setup menu to **Off** and reconnect the cable.

Printing Images One at a Time

After properly connecting the camera to the printer (162), follow the procedures described below to print an image.

1 Use the rotary multi selector to choose the desired image and press the ® button.

Rotate the zoom control to \mathbf{W} (\blacksquare) to display 12 thumbnails, and \mathbf{T} (\mathbf{Q}) to switch back to full-frame playback.



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



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

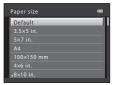


4 Choose Paper size and press the ® button.



Choose the desired paper size and press the button.

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



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



7 Printing begins.

Monitor display returns to the screen shown in step 1 when printing is complete.

To cancel printing before all copies have been printed, press the $\textcircled{\textbf{W}}$ button.



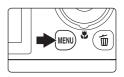
Current number of copies/ total number of copies

Printing Multiple Images

After properly connecting the camera to the printer (\square 162), follow the procedures described below to print multiple images.

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

The **Print menu** screen is displayed.



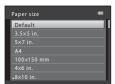
2 Use the rotary multi selector to choose **Paper size** and press the ® button.

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

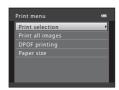


3 Choose the desired paper size and press the 60 button.

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 ® button.



Print selection

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

- Rotate the rotary multi selector, or press

 or

 to select images, and press
 or

 to specify the number of copies to be printed.
- Images selected for printing can be identified by the check mark (*) and the numeral indicating the number of copies to be printed. If no copies have been specified for images, the selection is canceled.



- Rotate the zoom control to T (Q) to switch back to full-frame playback or W
 (►) to display 12 thumbnails.
- Press the button when setting is complete.
- When the screen shown on the right is displayed, choose **Start print** and press the button to start printing.

Choose **Cancel** and press the **®** button to return to the print menu.



Print all images

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

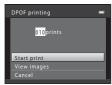
 When the screen shown on the right is displayed, choose **Start print** and press the button to start print. Choose **Cancel** and press the button to return to the print menu.



DPOF printing

Print images for which a print order was created using the **Print order** option (\square 117).

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





5 Printing begins.

Monitor display returns to the screen shown in step 2 when printing is complete.

To cancel printing before all copies have been printed, press the $\textcircled{\mathbf{B}}$ 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), **3.5×5 in.**, **5×7 in.**, **100×150 mm**, **4×6 in.**, **8×10 in.**, **Letter**, **A3**, and **A4**. Only sizes supported by the printer will be displayed.

Setup Menu

The setup menu contains the following options.

'	~ ·
Welcome screen	<u> </u>
Choose whether or not a welcome	screen is displayed when the camera is turned on.
Time zone and date	□ 170
Set camera clock and choose hom	e and destination time zones.
Monitor settings	□ 172
Adjust photo information display,	image review, and monitor brightness settings.
Print date	□ 174
Imprint shooting date and time or	images.
Vibration reduction	175
Choose whether or not vibration r	eduction is enabled.
Motion detection	177
Enable or disable motion detection and camera shake in still images.	n, which reduces the effects of subject movement
AF assist	<u> </u>
Enable or disable AF-assist illumina	ator.
Digital zoom	179
Enable or disable digital zoom.	
Sound settings	<u> </u>
Adjust sound settings.	
Auto off	<u> </u>
Set the amount of time that passe	s before the monitor turns off to save power.
Format memory/Format card	<u> </u>
Format internal memory or memo	ry card.
Language	<u></u> 183
Choose the language used for can	nera monitor display.
TV settings	<u></u> 183
Adjust settings necessary for conn	ection to television.
Charge by computer	□ 184
Choose whether or not to charge computer via the USB cable.	the camera battery when connecting to a
Blink warning	<u> </u>

Specify whether or not the camera detects human faces that have blinked with shooting using face detection.

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 auto selector), press the rotary multi selector (□ 11) **<** to display the tabs.





2 Press the rotary multi selector **◄**.

Tab selection is activated.



3 Press \triangle or ∇ to choose the \mathbf{Y} tab.



4 Press ▶ or the ® button.

The setup menu items can be selected.

Use the rotary multi selector to choose and apply settings (\bigcirc 11).

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



Welcome Screen

MENU button → Y (Setup menu) (168) → 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 an image selected for the welcome screen. When the image selection screen is displayed, select an image (\square 123) and press the \bigcirc button.

- As the selected image is saved by the camera, it will be displayed when the camera is turned on even if the original image is deleted.
- Images captured at an **Image mode** (□ 47) setting of ② 3968×2232, images captured using easy panorama, copies created at a size of 320 × 240 or smaller using the small picture (□ 138) or crop (□ 139) function, and still images captured while recording movies using □ or a movie options setting with a 16:9 aspect ratio cannot be selected.

Time Zone and Date

MENU button → Y (Setup menu) (168) → Time zone and date

Set the camera clock

Date and time

Set camera clock to current date and time.

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

- Select an item: Press ➤ or ◀ (changes between D,
 M. Y. hour. minute.
- Edit the highlighted item: Rotate the rotary multi selector or press \blacktriangle or \blacktriangledown .
- Apply the setting: Select the minute setting and press the **®** button.



Date format

The available date formats are **Year/Month/Day, Month/Day/Year**, and **Day/Month/Year**.

Time zone

♠ Home time zone can be specified and daylight saving time is enabled or disabled. When the travel destination (﴾) is selected, local time is automatically calculated and images are saved with the shooting date and time of the selected region. This can be useful when travelling.

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.



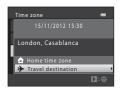
2 Choose → Travel destination and press the
⑥ button.

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 **®** button to apply the travel destination time zone

While the travel destination time zone is selected, the properties icon will be displayed in the monitor when the camera is in shooting mode.





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

Daylight Saving Time

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

Imprinting Date on Images

Enable print date from the **Print date** option (174) in the setup menu after the date and time have been set. When the **Print date** option is enabled, images will be saved with shooting date imprinted on them.

Monitor Settings

MENU button → Y (Setup menu) (□ 168) → Monitor settings

Set the options below.

Photo info

Choose information displayed in the monitor during shooting and playback mode. \rightarrow (\square 173)

Image review

On (default setting): The captured image is displayed immediately after shooting, and then the camera returns to the shooting screen.

Off: The captured image is not displayed after shooting.

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" (\square 6) for information on indicators displayed in the monitor.

	Shooting mode	Playback mode
Show info	C C C C C C C C C C C C C C C C C C C	15/11/2012 15:00 cm 0004_brg
Auto info (default setting)	The same information as in Show in performed after a few seconds, the d The information is displayed again w	isplay will be the same as Hide info .
Hide info		
Framing grid+auto info	In addition to information shown with Auto info above, a framing grid is displayed to help frame pictures. It is not displayed when recording movies.	The same information as in Auto info is displayed.
Movie frame+auto info	In addition to information shown with Auto info above, a frame is displayed before recording begins that represents the area that will be captured when recording movies. Depending on the combination of the Image mode setting for still images and the Movie options setting for movies, the size of the movie frame may vary greatly.	The same information as in Auto info is displayed.

Print Date (Imprinting Date and Time)

MENU button → Y (Setup menu) (□ 168) → Print date

The shooting date and time can be imprinted on the images with shooting, allowing the information to be printed even from printers that do not support date printing $(\square 120)$.



Date Date

Date is imprinted on images.

Date and time

Date and time are imprinted on images.

OFF Off (default setting)

Date and time are not imprinted on images.

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

Notes on Print Date

- Imprinted dates form a permanent part of image data and cannot be deleted. The date and time
 cannot be imprinted on images after they have been captured.
- The date cannot be imprinted in the following situations:
 - When using the ☑ (night landscape) (when **Hand-held** is selected), ☑ (night portrait) (when **Hand-held** is selected), ☑ (backlighting) (when **HDR** is set to **On**), **Sports**, **Museum**, **Panorama**, or **Pet portrait** (when **Continuous** is selected) scene mode
 - When using continuous shooting mode (except multi-shot 16)
 - When shooting movies
 - When the image is a still image saved during movie recording
- Dates imprinted at an Image mode setting (□ 47) of □ 640×480 may be difficult to read.
 Choose an Image mode setting of □ 1024×768 or higher when using print date.
- The date is saved using the format selected in the setup menu's **Time zone and date** option (20, 170).

Print Date and Print Order

When printing from DPOF-compatible printers that support the printing of shooting date and shooting information, the date and information can be printed without imprinting this information on them using settings in the **Print order** option (\square 117).

Vibration Reduction

MENU button → Y (Setup menu) (□ 168) → Vibration reduction

Choose a vibration reduction option for shooting still images.

Vibration reduction effectively reduces blur, caused by slight hand movement known as camera shake, which commonly occurs when shooting with the camera zoomed in or at slow shutter speeds.

Set **Vibration reduction** to **Off** when shooting still images while using a tripod to stabilize the camera

(On (hybrid)

The effects of camera shake are corrected optically using an image sensor shift method, and electronic vibration reduction is also used in the following situations to process images:

- · When the flash does not fire
- When the shutter speed is slower than 1/60 seconds
- When Self-timer is disabled
- When images are not captured continuously (i.e., when images are captured one at a time)
- When ISO sensitivity is 200 or lower

(On (default setting)

An image sensor shift method is used to reduce the effects of camera shake when capturing still images.

Camera automatically detects the panning direction and only corrects for vibration due to camera shake. When the camera is panned, for example, vibration reduction reduces only vertical shake. If the camera is tilted, vibration reduction affects only horizontal shake

OFF Off

Vibration reduction is not enabled

The current vibration reduction setting can be confirmed in the camera monitor with shooting (\square 6, 25, 140). When **Off** is selected, no icon is displayed.

Vibration Reduction for Movies

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.
- When the Night landscape or Night portrait scene modes are set to Tripod, vibration reduction is turned off.
- When recording HS movies, vibration reduction cannot be used.
- When On (hybrid) is selected, electronic vibration reduction may not be able to correct the image if vibrations are very small or very large.
- When **On (hybrid)** is selected, electronic vibration reduction is disabled if shutter speed is fast or very slow.
- When electronic vibration reduction is operating while **On (hybrid)** is selected, the shutter is
 released twice for each shot and then the image is corrected, therefore more time is needed to
 save images. The **Shutter sound** (180) is heard only once. One image is saved.

Motion Detection

MENU button → Y (Setup menu) (ДД 168) → Motion detection

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

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 mode is set to fill-flash
- In

 (auto) mode, when ISO sensitivity (□ 52) is set to any setting other than
 Auto
- In the following scene modes:
 - **(night landscape)** (QQ 64)
 - 🛮 (night portrait) (📖 65)
 - 🔼 (backlighting) (📖 66)
 - Sports (68), Dusk/dawn (69), Museum (72), Fireworks show (72), Panorama (when Easy panorama is selected) (73), Pet portrait (74)
- AF area mode is in subject tracking (58)
- In continuous shooting mode (\$\square\$ 80)

OFF Off

Motion detection is not enabled

The current motion detection setting can be confirmed in the camera monitor with shooting (\square 6, 25). 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 images captured using motion detection may be somewhat "grainy" in appearance.

AF Assist

MENU button → Y (Setup menu) (□ 168) → AF assist

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

Auto (default setting)

AF-assist illuminator will be used to assist the focus operation when the subject is dimly lit. The illuminator has a range of about 5.0 m (16 ft) at the maximum wide-angle position and about 4.0 m (13 ft) at the maximum telephoto position. Note that for some scene modes or focus areas even when **Auto** is selected, 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 → Y (Setup menu) (□ 168) → Digital zoom

Enable or disable digital zoom.

ON On (default setting)

When the camera is zoomed in to the maximum optical zoom position, rotating the zoom control to $\mathbf{T}(\mathbf{Q})$ triggers digital zoom (\square 27).

Crop

24000×3000. or **33 3968×2232**.

When recording movies, the camera performs the same as when **On** is selected.

OFF Off

Digital zoom will not be activated.

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 using the scene auto selector,
 (night landscape),
 (night portrait),
 (when HDR is set to On), Portrait, Panorama (when Easy panorama is selected), and Pet portrait scene modes
 - When AF area mode is set to subject tracking
 - When continuous shooting mode is set to ${\bf Multi\text{-}shot}~{\bf 16}$
 - When using 🔁 (smile timer)
- While digital zoom is in effect, metering is automatically set to center-weighted metering or spot metering (the area in the center of the monitor is metered).

Sound Settings

MENU button → Y (Setup menu) (□ 168) → 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.

However, when shooting with continuous shooting mode or when a still image is saved while recording a movie, the shutter sound is not heard even when set to **On**.



Auto Off

MENU button → Υ (Setup menu) (\square 168) → Auto off

If no operations are performed for a specified amount of time, the monitor turns off and the camera enters standby mode $(\square 19)$.

Choose the time allowed to elapse before the camera enters standby mode from **30 s**, **1 min** (default setting), **5 min**, and **30 min**.

When the Monitor Has Turned Off to Save Power

- When the camera is in standby mode, the power-on lamp blinks.
- If no operations are performed for another three minutes, the camera will turn off automatically.
- When the power-on lamp is blinking, the following operations will turn the monitor back on.
 - Pressing the power switch, shutter-release button, ▶ button, or ♠ (*★ movie-record) button.
 - Rotating the mode dial.

Auto Off

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

- While menus are displayed: 3 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) (📖 168) → Format memory/Format card

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

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

Formatting the Internal Memory

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

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



Formatting a Memory Card

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



Notes on Formatting Internal Memory and Memory Cards

- 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 S9050.

Language

MENU button → Y (Setup menu) (168) → Language

Choose one of 26 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
Română	Romanian
Suomi	Finnish
Svenska	Swedish
Türkçe	Turkish
Українська	Ukrainian
عربي	Arabic
简体中文	Simplified Chinese
繁體中文	Traditional Chinese
日本語	Japanese
한글	Korean
ภาษาไทย	Thai

TV Settings

MENU button → Y (Setup menu) (□ 168) → TV settings

Adjust settings for connection to a television.

Video mode

Choose from NTSC and PAL

HDMI

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

HDMI device control

Select whether or not the camera can receive signals from a TV that supports the HDMI-CEC standard when is connected to the TV via HDMI. When **On** (default setting) is selected, the TV's remote control can be used to control the camera during playback. \rightarrow "Using a TV Remote Control (HDMI Device Control)" (\square 156)

HDMI and HDMI-CEC

Charge by Computer

MENU button → Y (Setup menu) (168) → 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 (\square 159).

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 images with direct
 connection of the camera to some printers. If the PictBridge startup screen is not displayed in the
 monitor after the camera is connected to a printer and turned on, turn the camera off and
 disconnect the USB cable. Set Charge by computer to Off and reconnect the camera to the
 printer.

Notes About Charging with Connection to a Computer

- The battery cannot be charged, nor can data be transferred, when the camera is connected to a
 computer before the camera's display language and date and time have been set (20). If the
 camera's clock battery (171) has been exhausted, the date and time must be reset before the
 battery can be charged or images can be transferred with connection to a computer. In this case,
 use the Charging AC Adapter EH-69P (16) to charge the battery and then set the camera's date
 and time.
- If the camera is turned off, charging will also stop.
- If the computer enters sleep mode while charging, charging will stop and the camera may be turned off.
- When disconnecting the camera from the 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-69P. Charging time increases when images are transferred while the battery is charging.
- When the camera is connected to a computer, an application installed on the computer, such as Nikon Transfer 2, may start. If the camera was connected to the computer for the sole purpose of charging the battery, exit the application.
- The camera turns off automatically if there is no communication with the computer for 30 minutes after the battery has finished charging.
- Depending upon computer specifications, settings, and power supply and allocation, it may be
 impossible to charge the battery using a computer connection while it is inserted into the camera.

The 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)	 The ambient temperature is not suited to charging. Charge the battery indoors with an ambient temperature of 5 °C to 35 °C (41 °F to 95 °F). The USB cable is not connected correctly, or the battery is faulty. Make sure the USB cable is connected correctly and replace the battery if necessary. The computer is in sleep mode and is not supplying power. Wake up the computer. The battery cannot be charged because the computer cannot supply power to the camera, due to the computer's settings or its specifications.

Blink Warning

MENU button → Y (Setup menu) (□ 168) → Blink warning

Specify whether or not the camera detects human subjects that have blinked using face detection (\square 56) when shooting in the following modes.

- option).
- In the following scene modes:
 - Scene auto selector (62)
 - 🔼 (night portrait) (🔲 65)
 - **Portrait** (◯◯ 67)

On

When the camera detects that one or more human subjects may have blinked in an image captured using face detection, the Did someone blink? screen is displayed in the monitor.

The face of the human subject that may have closed his/her eyes is framed by a vellow border. Should this occur, check the image and determine whether or not another image should be captured.

See "Operating the Blink Warning Screen" (187) for more information.

Off (default setting)

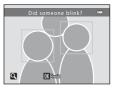
Blink warning is not enabled.



Operating the Blink Warning Screen

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

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



Function	Control	Description
Enlarge the detected face that blinked	T (Q)	Rotate the zoom control to $\mathbf{T}(\mathbf{Q})$.
Switch to full-frame playback mode	W (55)	Rotate the zoom control to W (E).
Select the face to be displayed	€	If the camera detects that more than one human subject blinked, press ◀ or ▶ to switch the display to another face.
Delete the image	ú	Press the 🗑 button.
Switch to shooting mode	•	Press the 🚱 button or shutter-release button.

Reset All

MENU button → Y (Setup menu) (□ 168) → 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 (32)	Auto
Self-timer (35)	Off
Macro mode (39)	Off
Creative slider adjustment (41)	Off
Exposure compensation (43, 44)	0.0

Shooting Menu

<u></u>		
Option	Default value	
Image mode (47)	№ 4000×3000	
White balance (49)	Auto	
Metering (51)	Matrix	
ISO sensitivity (52)	Auto	
AF area mode (53)	Face priority	
Autofocus mode (60)	Single AF	

Scene Mode

Option	Default value
Scene menu (61)	Portrait
Hue adjustment in Food mode (71)	Center
Panorama (CC) 73)	Easy panorama (Normal (180°))
Pet portrait (QQ 74)	Continuous

Night landscape Menu

Option	Default value
Night landscape (QQ 64)	Hand-held

Night Portrait Menu

Option	Default value
Night portrait (QQ 65)	Tripod

Backlighting Menu

Option	Default value
HDR (QQ 66)	Off

Continuous Shooting Menu

Option	Default value
Continuous (QQ 82)	Continuous H

Special Effects Menu

Option	Default value
Special effects (QQ 85)	Soft

Movie Menu

Option	Default value
Movie options (148)	HD 1080p★ (1920×1080)
Open with HS footage (143)	On
Autofocus mode (150)	Single AF
Electronic VR (151)	On
Wind noise reduction (151)	Off

Setup Menu

Option	Default value
Welcome screen (169)	None
Photo info (QQ 172)	Auto info
Image review (172)	On
Brightness (QQ 172)	3
Print date (QQ 174)	Off

Option	Default value
Vibration reduction (175)	On
Motion detection (177)	Auto
AF assist (QQ 178)	Auto
Digital zoom (ДД 179)	On
Button sound (180)	On
Shutter sound (180)	On
Auto off (181)	1 min
HDMI (QQ 183)	Auto
HDMI device control (183)	On
Charge by computer (184)	Auto
Blink warning (186)	Off

Others

Option	Default value
Paper size (163, 164)	Default
Frame interval for Slide show (121)	3 s
Album icons (106)	Number icons (black)

- Selecting Reset all also clears the current file number (197) from memory. Numbering will continue from the lowest number available. To reset file numbering to "0001," delete all images saved in the internal memory or on the memory card (131) before selecting Reset all.
- The following menu settings will remain unaffected when menus are reset with

Reset all. Shooting menu:

Preset manual data (\$\sum_{50}\$) acquired for **White balance**

Playback menu:

Sequence display options (129), Choose key picture (129) Setup menu:

Time zone and date (170), Language (183), Video mode under TV settings (183)

Firmware Version

MENU button → 🕯 (Setup menu) (📖 168) → 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 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 saved 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 saved or deleted. Forcibly cutting power in these circumstances could result in loss of data or in damage to product memory or internal circuitry.

Notes on the Monitor

- Monitors and electronic viewfinders are constructed with extremely high precision; at least 99.99%
 of pixels are effective, with no more than 0.01% being missing or defective. Hence while these
 displays may contain pixels that are always lit (white, red, blue, or green) or always off (black), this is
 not a malfunction and has no effect on images recorded with the device.
- Scraping or pressing on the surface of the monitor may result in damage or malfunction. 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.
- · Images in the monitor may be difficult to see under bright lighting.
- The monitor is lit by an LED backlight. Should the monitor begin to dim or flicker, contact your Nikon-authorized service representative.

The Battery

- Check the battery level before using the camera and replace or charge the battery if necessary. Do
 not continue charging once the battery is fully charged as this will result in reduced battery
 performance. Whenever possible, carry a fully charged spare battery when taking pictures on
 important occasions.
- Do not use the battery at ambient temperatures below 0°C (32°F) or above 40°C (104°F).
- Charge the battery indoors with an ambient temperature of 5°C to 35°C (41°F to 95°F) before use.
- When charging the COOLPIX S9050 using the Charging AC adapter EH-69P 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. Note that foreign matter inside the camera could cause damage not covered by the warranty.

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°C (14°F) or above +50°C (122°F)
- Places that are poorly ventilated or subject to humidity of over 60%

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

Optional Accessories

Rechargeable battery	Rechargeable Li-ion Battery EN-EL12 ¹		
Charging AC adapter	Charging AC Adapter EH-69P ^{1, 2}		
Battery charger	Battery Charger MH-65		
AC adapter	AC Adapter EH-62F (connect as shown) Be sure that the power connector cord has been properly aligned in power connector and battery chamber grooves before closing the battery-chamber/memory card slot cover. If part of the cord runs out of the grooves, the cover or cord may be damaged when the cover is closed.		
USB cable	USB Cable UC-E6 ¹		
Audio/video cable	Audio Video Cable EG-CP16		

¹ Supplied with camera at time of purchase (see page 3 of the *Quick Start Guide*).

When using in other countries, use a plug adapter (commercially available) 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 rating of 6 or faster are recommended for recording movies. When using a memory card with a lower Speed Class rating, movie recording may stop unexpectedly.

	SD memory card	SDHC memory card ²	SDXC memory card ³
SanDisk	2 GB ¹	4 GB, 8 GB, 16 GB, 32 GB	64 GB, 128 GB
TOSHIBA	2 GB ¹	4 GB, 8 GB, 16 GB, 32 GB	64 GB
Panasonic	2 GB ¹	4 GB, 8 GB, 16 GB, 32 GB	64 GB
Lexar	-	4 GB, 8 GB, 16 GB, 32 GB	64 GB, 128 GB

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

² SDHC compliant.

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



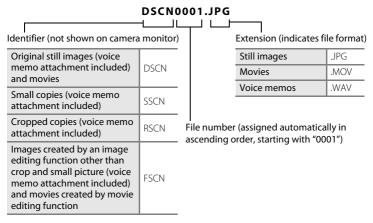
³ SDXC compliant. If the memory card is used with a card reader or similar device, make sure that the device supports SDXC.



• Contact the manufacturer for details on the above cards.

File and Folder Names

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



- Voice memo file names have the same identifier and file number as the image to which the voice memo is attached.
- Files copied using Copy>Selected images are copied to the current folder, where they are assigned new file numbers in ascending order starting from the largest file number in memory. Copy>All images copies all folders from the source medium; file names do not change but new folder numbers are assigned in ascending order, starting from the largest folder number on the destination medium (\(\Omega\) 127).
- A single folder can hold up to 200 files; if the current folder already contains 200 files, a new folder, named by adding one to the current folder name, will be created the next time an image is captured. If the current folder is numbered 999 and contains 200 files, or an image is numbered 9999, no further images can be captured until the internal memory or memory card is formatted (182), 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.	170
1 Battery exhausted.	Battery exhausted.	Charge or replace the battery.	14, 16
① 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.	19
The camera will turn off to prevent overheating.	Memory card or inside of camera has become hot.	The camera turns off automatically. Leave the camera off until the memory card or the inside of the camera has cooled and then turn it on again.	-
Æ• (● blinks red)	Camera cannot focus.	Refocus. Use focus lock.	28, 29 55
Please wait for the camera to finish recording.	Camera cannot perform other operations until saving is complete.	Wait until message clears from display automatically when saving is complete.	-
(i) Memory card is write protected.	Write-protect switch is in "lock" position.	Slide write-protect switch to "write" position.	23
This card cannot be used.	Error accessing memory	Use approved card. Check that terminals are clean.	196 22
This card cannot be read.	card.	Confirm that memory card is correctly inserted.	22

Display	Problem	Solution	Щ
Card is not formatted. Format card? Yes No	Memory card has not been formatted for use in COOLPIX S9050.	Formatting deletes all data saved on the memory card. Be sure to select No and make copies of any images which need to be kept before formatting the memory card. Select Yes and press the W button to format the memory card.	23
① Out of memory.	Memory card is full.	Choose smaller image size. Delete images. Insert new memory card. Remove memory card and use internal memory.	47 31, 152 22 22
	Error occurred while saving image.	Format internal memory or memory card.	182
● Image cannot be saved.	Camera has run out of file numbers.	Insert a new memory card or format internal memory or memory card.	22, 182
	Image cannot be used for welcome screen.	The following images cannot be registered as welcome screen. Images captured at an Image mode setting of ■ 3968×2232 Images captured with easy panorama Images created using the small picture or crop functions that are 320 × 240 or smaller in size Still images captured while recording movies using ■ 500 or a movie options setting with a 16:9 aspect ratio	169
	Insufficient space to save a copy.	Delete images from destination.	31, 152
Album is full. No further pictures can be added.	200 images have already been added to album.	Remove some images from album. Add to other albums.	104 101

Error Messages

Display	Problem	Solution	Ш
Sound file cannot be saved.	A voice memo cannot be attached to this file.	Voice memos cannot be attached to movies. Select an image captured with COOLPIX S9050.	152 126
f Image cannot be modified.	Cannot edit selected image.	Select images that support editing function. Movies cannot be edited.	130
(i) Cannot record movie.	Time out error while saving movie on the memory card.	Choose memory card with faster write speed.	22
• Memory contains no images.	No images in the internal memory or memory card.	Remove the memory card from the camera to play back images saved in the camera's internal memory. To copy image from internal memory to memory card, press the MENU button. The copy screen will be displayed and images in the internal memory can be copied to memory card.	127
	No images have been added to the selected album.	Add images to the album. Choose an album to which images are added.	101 103
	No images are contained in the category selected in auto sort mode.	Select the category containing the sorted images.	111
File contains no image data.	File not created with the	File cannot be viewed on this camera. View file using a	_
This file cannot be played back.	COOLPIX S9050.	computer or the devices used to create or edit this file.	
1 All images are hidden.	No images available for a slide show.	_	121
This image cannot be deleted.	Image is protected.	Disable protection.	122

Display	Problem	Solution	Щ
Travel destination is in the current time zone.	Destination in same time zone as home.	-	170
Mode dial is not in the proper position.	The mode dial is not set to the correct position.	Rotate the mode dial to select the desired mode.	45
① The flash is lowered.	Flash is lowered in scene auto selector mode.	Slide the 4 C (flash pop-up) control to make the flash pop up. To take pictures without using the flash, take pictures with the flash lowered.	33, 62
(i) Raise the flash.	Flash is lowered in (night portrait) or (backlighting) scene mode.	Slide the \$ ((flash pop-up) control to make the flash pop up.	33, 65, 66
Unable to create panorama. Unable to create panorama. Pan the camera in one direction only.	Could not shoot using easy panorama.	Shooting with easy panorama may not be possible in the following situations. • When shooting does not end after a certain amount of time • When the camera is moved too fast	75
Unable to create panorama. Pan the camera more slowly.		When the camera is not moved in a straight line in the panorama direction	
Lens error	Lens error.	Turn camera off and then on again. If error persists, contact retailer or Nikon-authorized service representative.	24
① Communications error	Error occurred during communication with printer.	Turn camera off and reconnect USB cable.	162
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 Nikonauthorized service representative.	14, 19

Error Messages

Display	Problem	Solution	Щ
Printer error: check printer status.	Printer error.	Check printer. After solving the problem, select Resume and press the ® button to resume printing.*	-
Off Printer error: check paper	Specified size of paper is not loaded in printer.	Load the specified paper, select Resume , and press the ® button to resume printing.*	-
Off Printer error: paper jam	Paper has jammed in printer.	Remove the jammed paper, select Resume , and press the ® button to resume printing.*	-
Off Printer error: out of paper	No paper is loaded in printer.	Load the specified paper, select Resume , and press the button to resume printing.*	-
Off Printer error: check ink	Ink error.	Check ink, select Resume , and press the ® button to resume printing.*	-
Off Printer error: out of ink	Running out of ink or ink cartridge is empty.	Replace ink cartridge, select Resume , and press the ® button to resume printing.*	-
Off Printer error: file corrupt	An error caused by the image file has occurred.	Select Cancel 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	
The camera is on but does not respond.	Wait for recording to end. If the problem persists, turn the camera off. If the camera does not turn off, remove and reinsert the battery or batteries or, if you are using an AC adapter, disconnect and reconnect the AC adapter. Note that although any data currently being recorded will be lost, data that have already been recorded will not be affected by removing or disconnecting the power source.	- 14, 18, 19, 195
	Confirm all connections. Off is selected for Charge by computer in the setup menu. When charging by connecting the camera to a	16 184 184
The battery inserted in the camera cannot be charged.	 when charging by connecting the camera to a computer, battery charging stops when the camera is turned off. When charging by connecting the camera to a computer, battery charging stops when the computer is suspended (sleeping), and the camera may turn off. Depending upon computer specifications, settings, 	184
	and status, charging the battery inserted in the camera may not be possible via computer connection.	
Camera cannot be turned on.	Battery is exhausted. The camera cannot be turned on while connected to an electrical outlet via the Charging AC Adapter.	24 16
Camera turns off without warning.	Battery is exhausted. Camera has turned off automatically to save power. The camera and battery may not perform properly if they are cold.	24 181 193
	The camera turns off if the Charging AC Adapter is connected while the camera is on. The camera turns off if the USB cable connecting it to	16 159,
	a computer or printer is disconnected. Reconnect the USB cable.	162
	Inside of the camera has become hot. Leave the camera off until the inside of the camera has cooled, and then try turning it on again.	-

Troubleshooting

Problem	Cause/Solution	Ш
Monitor is blank.	Camera is off. Standby mode for saving power: press the power switch, shutter-release button, ▶ button, or ♠ (★ movie-record) button, or rotate the mode dial. When flash lamp blinks, wait until flash has charged. Camera and computer are connected via USB cable. Camera and TV are connected via A/V cable or HDMI cable.	19 4, 10, 19, 30 34 159 155
Monitor is hard to read.	Adjust monitor brightness.Monitor is dirty. Clean monitor.	172 194
Date and time of recording are not correct.	If camera clock has not been set, "Date not set" indicator blinks with shooting and movie recording. Images and movies saved before clock is set are dated "00/00/0000 00:00" or "01/01/2012 00:00" respectively. Set the correct time and date from the Time zone and date option in the setup menu. Check camera clock regularly against more accurate timepieces and reset as required.	20, 170
No indicators displayed in monitor.	Hide info is selected for Photo info . Select Show info .	172
Print date not available.	Camera clock has not been set.	20, 170
Date not imprinted on images even when Print date is enabled.	The current shooting mode is one that does not support Print date . The date cannot be imprinted on movies. The date cannot be imprinted on still images saved during movie recording.	174 - -
Screen for setting time zone and date is displayed when camera is turned on. Camera settings reset.	Clock battery is exhausted; all settings were restored to their default values.	20, 171
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.	19
Camera becomes hot.	The camera may become hot when shooting movies for an extended period of time or when the camera is used in a hot area; this is not a malfunction.	-

Shooting

Problem	Cause/Solution	
Cannot switch to shooting mode.	Disconnect HDMI cable or USB cable.	155, 159, 162
No image captured when the shutter-release button is pressed.	When camera is in playback mode, press the button or shutter-release button. When menus are displayed, press the MENU button. Battery is exhausted. When flash lamp blinks, flash is charging.	4, 30 12 24 34
Camera cannot focus.	 Subject is too close. Try shooting using macro mode, or the Scene auto selector or Close-up scene modes. The intended subject is one with which autofocus does not perform well. Set AF assist in the setup menu to Auto. Turn camera off and then on again. 	39, 61, 70 29 178 19
Images are blurred.	Use flash. Enable vibration reduction or motion detection. Use BSS (best shot selector). Use tripod and self-timer.	32 175, 177 82 35
Bright specks appear in images captured with flash.	Flash is reflecting off particles in air. Lower the flash or set the flash mode setting to ③ (off).	34
Flash does not fire.	 The flash is lowered, or flash mode is set to (off). Scene mode with which the flash does not fire is selected. Flash is not fully raised. Do not hold down the flash. Another function that restricts flash is enabled. 	32 64 26 87
Digital zoom cannot be used.	Digital zoom is set to Off in the setup menu. Another function that disables digital zoom is enabled.	179
Image mode not available.	Another function that restricts the Image mode option is enabled. Available image modes differ according to the current shooting mode.	87 47

Troubleshooting

Problem	Cause/Solution	Ш
No sound when shutter is released.	Off is selected for Sound settings>Shutter sound in setup menu. No sound is heard with some shooting modes and settings, even when On is selected.	180
AF-assist illuminator does not light.	Off is selected for the AF assist 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 Auto is selected.	64-73, 178
Images appear smeared.	Lens is dirty. Clean lens.	194
Colors are unnatural.	White balance or hue is not adjusted properly.	40, 49, 71
Randomly spaced bright pixels ("noise") appear in image.	Shutter speed is too slow or ISO sensitivity is high as the subject is dark. Noise can be reduced by: Using flash. Specifying a lower ISO sensitivity setting.	32 52
Images are too dark (underexposed).	The flash is lowered, or the flash mode is set to (๑) (off). Flash window is blocked. Subject is beyond flash range. Adjust exposure compensation. Increase ISO sensitivity. Subject is backlit. Select (೨ (backlighting) or set the flash mode to (๑) (fill flash).	32 26 32 43,44 52 32,66
Images are too bright (overexposed).	Adjust exposure compensation.	43, 44
Unexpected results when flash set to \$\@ (auto with red-eye reduction).	When using \$\iffluone{\text{ol}} (auto with red-eye reduction) or \$\mathbb{\text{a}} (night portrait) to take pictures using the flash, In-Camera Red Eye Fix may be applied to areas not affected by red-eye. Use any shooting mode other than \$\mathbb{\text{a}} (night portrait), change the flash mode to any setting other than \$\frac{1}{2} \text{ol} (auto with red-eye reduction), and then try taking a picture again.	32,65

Problem	Cause/Solution	Ш
	It may take more time to save images in the following situations. • When the noise reduction function is in	34 32 64 65 66 67 80
Saving images takes time.	 operation. When the flash mode is set to (auto with red-eye reduction). When taking pictures in the following scene 	32
	modes ■ (night landscape) - ■ (night portrait) - ■ (backlighting) (when HDR is set to On) - Portrait • When using continuous shooting mode.	65 66 67
A ring-shaped belt or rainbow-colored stripe appears in the monitor or images.	When shooting with backlighting or when a very strong light source (such as sunlight) is in the frame, a ring-shaped belt or rainbow-colored stripe (ghosting) may occur. Change the position of the light source, or frame the picture so that the light source does not enter the frame and try again.	-

Playback

Problem	Cause/Solution	Ш
File cannot be played back.	Tile or folder was overwritten or renamed by computer or other make of camera. The COOLPIX S9050 is not able to play back movies recorded with another make or model of digital camera.	152
Cannot zoom in on image.	 Playback zoom cannot be used with movies, small pictures, or images that have been cropped to a size of 320 × 240 or smaller. The COOLPIX S9050 may not be able to zoom in on images captured with another make or model of digital camera. 	-
Cannot record or play back voice memos.	Voice memos cannot be attached to movies. Voice memos can only be attached to images captured with the COOLPIX S9050. Voice memos attached to images using another camera cannot be played back on this camera.	152 126

Troubleshooting

Problem	Cause/Solution	ш
Cannot use quick retouch, D-Lighting, skin softening, filter effects, frame, small picture, or crop.	These options cannot be used with movies. Images captured at an Image mode setting of	152 47 131
Images not displayed on television.	Video mode or HDMI is not correctly set in the TV settings setup menu. Cables are connected to the HDMI mini connector (Type C) and to the USB/audio/video output connector simultaneously. Memory card contains no images. Replace the memory card. Remove the memory card to play back images from the internal memory.	183 155, 159 22
Album icons are reset to their default icons, images added to albums cannot be displayed in favorite pictures mode.	Data saved in the internal memory or on the memory card may not be played back correctly if overwritten by a computer.	-
The saved images are not displayed in auto sort mode.	The desired image was sorted to a category other than the category currently displayed. Images saved by a camera other than the COOLPIX S9050 and images copied using the Copy option cannot be displayed in auto sort mode.	109 111
	Images saved in the internal memory or on the memory card may not be played back correctly if overwritten by a computer. Up to 999 images and movies in total can be added to each category. If the desired category already contains 999 images or movies in total, new images or movies cannot be added.	111

Problem	Cause/Solution	
Nikon Transfer 2 does not start when camera is connected.	Camera is off. Battery is exhausted. USB cable is not correctly connected. Camera is not recognized by the computer. Confirm system requirements. Computer is not set to start Nikon Transfer 2 automatically. For more information on Nikon Transfer 2, refer to help information contained in ViewNX 2.	19 24 159 - 157 160
The PictBridge startup screen is not displayed when the camera is connected to a printer.	With some PictBridge-compatible printers, the PictBridge startup screen may not be displayed and it may be impossible to print images when Auto is selected for the Charge by computer option in the setup menu. Set the Charge by computer option to Off and reconnect the camera to the printer.	184
Images to be printed are not displayed.	Memory card contains no images. Replace the memory card. Remove the memory card to print images from the internal memory.	22
Cannot select paper size with camera.	Paper size cannot be selected from the camera in the following situations, even when printing from a PictBridge-compatible printer. Use the printer to select paper size. The printer does not support the paper sizes specified by the camera. The printer automatically selects the paper size.	163, 164 -

Specifications

Nikon COOLPIX S9050 Digital Camera

		~
Туре		Compact digital camera
Number of effective pixels		12.1 million
Image sensor		¹ /2.3-in. type CMOS; approx. 12.75 million total pixels
Lens		15.5× optical zoom, NIKKOR lens
	Focal length	4.5–69.8 mm (angle of view equivalent to that of 25–388 mm lens in 35mm [135] format)
	f/-number	f/3.5-5.5
	Construction	12 elements in 11 groups
	igital zoom nagnification	Up to 4x (angle of view equivalent to that of approx. 1552 mm lens in 35mm [135] format)
٧	ibration reduction	Combination of image sensor shift and electronic VR (still pictures) Electronic VR (movies)
N	lotion blur reduction	Motion detection (still pictures)
Α	utofocus (AF)	Contrast-detect AF
	Focus range	[W]: Approx. 50 cm (1 ft 8 in.)—∞, [T]: Approx. 1.5 m (5 ft)—∞ Macro mode: Approx. 4 cm (1.6 in.)—∞ (wide-angle position) (All distances measured from center of front surface of lens)
	Focus-area selection	Face priority, auto (9-area automatic selection), manual with 99 focus areas, center, subject tracking
N	lonitor	7.5 cm (3-in.), approx. 460k-dot, wide viewing angle TFT LCD with anti-reflection coating and 5-level brightness adjustment
	Frame coverage (shooting mode)	Approx. 97% horizontal and 97% vertical
	Frame coverage (playback mode)	Approx. 100% horizontal and 100% vertical
St	torage	
	Media	Internal memory (approx. 74 MB), SD/SDHC/SDXC memory card
	File system	DCF, Exif 2.3, and DPOF compliant
	File formats	Still pictures: JPEG Sound files (Voice Memo): WAV Movies: MOV (Video: H.264/MPEG-4 AVC, Audio: AAC stereo)
Image size (pixels)		12M (High) [4000 × 3000★] 12M [4000 × 3000] 8M [3264 × 2448] 5M [2592 × 1944] 3M [2048 × 1536] PC [1024 × 768] VGA [640 × 480] 16:9 [3968 × 2232]

(S	O sensitivity Standard output ensitivity)	 ISO 160–800 ISO 1600, 3200 (available when using Auto mode)
Exposure		
	Metering mode	256-segment matrix, center-weighted, spot (digital zoom 2× or more)
	Exposure control	Programmed auto exposure and exposure compensation $(-2.0 - +2.0 \text{ EV})$ in steps of $^{1}/_{3} \text{ EV})$
SI	hutter	Mechanical and CMOS electronic shutter
	Speed	 1/2000-1 s 1/4000-1/125 s (Continuous H: 120 fps) 1/4000-1/60 s (Continuous H: 60 fps) 4 s (Fireworks show scene mode)
Α	perture	Electronically-controlled ND filter (–2 AV) selection
	Range	2 steps (f/3.5 and f/7 [W])
S	elf-timer	Durations of 2 or 10 seconds can be selected
В	uilt-in flash	
	Range (approx.) (ISO sensitivity: Auto)	[W]: 0.5–4.0 m (1 ft 8 in.–13 ft) [T]: 1.5–2.6 m (5 ft–8 ft 6 in.)
	Flash control	TTL auto flash with monitor preflashes
Ir	iterface	Hi-Speed USB
	Data transfer protocol	MTP, PTP
V	ideo output	Can be selected from NTSC and PAL
Н	DMI output	Can be selected from Auto , 480p , 720p , and 1080i
1/	O terminal	Audio/video (A/V) output; digital I/O (USB) HDMI mini connector (Type C) (HDMI output)
Si	upported languages	Arabic, Chinese (Simplified and Traditional), Czech, Danish, Dutch, English, Finnish, French, German, Greek, Hungarian, Indonesian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Romanian, Russian, Spanish, Swedish, Thai, Turkish, Ukrainian
P	ower sources	One Rechargeable Li-ion Battery EN-EL12 (supplied) AC Adapter EH-62F (available separately)
C	harging time	Approx. 3 hours and 50 minutes (when using Charging AC Adapter EH-69P and when no charge remains)
	attery life (Still ictures) ¹	Approx. 280 shots (EN-EL12)
T	ripod socket	1/4 (ISO 1222)
D	imensions (W \times H \times D)	Approx. $104.8 \times 62.0 \times 34.6$ mm $(4.2 \times 2.5 \times 1.4$ in.) (excluding projections)
W	/eight	Approx. 215 g (7.6 oz) (including battery and SD memory card)

Operating environment		
	Temperature	0°C-40°C (32°F-104°F)
	Humidity	85% or less (no condensation)

- * Unless otherwise stated, all figures are based on an ambient temperature of 23°C ±3°C (73.4 ±5.4°F), as specified by the Camera and Imaging Products Association (CIPA), and the use of a fully-charged battery.
- Based on Camera and Imaging Products Association (CIPA) standards for measuring battery life. The zoom is adjusted for each shot, the flash is fired for every other shot, and Image mode is set to 4000×3000. Battery life may vary based on factors such as battery charge, interval between shots, and the amount of time menus and images are displayed.

Rechargeable Li-ion Battery EN-EL12

Туре	Rechargeable lithium-ion battery
Rated capacity	DC 3.7 V, 1050 mAh
Operating temperature	0°C-40°C (32°F-104°F)
Dimensions (W \times H \times D)	Approx. $32 \times 43.8 \times 7.9 \text{ mm} (1.3 \times 1.7 \times 0.3 \text{ in.})$
Weight	Approx. 22.5 g (0.8 oz) (excluding terminal cover)

Charging AC Adapter EH-69P

Rated input	AC 100-240 V, 50/60 Hz, 0.068-0.042 A
Rated capacity	6.8–10.1 VA
Rated output	DC 5.0 V, 550 mA
Operating temperature	0°C-40°C (32°F-104°F)
Dimensions (W \times H \times D)	Approx. $55 \times 22 \times 54$ mm ($2.2 \times 0.9 \times 2.2$ in.) (excluding plug adapter) For Argentina: Approx. $55 \times 59 \times 63$ mm ($2.2 \times 2.4 \times 2.5$ in.)
Weight	Approx. 55 g (2.0 oz) (excluding plug adapter) For Argentina: Approx. 80 g (2.9 oz)



Supported Standards

- **DCF**: Design Rule for Camera File System is a standard widely used in the digital camera industry to ensure compatibility among different makes of camera.
- **DPOF**: Digital Print Order Format is an industry-wide standard that allows images to be printed from print orders saved on memory cards.
- Exif version 2.3: This camera supports Exchangeable image file format (Exif) version 2.3 for digital still cameras, a standard that allows information saved 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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