

***Nikon***

DIGITAL CAMERA

**COOLPIX S6600**

Reference Manual



**En**



## Highlight Feature of the COOLPIX S6600

### Gesture control - Easily Take Self-portraits




The direction and angle of the monitor on this camera can be adjusted.

You can easily take self-portrait images in combination with **Gesture control**.

- When you open the monitor and face it forward in the same direction as the camera lens, you can take images without pressing the shutter-release button, simply by moving your hand toward an icon displayed on the monitor.







Move your hand toward .



Countdown starts.



An image is taken.

- The shooting functions listed below are available.
  - : Start recording a movie
  - : Take a still image
  - : Zoom out (wide-angle)
  - : Zoom in (telephoto)

**For detailed operating instructions, see page  46.**

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# Introduction

## Read This First

Thank you for purchasing the Nikon COOLPIX S6600 digital camera. Before using the camera, please read the information in "For Your Safety" (📖viii-x) and familiarize yourself with the information provided in this manual. After reading, please keep this manual handy and refer to it to enhance your enjoyment of your new camera.

## About This Manual






If you want to start using the camera right away, see “The Basics of Shooting and Playback” (📖10).

To learn about the parts of the camera and information that is displayed in the monitor, see “Parts of the Camera” (📖1).

## Other Information

- Symbols and Conventions

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

Symbol	Description
	This icon indicates cautions and information that should be read before using the camera.
	This icon indicates notes and information that should be read before using the camera.
	These icons indicate other pages containing relevant information;  : "Reference Section",  : "Technical Notes and Index."

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

# Information and Precautions

## Life-Long Learning

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

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

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

<http://imaging.nikon.com/>

## Use Only Nikon Brand Electronic Accessories

Nikon COOLPIX cameras are designed to the highest standards and include complex electronic circuitry. Only Nikon brand electronic accessories (including battery chargers, batteries, Charging AC 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.

## About the Manuals

- No part of the manuals included with this product may be reproduced, transmitted, transcribed, stored in a retrieval system, or translated into any language in any form, by any means, without Nikon's prior written permission.
- Nikon reserves the right to change the specifications of the hardware and software described in these manuals at any time and without prior notice.
- Nikon will not be held liable for any damages resulting from the use of this product.
- While every effort 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).

## Notice Concerning Prohibition of Copying or Reproduction

Note that simply being in possession of material that was digitally copied or reproduced by means of a scanner, digital camera or other device may be punishable by law.

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

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### • Comply with copyright notices

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



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

## For Your Safety

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

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



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

## WARNINGS

### **Turn off in the event of malfunction**

Should you notice smoke or an unusual smell coming from the camera or Charging AC Adapter, unplug the Charging AC Adapter and remove the battery immediately, taking care to avoid burns. Continued operation could result in injury. After removing or disconnecting the power source, take the equipment to a Nikon-authorized service representative for inspection.


### **Do not disassemble**


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

representative for inspection, after unplugging the product and/or removing the battery.

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


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

 **Handle the camera strap with care**  
Never place the strap around the neck of an infant or child.

 **Keep out of reach of children**  
Particular care should be taken to prevent infants from putting the battery or other small parts into their mouths.

 **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.

 **Do not leave the product where it will be exposed to extremely high temperatures, such as in an enclosed automobile or in direct sunlight**


Failure to observe this precaution could cause damage or fire.

 **Observe caution when handling the battery**

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

- Before replacing the battery, turn the product off. If you are using the Charging AC Adapter/AC adapter, be sure it is unplugged.
- Use only a Rechargeable Li-ion Battery EN-EL19 (included). Charge the battery by using a camera that supports battery charging or by using a Battery Charger MH-66 (available separately). To charge the battery with the camera, use either Charging AC Adapter EH-70P (included) 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.
- Put the battery in the battery case before transporting it. Do not transport or store with metal objects such as necklaces or hairpins.
- The battery is prone to leakage when fully discharged. To avoid damage to the product, be sure to remove the battery when no charge remains.
- Discontinue use immediately should you notice any change in the battery, such as discoloration or deformation.
- If liquid from the damaged battery comes in contact with clothing or skin, rinse immediately with plenty of water.

 **Observe the following precautions when handling the Charging AC Adapter**

- Keep dry. Failure to observe this precaution could result in fire or electric shock.
- Dust on or near the metal parts of the plug should be removed with a dry cloth. Continued use could result in fire.
- Do not handle the plug or go near the Charging AC Adapter during lightning storms. Failure to observe this precaution could result in electric shock.

- Do not damage, modify, forcibly tug or bend the USB cable, place it under heavy objects, or expose it to heat or flames. Should the insulation be damaged and the wires become exposed, take it to a Nikon-authorized service representative for inspection. Failure to observe these precautions could result in fire or electric shock.
- Do not handle the plug or Charging AC Adapter with wet hands. Failure to observe this precaution could result in electric shock.
- Do not use with travel converters or adapters designed to convert from one voltage to another or with DC-to-AC inverters. Failure to observe this precaution could damage the product or cause overheating or fire.

#### **Use appropriate cables**

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

#### **Handle moving parts with care**

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

#### **CD-ROMs**

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

#### **Using the flash close to your subject's eyes could cause temporary visual impairment.**

The flash should be no less than 1 meter (3 ft 4 in.) from the subject.

Particular care should be observed when photographing infants.

#### **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. Do not use wireless network functions while in the air. Follow the instructions of the hospital when using while in a hospital. The electromagnetic waves emitted by this camera may disrupt the electronic systems of the airplane or the instruments of the hospital. If you are using an Eye-Fi card, remove it from the camera before boarding an aircraft or entering a 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.



**Nikon**

**COOLPIX S6600**

#### **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 electrical and electronic equipment 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.
- Separate collection and recycling helps conserve natural resources and prevent negative consequences for human health and the environment that might result from incorrect disposal.
- 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.

## Wi-Fi (Wireless LAN Network)

This product is controlled by the United States Export Administration Regulations, and you are required to obtain permission from the United States government if you export or re-export this product to any country to which the United States embargoes goods. The following countries were subject to embargo: Cuba, Iran, North Korea, Sudan, and Syria. Since the target countries are subject to change, please contact the United States Department of Commerce for the latest information.

### **Restrictions on Wireless Devices**

The wireless transceiver included in this product conforms to wireless regulations in the country of sale and is not for use in other countries (products purchased in the EU or EFTA can be used anywhere within the EU and EFTA). Nikon does not accept liability for use in other countries. Users who are unsure as to the original country of sale should consult with their local Nikon service center or Nikon-authorized service representative. This restriction applies to wireless operation only and not to any other use of the product.

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

#### **Federal Communications Commission (FCC) and Industry of Canada (IC)**

#### **Declaration of Conformity**

This device complies with Part 15 of FCC Rules and Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of this device.

#### **FCC/IC RF Exposure Statement**

This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

The available scientific evidence does not show that any health problems are associated with using low power wireless devices. There is no proof, however, that these low power wireless devices are absolutely safe. Low power wireless devices emit low levels of radio frequency energy (RF) in the microwave range while being used. Whereas high levels of RF can produce health effects (by heating tissue), exposure of low-level RF that does not produce heating effects causes no known adverse health effects. Many studies of low-level RF exposures have not found any biological effects. Some studies have suggested that some biological effects might occur, but such findings have not been confirmed by additional research.

COOLPIX S6600 (FCC ID:CGJ1150EB/IC ID:4634A-1150EB) has been tested and found to comply with FCC/IC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines in Supplement C to OET65 and RSS-102 of the IC radio frequency (RF) Exposure rules. Please refer to the SAR test report that was uploaded to FCC website.

### **Declaration of Conformity (Europe)**

Hereby, Nikon Corporation, declares that COOLPIX S6600 is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. The declaration of conformity may be consulted at [http://imaging.nikon.com/support/pdf/DoC\\_S6600.pdf](http://imaging.nikon.com/support/pdf/DoC_S6600.pdf).





## Precautions when Using Radio Transmissions











- Always keep in mind that radio transmission or reception of data is subject to interception by third parties. Note that Nikon is not responsible for data or information leaks that may occur during data transfer.
- The operating frequency band of this equipment is used by industrial, scientific, consumer and medical equipment including microwave ovens, premises radio stations for identifying mobile units used in the manufacturing lines of plants (radio stations requiring no license), and amateur radio stations (hereinafter referred to as "another station").
  1. Before using this equipment, confirm that another station is not being operated nearby.
  2. In the event of this equipment causing harmful radio wave interference with another station, promptly change the operating frequency or stop radio wave emission by turning off the power, etc.
  3. If you have further questions, contact a Nikon service center or Nikon authorized service representative.

## Personal Information Management and Disclaimer

































- User information registered and configured on the product, including wireless LAN connection settings and other personal information, is susceptible to alteration and loss resulting from operational error, static electricity, accident, malfunction, repair or other handling. Always keep separate copies of important information. Nikon is not responsible for any direct or indirect damages or lost profits resulting from alteration or loss of content that is not attributable to Nikon.
- Before discarding this product or transferring it to another owner, perform **Reset all** in the setup menu (☐79) to delete all user information registered and configured with the product, including wireless LAN connection settings and other personal information.

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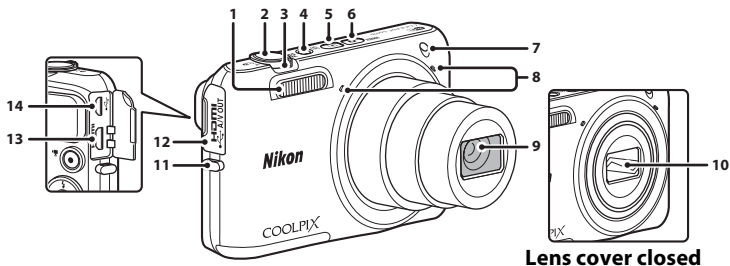
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A series of ten horizontal dashed lines spanning the width of the page, intended for handwriting practice.

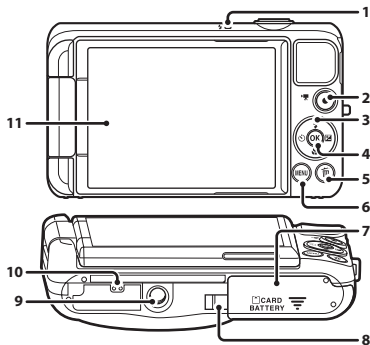
# Parts of the Camera

## The Camera Body



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<b>2</b>	Shutter-release button.....	26
	Zoom control.....	25
	<b>W</b> : wide-angle.....	25
	<b>T</b> : telephoto.....	25
<b>3</b>	: thumbnail playback.....	69
	: playback zoom.....	68
	: help.....	34
<b>4</b>	Power switch/power-on lamp.....	20
<b>5</b>	(playback) button.....	28
<b>6</b>	(shooting mode) button.....	22

<b>7</b>	Self-timer lamp.....	51
	AF-assist illuminator.....	79
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<b>9</b>	Lens	
<b>10</b>	Lens cover	
<b>11</b>	Eyelet for camera strap.....	3
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<b>13</b>	HDMI micro connector (Type D).....	83
<b>14</b>	USB/audio/video output connector.....	83

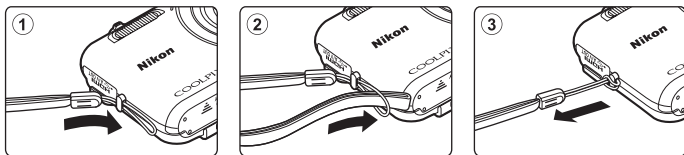


<b>1</b>	Charge lamp.....	13
	Flash lamp.....	49
<b>2</b>	● (●/ movie-record) button.....	72
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<b>9</b>	Tripod socket	
<b>10</b>	Speaker	
<b>11</b>	Monitor.....	3, 6

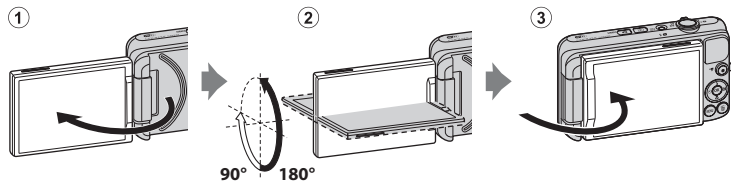


## Attaching the Camera Strap



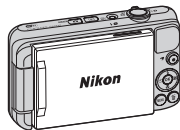
## Opening and Adjusting the Angle of the Monitor

The direction and angle of the monitor on this camera can be adjusted. This is useful when shooting with the camera in a high or low position. In addition, using this feature with **Gesture control** (📖46) makes it easy to take self-portrait images.



For normal shooting, fold the monitor against the back of the camera, facing rearward (③).

To protect the monitor from scratches and dirt while you are carrying or not using the camera, close the monitor so that it is facing inward against the back of the camera.



### ✓ Notes About the Monitor

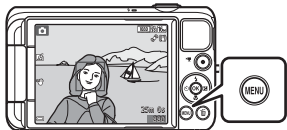
When moving the monitor, do not apply excessive force and make sure to turn it slowly within the adjustable range.

# Using Menus (the MENU Button)

Use the multi selector and **OK** button to navigate the menus.

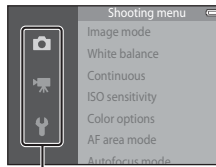
## 1 Press the MENU button.

- The menu is displayed.



## 2 Press the multi selector ◀.

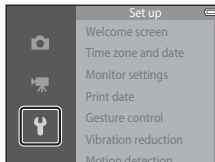
- The current menu icon is displayed in yellow.



Menu icons

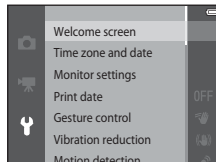
## 3 Select the desired menu icon.

- The menu is changed.

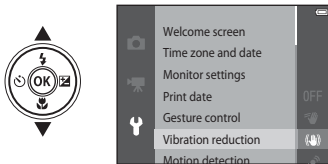


## 4 Press the OK button.

- The menu options become selectable.

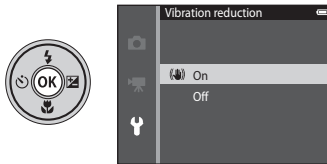


## 5 Select a menu option.



## 6 Press the **OK** button.

- The settings for the option you selected are displayed.



## 7 Select a setting.





## 8 Press the **OK** button.

- The setting you selected is applied.
- When you are finished using the menu, press the **MENU** button.



### Notes About Setting Menu Options

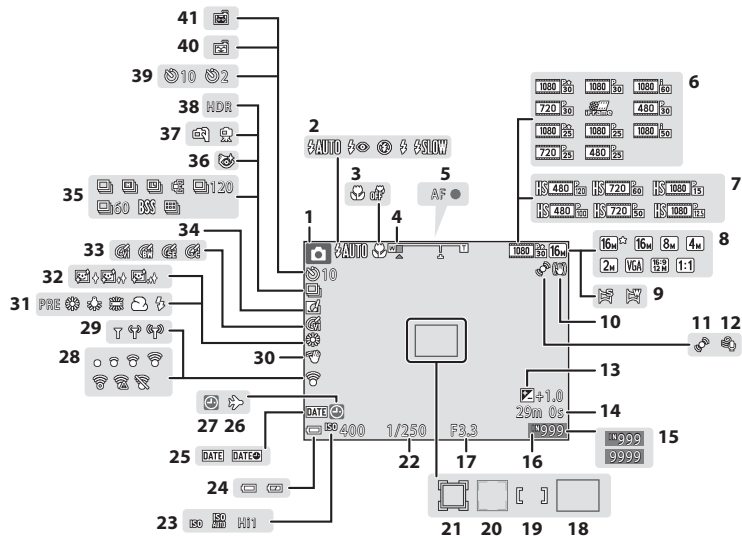
- Certain menu options cannot be set depending on the current shooting mode or the state of the camera. Unavailable options are displayed in gray and cannot be selected.
- When a menu is displayed, you can switch to shooting mode by pressing the shutter-release button,  (shooting mode) button, or  (movie-record) button.






# The Monitor

The information that is displayed in the monitor during shooting and playback changes depending on the camera's settings and state of use.

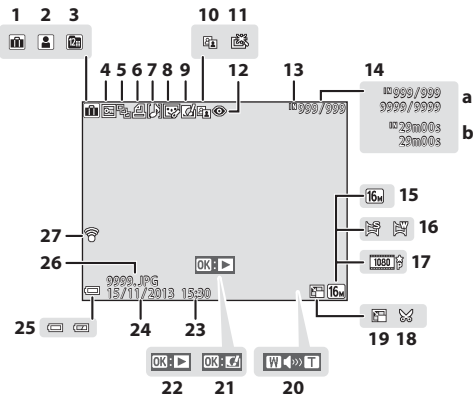
By default, information is displayed when the camera is first turned on and when you operate the camera, and turns off after a few seconds (when **Photo info** is set to **Auto info** in **Monitor settings** (☞78)).

## Shooting Mode



<b>1</b>	Shooting mode.....	22, 23	<b>21</b>	Focus area (subject tracking).....	58,  47
<b>2</b>	Flash mode.....	49	<b>22</b>	Shutter speed.....	27
<b>3</b>	Macro mode.....	53	<b>23</b>	ISO sensitivity.....	58
<b>4</b>	Zoom indicator.....	25, 53	<b>24</b>	Battery level indicator.....	20
<b>5</b>	Focus indicator.....	26	<b>25</b>	Print date.....	78
<b>6</b>	Movie options (normal speed movies) .....	75,  64	<b>26</b>	Travel destination icon.....	 71
<b>7</b>	Movie options (HS movies).....	75,  65	<b>27</b>	“Date not set” indicator.....	16
<b>8</b>	Image mode.....	58,  34	<b>28</b>	Eye-Fi communication indicator.....	79
<b>9</b>	Easy panorama.....	38	<b>29</b>	Wi-Fi communication indicator.....	79
<b>10</b>	Vibration reduction icon.....	78	<b>30</b>	Gesture control.....	46, 78
<b>11</b>	Motion detection icon.....	79	<b>31</b>	White balance mode.....	58
<b>12</b>	Wind noise reduction.....	75	<b>32</b>	Skin softening.....	59
<b>13</b>	Exposure compensation value.....	54	<b>33</b>	Color options.....	58
<b>14</b>	Movie recording time remaining.....	72	<b>34</b>	Quick effects icon.....	45, 58
<b>15</b>	Number of exposures remaining (still images).....	20	<b>35</b>	Continuous shooting mode.....	58
<b>16</b>	Internal memory indicator.....	20	<b>36</b>	Blink proof icon.....	59
<b>17</b>	Aperture value.....	27	<b>37</b>	Hand-held/tripod.....	35, 36
<b>18</b>	Focus area (target finding AF).....	26, 58, 63	<b>38</b>	Backlighting (HDR).....	37
<b>19</b>	Focus area (for manual or center)....	58, 67	<b>39</b>	Self-timer indicator.....	51
<b>20</b>	Focus area (face detection, pet detection).....	39, 42, 58, 64	<b>40</b>	Smile timer.....	59
			<b>41</b>	Pet portrait auto release.....	39

# Playback Mode

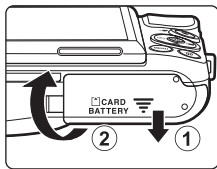


<b>1</b>	Album icon in favorite pictures mode ..... 6	<b>14</b>	(a) Current image number/ total number of images (b) Movie length
<b>2</b>	Category icon in auto sort mode ..... 10	<b>15</b>	Image mode..... 58, 34
<b>3</b>	List by date icon ..... 11	<b>16</b>	Easy panorama .....38
<b>4</b>	Protect icon.....70, 57	<b>17</b>	Movie options ..... 75, 64
<b>5</b>	Sequence display (when <b>Individual pictures</b> is selected) .....71, 63	<b>18</b>	Crop icon.....68, 21
<b>6</b>	Print order icon .....70, 52	<b>19</b>	Small picture icon.....70, 20
<b>7</b>	Voice memo indicator .....70, 60	<b>20</b>	Volume indicator.....76, 60
<b>8</b>	Glamour retouch icon .....70, 18	<b>21</b>	Quick effects guide.....29
<b>9</b>	Quick effects icon .....29, 45, 15		Easy panorama playback guide...38, 5
<b>10</b>	D-Lighting icon .....70, 16	<b>22</b>	Sequence playback guide .....71, 12
<b>11</b>	Quick retouch icon.....70, 16		Movie playback guide .....76
<b>12</b>	Red-eye correction .....70, 17	<b>23</b>	Time of recording
<b>13</b>	Internal memory indicator.....20	<b>24</b>	Date of recording
		<b>25</b>	Battery level indicator .....20
		<b>26</b>	File number and type..... 94
		<b>27</b>	Eye-Fi communication indicator .....79, 87

# The Basics of Shooting and Playback

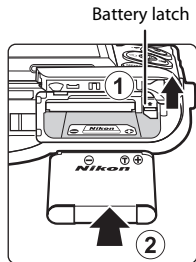
## Preparation 1 Insert the Battery

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



- 2 Insert the battery.

- Push the orange battery latch in the direction indicated by the arrow (1), and fully insert the battery (2).
- The battery locks into place when inserted correctly.



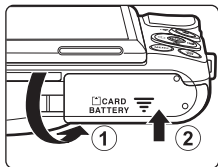
- ✓ Be Careful to Insert the Battery in Correct Direction**

*Inserting the battery upside down or backwards could damage the camera.*





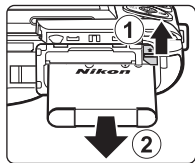
- 3** Close the battery-chamber/memory card slot cover.



## Removing the Battery

Turn the camera off and make sure that the power-on lamp and the monitor have turned off, and then open the battery-chamber/memory card slot cover.

Move the battery latch in the direction indicated by the arrow (1) to eject the battery (2).



## High Temperature Caution

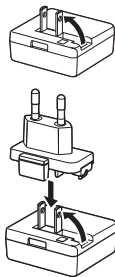
The camera, battery, and memory card may be hot immediately after using the camera.

## Preparation 2 Charge the Battery

### 1 Prepare the included Charging AC Adapter.

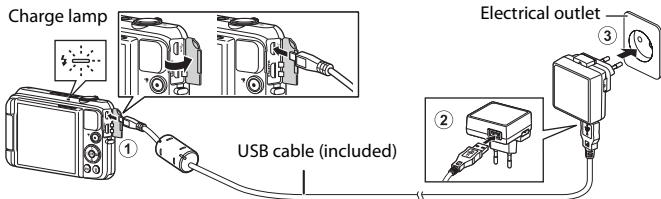
If a plug adapter\* is included with your camera, attach the plug adapter to the plug on the Charging AC Adapter. Push the plug adapter firmly until it is securely held in place. Once the two are connected, attempting to forcibly remove the plug adapter could damage the product.

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

- Keep the camera turned off.
- Make sure that the plugs are properly oriented. Do not insert or remove the plugs at an angle when connecting or disconnecting them.






- The charge lamp slowly flashes green to indicate that the battery is charging.
- Shooting is not possible while the camera is connected to the Charging AC Adapter.

Charge lamp	Description
Flashes slowly (green)	The battery is charging.
Off	When charging is complete, the charge lamp stops flashing green and turns off. About 3 hours are required to charge a fully exhausted battery.
Flashes quickly (green)	<ul style="list-style-type: none"> <li>The ambient temperature is not suited to charging. Charge the battery indoors with an ambient temperature of 5°C to 35°C (41°F to 95°F).</li> <li>The USB cable or Charging AC Adapter is not properly connected, or there is a problem with the battery. Disconnect the USB cable or unplug the Charging AC Adapter and correctly connect it again, or change the battery.</li> </ul>

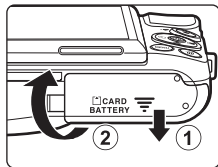
### 3 Disconnect the Charging AC Adapter from the electrical outlet and then disconnect the USB cable.

#### Charging Using a Computer or Battery Charger

- You can also charge the battery by connecting the camera to a computer (83, 83).
- You can use the Battery Charger MH-66 (available separately; 95) to charge the battery without using the camera.

## Preparation 3 Insert a Memory Card

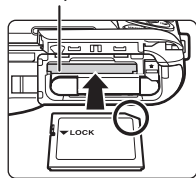
- 1 Turn off the camera and open the battery-chamber/memory card slot cover.



- 2 Insert the memory card.

- Slide the memory card in until it clicks into place.

Memory card slot

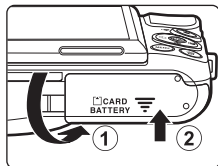


- Be Careful to Insert the Memory Card in Correct Direction**

*Inserting the memory card upside down or backwards could damage the camera and the memory card.*



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



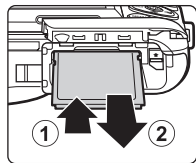
## ✓ Formatting Memory Cards

The first time you insert a memory card that has been used in another device into this camera, make sure to format it with this camera. Insert the card into the camera, press the **MENU** button, and select **Format card** in the setup menu.

## Removing Memory Cards

Turn the camera off and make sure that the power-on lamp and the monitor have turned off, and then open the battery-chamber/memory card slot cover.

Gently push the memory card into the camera (①) to partially eject the card (②).



## ✓ High Temperature Caution


The camera, battery, and memory card may be hot immediately after using the camera.

## Internal Memory and Memory Cards

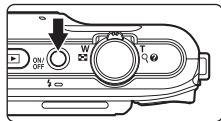
Camera data, including images and movies, can be saved either in the camera's internal memory or on a memory card. To use the camera's internal memory, first remove the memory card.




## Preparation 4 Setting the Display Language, Date, and Time

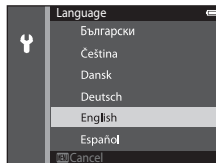
When the camera is turned on for the first time, the language-selection screen and the date and time setting screen for the camera clock are displayed.

- If you exit without setting the date and time,  will flash when the shooting screen is displayed.

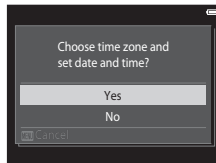
- 1 Press the power switch to turn on the camera.



- 2 Use the multi selector   to select the desired language and press the  button.

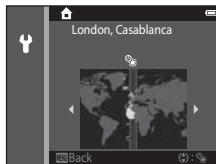


- 3 Select **Yes** and press the  button.

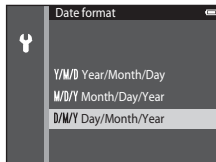


#### 4 Select your home time zone and press the **OK** button.

- To enable daylight saving time, press ▲.
- When the daylight saving time function is enabled, ☀ is displayed above the map.
- To turn off the daylight saving time function, press ▼.

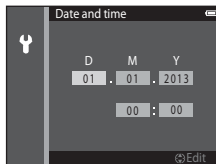


#### 5 Select the date format and press the **OK** button.



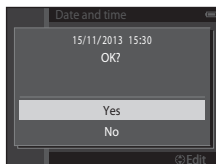
#### 6 Set the date and time, and press the **OK** button.

- Select a field: Press ◀▶ (changes between **D**, **M**, **Y**, hour, and minute).
- Edit the date and time: Press ▲▼.
- Confirm the setting: Select the minute field and press the **OK** button.









#### 7 Select **Yes** and press the **OK** button.


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





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

- You can change these settings using the **Language** and **Time zone and date** settings in the  setup menu (78).
- You can enable or disable daylight saving time in the  setup menu by selecting **Time zone and date** followed by **Time zone**. Press the multi selector  and then  to enable daylight saving time and move the clock forward one hour, or  to disable daylight saving time and move the clock back one hour.

## The Clock Battery

- The camera's clock is powered by a built-in backup battery.  
The backup battery charges when the main battery is inserted into the camera or when the camera is connected to an optional AC adapter, and it can run the clock for several days after about ten hours of charging.
- If the camera's backup battery becomes exhausted, the date and time setting screen is displayed when the camera is turned on. Set the date and time again. See step 3 (16) of "Preparation 4 Setting the Display Language, Date, and Time" for more information.

## Imprinting the Shooting Date on Printed Images

- You can permanently imprint the shooting date on images as they are captured by setting **Print date** in the setup menu (78).
- If you want the shooting date to be printed without using the **Print date** setting, print using the ViewNX 2 software (85).



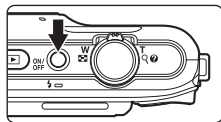


A series of ten horizontal dashed lines spanning the width of the page, intended for handwriting practice.

# Step 1 Turn the Camera On

## 1 Press the power switch.

- The monitor turns on.
- To turn the camera off, press the power switch again.

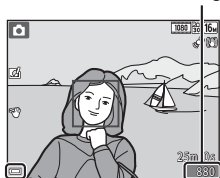


## 2 Check the battery level indicator and the number of exposures remaining.

### Battery level indicator

Display	Description
	The battery level is high.
	The battery level is low.
 <b>Battery exhausted.</b>	The camera cannot capture images. Recharge the battery.

### Number of exposures remaining



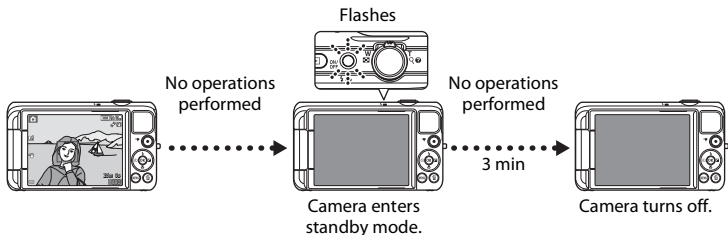
Battery level indicator




### Number of Exposures Remaining

The number of images that can be taken is displayed.

- is displayed when no memory card is inserted in the camera, and images are saved in the internal memory.

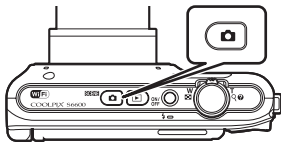
## The Auto Off Function







- The time that elapses before the camera enters standby mode is about one minute. The time can be changed using the **Auto off** setting in the setup menu (p.78).
- While the camera is in standby mode, the monitor turns back on if you perform any of the following operations or open the monitor:
  - Press the power switch, shutter-release button,  (shooting mode) button,  (playback) button, or  (movie-record) button

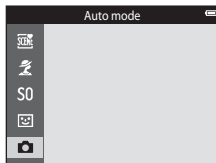
## Step 2 Select a Shooting Mode

- 1 Press the  button.












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

-  (auto) mode is used in this example.
- The shooting mode setting is saved even after the camera is turned off.



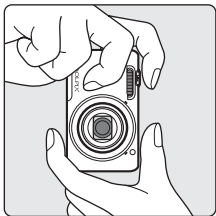
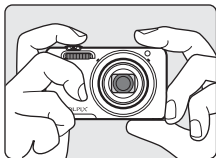
## Available Shooting Modes

	<b>Scene auto selector</b>  32
	The camera automatically selects the optimum scene mode when you frame an image, making it even easier to take images using settings that suit the scene.
	<b>Scene mode</b>  34
	Camera settings are optimized according to the scene that you select.
<b>S0</b>	<b>Special effects</b>  40
	Effects can be applied to images during shooting.
	<b>Smart portrait</b>  42
	When the camera detects a smiling face, you can take an image automatically without pressing the shutter-release button (smile timer). You can also use the skin softening option to smooth the skin tones of human faces.
	<b>Auto mode</b>  44
	Used for general shooting. Settings can be adjusted to suit the shooting conditions and the type of shot you want to capture.

## Step 3 Frame a Picture

### 1 Hold the camera steady.


- Keep fingers and other objects away from the lens, flash, AF assist-illuminator, microphone, and speaker.
- When taking pictures in portrait (“tall”) orientation, turn the camera so that the flash is above the lens.



### 2 Frame the picture.



## When Using a Tripod

- We recommend using a tripod to stabilize the camera in the following situations.
  - When shooting in dim lighting
  - When shooting with the flash mode (📖50) set to  (off)
  - When using the telephoto setting
- When using a tripod to stabilize the camera during shooting, set **Vibration reduction** to **Off** in the setup menu (📖78) to prevent potential errors caused by this function.

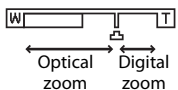
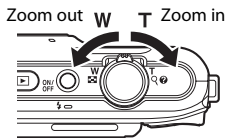
## Using the Zoom

When you move the zoom control, the zoom lens position changes.



- To zoom in closer to the subject: Move toward **T** (telephoto)
- To zoom out and view a larger area: Move toward **W** (wide-angle)

When you turn the camera on, the zoom moves to the maximum wide-angle position.

- A zoom indicator is displayed at the top of the monitor when the zoom control is moved.
- Digital zoom, which allows you to further magnify the subject up to approximately 4× the maximum optical zoom ratio, can be activated by moving and holding the zoom control toward **T** when the camera is zoomed in to the maximum optical zoom position.



## Digital Zoom and Interpolation

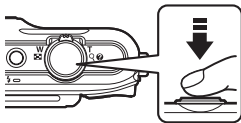
While using digital zoom, the image quality decreases due to interpolation when the zoom is increased beyond the  position. The position of  moves to the right as the size of an image decreases.



## Step 4 Focus and Shoot

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

- When the subject is in focus, the focus area glows green (multiple focus areas can glow green).
- When you are using digital zoom, the camera focuses on the subject in the center of the frame and the focus area is not displayed. When the camera has focused, the focus indicator (📖7) glows green.
- If the focus area or focus indicator flashes red, the camera is unable to focus. Modify the composition and try pressing the shutter-release button halfway again.

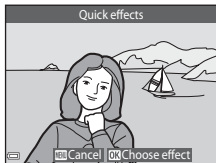


### 2 Without lifting your finger, press the shutter-release button the rest of the way down.





### 3 To apply an effect to the captured image, press the **OK** button.

- The screen for selecting an effect is displayed. See “Using Quick Effects” (📖45) for more information.
- When you press the **MENU** button or when no operations are performed for about five seconds, the monitor display returns to the shooting screen.
- To not display the screen shown on the right, set **Quick effects** to **Off** in the shooting menu (📖57).





## The Shutter-release Button


<p>Press halfway</p> 	<p>To set focus and exposure (shutter speed and aperture value), press the shutter-release button lightly until you feel a slight resistance. Focus and exposure remain locked while the shutter-release button is pressed halfway.</p>
<p>Press all the way</p> 	<p>Press the shutter-release button all the way to release the shutter and take an image. Do not use force when pressing the shutter-release button, as this may result in camera shake and blurred images. Press the button gently.</p>

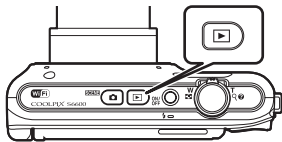
### Notes About Saving Images and Recording Movies

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






## Step 5 Play Back Images

### 1 Press the (playback) button.

- If you press and hold down the  (playback) button while the camera is turned off, the camera turns on in playback mode.



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

- Press and hold down  to scroll through the images quickly.
- To return to shooting mode, press the  button or shutter-release button.




Display the previous image



Display the next image




## Notes About the Quick Effects Function




- When **OK**:  is displayed in full-frame playback mode, you can press **OK** button to apply an effect to the image.
- When the effect selection screen is displayed, use the multi selector  to select an effect, press the **OK** button, and then select **Yes** in the confirmation dialog and press the **OK** button to save the image as a separate file.  
See "Quick Effects: Changing Hue or Mood" ( 15) for more information.



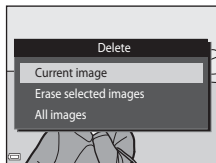
## Step 6 Delete Images


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




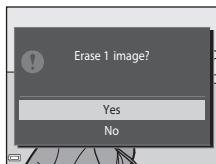
- 2** Use the multi selector   to select the desired deletion method and press the  button.

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



- 3** Select **Yes** and press the  button.

- Deleted images cannot be recovered.
- To cancel, select **No** and press the  button.



## Operating the Erase Selected Images Screen

**1** Use the multi selector ◀▶ to select an image to be deleted, and then use ▲ to display 🗑️.

- To undo the selection, press ▼ to remove 🗑️.
- Move the zoom control (📐1) toward T (📄) to switch to full-frame playback or W (🖼️) to switch to thumbnail playback.



**2** Add 🗑️ to all images that you want to delete and then press the OK button to confirm the selection.

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

### ✓ Deleting Images in a Sequence

- If you press the 🗑️ button and delete a key picture while only key pictures are displayed for sequences of images (📖71), all images in the sequence, including the key picture, are deleted.
- To delete individual images in a sequence, press the OK button to display them one at a time and press the 🗑️ button.




### 📎 Deleting the Last Image Captured While in Shooting Mode

When using shooting mode, press the 🗑️ button to delete the last image that was saved.











# Shooting Features


## SCENE (Scene Auto Selector) Mode

The camera automatically selects the optimum scene mode when you frame an image, making it even easier to take images using settings that suit the scene.




Enter shooting mode →  (shooting mode) button →  (scene auto selector) mode →  button

- When you point the camera at the subject, the camera automatically selects the optimum scene mode from the list below and adjusts the shooting settings accordingly.




	Portrait (for taking close-up portraits of one or two people)
	Portrait (for taking portraits of three or more people, or framing images with a large background size)
	Landscape
	Night portrait (for taking close-up portraits of one or two people)
	Night portrait (for taking portraits of three or more people, or framing images with a large background size)
	Night landscape
	Close-up
	Backlighting (for taking images of subjects other than people)
	Backlighting (for taking portrait images)
	Other scenes

- The focus area depends on the composition of the image. When the camera detects a human face, it focuses on that face (64).

## **Selecting Scene Modes**









- When using digital zoom,  is selected as the shooting scene mode.
- In some shooting conditions, the camera may not select the appropriate scene mode that you intended. If this happens, switch to  (auto) mode or select the scene mode that you want to use when taking images (22).

## **Functions Available in (Scene Auto Selector) Mode**


















- Flash mode (49)
- Self-timer (51)
- Exposure compensation (54)

## Scene Mode (Shooting Suited to Scenes)

When a scene is selected, camera settings are automatically optimized for the selected scene.

Enter shooting mode →  (shooting mode) button →  (second icon from the top\*)  
→      → select a scene →  button

\* The icon of the last scene selected is displayed.

 Portrait (default setting)	 Landscape <sup>1</sup>	 Sports <sup>2</sup> (📖35)	 Night portrait (📖35)
 Party/indoor <sup>2</sup> (📖35)	 Beach <sup>2</sup>	 Snow <sup>2</sup>	 Sunset <sup>2, 3</sup>
 Dusk/dawn <sup>1, 3</sup>	 Night landscape <sup>1</sup> (📖36)	 Close-up (📖36)	 Food (📖36)
 Museum <sup>2</sup> (📖37)	 Fireworks show <sup>1, 3</sup> (📖37)	 Black and white copy <sup>2</sup> (📖37)	 Backlighting <sup>2</sup> (📖37)
 Easy panorama (📖38)	 Pet portrait (📖39)		

<sup>1</sup> The camera focuses at infinity.

<sup>2</sup> The camera focuses on the area in the center of the frame.

<sup>3</sup> Use of a tripod is recommended, because the shutter speed is slow. Set **Vibration reduction** to **Off** in the setup menu (📖78) when using a tripod to stabilize the camera during shooting.

### To View a Description (Help Display) of Each Scene

Select a scene and move the zoom control (📖1) toward **T** (🔍) to view a description of that scene. To return to the original screen, move the zoom control toward **T** (🔍) again.








## Tips and Notes


### Sports

- While the shutter-release button is held all the way down, the camera shoots up to about 6 images continuously at a rate of about 2 fps (when image mode is set to **16M**).
- The frame rate for continuous shooting may vary depending upon the current image mode setting, the memory card used, or shooting condition.
- Focus, exposure, and hue are fixed at the values determined with the first image in each series.




### Night portrait

- From the screen displayed after  **Night portrait** is selected, select **Hand-held** or **Tripod**.
- **Hand-held** (default setting):
  - When the  icon at the top left of the monitor glows green, press the shutter-release button all the way to capture a series of images which are combined into a single image and saved.
  - Once the shutter-release button is pressed all the way, hold the camera still until a still image is displayed. After taking an image, do not turn the camera off before the monitor switches to the shooting screen.
  - If the subject moves while the camera is shooting continuously, the image may be distorted, overlapped, or blurred.
- **Tripod**:
  - One image is captured at a slow shutter speed when the shutter-release button is pressed all the way.
  - Vibration reduction is disabled even when **Vibration reduction** (78) in the setup menu is set to **On**.





### Party/indoor

- To avoid the effects of camera shake, hold the camera steady. Set **Vibration reduction** to **Off** in the setup menu (78) when using a tripod to stabilize the camera during shooting.






## Night landscape

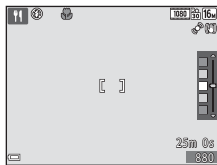
- From the screen displayed after  **Night landscape** is selected, select **Hand-held** or **Tripod**.
- Hand-held** (default setting):
  - When the  icon at the top left of the monitor glows green, press the shutter-release button all the way to capture a series of images which are combined into a single image and saved.
  - Once the shutter-release button is pressed all the way, hold the camera still until a still image is displayed. After taking an image, 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 is narrower than that seen in the monitor at the time of shooting.
- Tripod**:
  - One image is captured at a slow shutter speed when the shutter-release button is pressed all the way.
  - Vibration reduction is disabled even when **Vibration reduction** (78) in the setup menu is set to **On**.

## Close-up

- Macro mode (53) is enabled and the camera automatically zooms to the closest position at which it can focus.
- You can move the focus area. Press the  button, use the multi selector  to move the focus area, and press the  button to apply the setting.

## Food

- Macro mode (53) is enabled and the camera automatically zooms to the closest position at which it can focus.
- You can adjust hue by using the multi selector . The hue setting is saved in the camera's memory even after the camera is turned off.
- You can move the focus area. Press the  button, use the multi selector  to move the focus area, and press the  button to apply the setting.



## Museum

- The camera captures a series of up to ten images while the shutter-release button is held all the way down, and the sharpest image in the series is automatically selected and saved (BSS (Best Shot Selector)).
- The flash does not fire.



## Fireworks show

- The shutter speed is fixed at about four seconds.
- The zoom is restricted to four fixed positions.




## Black and white copy

- Use together with macro mode (53) when shooting subjects that are close to the camera.

## Backlighting

- From the screen displayed after  **Backlighting** is selected, select **On** or **Off** to enable or disable the high dynamic range (HDR) function based on the type of image you want to take.
- **Off** (default setting): The flash fires to prevent the subject from being hidden in shadow.
  - When the shutter-release button is pressed all the way down, one image is captured.
- **On**: Use when taking images with very bright and dark areas in the same frame.
  - When the shutter-release button is pressed all the way, the camera shoots images continuously at high speed, and saves the following two images.
    - A non-HDR composite image
    - An HDR composite image in which the loss of details in highlights or shadows is minimized
  - If there is only enough memory to save one image, an image processed by D-Lighting (70) at the time of shooting, in which dark areas of the image are corrected, is the only image saved.
  - Once the shutter-release button is pressed all the way, hold the camera still until a still image is displayed. After taking an image, 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 is narrower than that seen in the monitor at the time of shooting.


## Easy panorama

- From the screen displayed after  **Easy panorama** is selected, select the shooting range from **Normal (180°)** or **Wide (360°)**.
  - The zoom position is fixed at wide-angle.
  - Press the shutter-release button all the way down, remove your finger from the button, and then slowly pan the camera horizontally. Shooting ends when the camera captures the specified shooting range.
  - Focus and exposure are locked when shooting starts.
  - If you press the  button when a captured image is displayed in full-frame playback mode, the image scrolls automatically.
  - The images cannot be edited on this camera.
- See "Using Easy Panorama (Shooting and Playback)" () for more information.



### **Notes About Printing Panorama Images**

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.

## Pet portrait

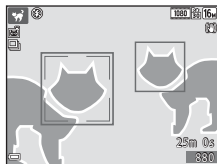
- When you point the camera at a dog or cat, the camera detects the pet's face and focuses on it. By default, the shutter is automatically released when focus is acquired (pet portrait auto release).
- From the screen displayed after  **Pet portrait** is selected, select **Single** or **Continuous**.
  - **Single**: Whenever the detected face is in focus, the camera captures one image.
  - **Continuous**: Whenever the detected face is in focus, the camera captures three images continuously.

## **Pet Portrait Auto Release**

- Press the multi selector  to change the **Pet portrait auto release** settings.
  - : The camera detects a dog or cat face and automatically releases the shutter when the detected face is in focus.
  - **OFF**: The camera does not release the shutter automatically, even if a dog or cat face is detected. Press the shutter-release button. The camera also detects human faces when **OFF** is selected.
- **Pet portrait auto release** is set to **OFF** after five bursts have been taken.
- Shooting is also possible by pressing the shutter-release button, regardless of the **Pet portrait auto release** setting. When **Continuous** is selected, you can take images continuously while holding down the shutter-release button all the way.







## **Focus Area**

- When the camera detects a face, the face is displayed inside a yellow border. When the camera acquires focus on a face displayed inside a double border (focus area), the double border turns green. If no faces are detected, the camera focuses on the subject in the center of the frame.
- In some shooting conditions, the pet face may not be detected and other subjects may be displayed inside a border.












## Special Effects Mode (Applying Effects When Shooting)

Effects can be applied to images during shooting.

Enter shooting mode →  (shooting mode) button → S0 (third icon from the top\*) →  →    → select an effect → 

\* The icon of the last effect selected is displayed.

Category	Description
S0 Soft* (default setting)	Softens the image by adding a slight blur to the entire image.
SE Nostalgic sepia*	Adds a sepia tone and reduces the contrast to simulate the qualities of an old photograph.
 High-contrast monochrome	Changes the image to black and white and gives it sharp contrast.
 High 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.
POP Pop	Increases the color saturation of the entire image to create a bright look.
VI Super vivid	Increases the color saturation of the entire image and sharpens the contrast.
 Painting	Gives the image a painting-like appearance.
 1 Toy camera effect 1	Gives the entire image a yellowish hue and darkens the image periphery.
 2 Toy camera effect 2	Decreases the color saturation of the entire image and darkens the image periphery.
 Cross process	Gives the image a mysterious appearance based on a specific color.
 Mirror*	Creates a bilaterally symmetric image whose right half is an inverted mirror image of the left half.

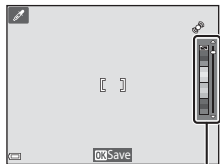
\* Some effects are not available when using certain **Movie options** (75) settings.

- The camera focuses on the area in the center of the frame.
- When **Selective color** or **Cross process** is selected, use the multi selector ▲▼ to select the desired color from the slider.

To change settings for any of the following functions, press the **OK** button to cancel color selection.

- Flash mode (📖49)
- Self-timer (📖51)
- Macro mode (📖53)
- Exposure compensation (📖54)

To return to the color selection screen, press the **OK** button again.



Slider

# Smart Portrait Mode (Capturing Images of Smiling Faces)

When the camera detects a smiling face, you can take an image automatically without pressing the shutter-release button (smile timer (📖59)). You can use the skin softening option to smooth the skin tones of human faces.

Enter shooting mode → 📷 (shooting mode) button → 😊 Smart portrait mode → ⓧ button

## 1 Frame the picture.

- Point the camera at a human face.

## 2 Without pressing the shutter-release button, wait for the subject to smile.

- If the camera detects that the face framed by the double border is smiling, the shutter is automatically released.
- Whenever the camera detects a smiling face, it automatically releases the shutter.

## 3 End automatic shooting.

- Perform one of the operations listed below to end shooting.
  - Set **Smile timer** to **Off**.
  - Press the 📷 button and select a different shooting mode.

### ✔ Notes About Smart Portrait Mode





Under some shooting conditions, the camera may be unable to detect faces or detect smiles (📖64). The shutter-release button can also be used for shooting.



## **When the Self-timer Lamp Flashes**

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



## **Functions Available in Smart Portrait Mode**

- Flash mode ( 49)
- Self-timer ( 51)
- Exposure compensation ( 54)
- Smart portrait menu ( 57)






## (Auto) Mode

Used for general shooting. Settings can be adjusted to suit the shooting conditions and the type of shot you want to capture.

Enter shooting mode →  (shooting mode) button →  (auto) mode →  button

- You can change how the camera selects the area of the frame to focus on by changing the **AF area mode** setting ( 58).  
The default setting is **Target finding AF** ( 63).



### Functions Available in (Auto) Mode


- Flash mode ( 49)
- Self-timer ( 51)
- Macro mode ( 53)
- Exposure compensation ( 54)
- Shooting menu ( 57)

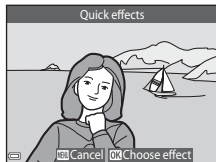
## Using Quick Effects

When in  (auto) mode, you can apply effects to images immediately after releasing the shutter.






- The edited image is saved as a separate file with a different name.

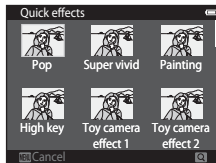
**1** Press the  button when the image is displayed after it is taken in  (auto) mode.


- When you press the **MENU** button or when no operations are performed for about five seconds, the monitor display returns to the shooting screen.
- To not display the screen shown on the right, set **Quick effects** to **Off** in the shooting menu (57).



**2** Use the multi selector    to select the desired effect and press the  button.

- Move the zoom control (1) toward **T** () to switch to full-frame playback or **W** () to switch to thumbnail playback.
- To exit without saving the edited image, press the **MENU** button. When a confirmation screen is displayed, select **Yes** and press the  button.
- See "Quick Effects: Changing Hue or Mood" (15) for information about the effect types.




**3** Select **Yes** and press the  button.

# Using the Self-timer with Gesture Control

When you position the monitor facing forward in the same direction as the camera lens and move your hand toward an icon displayed on the monitor, the shutter is released after a countdown. You can also move your hand toward the other icons to control the zoom position or record a movie. This function is useful when taking self-portrait images or shooting from a short distance.







This function is available in **Portrait** and **Night portrait** scene modes, smart portrait mode, and  (auto) mode.

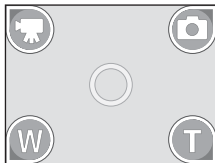
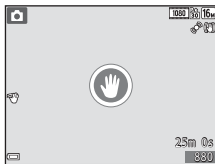
## 1 Open the monitor and face it forward in the same direction as the camera lens ( 3).

- A message is displayed for about five seconds, and then  (palm detection) is displayed in the center of the frame.



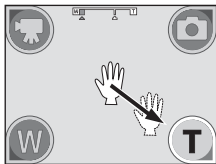
## 2 Hold up your hand and align it with in the center of the frame.

- When the camera detects your palm,  changes to  and the icons listed below are displayed in the four corners of the frame.
  - : The camera captures a still image.
  - : The camera starts recording a movie.
  - : The camera zooms out (wide-angle).
  - : The camera zooms in (telephoto).



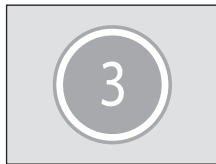
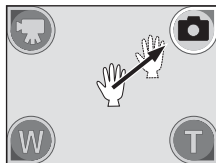
### 3 Frame the picture.

- To adjust the zoom position, move your hand toward **W** (wide-angle) or **T** (telephoto). The zoom position changes one step at a time.
- If the camera is unable to detect your palm, try step 2 again.



### 4 Take the picture.

- When you move your hand toward **📷** (to take a still image) or **📹** (to record a movie), the camera releases the shutter after a countdown (about three seconds).
- To end movie recording, press the **●** (📹 movie-record) button on the camera body. See **📖 Cutting Unwanted Scenes from Recorded Movies** (📖77).
- When shooting ends, the screen shown in step 2 is displayed again.

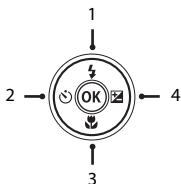








### 📌 Notes About Gesture Control

- The camera may not detect your palm or hand movement in some shooting conditions.
- When moving your hand, hold up your palm vertically facing the camera, and maintain the same hand shape as you move it.
- Some functions are not available when using the gesture control function (📷76).

## Functions That Can Be Set Using the Multi Selector

The functions that are available vary with the shooting mode, as shown below.



		 (scene auto selector)	Scene	Special effects	Smart portrait	 (auto)
1	 Flash mode ( <a href="#">book 49</a> )	✓*	*	✓	✓*	✓
2	 Self-timer ( <a href="#">book 51</a> )	✓		✓	✓*	✓
3	 Macro ( <a href="#">book 53</a> )	–		✓	–	✓
4	 Exposure compensation ( <a href="#">book 54</a> )	✓		✓	✓	✓

\* Availability depends on the setting.

## Using the Flash

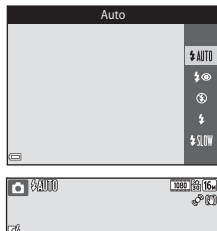
You can select the flash mode to match the shooting conditions.

- 1 Press the multi selector ▲ (⚡).



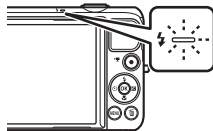
- 2 Select the desired flash mode (📖50) and press the OK button.

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



### ✓ The Flash Lamp

- The status of the flash can be confirmed by pressing the shutter-release button halfway.
  - On: The flash fires when you press the shutter-release button all the way down.
  - Flashing: The flash is charging. The camera cannot shoot images.
  - Off: The flash does not fire when an image is taken.
- If the battery level is low, the monitor turns off while the flash is charging.



## Available Flash Modes

### AUTO Auto

The flash fires when necessary, such as in dim lighting.

- The flash mode icon on the shooting screen is displayed only immediately after the setting is made.

### Auto with red-eye reduction

Reduce “red-eye” in portraits caused by the flash.

### Off

The flash does not fire.

- We recommend using a tripod to stabilize the camera when shooting in dark surroundings.

### Fill flash


The flash fires whenever an image is taken. Use to “fill-in” (illuminate) shadows and backlit subjects.

### SLOW Slow sync

Suited to evening and night portraits that include background scenery.

The flash fires when necessary to illuminate the main subject; slow shutter speeds are used to capture background at night or under dim lighting.

## The Flash Mode Setting

- The setting may not be available with some shooting modes.
- The setting applied in  (auto) mode is saved in the camera’s memory even after the camera is turned off.

## Red-eye Reduction

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

Note the following when shooting:

- More time than usual is required to save images.
- Red-eye reduction may not produce the desired results in all situations.
- In some rare cases, red-eye reduction may be applied unnecessarily to other areas of the image. In these cases, select another flash mode and take the image again.



## Using the Self-timer

The camera is equipped with a self-timer that releases the shutter about ten seconds or two seconds after you press the shutter-release button.

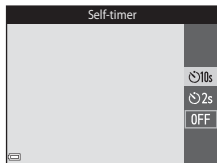
Set **Vibration reduction** to **Off** in the setup menu (📖78) when using a tripod to stabilize the camera during shooting.

**1** Press the multi selector ◀ (⌚).



**2** Select ⌚ 10s or ⌚ 2s, and press the Ⓚ button.

- ⌚ 10s (ten seconds): Use on important occasions, such as weddings.
- ⌚ 2s (two seconds): Use to prevent camera shake.
- If a setting is not applied by pressing the Ⓚ button within a few seconds, the selection will be canceled.
- When the shooting mode is **Pet portrait** scene mode, 🐾 (pet portrait auto release) is displayed (📖39). The self-timer cannot be used.



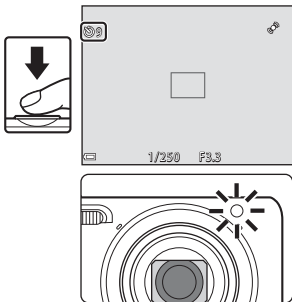
**3** Frame the picture and press the shutter-release button halfway.

- Focus and exposure are set.



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

- Countdown starts. The self-timer lamp flashes and then glows steadily about one second before the shutter is released.
- When the shutter is released, the self-timer is set to **OFF**.
- To stop the countdown, press the shutter-release button again.



# Using Macro Mode

Use macro mode when taking close-up images.

- 1 Press the multi selector ▼ (👉).



- 2 Select **ON** and press the **OK** button.

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



- 3 Move the zoom control to set the zoom ratio to a position where 📷 and the zoom indicator glow green.



- When the zoom ratio is set to a position where the zoom indicator glows green, the camera can focus on subjects as close as approximately 10 cm (4 in.) from the lens.  
When the zoom is at the position where 📷 is displayed, the camera can focus on subjects as close as approximately 2 cm (0.8 in.) from the lens.

## 👍 Notes About Using the Flash

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

## 📎 The Macro Mode Setting

- The setting may not be available with some shooting modes.
- The setting applied in 📷 (auto) mode is saved in the camera's memory even after the camera is turned off.

# Adjusting Brightness (Exposure Compensation)

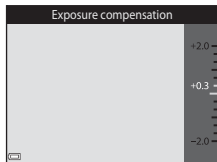
You can adjust overall image brightness.

- 1 Press the multi selector ► (⊞).




- 2 Select a compensation value and press the OK button.

- To brighten the image, set a positive (+) value.
- To darken the image, set a negative (-) value.
- The compensation value is applied, even without pressing the OK button.



























































## Exposure Compensation Value


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

## Default Settings

Default settings for each shooting mode are described below.

	Flash (  49)	Self-timer (  51)	Macro (  53)	Exposure compensation (  54)
 (scene auto selector)	 AUTO <sup>1</sup>	Off	Off <sup>2</sup>	0.0
Scene				
 (portrait)	 	Off	Off <sup>3</sup>	0.0
 (landscape)	 <sup>3</sup>	Off	Off <sup>3</sup>	0.0
 (sports)	 <sup>3</sup>	Off <sup>3</sup>	Off <sup>3</sup>	0.0
 (night portrait)	  <sup>4</sup>	Off	Off <sup>3</sup>	0.0
 (party/indoor)	  <sup>5</sup>	Off	Off <sup>3</sup>	0.0
 (beach)	 AUTO	Off	Off <sup>3</sup>	0.0
 (snow)	 AUTO	Off	Off <sup>3</sup>	0.0
 (sunset)	 <sup>3</sup>	Off	Off <sup>3</sup>	0.0
 (dusk/dawn)	 <sup>3</sup>	Off	Off <sup>3</sup>	0.0
 (night landscape)	 <sup>3</sup>	Off	Off <sup>3</sup>	0.0
 (close-up)		Off	On <sup>3</sup>	0.0
 (food)	 <sup>3</sup>	Off	On <sup>3</sup>	0.0
 (museum)	 <sup>3</sup>	Off	Off	0.0
 (fireworks show)	 <sup>3</sup>	Off <sup>3</sup>	Off <sup>3</sup>	0.0 <sup>3</sup>
 (black and white copy)		Off	Off	0.0

	Flash (  49)	Self-timer (  51)	Macro (  53)	Exposure compensation (  54)
 (backlighting)	 /  <sup>6</sup>	Off	Off <sup>3</sup>	0.0
 (easy panorama)	 <sup>3</sup>	Off <sup>3</sup>	Off <sup>3</sup>	0.0
 (pet portrait)	 <sup>3</sup>	 <sup>7</sup>	Off	0.0
<b>SO</b> (special effects)	 <sup>3</sup>	Off	Off	0.0
 (smart portrait)	 AUTO <sup>8</sup>	Off <sup>9</sup>	Off <sup>3</sup>	0.0
 (auto)	 AUTO	Off	Off	0.0



<sup>1</sup> The camera automatically selects the flash mode appropriate for the scene it has selected.  (off) can be selected manually.


<sup>2</sup> Cannot be changed. The camera enters macro mode when  is selected.

<sup>3</sup> The setting cannot be changed.

<sup>4</sup> The setting cannot be changed. The flash mode setting is fixed at fill flash with red-eye reduction.

<sup>5</sup> Slow sync with red-eye reduction flash mode may be used.

<sup>6</sup> Flash is fixed at  (fill flash) when **HDR** is set to **Off**, and is fixed at  (off) when **HDR** is set to **On**.

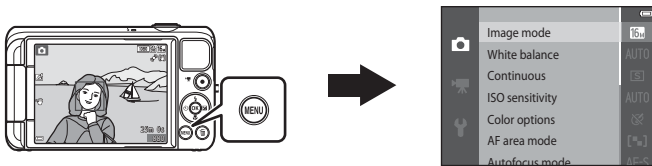
<sup>7</sup> Self-timer cannot be used. Pet portrait auto release can be turned on or off (39).

<sup>8</sup> Cannot be used when **Blink proof** is set to **On** or when **Smile timer** is set to **On (continuous)** or **On (BSS)**.

<sup>9</sup> Can be set when **Smile timer** is set to **Off**.

## Functions That Can Be Set with the MENU Button (Shooting Menu)

The settings listed below can be changed by pressing the **MENU** button during shooting (📖4).
















The settings that can be changed vary depending on the shooting mode, as shown below.

	Scene auto selector	Scene <sup>2</sup>	Special effects	Smart portrait	Auto mode
Image mode <sup>1</sup>	✓	✓	✓	✓	✓
White balance	-	-	-	-	✓
Continuous	-	-	-	-	✓
ISO sensitivity	-	-	-	-	✓
Color options	-	-	-	-	✓
AF area mode	-	-	-	-	✓
Autofocus mode	-	-	-	-	✓
Quick effects	-	-	-	-	✓
Skin softening	-	-	-	✓	-
Smile timer	-	-	-	✓	-
Blink proof	-	-	-	✓	-





<sup>1</sup> The setting is also applied to other shooting modes.

<sup>2</sup> Additional settings are available for some scene modes. See "Tips and Notes" (📖35) for more information.

## Options Available in the Shooting Menu

Option	Description	
Image mode	Allows you to set the combination of image size and image quality used when saving images. <ul style="list-style-type: none"><li>• Default setting:  <b>4608x3456</b></li></ul>	 34
White balance	Allows you to adjust white balance to suit the weather conditions or light source in order to make the colors in images match what you see with your eyes. <ul style="list-style-type: none"><li>• Default setting: <b>Auto</b></li></ul>	 36
Continuous	Allows you to select single or continuous shooting. <ul style="list-style-type: none"><li>• Default setting: <b>Single</b></li></ul>	 39
ISO sensitivity	Allows you to control the camera's sensitivity to light. <ul style="list-style-type: none"><li>• Default setting: <b>Auto</b></li></ul> When <b>Auto</b> is selected,  is displayed in the monitor while shooting if ISO sensitivity increases.	 42
Color options	Allows you to change the color tones of images. <ul style="list-style-type: none"><li>• Default setting: <b>Standard color</b></li></ul>	 43
AF area mode	Allows you to determine how the camera selects the focus area that is used for autofocus. <ul style="list-style-type: none"><li>• Default setting: <b>Target finding AF</b> (63)</li></ul>	 44
Autofocus mode	Allows you to select either <b>Single AF</b> , which focuses only when the shutter-release button is pressed halfway, or <b>Full-time AF</b> , which continues focusing even when the shutter-release button is not pressed halfway. <ul style="list-style-type: none"><li>• Default setting: <b>Single AF</b></li></ul>	 48
Quick effects	Allows you to enable or disable the quick effects function (  45). <ul style="list-style-type: none"><li>• Default setting: <b>On</b></li></ul>	 48



Option	Description	
Skin softening	Allows you to select the skin softening level for human faces. <ul style="list-style-type: none"> <li>• Default setting: <b>Normal</b></li> </ul>	 49
Smile timer	Allows you to select whether or not the camera automatically releases the shutter when it detects a human smiling face. <ul style="list-style-type: none"> <li>• Default setting: <b>On (BSS)</b></li> </ul>	 50
Blink proof	The camera automatically releases the shutter twice with every shot and saves one image in which the subject's eyes are open. <ul style="list-style-type: none"> <li>• Default setting: <b>Off</b></li> </ul>	 51

## Functions That Cannot Be Used Simultaneously

Some functions cannot be used with other menu options.

Restricted function	Option	Description
Flash mode	Continuous (📖58)	When a setting other than <b>Single</b> is selected, the flash cannot be used.
	Blink proof (📖59)	When <b>Blink proof</b> is set to <b>On</b> , the flash cannot be used.
	Smile timer (📖59)	When <b>On (continuous)</b> or <b>On (BSS)</b> is selected, the flash cannot be used.
Self-timer	Smile timer (📖59)	When <b>Smile timer</b> is selected, the self-timer cannot be used.
	AF area mode (📖58)	When <b>Subject tracking</b> is selected, the self-timer cannot be used.
Macro mode	AF area mode (📖58)	When <b>Subject tracking</b> is selected, macro mode cannot be used.
Image mode	Continuous (📖58)	<b>Image mode</b> is set as follows depending on the continuous shooting setting: <ul style="list-style-type: none"><li>• <b>Continuous H: 120 fps: VGA</b> (image size: 640 × 480 pixels)</li><li>• <b>Continuous H: 60 fps: 1M</b> (image size: 1280 × 960 pixels)</li><li>• <b>Multi-shot 16: 5M</b> (image size: 2560 × 1920 pixels)</li></ul>
White balance	Color options (📖58)	When <b>Black-and-white, Sepia</b> , or <b>Cyanotype</b> is selected, the <b>White balance</b> setting is fixed at <b>Auto</b> .

Restricted function	Option	Description
Continuous	Self-timer (📖51)	If the self-timer is used when <b>Pre-shooting cache</b> is selected, the setting changes to <b>Single</b> .
ISO sensitivity	Continuous (📖58)	When <b>Pre-shooting cache, Continuous H: 120 fps, Continuous H: 60 fps, or Multi-shot 16</b> is selected, the <b>ISO sensitivity</b> setting is automatically specified according to the brightness.
AF area mode	White balance (📖58)	When a setting other than <b>Auto</b> is selected for <b>White balance</b> in <b>Target finding AF</b> mode, the camera does not detect the main subject.
Quick effects	Continuous (📖58)	The quick effects function cannot be used for images with continuous shooting.
Smile timer	Blink proof (📖59)	When <b>Blink proof</b> is set to <b>On</b> , <b>Smile timer</b> is fixed at <b>On (single)</b> if <b>On (continuous)</b> or <b>On (BSS)</b> is set.
Blink proof	Smile timer (📖59)	When <b>Smile timer</b> is set to <b>On (continuous)</b> or <b>On (BSS)</b> , <b>Blink proof</b> is fixed at <b>Off</b> .
Monitor settings	Quick effects (📖58)	When <b>Quick effects</b> is set to <b>On</b> , <b>Image review</b> is fixed at <b>On</b> .
Print date	Continuous (📖58)	When <b>Pre-shooting cache, Continuous H: 120 fps, or Continuous H: 60 fps</b> is selected, date and time cannot be imprinted on images.

Restricted function	Option	Description
Motion detection	Continuous (📖58)	When a setting other than <b>Single</b> is selected, <b>Motion detection</b> is disabled.
	ISO sensitivity (📖58)	When the ISO sensitivity is set to any setting other than <b>Auto</b> , <b>Motion detection</b> is disabled.
	AF area mode (📖58)	When <b>Subject tracking</b> is selected, <b>Motion detection</b> is disabled.
	Smile timer (📖59)	When <b>On (continuous)</b> or <b>On (BSS)</b> is selected, <b>Motion detection</b> is disabled.
Blink warning	Continuous (📖58)	When a setting other than <b>Single</b> is selected, <b>Blink warning</b> is disabled.
Digital zoom	Continuous (📖58)	When <b>Multi-shot 16</b> is selected, digital zoom cannot be used.
	AF area mode (📖58)	When <b>Subject tracking</b> is selected, digital zoom cannot be used.
Shutter sound	Continuous (📖58)	When a setting other than <b>Single</b> is selected, the shutter sound is disabled.

### ✔ Notes About Digital Zoom

- Depending on the shooting mode or the current settings, digital zoom may not be available (📖79).
- When digital zoom is in effect, the camera focuses in the center of the frame.

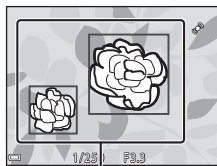
# Focusing

The focus area varies depending on the shooting mode.

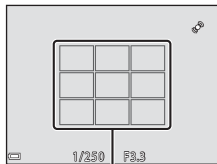
## Using Target Finding AF

When **AF area mode** (📖 58) in 📷 (auto) mode is set to **Target finding AF**, the camera focuses in the manner described below when you press the shutter-release button halfway.

- The camera detects the main subject and focuses on it.  
When the subject is in focus, the focus area glows green. If a human face is detected, the camera automatically sets focus priority on it.
- If no main subject is detected, the camera automatically selects one or more of the nine focus areas containing the subject closest to the camera. When the subject is in focus, the focus areas that are in focus glow green.



Focus areas



Focus areas

### ✓ Notes About Target Finding AF

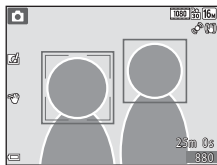
- Depending on shooting conditions, the subject that the camera determines to be the main subject may vary.
- The main subject may not be detected when using certain **White balance** settings.
- The camera may not detect the main subject appropriately in the following situations:
  - When the subject is very dark or bright
  - When the main subject lacks clearly defined colors
  - When the shot is framed so that the main subject is at the edge of the monitor
  - When the main subject is composed of a repeating pattern

## Using Face Detection

In the following shooting modes, the camera uses face detection to automatically focus on human faces.

- **SAF** (scene auto selector) mode (📖32)
- **Portrait** or **Night portrait** scene mode (📖34)
- Smart portrait mode (📖42)
- When **AF area mode** (📖58) in **📷** (auto) mode (📖44) is set to **Face priority**.

If the camera detects more than one face, a double border is displayed around the face that the camera focuses on, and single borders are displayed around the other faces.



If the shutter button is pressed halfway when no faces are detected:


- In **SAF** (scene auto selector) mode, the focus area changes depending on the scene.
- In **Portrait** and **Night portrait** scene modes or in smart portrait mode, the camera focuses on the area in the center of the frame.
- In **📷** (auto) mode, the camera selects the focus area containing the subject closest to the camera.

### ✔ Notes About Face Detection

- The camera's ability to detect faces depends on a variety of factors, including the direction in which the faces are looking.
- 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

## Using Skin Softening

When the shutter is released while using one of the shooting modes listed below, the camera detects human faces and processes the image to soften facial skin tones (up to three faces).

- Smart portrait mode (📖42)
  - The skin softening level can be adjusted.
-  (scene auto selector) mode (📖32)
- **Portrait** or **Night portrait** scene mode (📖34)

Editing functions such as **Skin softening** can be applied to saved images by using **Glamour retouch** (📖70) even after shooting.

### Notes About Skin Softening

- It may take more time than usual to save images after shooting.
- Under some shooting conditions, the desired skin softening results may not be achieved, and skin softening may be applied to areas of the image where there are no faces.

## Subjects Not Suitable for Autofocus

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

- Subject is very dark
- Objects of sharply differing brightness are included in the scene (e.g. the sun behind the subject makes that subject appear very dark)
- No contrast between the subject and surroundings (e.g. a portrait subject wearing a white shirt is standing in front of a white wall)
- Several objects are at different distances from the camera (e.g. the subject is inside a cage)
- 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 (📖67).



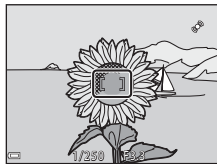
## Focus Lock

Focus lock shooting is recommended when the camera does not activate the focus area that contains the desired subject.

**1** Set **AF area mode** to **Center** in  (auto) mode (57).

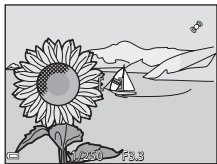
**2** Position the subject in the center of the frame and press the shutter-release button halfway.

- Confirm that the focus area glows green.
- Focus and exposure are locked.



**3** Without lifting your finger, recompose the picture.

- Make sure to maintain the same distance between the camera and the subject.



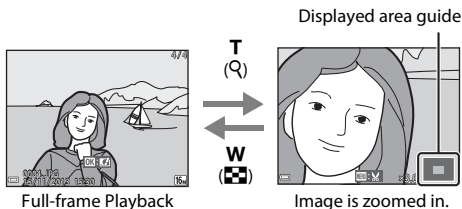
**4** Press the shutter-release button the rest of the way down to take the picture.



# Playback Features

## Playback Zoom

Moving the zoom control toward **T** (Q) in full-frame playback mode (📖28) zooms in on the image.



- You can change the zoom ratio by moving the zoom control toward **W** (📐) or **T** (Q).
- To view a different area of the image, press the multi selector ▲▼◀▶.
- If you are viewing an image that was captured using face detection or pet detection, the camera zooms in on the face detected at the time of shooting (except when viewing an image captured in a series). To zoom in on an area of the image where there are no faces, adjust the magnification rate and then press ▲▼◀▶.
- When a zoomed image is displayed, press the **OK** button to return to full-frame playback mode.

### Cropping Images

When a zoomed image is displayed, you can press the **MENU** button to crop the image to include only the visible portion and save it as a separate file (🔧21).